



South Florida Water Management District

GOVERNING BOARD MONTHLY MEETING AGENDA

April 11, 2024

9:00 AM

District Headquarters - B-1 Auditorium

3301 Gun Club Road

West Palm Beach, FL 33406

FINAL - REVISED

1. Call to Order - Chauncey Goss, Chairman, Governing Board
2. Pledge of Allegiance
3. Employee Recognitions
 - April 2024 Employee of the Month: Rajam John-Christella, Systems Engineering Analyst - SR
 - April 2024 Team of the Month: Microwave Team
 - 25-Year Service Award: Keith Herring, Lab Director - Analytical Services
 - 25-Year Service Award: Queenie Williams, Planner/Scheduler
 - 30-Year Service Award: Kang-Ren Jin, Lead Hydrologic Modeler
4. Agenda Revisions
5. Agenda Item Abstentions by Board Members
6. Consider Approval of the Minutes for the March 14, 2024 Meeting
7. Executive Director's Report - Drew Bartlett
8. General Public Comment
9. Board Comment

10. Move Consent Agenda Items to Discussion Agenda
11. Public Comment on Consent Agenda Items
12. Board Vote on Consent Agenda

Consent Agenda

13. Land Acquisition, Shingle Creek Project Area, Orange County (Staff contact, Ray Palmer)

Agenda Item Background:

Shingle Creek is located in southern Orange County and is generally considered to be the headwaters for the Everglades. The District has been acquiring land on a willing seller basis to preserve and protect this resource. Staff is seeking Governing Board approval to acquire a total of 13.69 acres, more or less, from willing sellers for a cumulative purchase price of \$684,500.

Recommended Action:

Resolution No. 2024-0401 Acquire land interests containing 2.48 acres, more or less, in the amount of \$124,000, and containing 3.74 acres, more or less, in the amount of \$187,000, and containing 2.5 acres, more or less, in the amount of \$125,000, and containing 2.47 acres, more or less, in the amount of \$123,500, and containing 2.5 acres, more or less, in the amount of \$125,000, all located in the Shingle Creek Project Area in Orange County, for which dedicated funds (Wetland Mitigation Fund) are budgeted.

[Resolution No. 2024-0401](#)

[Map](#)

14. Acquisition of Easement Encumbrance Interests, Tract LE20E-001, St. Lucie County (Staff contact, Ray Palmer)

Agenda Item Background:

The District previously acquired lands containing approximately 1,583.29 acres (District Lands) for the Indian River Lagoon South Project, C-25 Reservoir and Stormwater Treatment Area Component (Project Component) in St. Lucie County. The District Lands are encumbered by existing drainage, irrigation, and access easements (Existing Easements). The District will enter into an agreement for sale and purchase whereby the Existing Easements will be terminated for the amount of \$3,862,500.

At the time of the acquisition of the lands, it was determined that the Project Component could be designed and constructed in a manner that would handle the Existing Easements without adversely affecting the core mission and purpose of the Project Component. However, in early 2023, during the design phase, it was estimated that the cost was between \$25 million and \$30 million for the portion of the design and construction associated with incorporating the Existing Easements into the overall design and construction of the Project Component. Additionally, it became apparent how much incorporating the Existing Easements would complicate the operation of the Project Component. Therefore, the analysis shifted to compensating the owner of the

lands benefitted by the Existing Easements (Benefitted Lands) an amount equal to the estimated damage to the value of the Benefitted Lands for terminating the Existing Easements.

Recommended Action:

A. Resolution No. 2024-0402 Approve an agreement for sale and purchase in the amount of \$3,862,500 for the Indian River Lagoon - South Project, C-25 Reservoir and Stormwater Treatment Area Component in St. Lucie County, whereby existing drainage, irrigation, and access easement interests encumbering District lands are acquired and terminated, plus associated costs, for which dedicated funds (Land Acquisition Trust Fund) are budgeted.

B. Resolution 2024-0403 Advise the Florida Department of Environmental Protection of the proposed approval of an agreement for sale and purchase for the Indian River Lagoon - South Project, C-25 Reservoir and Stormwater Treatment Area Component in St. Lucie County, whereby existing drainage, irrigation, and access easement interests encumbering District lands are acquired and terminated, and requesting the release of funds in the amount of \$3,862,500, and associated costs, from the Land Acquisition Trust Fund for the acquisition and termination of such land interests.

[A. Resolution No. 2024-0402](#)

[B. Resolution No. 2024-0403](#)

[Map](#)

15. Exchange Agreement with Florida Power & Light Company, C-23 Estuary Discharge Diversion Component of the Indian River Lagoon - South Project, Martin County (Staff contact, Ray Palmer)

Agenda Item Background:

The District, together with the United States Army Corps of Engineers, is commencing the construction process for implementation of the C-23 Estuary Discharge Diversion Component of the Indian River Lagoon - South Project. The Project Component requires electrical power lines to convey power to District structures. Pursuant to an Exchange Agreement between Florida Power & Light Company (FPL) and the District, in exchange for FPL's removal of certain existing electrical power line improvements and termination of associated easement interests within the Project Component, the District will convey to FPL a new utility easement within the Project Component. The Exchange Agreement provides that for the purposes of the exchange, the value of the new utility easement is equal to the value of the terminated easement interests.

Recommended Action:

Resolution No. 2024-0404 Approve surplus for exchange and conveyance to Florida Power & Light Company easement interests encumbering 0.10 acres, more or less, in exchange for Florida Power & Light Company terminating existing easement interests within the Indian River Lagoon - South Project, C-23 Estuary Discharge Diversion Component, located in Martin County.

[Resolution No. 2024-0404](#)

[Map](#)

16. Agreement Amending Deed Use Restrictions, Palm Beach County (Staff contact, Ray

Palmer)

Agenda Item Background:

The District conveyed approximately 362.84 acres of land in Palm Beach County to the Village of Wellington by virtue of a February 10, 2009, Quitclaim Deed that contained certain restrictions and covenants that limited and restricted the Village's use of the land. The Village has requested that the District agree to amend the Restrictions to allow installation of a cell tower. The District and the Village will enter into an agreement whereby the Village will be allowed to construct and install a cell tower and accessory improvements within an area containing 0.35 acres, more or less.

Recommended Action:

Resolution No. 2024-0405 Approve an agreement with the Village of Wellington amending use restrictions to allow installation of a cell tower within a 0.35 acre, more or less, area of land in Palm Beach County previously conveyed to the Village by the District.

[Resolution No. 2024-0405](#)

[Map](#)

17. Release of Reservations (Staff contact, Ray Palmer)

Agenda Item Background:

The District has certain reserved rights to construct canal right of ways. Applications requesting release of these reservations are received as they constitute a defect on title which must be resolved prior to a property sale, especially when financing is involved. Applications are reviewed to determine if there is a present or future need for the reservations. Applications are routed to local governments and water control districts to ascertain their potential need for the reservation. If it has been determined there is no present or future need, staff concluded that the reservations may be released for payment of a value equal to three percent (3%) of the appraised value of the land on the Property Appraiser's website in the County where the property is located.

The District is also required to review canal reservations held by the Board of Trustees of the Internal Improvement Trust Fund and advise the Florida Department of Environmental Protection whether the canal reservations should be released or if there is a present or future need by the District or a local county, city or drainage district.

It has been determined that there is no present or apparent future need for the reservations listed below, therefore staff asks the Board to consider approval of the following:

Broward County

- Recommend approval of release of TIITF canal reservations for Humbold 18, LLC, a Florida limited liability company (File No. 18933-A) for 18.27 acres; release value N/A (TIITF canal reservations)
- Recommend approval of release of TIITF canal reservations for 3633 Pine Island, LLC, a Florida limited liability company (File No. 18933-B) for 2.99 acres; release value N/A (TIITF canal reservations)
- Release District canal reservations for Elster/Rocatica, LLC, a Florida limited

liability company (File No. 18946) for 4.50 +/- acres; subject to payment of release value of \$102,750.00

Palm Beach County

- Release District canal reservations for Delray Logistics Park Owner, LLC, a Delaware limited liability company (File No. 18943) for 9.36 +/- acres; subject to payment of release value of \$44,859.00

Recommended Action:

A. Resolution No. 2024-0406 Approve recommending release of canal reservations held by the Board of Trustees of the Internal Improvement Trust Fund.

B. Resolution No. 2024-0407 Release District canal reservations.

[Memorandum Exhibit A](#)

[A. Resolution No. 2024-0406](#)

[B. Resolution No. 2024-0407](#)

[Maps](#)

18. C-23 Estuary Discharge Diversion Change Order No. 2, Martin County (Staff contact, Lucine Dadrian, P.E.)

Agenda Item Background:

As part of the Comprehensive Everglades Restoration Plan - Indian River Lagoon South program, the C-23 Estuary Discharge Diversion Project located in Martin County will include the construction of approximately 6.85-miles of canal, a 250 cubic feet per second Pump Station located on the C-23 Canal, two culvert crossings beneath County Road 714 Martin Highway and Coca Cola Road, a Stormwater Treatment Area (STA) access service bridge, and a discharge spillway into the C-44 Reservoir Western Perimeter Canal. This project will assist with the reduction of harmful discharges to the St. Lucie Estuary by routing excess water from the C-23 Canal away from the South Fork of the St. Lucie River to the C-44 Reservoir and STA.

The C-23 Estuary Discharge Diversion Project is also identified as a predecessor to the Central Everglades Planning Project (CEPP). As referenced in the CEPP Project Implementation Report, this project will help replenish Lake Okeechobee via the C-44 Canal by replacing water that has been transferred from Lake Okeechobee to Water Conservation Area 3A.

On November 14, 2022, the Governing Board awarded the C-23 Estuary Discharge Diversion project to Harry Pepper and Associates, Inc. (Contract No. 4600004680) in the amount of \$46,227,152.00. Change Order No. 2 scope includes installation of 30-in diameter storm drainage pipe for monitoring well access, removal of an existing cattle fence located within the project easement and construction of three miles of new cattle fence and a 12-ft wide access road outside of the District's easement from County Road 714 to Coco Cola Road. Also included is the relocation four existing access gates and associated drainage pipes at four canal crossings, removal of two existing culverts, generator upgrade from 36 kW to 45 kW, and relocation of the seepage collection canal 10-ft west and a material change of drainpipe. Change Order No. 2 is \$803,518.12 for a total contract value of \$47,625,394.42.

Recommended Action:

Resolution No. 2024-0408 Authorize Change Order No. 2 with Harry Pepper & Associates, Inc., in the amount of \$803,518.12 for which dedicated funds (Land Acquisition Trust Fund) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024. (Contract No. 4600004680-CO02)

[Resolution No. 2024-0408](#)

[Location Map](#)

19. Design/Build of the Clewiston Field Station Building Relocation Project Amendment No. 6, Phase Two Services, IT Facility and Microwave Tower Construction, Hendry County (Staff contact, Lucine Dadrian, P.E.)

Agenda Item Background:

As part of the Operations and Maintenance Capital Improvement Program, the Clewiston Field Station Relocation, located in Hendry County, consists of the design and construction of a new and expanded Clewiston Field Station. The new facility will be located on District land located in Hendry County. The existing Field Station has reached the end of its useful life and requires replacement with facilities that meet current code requirements and facility needs.

The new facility will also consolidate and centrally locate the works and services provided in support of the District's mission for existing infrastructure operations as well as support new infrastructure that are in design and construction in the CERP, CEPP, Northern Everglades and Estuaries Protection Program, and Restoration Strategies programs. They include critical projects such as the C-43 Caloosahatchee Reservoir, A2 STA and Reservoir, Boma Flow Equalization Basin (FEB), Lake Hicpochee FEB Phase 1 and 2, C-139 FEB, and CEPP North Features.

The District is using the Progressive Design/Build procurement method to work in collaboration with the contractor from the conceptual phase through construction phase. The current Contract provides for the Design/Builder to deliver the Phase One Services Technical Exhibits for the Field Station site work, administration and fleet maintenance buildings, and features through Final Design (90%), and the Information Technology building and Microwave Tower through Corrected Final Design (100%). Amendment No. 6 advances the Information Technology building and Microwave Tower under the Phase Two Services to provide construction of a fully functioning Microwave Tower in advance of the Field Station project.

Recommended Action:

Resolution No. 2024-0409 Authorize an amendment to the Design Build contract with State Contracting and Engineering Corporation, for the Phase Two Services for the construction of the Clewiston Field Station IT Facility and Microwave Tower for 467 days in an amount not-to-exceed \$6,068,741.00 in dedicated funds (Land Acquisition Trust Fund) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024. (Contract No. 4600004535-A06).

[Resolution No. 2024-0409](#)

[Location Map](#)

20. C-23/24 South Reservoir Project, Package 1, St. Lucie County (Staff contact, Lucine

Dadrian, P.E.)

Agenda Item Background:

As part of the Comprehensive Everglades Restoration Plan - Indian River Lagoon South (IRL-S), the C-23/24 South Reservoir Package 1 Project, located in St. Lucie County, will include the excavation, widening and hardening of approximately 5.0-miles of the C-23 Canal, replacement of the G-78 water control structure with a new gated water control structure S-456, and replacement of various project culverts within the limits of construction. This first package will support water deliveries to the C-23/24 South Reservoir, which will encompass more than 3,500 acres and store approximately 57,000 acre-feet of water.

The project along with the other components of IRL-S will improve the estuarine health of the St. Lucie River, St. Lucie Estuary, and the southern Indian River Lagoon. This will be accomplished by reducing the frequency and duration of damaging discharges to the receiving water bodies and the retention of watershed flows in the natural system.

The lowest responsive and responsible bidder is recommended for award. In accordance with District policy and consistent with state law for Request for Bids (RFB) procurements, this item was competitively bid through a sealed bid process. The bid opening for this project was on April 4, 2024.

Recommended Action:

Resolution No. 2024-0410 Authorize entering into a 540-day contract with Phillips & Jordan, Inc., the lowest responsive and responsible bidder, for the C-23/24 South Reservoir Project Package 1, in the amount of \$59,431,000.00, for which \$20,000,000.00 in dedicated funds (Land Acquisition Trust Fund) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004965)

[Resolution No. 2024-0410](#)

[Location Map](#)

21. S-9 and S-9A Trash Rake and Pump Station Refurbishments Project Change Order No. 7, Broward County (Staff contact, Lucine Dadrian, P.E.)

Agenda Item Background:

As part of the Operations and Maintenance Capital Program, the S-9 and S-9A Trash Rake and Pump Station Refurbishments Project, located in Broward County, consists of a new trash rake bridge and rake system, new generator building, fuel system upgrades, refurbishment of main pump #3 and miscellaneous site and building upgrades and repairs. The upgrades are needed to maintain the pump station's operating efficiency and reliability by replacing or refurbishing equipment that is near its end-of-life cycle. The S-9 and S-9A pump stations were originally constructed in 1956 and 2002, respectively.

On November 10, 2021, the Governing Board awarded the S-9 and S-9A Trash Rake and Pump Station Refurbishments Project contract to Harry Pepper & Associates in the amount of \$27,492,651 (Contract No. 4600004514). Change Order No. 7 includes

the investigation and assessment of Pump No. 1 shaft, bearings, shaft sleeves and bearing housings to determine their current condition, three 2-piece pump shafts and associated hardware, S-9A flap gates and discharge pipes replacement, and re-routing of the fuel overflow pipe around the generator building for a total of \$3,305,510.94 and a total contract value of \$31,538,038.01.

The pump shafts have been in use since 1956 and show significant corrosion and wear requiring replacement to prevent pump station failure. The flap gates and discharge pipes at S-9A have significant corrosion and replacement is recommended. The fuel overflow pipe at the new generator building requires re-routing due to conflicts with the electrical panels.

Recommended Action:

Resolution No. 2024-0411 Authorize Change Order No. 7 with Harry Pepper & Associates, Inc., for the construction of the S-9 and S-9A Trash Rake and Pump Station Refurbishments Project, for an additional amount not to exceed \$3,305,510.94, for which dedicated funds (State Appropriations) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024. (Contract No. 460004514-CO07)

[Resolution No. 2024-0411](#)

[Location Map](#)

22. STA-1E Cell 2 - Outflow Structure Emergency Power Generator Project Change Order No. 4, Palm Beach County (Staff contact, Lucine Dadrian, P.E.)

Agenda Item Background:

As part of the Operations and Maintenance Capital Improvement Program and to increase STA resilience, the STA-1E Cell 2 - Outflow Structure Emergency Power Generator project, located in Palm Beach County, will improve the District's ability to manage operations during power outages and protect STA performance. Currently, in anticipation of power outages that would leave the STA-1E Cell 2 gates inoperable, the Cell 2 discharge gates are opened and then held open during storm events. This causes a rapid drawdown of Cell 2 and uncontrolled flows during storm events which have caused extensive erosion to the cell, compromising the cell's water quality treatment performance. This project involves retrofitting S-365B with permanent backup power, a new generator building, and miscellaneous site-civil improvements. Once complete, the flows through Cell 2 can be managed in a manner that supports treatment performance.

On July 13, 2023, the Governing Board awarded the STA-1E Cell 2 - Outflow Structure Emergency Power Generator project to Expert Construction Managers, Inc. in the amount of \$2,177,000.00. Change Order No. 4 includes Cell 2 treatment area erosion restoration and stilling well and gate control panel modifications for a total of \$216,784.06 and a total contract value of \$3,391,620.07.

Recommended Action:

Resolution No. 2024-0412 Authorize Change Order No. 4 with Expert Construction Managers, Inc., for the construction of the STA-1E Cell 2 - Outflow Structure Emergency Power Generator Project, for an additional amount not to exceed \$216,784.06, for which dedicated funds (State Appropriations) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024. (Contract No. 460004792-

CO04)

[Resolution No. 2024-0412](#)

[Location Map](#)

23. L-28 Microwave Tower Power Supply - Right of Way Occupancy Permit and Waiver, Florida Power & Light Company (Staff contact, Rich Virgil)

Agenda Item Background:

Florida Power & Light Company (Applicant) requests a Standard Right of Way Occupancy Permit Number 16931-R (ROW Permit) to install an aerial utility crossing with 2 utility poles and associated down guys/anchor within the right of way of the L-29 South Canal at its intersection with the L-28 Canal. Only the pole on the north side of the canal will have 2 down guys which extend from the pole to the anchor on the ground. The proposed aerial crossing is associated with a District project to provide permanent electric service to the District's L-28 Microwave Tower located 14 miles to the north. The tower is currently serviced by a gas-powered generator.

Presently, based on existing conditions and electric service design requirements, there are no available locations to install the poles and anchor for the aerial utility crossing. In addition, installing the poles and anchor within the L-29S Canal itself is not an option. To address this design challenge, the District will construct new earthen "pole pads" extending into the canal from both the north and south banks. The pole pads will only be large enough to provide an earthen location for the poles and anchor and are not designed to accommodate the required 40-foot setback to top of bank. A waiver to the rule is required for this District project. If approved, the proposed work will not interfere with or adversely impact the District's routine or emergency operations, maintenance, or future construction activities.

Recommended Action:

Approve issuance of Standard Right of Way Occupancy Permit 16931-R and the order granting the associated petition for waiver to allow an aerial utility crossing with 2 utility poles and associated down guys/anchor within 40 feet of top of bank to provide electric service to the L-28 Microwave Tower (Application No. 231222-41795).

[Backup Presentation](#)

24. *ITEM POSTPONED* Amendment to Local Funding Agreement, CEPP EAA US 27 Bridges Project, Palm Beach County (Staff contact, Jennifer Reynolds)

Agenda Item Background:

The District's Governing Board passed and adopted Resolution No. 2021-0509 on May 13, 2021, to authorize entering into Local Funding Agreement (LFA) No. 4600004411 with the Florida Department of Transportation (FDOT) to provide financial assistance to FDOT for the development (in-house and consultant design) of a full set of signed and sealed roadway construction plans for FDOT's roadway / bridge construction of State Road 25/US-27 at 27 miles North of the I-75/US-27 Interchange in Palm Beach County the in amount of \$1,571,865.

The bridge is a necessary part of the CEPP Everglades Agricultural Area (EAA) A-2 Reservoir project and will allow up to 3,000 cfs of water to be delivered from/to the

North New River Canal to/from the reservoir with minimum head losses.

On January 21, 2022, the District executed an amendment to the LFA (Amendment No. 1) increasing the District's financial assistance by \$146,188 to cover the cost of Survey and additional Design Services, bringing the total value of the District's financial assistance to \$1,718,053.

FDOT's US 27 Roadway / Bridge design is currently at the Intermediate (60%) Design level. Execution of this amendment (Amendment No. 2), together with its associated Escrow Agreement, will increase the District's financial assistance by \$229,830 and is needed to fund District-requested design changes to the aforementioned roadway / bridge design, bringing the total value of the District's financial assistance under this LFA to \$1,947,883.

Governing Board approval to execute Amendment No. 2 is required as the total financial commitment attributable to Amendment No. 1 together with Amendment No. 2 exceeds the current threshold that District staff can approve without benefit of Governing Board approval and is required to enable FDOT to proceed with Final Design of the CEPP EAA US-27 Bridges Component.

Recommended Action:

Resolution No. 2024-0413 Authorize an amendment to the Local Funding Agreement (LFA) with Florida Department of Transportation (FDOT) for the development of a full set of signed and sealed roadway construction plans for FDOT's roadway / bridge construction of SR25/US-27 at 27 miles North of the I-75/US-27 Interchange, in the amount of \$229,830 for which dedicated funds (Everglades Trust Fund and Land Acquisition Trust Fund) are budgeted in Fiscal Year 2023-2024. (Contract 4600004411-A02)

[Resolution No. 2024-0413](#)

[Location Map](#)

[Draft Amendment No. 2](#)

[Executed Design LFA](#)

[Scope of Services](#)

25. April 2024 as Water Conservation Month (Staff contact, Lawrence Glenn)

Agenda Item Background:

April is normally the last month of South Florida's dry season and water needs are most acute, highlighting the importance of conserving water. Since 1998, the month of April has been proclaimed Water Conservation Month in Florida to increase awareness and promote efficient use of the state's diverse water resources. With this resolution, the District will join the Florida Section of the American Water Works Association, water management districts, local governments, and other organizations in supporting water conservation through the adoption of similar resolutions throughout Florida.

Recommended Action:

Resolution No. 2024-0414 Proclaim April as Water Conservation Month.

[Resolution No. 2024-0414](#)

Discussion Agenda

26. Science and Technology Support Services Contracts (Staff contact, Sean Sculley, P.E.)

Agenda Item Background:

The District has maintained a series of science and technology support services contracts with private firms for several years, which are set to expire July 2024. This agenda item addresses the need to continue to have these services available to facilitate the delivery of the District’s applied research and related projects conducted primarily in the Applied Sciences, Water Quality, Hydrology & Hydraulics, Ecosystem Restoration bureaus. A Request for Proposals solicited technical proposals from qualified firms to provide support services in nine disciplines, including ecosystem and vegetation biology, soil sciences, wildlife biology, water quality monitoring, analytical laboratory services, data science, hydrology and hydraulics, permitting, and technical editing. Contract awards are requested for a duration of three-years with the option of extending with two 1-year renewals. Assignments under each contract will be executed via work orders. The six firms selected for these contracts are Stantec Consulting Services, Inc., DB Environmental Laboratories, Inc., Environmental Science Associates Corporation, WSP USA, Inc., South Florida Engineering and Consulting, LLC., and Applied Ecology, Inc.

Eleven firms responded to the request for proposals. Ten were deemed responsible and responsive. The evaluation committee selected six firms due to there being a sizeable gap between the sixth- and seventh-ranked firms.

Recommended Action:

Resolution No. 2024-0415 Authorize the official ranking and entering into three-year contracts, with the option of executing two 1-year extensions, with each of the following six private firms: Applied Ecology, Inc., DB Environmental Laboratories, Inc., Environmental Science Associates Corporation, South Florida Engineering and Consulting LLC, Stantec Consulting Services, Inc., and WSP USA, Inc. subject to successful negotiations, to provide Scientific and Technology Support Services in an amount not-to-exceed \$15,000,000 for the six contracts, which the Fiscal Year 2023-2024 budget includes approved Ad Valorem and dedicated funds (State Appropriations) and the remainder is subject to Governing Board approval of future years budgets; the District may proceed with negotiations with the six selected firms until contracts are successfully negotiated.

Contract No.	Vendor Name
4600004945	Stantec Consulting Services, Inc.
4600004946	DB Environmental Laboratories, Inc.
4600004947	Environmental Science Associates Corporation
4600004948	WSP USA, Inc.
4600004949	South Florida Engineering and Consulting LLC

Resolution No. 2024-0415

Technical Reports

27. Water and Ecological Conditions Report - John P. Mitnik and Lawrence Glenn

Staff Reports

28. Monthly Financial Report - Candida Heater, Division Director - Administrative Services
29. General Public Comment
30. Board Comment
31. Adjourn

eComment, Final Presentations, and Project Updates

Agenda Item Background:

- [8 eComment Bookston](#)
- [26 Sculley Science and Technology Support Services Contracts](#)
- [27 Mitnik Glenn Water and Ecological Conditions Report Combined](#)
- [Project Update CERP](#)
- [Project Update NEEPP](#)

Public Comment Procedure

The South Florida Water Management District Governing Board encourages the public to provide comment and input to the Governing Board. Public comment is accepted at the two dedicated General Public Comment periods at the beginning and the end of the meeting. Public comment is also accepted on the Consent Agenda and each Discussion Agenda item.

MEMORANDUM

TO: Governing Board Members

FROM: Ray Palmer, Real Estate

DATE: April 11, 2024

SUBJECT: Land Acquisition, Shingle Creek Project Area, Orange County

Agenda Item Background:

Shingle Creek is located in southern Orange County and is generally considered to be the headwaters for the Everglades. The District has been acquiring land on a willing seller basis to preserve and protect this resource. Staff is seeking Governing Board approval to acquire a total of 13.69 acres, more or less, from willing sellers for a cumulative purchase price of \$684,500.

Additional Item Background:

The proposed acquisitions of privately-owned land within the Shingle Creek Project allow the District to achieve ownership consistent with its environmental goals. The acquisitions will consolidate District ownership with other District owned lands.

Funding Source:

The purchase prices are all below the respective appraised values. The closing costs will be paid by the seller. All costs, including acquisition and associated costs, were or will be funded from the District's Wetland Mitigation Fund.

Staff Contact and/or Presenter:

Ray Palmer, rpalmer@sfwmd.gov, 561-682-2246

ATTACHMENTS:

[Resolution No. 2024-0401](#)

[Map](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024-04XX

A Resolution of the Governing Board of the South Florida Water Management District to acquire land interests containing 2.48 acres, more or less, in the amount of \$124,000, and containing 3.74 acres, more or less, in the amount of \$187,000, and containing 2.5 acres, more or less, in the amount of \$125,000, and containing 2.47 acres, more or less, in the amount of \$123,500, and containing 2.5 acres, more or less, in the amount of \$125,000, all located in the Shingle Creek Project Area in Orange County, for which dedicated funds (Wetland Mitigation Fund) are budgeted; providing an effective date.

WHEREAS, the South Florida Water Management District is currently acquiring land from willing sellers in connection with the implementation of the Shingle Creek Project in Orange County; and

WHEREAS, the South Florida Water Management District desires to purchase land interests containing 2.48 acres, more or less, in the amount of \$124,000, and containing 3.74 acres, more or less, in the amount of \$187,000, and containing 2.5 acres, more or less, in the amount of \$125,000, and containing 2.47 acres, more or less, in the amount of \$123,500, and containing 2.5 acres, more or less, in the amount of \$125,000, for the Shingle Creek Project, as shown on the location map Exhibit "A," attached hereto and made a part hereof, and declare surplus, disposal of, and removal from the asset records, any such structures and improvements deemed unnecessary for the stated purpose for the original land acquisition; and

WHEREAS, all costs are to be funded from the District's Wetland Mitigation Fund for the acquisition and associated costs; and

WHEREAS, the South Florida Water Management District is authorized to acquire land, or interests or rights in land, pursuant to Section 373.139, Florida Statutes; and

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes the acquisition of land interests containing 2.48 acres, more or less, in the amount of \$124,000, and containing 3.74 acres, more or less, in the amount of \$187,000, and containing 2.5 acres, more or less, in the amount of \$125,000, and containing 2.47 acres, more or less, in the amount of \$123,500, and containing 2.5 acres, more or less, in the amount of \$125,000, for the Shingle Creek Project in Orange County, together with associated costs, for which dedicated funds (Wetland Mitigation Fund) have been budgeted as follows:

Owner	Tract No.	Interest	Acres	Appraised Value	Purchase Price
Kelly B. Greene	26102-156	Fee	2.48	\$148,800	\$124,000
Kelly B. Greene	26102-249	Fee	3.74	\$224,400	\$187,000
John Kevin Brune and Diana L. Brune, as Trustees	26103-265	Fee	2.5	\$150,000	\$125,000
Kalpna Patel	26103-256	Fee	2.47	\$148,200	\$123,500
Frank J. Zechman	26102-066	Fee	2.5	\$150,000	\$125,000

Amount	Fund	Fund Center	Functional Area	GL Account #	Account Description
\$ 684,500	409025	3510144000	AA05	580020	Acquisition

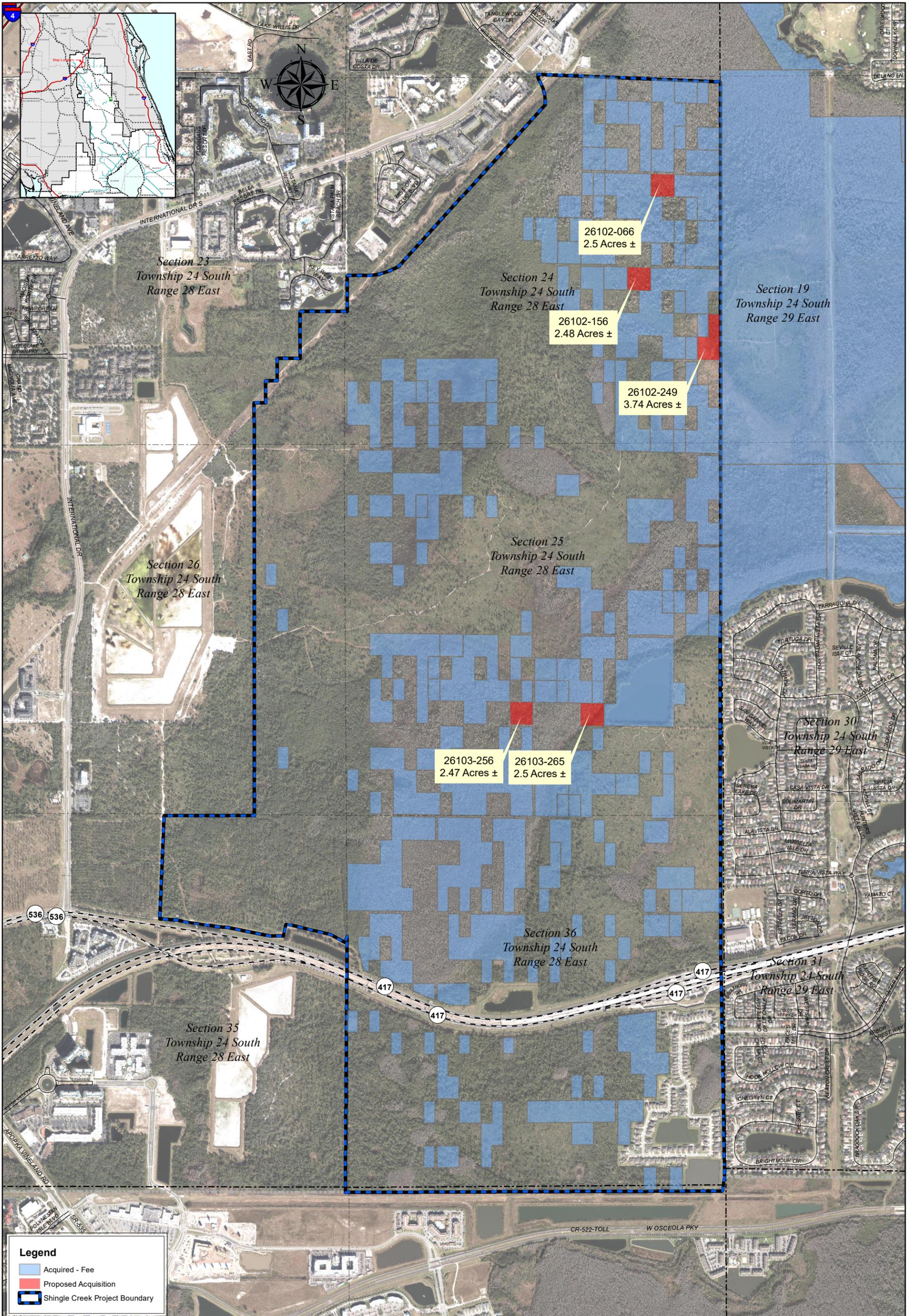
Section 2. The Governing Board of the South Florida Water Management District hereby further approves declaring surplus, disposal of and removal from the asset records, any such structures and improvements deemed unnecessary for the stated purpose of the original land acquisition.

Section 3. The Governing Board of the South Florida Water Management District hereby authorizes the Chairman or Vice Chairman to execute the Agreement for Sale and Purchase instrument. The Governing Board of the South Florida Water Management District hereby authorizes the Executive Director or the Executive Director's designee to make any determinations in connection with the transaction and execute all other documents necessary to consummate these transactions.

Section 4. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 11th day of April, 2024.

Exhibit "A"





South Florida Water Management District
3301 Gun Club Rd, West Palm Beach, FL 33406
561-686-8800 - FL WATS 1-800-432-2045
P.O. Box 24680 - West Palm Beach, FL 33416-4680

Shingle Creek
26102-066, 26102-156, 26102-249,
26103-256 & 26102-265
Orange County, Florida

IMPORTANT DISCLAIMER:
 This map is a conceptual or planning tool only. The South Florida Water Management District does not guarantee or make any representation regarding the information contained herein. It is not self-executing or binding, and does not affect the interests of any persons or properties, including any present or future right or use of real property.

Map Date: March 2024



MEMORANDUM

TO: Governing Board Members

FROM: Ray Palmer, Real Estate

DATE: April 11, 2024

SUBJECT: Acquisition of Easement Encumbrance Interests, Tract LE20E-001, St. Lucie County

Agenda Item Background:

The District previously acquired lands containing approximately 1,583.29 acres (District Lands) for the Indian River Lagoon South Project, C-25 Reservoir and Stormwater Treatment Area Component (Project Component) in St. Lucie County. The District Lands are encumbered by existing drainage, irrigation, and access easements (Existing Easements). The District will enter into an agreement for sale and purchase whereby the Existing Easements will be terminated for the amount of \$3,862,500.

At the time of the acquisition of the lands, it was determined that the Project Component could be designed and constructed in a manner that would handle the Existing Easements without adversely affecting the core mission and purpose of the Project Component. However, in early 2023, during the design phase, it was estimated that the cost was between \$25 million and \$30 million for the portion of the design and construction associated with incorporating the Existing Easements into the overall design and construction of the Project Component. Additionally, it became apparent how much incorporating the Existing Easements would complicate the operation of the Project Component. Therefore, the analysis shifted to compensating the owner of the lands benefitted by the Existing Easements (Benefitted Lands) an amount equal to the estimated damage to the value of the Benefitted Lands for terminating the Existing Easements.

Additional Item Background:

The District Lands provide the land for the design and construction of the C-25 Reservoir and Stormwater Treatment Area, which is necessary for the water storage and treatment purposes of the Project Component. The Project Component will capture, store and attenuate flows from the C-25 Canal to reduce harmful discharges to the southern Indian River Lagoon at the Ft. Pierce Inlet.

Funding Source:

The \$3,862,500 purchase price and all associated costs associated will be funded from Land Acquisition Trust Fund.

Staff Contact and/or Presenter:

Ray Palmer, rpalmer@sfwmd.gov, 561-682-2246

ATTACHMENTS:

A. Resolution No. 2024-0402

B. Resolution No. 2024-0403

Map

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024-04XX

A Resolution of the Governing Board of the South Florida Water Management District to approve an agreement for sale and purchase in the amount of \$3,862,500 for the Indian River Lagoon - South Project, C-25 Reservoir and Stormwater Treatment Area Component in St. Lucie County, whereby existing drainage, irrigation, and access easement interests encumbering District lands are acquired and terminated, plus associated costs, for which dedicated funds (Land Acquisition Trust Fund) are budgeted; providing an effective date.

WHEREAS, pursuant to Resolution 2021-1115, the South Florida Water Management District acquired 1,583.29 acres, more or less, (the “District Lands”) for the Indian River Lagoon - South Project, C-25 Reservoir and Stormwater Treatment Area Component (the “Project Component”) in St. Lucie County; and

WHEREAS, the District Lands are encumbered by certain existing drainage, irrigation, and access easements (the “Existing Easements”) that benefit the lands directly north of the District Lands (“Benefitted Lands”), all as depicted in the attached Exhibit “A”; and

WHEREAS, the District desires to enter into an agreement for sale and purchase whereby the Existing Easements will be terminated for the amount of \$3,862,500; and

WHEREAS, the South Florida Water Management District is authorized to acquire land, or interests or rights in land, pursuant to Section 373.139, Florida Statutes.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby approves an agreement for sale and purchase whereby existing drainage, irrigation, and access easement interests encumbering the District Lands are acquired and terminated for the amount of \$3,862,500, plus associated costs, for the Indian River Lagoon - South Project, C-25 Reservoir and Stormwater Treatment Area Component, in St. Lucie County, for which dedicated funds (Land Acquisition Trust Fund) are budgeted, as follows:

Owners	Tract No.	Interest	Acres	Appraised Value	Purchase Price
Premier Citrus, LLC	LE20E-001	Easements	N/A	\$3,725,000	\$3,862,500

Amount	Fund	Fund Center	Functional Area	GL	Account Description
\$3,862,500	425000	3510144000	P107	580020	Acquisition

Section 2. The Governing Board of the South Florida Water Management District hereby authorizes the Chairman or Vice Chairman to execute the Agreement for Sale and Purchase, and further authorizes the Executive Director or his designee to make any determinations in connection with the transaction and execute all other documents necessary to consummate this transaction.

Section 3. This Resolution shall take effect immediately upon adoption.

PASSED and **ADOPTED** this 11th day of April, 2024.

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024-04XX

A Resolution of the Governing Board of the South Florida Water Management District advising the Florida Department of Environmental Protection of the proposed approval of an agreement for sale and purchase for the Indian River Lagoon - South Project, C-25 Reservoir and Stormwater Treatment Area Component in St. Lucie County, whereby existing drainage, irrigation, and access easement interests encumbering District lands are acquired and terminated, and requesting the release of funds in the amount of \$3,862,500, and associated costs, from the Land Acquisition Trust Fund for the acquisition and termination of such land interests.

WHEREAS, the South Florida Water Management District is acquiring land for the C-25 Reservoir and Stormwater Treatment Area component of the Indian River Lagoon South Project (“Project”), which Project is itself a component of the Comprehensive Everglades Restoration Plan (“CERP”) authorized by Congress in Section 1001(14) of the Water Resources Development Act of 2007; and

WHEREAS, on September 9, 2010, the District entered into a Project Partnership Agreement with the U.S. Department of the Army to set forth the parties' responsibilities for the construction, operation, maintenance, repair, replacement, and rehabilitation of the Project; and

WHEREAS, pursuant to Resolution 2021-1115, the South Florida Water Management District acquired 1,583.29 acres, more or less, (the “District Lands”) for the Project in St. Lucie County; and

WHEREAS, the District Lands are encumbered by certain existing drainage, irrigation, and access easements (the “Existing Easements”) that benefit the lands directly north of the District Lands (“Benefitted Lands”), all as depicted in the attached Exhibit “A”; and

WHEREAS, the District desires to enter into an agreement for sale and purchase whereby the Existing Easements will be acquired and terminated for the amount of \$3,862,500; and

WHEREAS, pursuant to Section 373.139(3)(c) Florida Statutes, the District is required to submit a resolution to the Florida Department of Environmental Protection when requesting funds from a trust fund, including the Land Acquisition Trust Fund; and

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. It does hereby advise the Secretary of the Florida Department of Environmental Protection, in connection with the Project in St. Lucie County, of its intent to acquire and terminate the Existing Easements at a cost of \$3,862,500, together with associated costs.

Section 2. The purchase price of \$3,862,500 exceeds the \$3,725,000 appraised value based on the certified appraisal used to determine the value of the land interests to be purchased, taking into account the value of improvements, non-cash considerations, defects in title or outstanding interests. The District staff has determined that it will be cost effective and beneficial to the implementation of the Project, and in the District's best interest to avoid the risks and added expenses associated with a condemnation process, to acquire the land interests for a purchase price of \$3,862,500 or 3.7% over the approved appraised value.

Section 3. At the time of acquisition, the District Lands were reviewed for the presence of State Sovereign submerged lands and the District has taken reasonable measures to avoid paying for sovereign lands.

Section 4. This request for funds is consistent with the District's Five-Year Plan of acquisition for the South Florida Water Management District Florida Forever Work Plan, as contained in Chapter 6A, Volume II of the South Florida Environmental Report, which has been filed with the Legislature and the Florida Department of Environmental Protection, and is consistent with Sections 373.139 and 373.470, Florida Statutes, as applicable.

Section 5. Acquisition of the District Lands further the following Florida Forever goals set forth in Section 259.105(4), Florida Statutes:

- (a) Enhance the coordination and completion of land acquisition projects as measured by:
 - 3. The number of shared acquisition projects among Florida Forever funding partners and partners with other funding sources including local governments and the federal government.
- (c) Protect, restore, and maintain the quality and natural functions of land, water, and wetland systems of the state, as measured by:
 - 1. The number of acres of publicly owned land identified as needing restoration, enhancement, and management, acres undergoing restoration or enhancement, acres with restoration activities completed, and acres managed to maintain such restored or

enhanced conditions; the number of acres which represent actual or potential imperiled species habitat; the number of acres which are available pursuant to a management plan to restore, enhance, repopulate, and manage imperiled species habitat; and the number of acres of imperiled species habitat managed, restored, enhance, repopulated, or acquired;

2. The percentage of water segments that fully meet, partially meet, or do not meet their designated uses as reported in the Department of Environmental Protection's State Water Quality Assessment 305(b) Report;
4. The number of acres acquired that protect natural floodplain functions;
5. The number of acres acquired that protect surface waters of the state;

(d) Ensure that sufficient quantities of water are available to meet the current and future needs of natural systems and the citizens of the state, as measured by:

1. The number of acres acquired which provide retention and storage of surface water in naturally occurring storage areas, such as lakes and wetlands, consistent with the maintenance of water resources or water supplies and consistent with district water supply plans;
2. The quantity of water made available through the water resource development component of a district water supply plan for which a water management district is responsible.

(e) Increase natural resource-based public recreational and educational opportunities, as measured by:

1. The number of acres acquired that are available for natural resource-based public recreation or education;
2. The miles of trails that are available for public recreation, giving priority to those that provide significant connections including those that will assist in completing the Florida National Scenic Trail; and
3. The number of new resource-based recreation facilities, by type, made available on public land.

Section 6. The funds requested shall be used only for the acquisition costs and associated costs incurred during the process of acquiring the described land interests.

Section 7. The land interests being acquired and previously acquired shall be maintained in an environmentally acceptable manner.

Section 8. Should the District dispose of any or all of the interests acquired hereunder, all revenues derived therefrom will be used to acquire other lands for water management, water supply and the conservation and protection of water resources, within the boundaries of a CERP project.

Section 9. A Phase I/II environmental assessment of the District Lands has been conducted. Any environmental concerns discovered shall be remediated, as necessary, and any risks will be borne by the District.

Section 10. The lands shall be managed for multiple-use purposes, including recreational uses, where compatible with the resource values of and management objectives for such lands as set forth in Section 259.105(5), Florida Statutes.

Section 11. The Executive Director, or designee, is hereby authorized to request the release of funds for all acquisition costs, associated costs and expenses for the land interests identified in this Resolution.

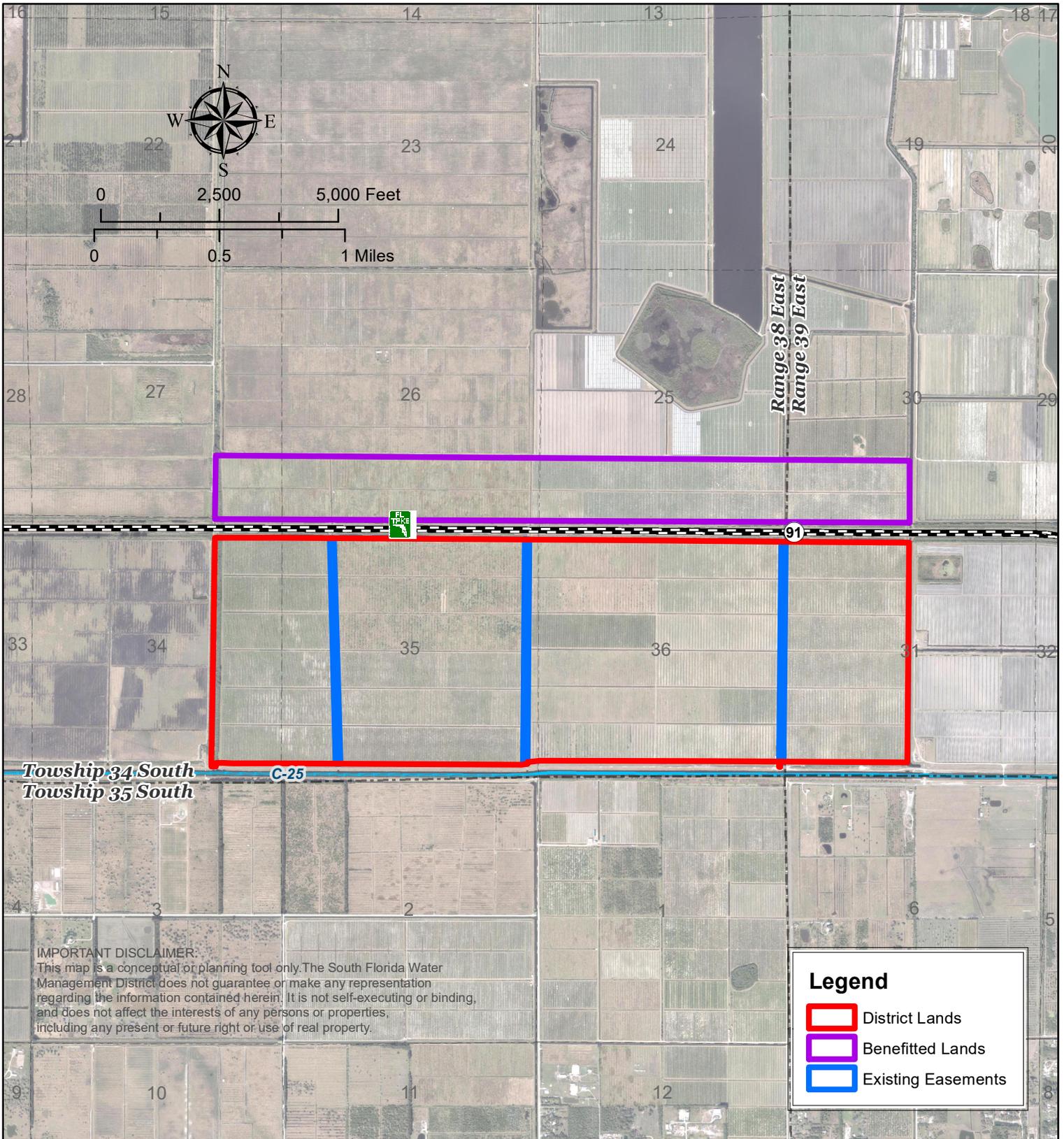
Section 12. The Resolution to approve the acquisition of these land interests was approved by the Governing Board of the District on April 11, 2024.

Section 13. The District will utilize funds from the Land Acquisition Trust Fund.

Section 14. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED on this 11th day of April, 2024.

Exhibit "A"



sfwmd.gov

C-25 RSTA - Termination of Easement Interests St. Lucie County



MEMORANDUM

TO: Governing Board Members

FROM: Ray Palmer, Real Estate

DATE: April 11, 2024

SUBJECT: Exchange Agreement with Florida Power & Light Company, C-23 Estuary Discharge Diversion Component of the Indian River Lagoon - South Project, Martin County

Agenda Item Background:

The District, together with the United States Army Corps of Engineers, is commencing the construction process for implementation of the C-23 Estuary Discharge Diversion Component of the Indian River Lagoon - South Project. The Project Component requires electrical power lines to convey power to District structures. Pursuant to an Exchange Agreement between Florida Power & Light Company (FPL) and the District, in exchange for FPL's removal of certain existing electrical power line improvements and termination of associated easement interests within the Project Component, the District will convey to FPL a new utility easement within the Project Component. The Exchange Agreement provides that for the purposes of the exchange, the value of the new utility easement is equal to the value of the terminated easement interests.

Additional Item Background:

As a part of the CERP Indian River Lagoon - South Project, the C-23 Estuary Discharge Diversion Component, located in St. Lucie County, will assist with the reduction of harmful discharges to the St. Lucie Estuary and Indian River Lagoon. The C-23 Estuary Discharge Diversion Component supports the District's core mission of ecosystem restoration and water quality improvement and will provide a connection to the District's C-23 to operate in concert with the C-44 Reservoir and Stormwater Treatment Area.

Funding Source:

As this is an even exchange, there is no purchase price to fund. The only closing costs the District will incur will be for recording the easement instrument.

Staff Contact and/or Presenter:

Ray Palmer, rpalmer@sfwmd.gov, 561-682-2246

ATTACHMENTS:

[Resolution No. 2024-0404](#)

[Map](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024-04XX

A Resolution of the Governing Board of the South Florida Water Management District approving surplus for exchange and conveyance to Florida Power & Light Company easement interests encumbering 0.10 acres, more or less, in exchange for Florida Power & Light Company terminating existing easement interests within the Indian River Lagoon - South Project, C-23 Estuary Discharge Diversion Component, located in Martin County; providing an effective date.

WHEREAS, the Indian River Lagoon - South Project, C-23 Estuary Discharge Diversion Component (“Project Component”), located in Martin County, will assist with the reduction of harmful discharges to the southern portion of the Indian River Lagoon and St. Lucie River and Estuary; and

WHEREAS, the District is currently implementing the Project Component, which includes the construction of electrical power lines to convey power to District structures; and

WHEREAS, the District is authorized to exchange lands, or interests or rights in lands, pursuant to Section 373.089, Florida Statutes; and

WHEREAS, the District desires to enter into an Agreement for Exchange of Real Property Interests (“Exchange Agreement”) whereby the District will convey easement interests containing 0.10 acres, more or less, (the “New Easement Interest”), in exchange for FPL removing certain existing electrical power line improvements and terminating any applicable easement interests of FPL (“Terminated Easement Interests”), all as shown on Exhibit “A”; and

WHEREAS, the Exchange Agreement provides that for purposes of the exchange the value of the New Easement Interest is equal to the value of the Terminated Easement Interests; and

WHEREAS, the Governing Board has determined that it is in the public interest to declare the New Easement Interest surplus; and

WHEREAS, pursuant to Section 373.089(6), Florida Statutes, the Governing Board shall be required, by at least a two-thirds majority, to make a determination that the New Easement Interest is consistent with conservation purposes.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District

hereby approves declaring surplus for exchange and conveyance to Florida Power & Light Company easement interests encumbering 0.10 acres, more or less, in exchange for Florida Power & Light Company removing certain existing electrical power line improvements and terminating any applicable easement interests of Florida Power & Light Company, as identified in the attached Exhibit "A", all within the Indian River Lagoon - South Project, C-23 Estuary Discharge Diversion Component. The value of the Terminated Easement Interests is deemed equal to the value of the New Easement Interest for purposes of the exchange.

New Easement Interest

Owner	Tract No.	Interest	Acres
South Florida Water Management District	KE10E-097	Electrical Utility Easement	0.10

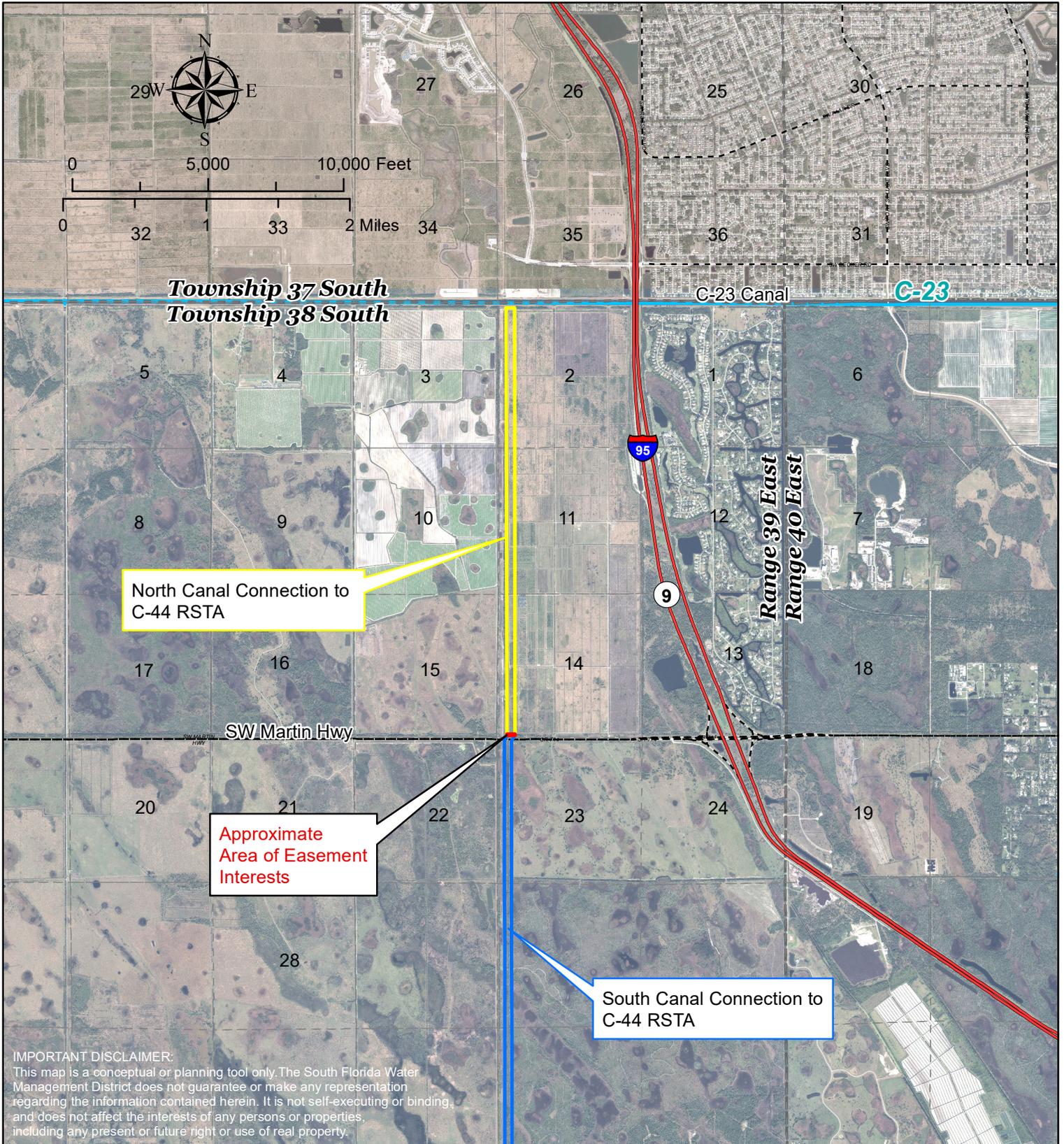
Section 2. Consistent with the requirements of Section 373.089(6), Florida Statutes, as the conveyance of the New Easement Interest supports and is needed for the implementation of the Indian River Lagoon - South Project, C-23 Estuary Discharge Diversion Component, the Governing Board hereby determines that the New Easement Interest is no longer needed for conservation purposes, and this Resolution was approved by the Governing Board by at least a two-thirds vote.

Section 3. The Governing Board hereby authorizes the Chairman or Vice Chairman to execute the Exchange Agreement and any instrument(s) of conveyance required to consummate the transaction contemplated therein. The Governing Board hereby authorizes the Executive Director or the Executive Director's designee to make any determination in connection with the transaction and execute all other documents necessary to consummate this transaction.

Section 4. This Resolution shall take effect immediately upon adoption.

PASSED and **ADOPTED** this 11th day of April, 2024.

Exhibit "A"



IMPORTANT DISCLAIMER:
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South Florida Water Management District
 3301 Gun Club Rd, West Palm Beach, FL 33406
 (561) 686-8800; www.sfwmd.gov

IRL South

C-23 Estuary Discharge Diversion Project

Martin County



BASE CREDITS:
 • Base map from South Florida Water Mgmt. District, February 2017
 • State Plane Projection, Florida East Zone, NAD 83-HARN, US feet
 • Okeechobee_2021_6IN Aerial

MEMORANDUM

TO: Governing Board Members
FROM: Ray Palmer, Real Estate
DATE: April 11, 2024
SUBJECT: Agreement Amending Deed Use Restrictions, Palm Beach County

Agenda Item Background:

The District conveyed approximately 362.84 acres of land in Palm Beach County to the Village of Wellington by virtue of a February 10, 2009, Quitclaim Deed that contained certain restrictions and covenants that limited and restricted the Village's use of the land. The Village has requested that the District agree to amend the Restrictions to allow installation of a cell tower. The District and the Village will enter into an agreement whereby the Village will be allowed to construct and install a cell tower and accessory improvements within an area containing 0.35 acres, more or less.

Additional Item Background:

The restrictions limit the use of the land to operations and maintenance of an impoundment area, a pump station, and related features all as part of the Acme Basin B Discharge Project. Allowing the 0.35 acre area within which the cell tower will be installed is located in an isolated corner of the land and will not adversely affect the purposes of the restrictions with respect to the remainder of the land.

Funding Source:

There is no purchase price to fund, and the District will not be responsible for closing or recording costs.

Staff Contact and/or Presenter:

Ray Palmer, rpalmer@sfwmd.gov, 561-682-2246

ATTACHMENTS:

[Resolution No. 2024-0405](#)

[Map](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024-04XX

A Resolution of the Governing Board of the South Florida Water Management District approving an agreement with the Village of Wellington amending use restrictions to allow installation of a cell tower within a 0.35 acre, more or less, area of land in Palm Beach County previously conveyed to the Village by the District; providing an effective date.

WHEREAS, by virtue of a February 10, 2009, Quitclaim Deed (the “Deed”), the District quitclaimed to the Village of Wellington (“Village”) approximately 362.84 acres in Palm Beach County (the “Premises”); and

WHEREAS, the Deed contains certain restrictions and covenants that limit and restrict the Village’s use of the Premises (the “Restrictions”); and

WHEREAS, the Village has requested that the District agree to amend the Restrictions to allow installation of a cell tower within an area of the Premises containing 0.35 acre, more or less; and

WHEREAS, the Governing Board, pursuant to Section 373.056, Florida Statutes, is authorized to convey to any governmental entity, land or rights in land owned by the District under terms and conditions determined by the Governing Board.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby approves an agreement amending the Restrictions contained in the Deed to allow the Village to construct and install a cell tower and accessory improvements within 0.35 acre, more or less, of the Premises, as shown in the attached Exhibit “A”.

Section 2. The Governing Board hereby authorizes the Chairman or Vice Chairman to execute the agreement.

Section 3. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 11th day of April, 2024.

Exhibit "A"



IMPORTANT DISCLAIMER:
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South Florida Water Management District
 3301 Gun Club Rd, West Palm Beach, FL 33406
 (561) 686-8800; www.sfwmd.gov

Agreement Amending Use Restrictions Village of Wellington

BASE CREDITS:
 • Base map from South Florida Water Mgmt. District, February 20th
 • State Plane Projection, Florida East Zone, NAD 83-HARN, US fe
 • PB 2021 6IN 1FT Aerial



MEMORANDUM

TO: Governing Board Members
FROM: Ray Palmer, Real Estate
DATE: April 11, 2024
SUBJECT: Release of Reservations

Agenda Item Background:

The District has certain reserved rights to construct canal right of ways. Applications requesting release of these reservations are received as they constitute a defect on title which must be resolved prior to a property sale, especially when financing is involved. Applications are reviewed to determine if there is a present or future need for the reservations. Applications are routed to local governments and water control districts to ascertain their potential need for the reservation. If it has been determined there is no present or future need, staff concluded that the reservations may be released for payment of a value equal to three percent (3%) of the appraised value of the land on the Property Appraiser's website in the County where the property is located.

The District is also required to review canal reservations held by the Board of Trustees of the Internal Improvement Trust Fund and advise the Florida Department of Environmental Protection whether the canal reservations should be released or if there is a present or future need by the District or a local county, city or drainage district.

It has been determined that there is no present or apparent future need for the reservations listed below, therefore staff asks the Board to consider approval of the following:

Broward County

- Recommend approval of release of TIITF canal reservations for Humbold 18, LLC, a Florida limited liability company (File No. 18933-A) for 18.27 acres; release value N/A (TIITF canal reservations)
- Recommend approval of release of TIITF canal reservations for 3633 Pine Island, LLC, a Florida limited liability company (File No. 18933-B) for 2.99 acres; release value N/A (TIITF canal reservations)
- Release District canal reservations for Elster/Rocatica, LLC, a Florida limited liability company (File No. 18946) for 4.50 +/- acres; subject to payment of release value of \$102,750.00

Palm Beach County

- Release District canal reservations for Delray Logistics Park Owner, LLC, a Delaware limited liability company (File No. 18943) for 9.36 +/- acres; subject to payment of release value of \$44,859.00

Additional Item Background:

See Memorandum Exhibit "A" and maps attached hereto and made a part hereof, which contains the details and location of the releases to be issued.

Pursuant to Section 373.096 of the Florida Statutes, the Governing Board of the District may release any reservation for which it has no present or apparent use under terms and conditions determined by the Board.

Staff Contact and/or Presenter:

Ray Palmer, rpalmer@sfwmd.gov, 561-682-2246

ATTACHMENTS:

[Memorandum Exhibit A](#)

[A. Resolution No. 2024-0406](#)

[B. Resolution No. 2024-0407](#)

[Maps](#)

MEMORANDUM – EXHIBIT “A”

Broward County

File No.: 18933-A
Applicant: Humboldt 18, LLC, a Florida limited liability company
Reserving Deed: T-16296D (Deed Book 8, page 69, dated 4/17/1918)
Application Fee: \$250.00
Release Value: N/A; TIITF canal reservations
Action: Recommend release of TIITF canal reservations
Acres: 18.27 acres, more or less
Legal Description: Parcel A, FRUSCIANS TRACT, PB 175-55, together with a portion of 10-foot-wide strip in Southeast one-quarter (SE ¼), CHAMBERS LAND COMPANY SUBDIVISION, PB 1-5A, Section 20, Township 49 South, Range 41 East
Location: 3100 NW 90th Terrace, Sunrise, Broward County
Reviewed By: Field Operations Division; Water Supply Development Section; Real Estate Bureau; Right of Way Section; Environmental Resource Permitting Bureau; Ecosystem Restoration Division; Engineering, Construction and Modeling Division; District Resiliency, and Broward Water Control District

File No.: 18933-B
Applicant: 3633 Pine Island, LLC, a Florida limited liability company
Reserving Deed: T-16296 (Deed Book 8, page 69, dated 4/17/1918)
Application Fee Paid: \$250.00
Release Value: N/A; TIITF canal reservations
Action: Recommend release of TIITF canal reservations
Acres: 2.99 acres, more or less
Legal Description: Parcel A, SUNRISE ICE CHALET, PB 97-21, Section 20, Township 49 South, Range 41 East
Location: 3363 North Pine Island Road, Sunrise, Broward County
Reviewed By: Field Operations Division; Water Supply Development Section; Real Estate Bureau; Right of Way Section; Environmental Resource Permitting Bureau; Ecosystem Restoration Division; Engineering, Construction and Modeling Division; District Resiliency, and Broward Water Control District

File No.: 18946
Applicant: Elster/Rocatica, LLC, a Florida limited liability company
Reserving Deed: E-5639 (Deed Book 553, page 472, dated 9/5/1946)
Application Fee Paid: \$250.00
Release Value: \$102,750.00 (unpaid)
Action: Release District canal reservations, subject to payment of \$102,750.00 for release of District real property interests
Acres: 4.50 acres, more or less
Legal Description: Portion of Tract 56, Block 89, PALM BEACH FARMS CO. PLAT NO. 3, PB 2P-45, Section 18, Township 48 South, Range 42 East
Location: Vacant land West of Lyons Road and North of Sample Road, Coconut Creek, Broward County
Reviewed By: Field Operations Division; Water Supply Development Section; Real Estate Bureau; Right of Way Section; Environmental Resource Permitting Bureau; Ecosystem Restoration Division; Engineering, Construction and Modeling Division; District Resiliency, and Cocomar Water Control District

Palm Beach County

File No.: 18943
Applicant: Delray Logistics Park Owner, LLC, a Delaware limited liability company
Reserving Deeds: T-3826 (Deed Book 379, page 532, dated 6/14/1926) and T-4385 (Deed Book 357, page 516, dated 4/14/1926)
Application Fee Paid: \$250.00
Release Value: \$44,859.00 (unpaid)
Action: Release District canal reservations, subject to payment of \$44,859.00 for release of District real property interests
Acres: 9.36 acres, more or less
Legal Description: Portion of Tracts 14 and 15, PALM BEACH FARMS CO. PLAT NO. 1, PB 2-26, Section 18, Township 46 South, Range 42 East
Location: 9863 Happy Hollow Road, Delray Beach, Palm Beach County
Reviewed By: Field Operations Division; Water Supply Development Section; Right of Way Section; Real Estate Bureau; Environmental Resource Permitting Bureau; Ecosystem Restoration Division; Engineering, Construction and Modeling Division; District Resiliency, and Lake Worth Drainage District

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024-04XX

A Resolution of the Governing Board of the South Florida Water Management District to approve recommending release of canal reservations held by the Board of Trustees of the Internal Improvement Trust Fund; providing an effective date.

WHEREAS, the applicants have requested that the South Florida Water Management District advise the Florida Department of Environmental Protection (DEP) on the release of certain canal reservations held by the Board of Trustees of the Internal Improvement Trust Fund (TIITF) in Broward County; and

WHEREAS, the District is empowered to grant such recommendations pursuant to the delegation of TIITF by Florida Administrative Code 18-2.018(3)(e)3., amended March 2, 2016, to the District.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby approves recommending release of TIITF canal reservations to DEP, as described in Resolution Exhibit "A" attached hereto and made a part hereof.

Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 11th day of April, 2024.

RESOLUTION – EXHIBIT “A”

Broward County

File No.: 18933-A
Applicant: Humbold 18, LLC, a Florida limited liability company
Reserving Deed: T-16296D (Deed Book 8, page 69, dated 4/17/1918)
Release Value: N/A; TIITF canal reservations
Action: Recommend release of TIITF canal reservations
Acres: 18.27 acres, more or less
Legal Description: Parcel A, FRUSCIANS TRACT, PB 175-55; together with a portion of 10-foot-wide strip in Southeast one-quarter (SE ¼), CHAMBERS LAND COMPANY SUBDIVISION, PB 1-5A, Section 20, Township 49 South, Range 41 East
Location: 3100 NW 90th Terrace, Sunrise, Broward County

File No.: 18933-B
Applicant: 3633 Pine Island, LLC, a Florida limited liability company
Reserving Deed: T-16296D (Deed Book 8, page 69, dated 4/17/1918)
Application Fee Paid: \$250.00
Release Value: N/A; TIITF canal reservations
Action: Recommend release of TIITF canal reservations
Acres: 2.99 acres, more or less
Legal Description: Parcel A, SUNRISE ICE CHALET, PB 97-21, Section 20, Township 49 South, Range 41 East
Location: 3363 North Pine Island Road, Sunrise, Broward County

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 – XXXX

A Resolution of the Governing Board of the South Florida Water Management District to release District canal reservations; providing an effective date.

WHEREAS, the applicants have requested that the South Florida Water Management District release certain District canal reservations; and

WHEREAS, the District is empowered to grant such releases pursuant to Section 373.096, Florida Statutes.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby approves the release of District canal reservations, as described in Resolution Exhibit “A” attached hereto and made a part hereof.

Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 11th day of April, 2024.

RESOLUTION – EXHIBIT “A”

Broward County

File No.: 18946
Applicant: Elster/Rocatica, LLC, a Florida limited liability company
Reserving Deed: E-5639 (Deed Book 553, page 472, dated 9/5/1946)
Release Value: \$102,750.00 (unpaid)
Action: Release District canal reservations, subject to payment of \$102,750.00 for release of District real property interests
Acres: 4.50 acres, more or less
Legal Description: Portion of Tract 56, Block 89, PALM BEACH FARMS CO. PLAT NO. 3, PB 2P-45, Section 18, Township 48 South, Range 42 East
Location: Vacant land West of Lyons Road and North of Sample Road, Coconut Creek, Broward County

Palm Beach County

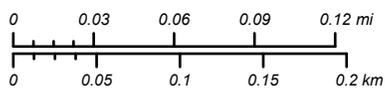
File No.: 18943
Applicant: Delray Logistics Park Owner, LLC, a Delaware limited liability company
Reserving Deeds: T-3826 (Deed Book 379, page 532, dated 6/14/1926) and T-4385 (Deed Book 357, page 516, dated 4/14/1926)
Release Value: \$44,859.00 (unpaid)
Action: Release District canal reservations, subject to payment of \$44,859.00 for release of District real property interests
Acres: 9.36 acres, more or less
Legal Description: Portion of Tracts 14 and 15, PALM BEACH FARMS CO. PLAT NO. 1, PB 2-26, Section 18, Township 46 South, Range 42 East
Location: 9863 Happy Hollow Road, Delray Beach, Palm Beach County



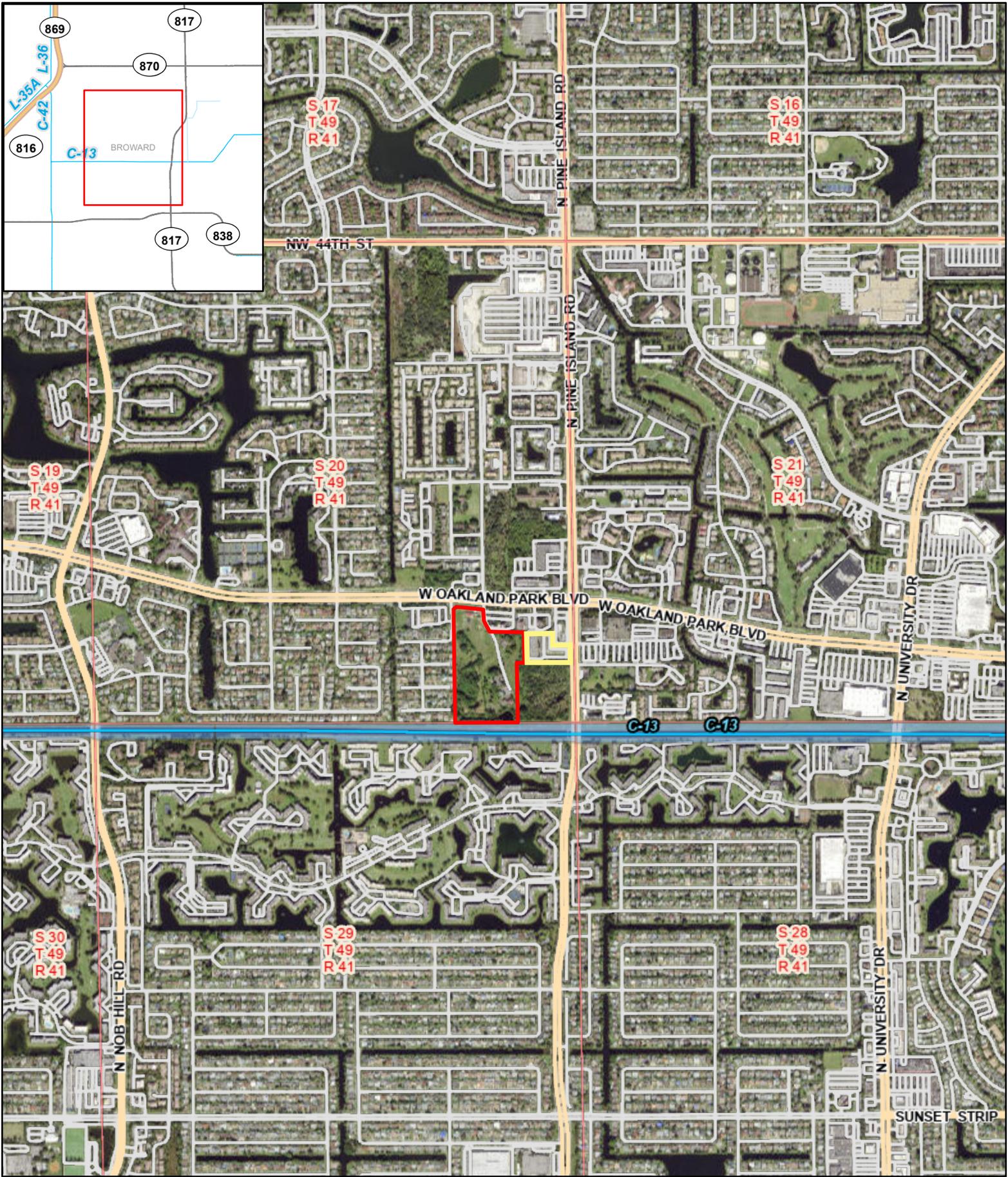
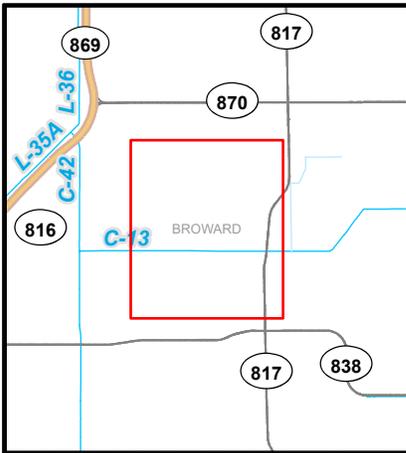
18933-A (18.27 acres)



South Florida Water Management District
 3301 Gun Club Road, West Palm Beach, Florida 33406
 561-686-8800; www.sfwmd.gov



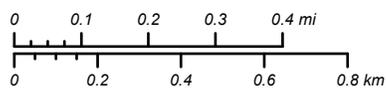
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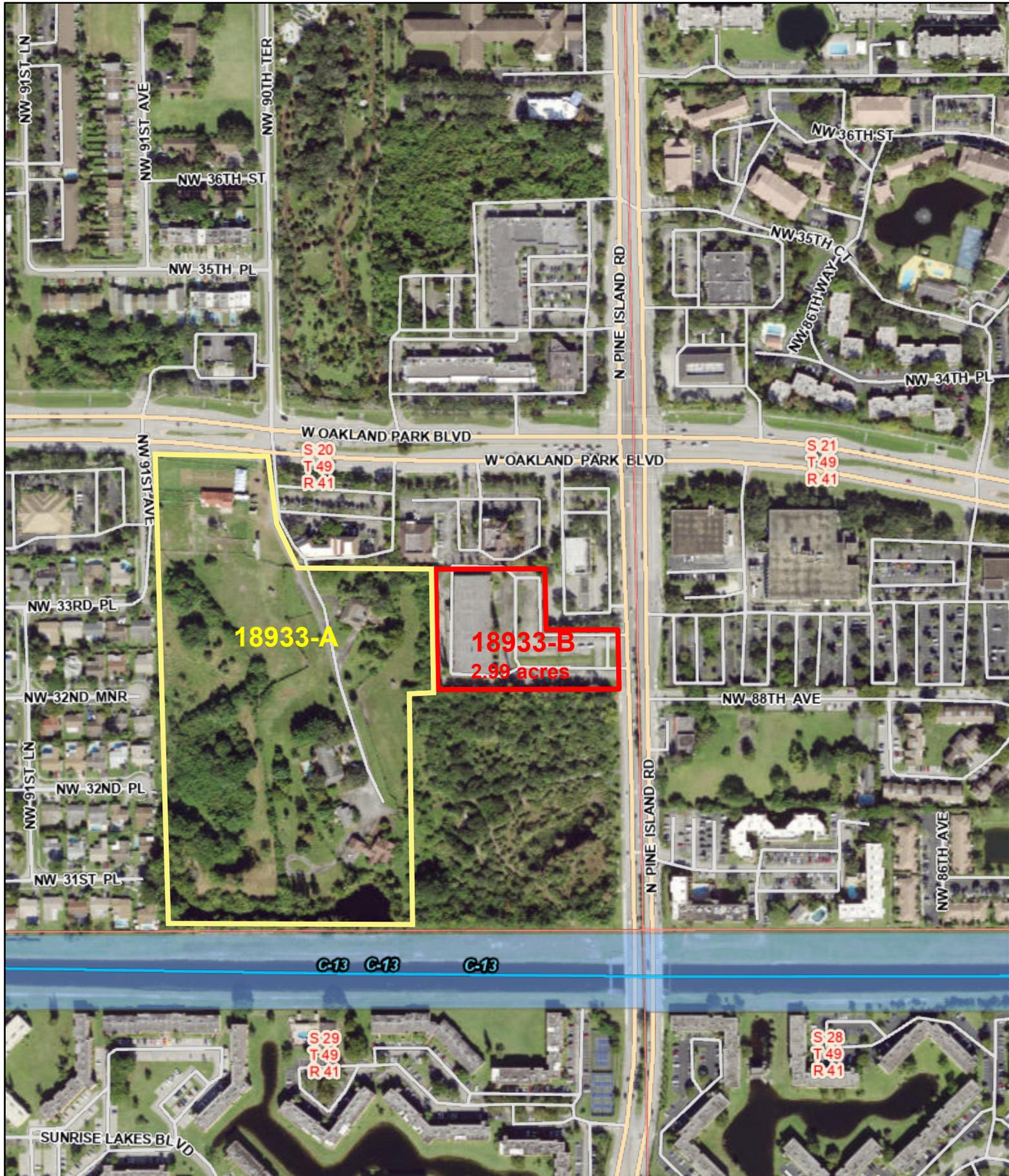
18933-A (18.27 acres)



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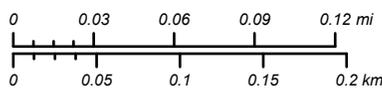
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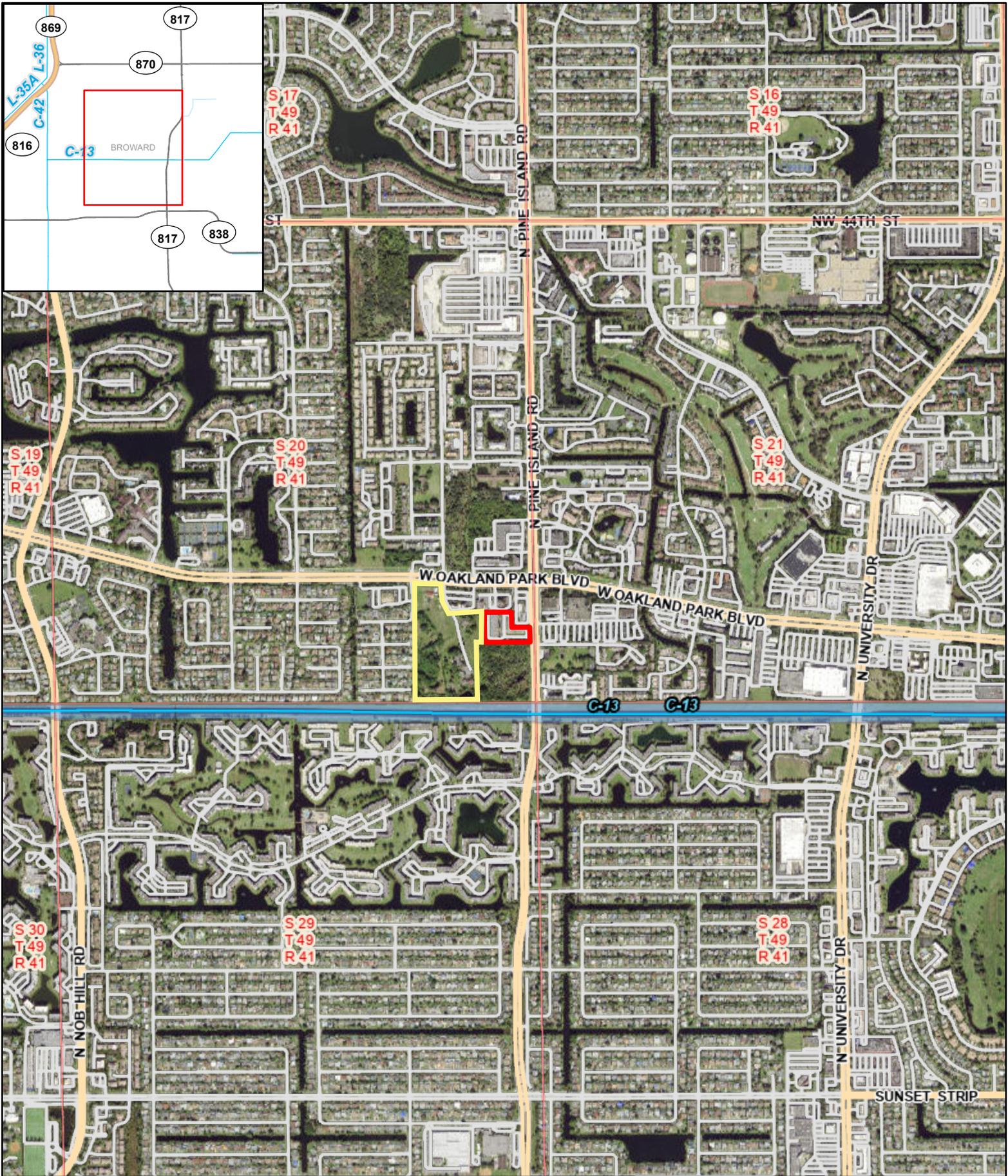
18933-B (2.99 acres)



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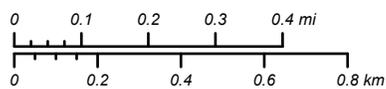


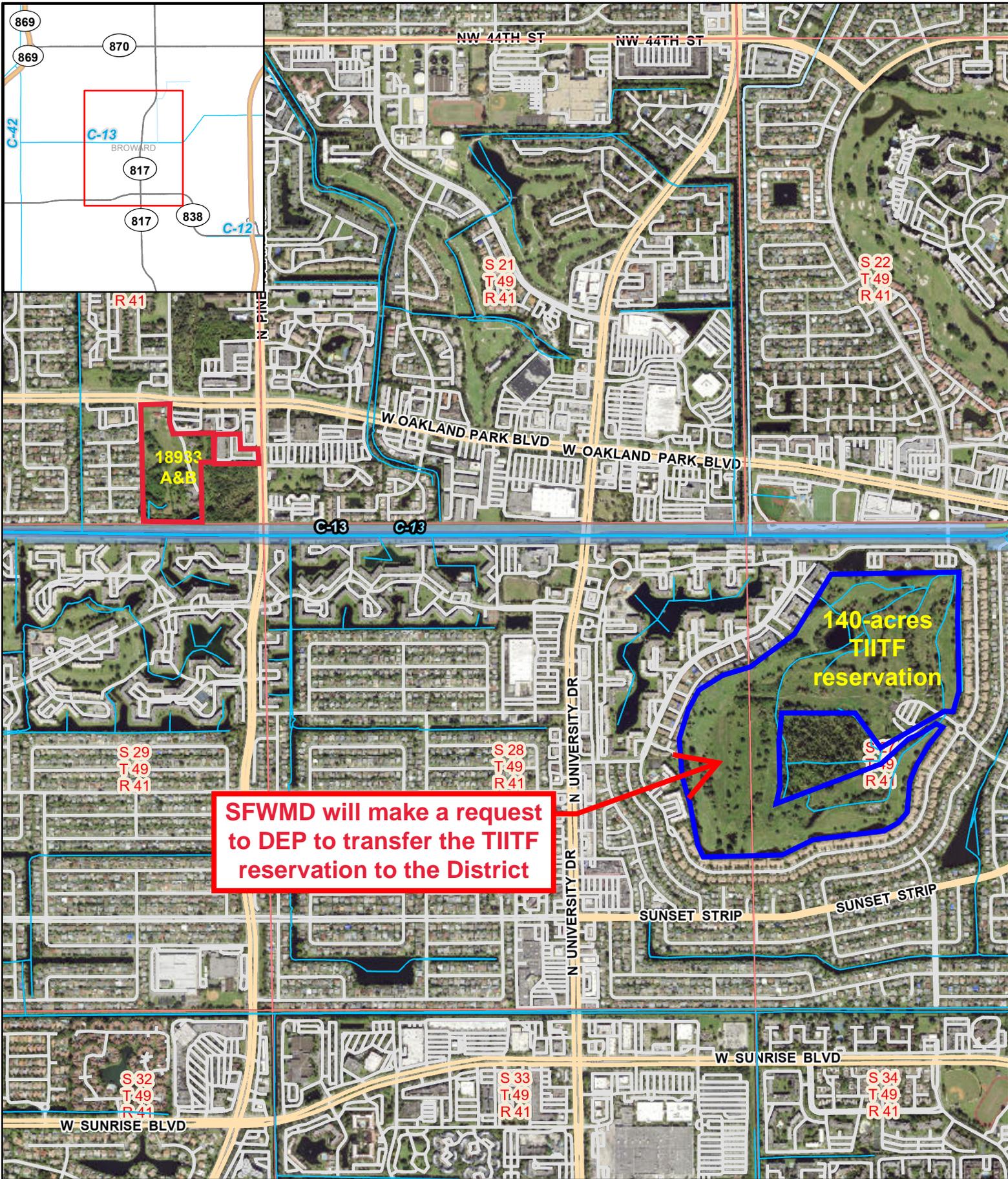
18933-B (2.99 acres)

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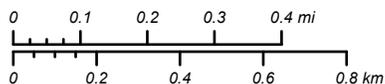


SFWMD will make a request to DEP to transfer the TIITF reservation to the District

18933-A & B (21.26 acres total)



South Florida Water Management District
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Closest District canals
C08 Canal: 3.5 miles north
C16 Canal: 3.25 miles south

**S 18
T 48
R 42**

**4.5 acres
Release area**

**6.85 acres
Whole Parcel**

LYONS RD

RIVIERA POINTE

LYONS RD

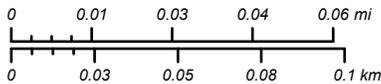
CORAL TREE CIR

CWCD CANAL

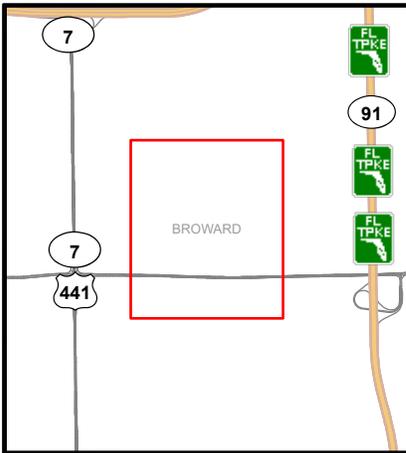
18946 (4.50 acres)



South Florida Water Management District
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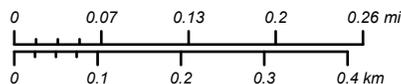


Closest District Canals
C08 Canal 3.5 miles north
C16 Canal 3.25 miles south

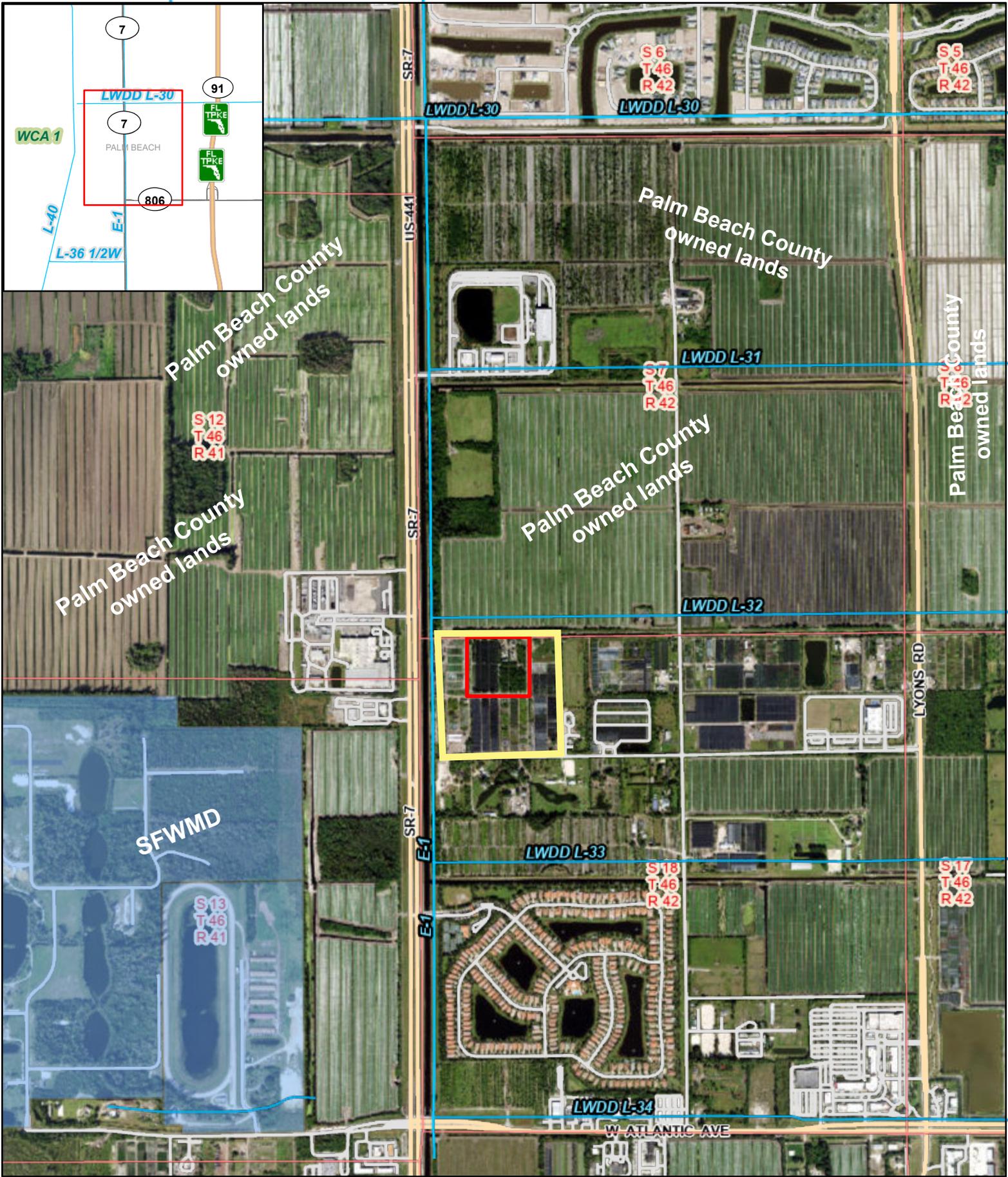
18946 (4.50 acres)



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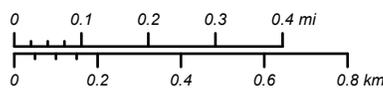
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18943 (9.36 acres)



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MEMORANDUM

TO: Governing Board Members

FROM: Lucine Dadrian, P.E., Engineering, Construction & Modeling

DATE: April 11, 2024

SUBJECT: C-23 Estuary Discharge Diversion Change Order No. 2, Martin County

Agenda Item Background:

As part of the Comprehensive Everglades Restoration Plan - Indian River Lagoon South program, the C-23 Estuary Discharge Diversion Project located in Martin County will include the construction of approximately 6.85-miles of canal, a 250 cubic feet per second Pump Station located on the C-23 Canal, two culvert crossings beneath County Road 714 Martin Highway and Coca Cola Road, a Stormwater Treatment Area (STA) access service bridge, and a discharge spillway into the C-44 Reservoir Western Perimeter Canal. This project will assist with the reduction of harmful discharges to the St. Lucie Estuary by routing excess water from the C-23 Canal away from the South Fork of the St. Lucie River to the C-44 Reservoir and STA.

The C-23 Estuary Discharge Diversion Project is also identified as a predecessor to the Central Everglades Planning Project (CEPP). As referenced in the CEPP Project Implementation Report, this project will help replenish Lake Okeechobee via the C-44 Canal by replacing water that has been transferred from Lake Okeechobee to Water Conservation Area 3A.

On November 14, 2022, the Governing Board awarded the C-23 Estuary Discharge Diversion project to Harry Pepper and Associates, Inc. (Contract No. 4600004680) in the amount of \$46,227,152.00. Change Order No. 2 scope includes installation of 30-in diameter storm drainage pipe for monitoring well access, removal of an existing cattle fence located within the project easement and construction of three miles of new cattle fence and a 12-ft wide access road outside of the District's easement from County Road 714 to Coco Cola Road. Also included is the relocation four existing access gates and associated drainage pipes at four canal crossings, removal of two existing culverts, generator upgrade from 36 kW to 45 kW, and relocation of the seepage collection canal 10-ft west and a material change of drainpipe. Change Order No. 2 is \$803,518.12 for a total contract value of \$47,625,394.42.

Additional Item Background:

Core Mission and Strategic Priorities:

This project supports the core mission of ecosystem restoration by providing environmental benefits to the St. Lucie Estuary.

Funding Source:

Dedicated funds (Land Acquisition Trust Fund) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024.

Staff Contact and/or Presenter:

Lucine Dadrian, P.E., ldadrian@sfwmd.gov, 561-682-2685

ATTACHMENTS:

[Resolution No. 2024-0408](#)

[Location Map](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - 04XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize Change Order No. 2 with Harry Pepper and Associates, Inc., in the amount of \$803,518.12 for which dedicated funds (Land Acquisition Trust Fund) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024; providing an effective date. (Contract No. 4600004680-CO2)

WHEREAS, the Governing Board of the South Florida Water Management District entered into a 848-day contract with Harry Pepper and Associates, Inc., the lowest responsive and responsible bidder in the amount of \$46,227,152 on November 14, 2022; and,

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to authorize Change Order No. 2 to Contract No. 4600004680 with Harry Pepper and Associates, Inc., in the amount of \$803,518.12.

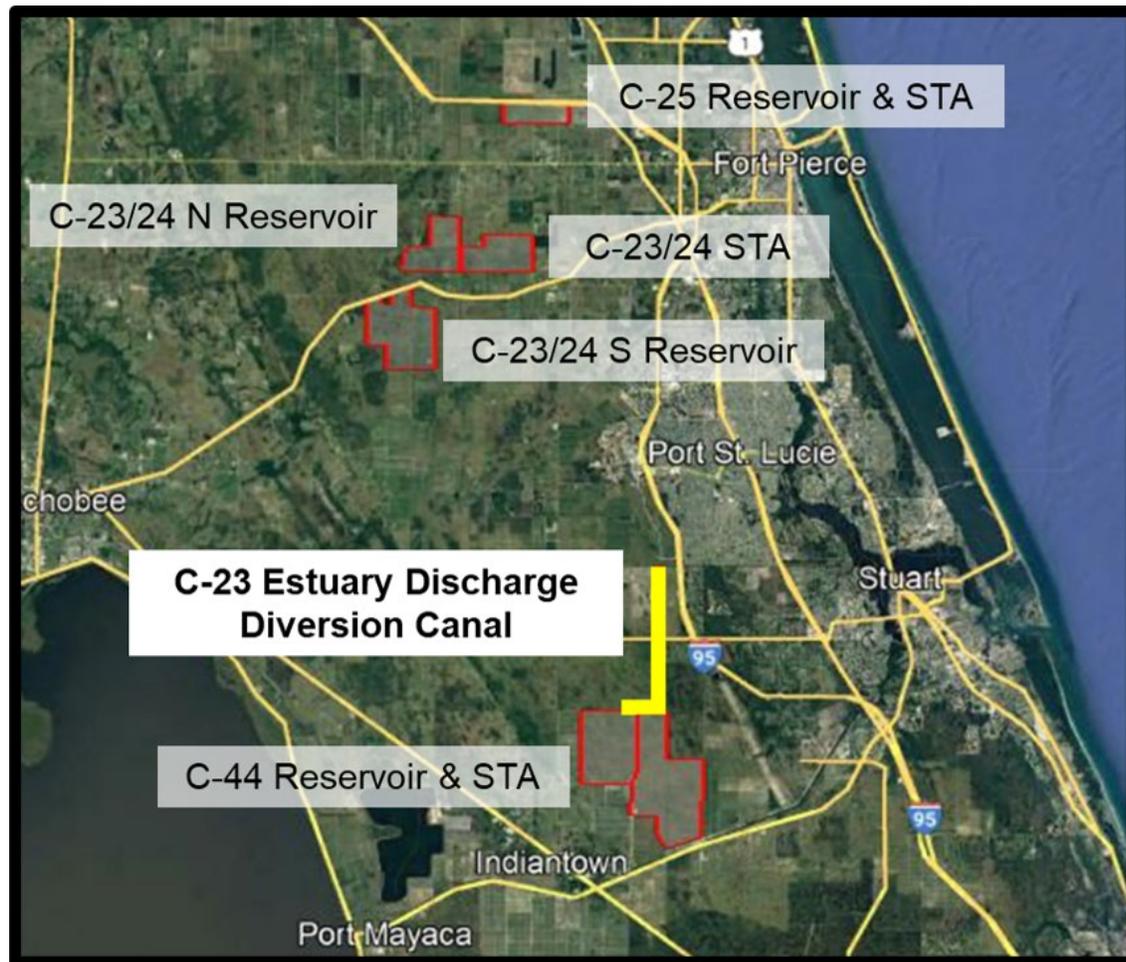
NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes a Change Order No. 2 with Harry Pepper and Associates, Inc., in the amount of \$803,518.12 for which dedicated funds (Land Acquisition Trust Fund) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024. (Contract No. 4600004680-CO2)

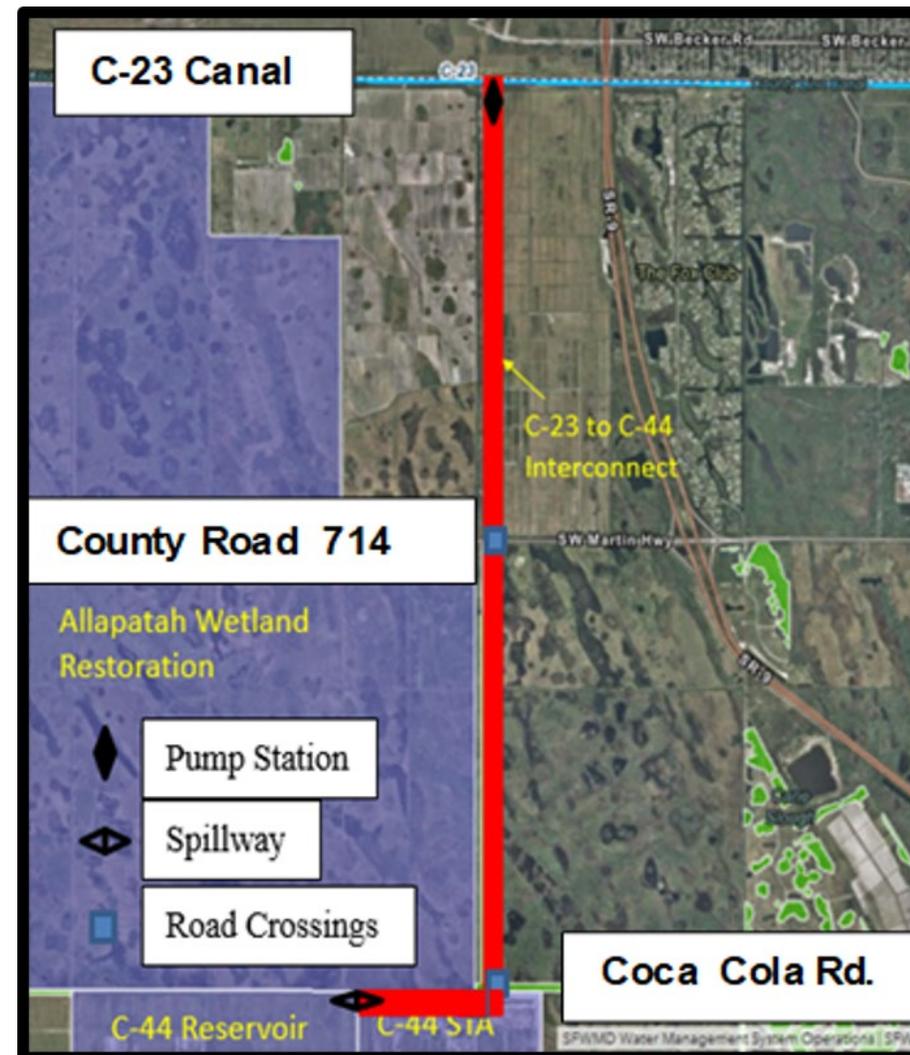
Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 11th day of April 2024.

Location Map



Palm City, Martin County



MEMORANDUM

TO: Governing Board Members

FROM: Lucine Dadrian, P.E., Engineering, Construction & Modeling

DATE: April 11, 2024

SUBJECT: Design/Build of the Clewiston Field Station Building Relocation Project
Amendment No. 6, Phase Two Services, IT Facility and Microwave Tower
Construction, Hendry County

Agenda Item Background:

As part of the Operations and Maintenance Capital Improvement Program, the Clewiston Field Station Relocation, located in Hendry County, consists of the design and construction of a new and expanded Clewiston Field Station. The new facility will be located on District land located in Hendry County. The existing Field Station has reached the end of its useful life and requires replacement with facilities that meet current code requirements and facility needs.

The new facility will also consolidate and centrally locate the works and services provided in support of the District's mission for existing infrastructure operations as well as support new infrastructure that are in design and construction in the CERP, CEPP, Northern Everglades and Estuaries Protection Program, and Restoration Strategies programs. They include critical projects such as the C-43 Caloosahatchee Reservoir, A2 STA and Reservoir, Boma Flow Equalization Basin (FEB), Lake Hicpochee FEB Phase 1 and 2, C-139 FEB, and CEPP North Features.

The District is using the Progressive Design/Build procurement method to work in collaboration with the contractor from the conceptual phase through construction phase. The current Contract provides for the Design/Builder to deliver the Phase One Services Technical Exhibits for the Field Station site work, administration and fleet maintenance buildings, and features through Final Design (90%), and the Information Technology building and Microwave Tower through Corrected Final Design (100%). Amendment No. 6 advances the Information Technology building and Microwave Tower under the Phase Two Services to provide construction of a fully functioning Microwave Tower in advance of the Field Station project.

Additional Item Background:

Core Mission and Strategic Priorities:

The project supports the District's missions of ecosystem restoration, water supply and flood control.

Funding Source:

Dedicated funds (Land Acquisition Trust Fund) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024.

Staff Contact and/or Presenter:

Lucine Dadrian, P.E., ldadrian@sfwmd.gov, 561-682-2685

ATTACHMENTS:

Resolution No. 2024-0409

Location Map

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - 04XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize an amendment to the Design Build contract with State Contracting and Engineering Corporation, for the Phase Two Services for the construction of the Clewiston Field Station IT Facility and Microwave Tower for 467 days in an amount not-to-exceed \$6,068,741.00 in dedicated funds (Land Acquisition Trust Fund) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024; providing an effective date. (Contract No. 4600004535-A06).

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate and in the public interest to amend the contract with State Contracting and Engineering Corporation authorizing Phase Two Services for the construction of the Clewiston Field Station IT Facility and Microwave Tower.

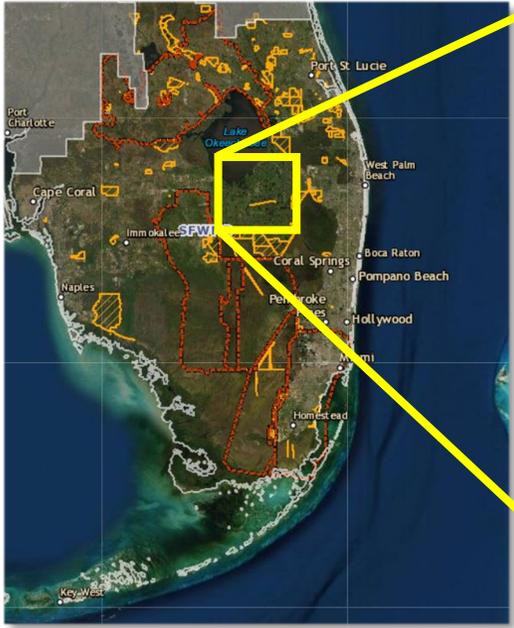
NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes the contract amendment with State Contracting and Engineering Corporation, for the Phase Two Services for the Design/Build of the Clewiston Field Station Building Relocation project, in the amount of not-to-exceed \$ 6,068,741.00, for which \$ 6,068,741.00 in dedicated funds (Land Acquisition Trust Fund) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024. (Contract No. 4600004535-A06).

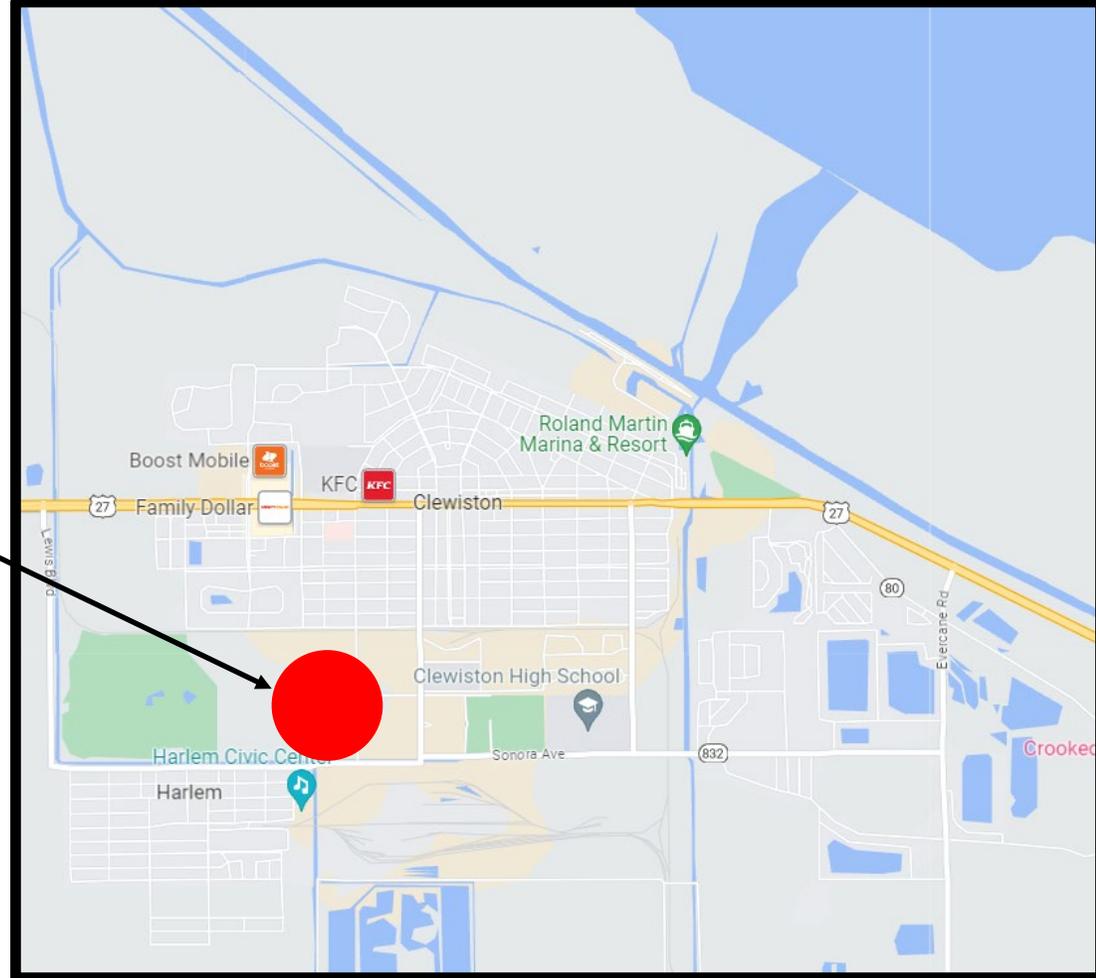
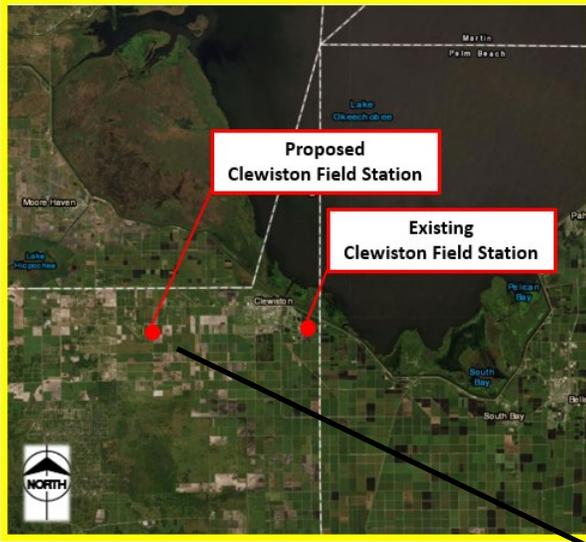
Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 11th day of April, 2024.

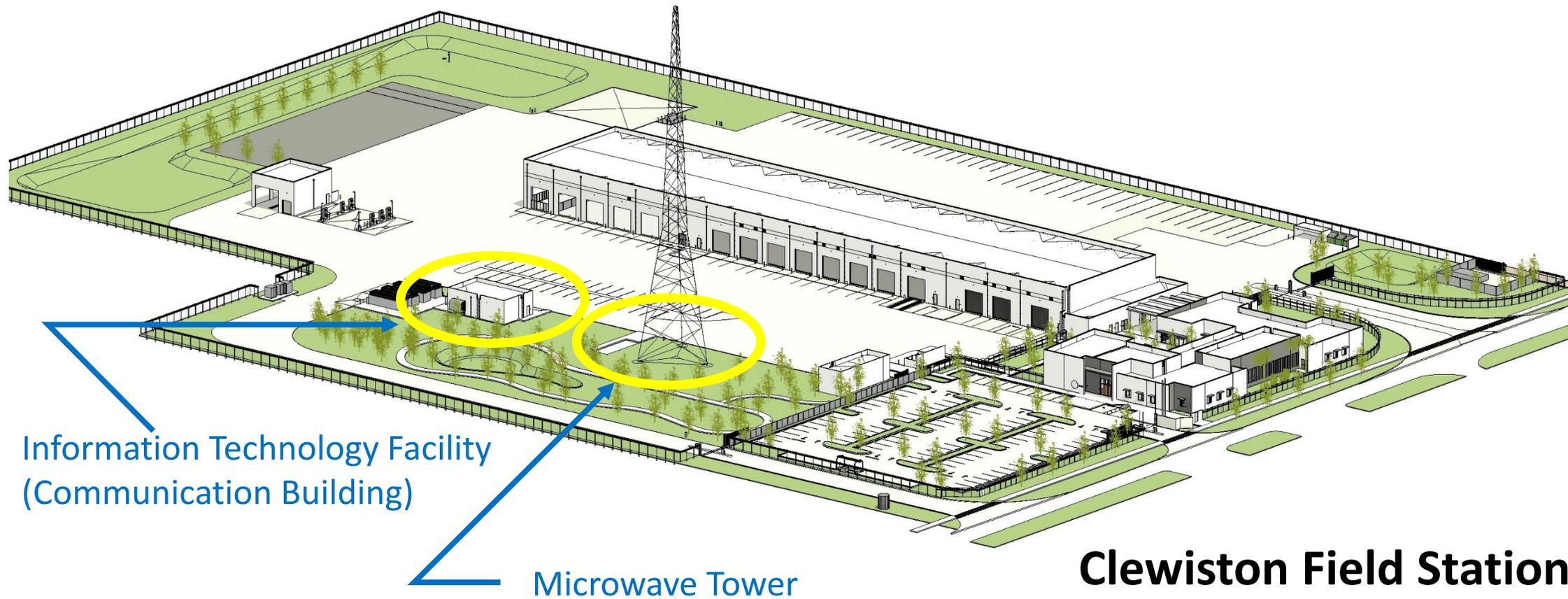
Existing and Proposed New Clewiston Field Station Locations



Hendry County, Florida



Clewiston Field Station Building Relocation Project Phase 2 – Microwave Tower & IT Facility Construction



Clewiston Field Station
Site Plan

MEMORANDUM

TO: Governing Board Members

FROM: Lucine Dadrian, P.E., Engineering, Construction & Modeling

DATE: April 11, 2024

SUBJECT: C-23/24 South Reservoir Project, Package 1, St. Lucie County

Agenda Item Background:

As part of the Comprehensive Everglades Restoration Plan - Indian River Lagoon South (IRL-S), the C-23/24 South Reservoir Package 1 Project, located in St. Lucie County, will include the excavation, widening and hardening of approximately 5.0-miles of the C-23 Canal, replacement of the G-78 water control structure with a new gated water control structure S-456, and replacement of various project culverts within the limits of construction. This first package will support water deliveries to the C-23/24 South Reservoir, which will encompass more than 3,500 acres and store approximately 57,000 acre-feet of water.

The project along with the other components of IRL-S will improve the estuarine health of the St. Lucie River, St. Lucie Estuary, and the southern Indian River Lagoon. This will be accomplished by reducing the frequency and duration of damaging discharges to the receiving water bodies and the retention of watershed flows in the natural system.

The lowest responsive and responsible bidder is recommended for award. In accordance with District policy and consistent with state law for Request for Bids (RFB) procurements, this item was competitively bid through a sealed bid process. The bid opening for this project was on April 4, 2024.

Additional Item Background:

Core Mission and Strategic Priorities:

This project supports the core mission of ecosystem restoration by providing environmental benefits to the St. Lucie Estuary.

Funding Source:

Dedicated funds (Land Acquisition Trust Fund) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets.

Staff Contact and/or Presenter:

Lucine Dadrian, P.E., ldadrian@sfwmd.gov, 561-682-2685

ATTACHMENTS:

[Resolution No. 2024-0410](#)

[Location Map](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - 0410

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into a 540-day contract with Phillips & Jordan, Inc., the lowest responsive and responsible bidder, for the C-23/24 South Reservoir Project Package 1, in the amount of \$59,431,000.00, for which \$20,000,000.00 in dedicated funds (Land Acquisition Trust Fund) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets, providing an effective date. (Contract No. 4600004965)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to enter into a 540-day contract with Phillips & Jordan, Inc., for the C-23/24 South Reservoir Project Package 1, in the amount of \$59,431,000.00.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes entering into a contract with Phillips & Jordan, Inc. for the C-23/24 South Reservoir Project Package 1, in the amount of \$59,431,000.00 for which \$20,000,000.00 in dedicated funds (Land Acquisition Trust Fund) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004965)

Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and **ADOPTED** this 11th day of April, 2024.

SOUTH FLORIDA WATER MANAGEMENT
DISTRICT, BY ITS GOVERNING BOARD
By:

Chauncey P. Goss, II
Chairman

Attest:

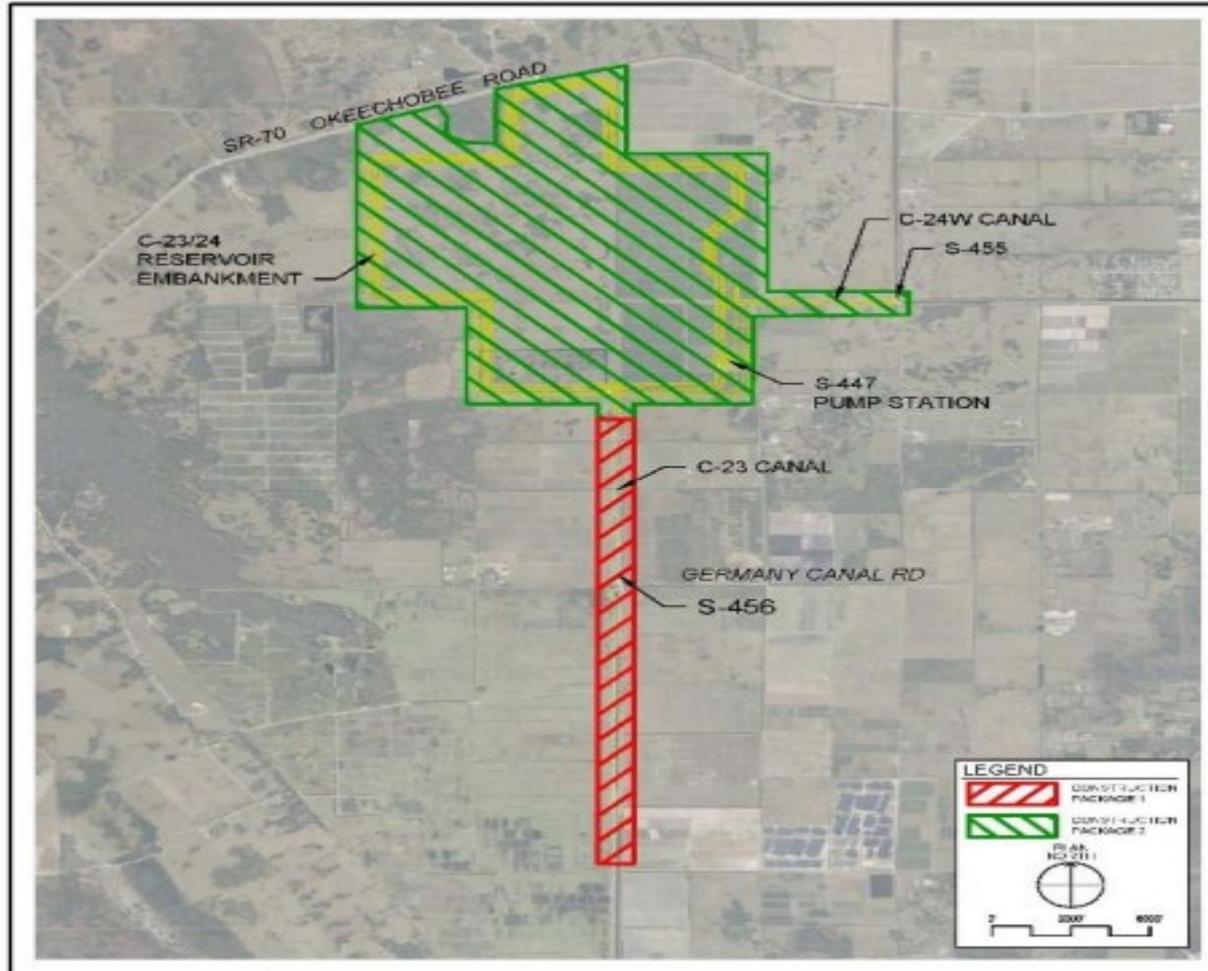
Legal form approved:
By:

District Clerk/Secretary

Office of Counsel

Print name:

Location



St. Lucie County

MEMORANDUM

TO: Governing Board Members

FROM: Lucine Dadrian, P.E., Engineering, Construction & Modeling

DATE: April 11, 2024

SUBJECT: S-9 and S-9A Trash Rake and Pump Station Refurbishments Project Change Order No. 7, Broward County

Agenda Item Background:

As part of the Operations and Maintenance Capital Program, the S-9 and S-9A Trash Rake and Pump Station Refurbishments Project, located in Broward County, consists of a new trash rake bridge and rake system, new generator building, fuel system upgrades, refurbishment of main pump #3 and miscellaneous site and building upgrades and repairs. The upgrades are needed to maintain the pump station's operating efficiency and reliability by replacing or refurbishing equipment that is near its end-of-life cycle. The S-9 and S-9A pump stations were originally constructed in 1956 and 2002, respectively.

On November 10, 2021, the Governing Board awarded the S-9 and S-9A Trash Rake and Pump Station Refurbishments Project contract to Harry Pepper & Associates in the amount of \$27,492,651 (Contract No. 4600004514). Change Order No. 7 includes the investigation and assessment of Pump No. 1 shaft, bearings, shaft sleeves and bearing housings to determine their current condition, three 2-piece pump shafts and associated hardware, S-9A flap gates and discharge pipes replacement, and re-routing of the fuel overflow pipe around the generator building for a total of \$3,305,510.94 and a total contract value of \$31,538,038.01.

The pump shafts have been in use since 1956 and show significant corrosion and wear requiring replacement to prevent pump station failure. The flap gates and discharge pipes at S-9A have significant corrosion and replacement is recommended. The fuel overflow pipe at the new generator building requires re-routing due to conflicts with the electrical panels.

Additional Item Background:

Core Mission and Strategic Priorities:

The S-9 and S-9A Trash Rake and Pump Station Refurbishments Project supports the core missions of flood control, water supply, and ecosystem restorations.

Funding Source:

Funded with dedicated funds (State Appropriations) and Ad Valorem funds.

Staff Contact and/or Presenter:

Lucine Dadrian, P.E., ldadrian@sfwmd.gov, 561-682-2685

ATTACHMENTS:

[Resolution No. 2024-0411](#)

Location Map

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - 04XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize Change Order No. 7 with Harry Pepper & Associates, Inc., for the construction of the S-9 and S-9A Trash Rake and Pump Station Refurbishments Project, for an additional amount not to exceed \$3,305,510.94, for which dedicated funds (State Appropriations) and Ad Valorem are budgeted in Fiscal Year 2023-2024; providing an effective date. (Contract No. 4600004514-CO07)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to authorize Change Order No. 7 with Harry Pepper & Associates, Inc., for the construction of the S-9 and S-9A Trash Rake and Pump Station Refurbishments Project.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes Change Order No. 7 with Harry Pepper & Associates, Inc., for an additional amount not to exceed \$3,305,510.94, for which dedicated funds (State Appropriations) and Ad Valorem are budgeted in Fiscal Year 2023-2024. (Contract No. 4600004514-CO07).

Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 11th day of April, 2024.

Location



MEMORANDUM

TO: Governing Board Members

FROM: Lucine Dadrian, P.E., Engineering, Construction & Modeling

DATE: April 11, 2024

SUBJECT: STA-1E Cell 2 - Outflow Structure Emergency Power Generator Project
Change Order No. 4, Palm Beach County

Agenda Item Background:

As part of the Operations and Maintenance Capital Improvement Program and to increase STA resilience, the STA-1E Cell 2 - Outflow Structure Emergency Power Generator project, located in Palm Beach County, will improve the District's ability to manage operations during power outages and protect STA performance. Currently, in anticipation of power outages that would leave the STA-1E Cell 2 gates inoperable, the Cell 2 discharge gates are opened and then held open during storm events. This causes a rapid drawdown of Cell 2 and uncontrolled flows during storm events which have caused extensive erosion to the cell, compromising the cell's water quality treatment performance. This project involves retrofitting S-365B with permanent backup power, a new generator building, and miscellaneous site-civil improvements. Once complete, the flows through Cell 2 can be managed in a manner that supports treatment performance.

On July 13, 2023, the Governing Board awarded the STA-1E Cell 2 - Outflow Structure Emergency Power Generator project to Expert Construction Managers, Inc. in the amount of \$2,177,000.00. Change Order No. 4 includes Cell 2 treatment area erosion restoration and stilling well and gate control panel modifications for a total of \$216,784.06 and a total contract value of \$3,391,620.07.

Additional Item Background:

Core Mission and Strategic Priorities:

This project supports the District's core missions of flood control, water quality, and ecosystem restoration.

Funding Source:

Funded with dedicated funds (State Appropriations) and Ad Valorem funds.

Staff Contact and/or Presenter:

Lucine Dadrian, P.E., ldadrian@sfwmd.gov, 561-682-2685

ATTACHMENTS:

[Resolution No. 2024-0412](#)

[Location Map](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - 04XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize Change Order No. 4 with Expert Construction Managers, Inc., for the construction of the STA-1E Cell 2 - Outflow Structure Emergency Power Generator Project, for an additional amount not to exceed \$216,784.06, for which dedicated funds (State Appropriations) and Ad Valorem funds are budgeted in Fiscal Year 2023-2024; providing an effective date. (Contract No. 4600004792-CO04)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to authorize Change Order No. 4 with Expert Construction Managers, Inc., for the construction of the STA-1E Cell 2 - Outflow Structure Emergency Power Generator Project.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes Change Order No. 4 with Expert Construction Managers, Inc., for an additional amount not to exceed \$216,784.06, for which dedicated funds (State Appropriations) and Ad Valorem are budgeted in Fiscal Year 2023-2024. (Contract No. 4600004792-CO04).

Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 11th day of April, 2024.

MEMORANDUM

TO: Governing Board Members

FROM: Rich Virgil, Field Operations Division

DATE: April 11, 2024

SUBJECT: L-28 Microwave Tower Power Supply - Right of Way Occupancy Permit and Waiver, Florida Power & Light Company

Agenda Item Background:

Florida Power & Light Company (Applicant) requests a Standard Right of Way Occupancy Permit Number 16931-R (ROW Permit) to install an aerial utility crossing with 2 utility poles and associated down guys/anchor within the right of way of the L-29 South Canal at its intersection with the L-28 Canal. Only the pole on the north side of the canal will have 2 down guys which extend from the pole to the anchor on the ground. The proposed aerial crossing is associated with a District project to provide permanent electric service to the District's L-28 Microwave Tower located 14 miles to the north. The tower is currently serviced by a gas-powered generator.

Presently, based on existing conditions and electric service design requirements, there are no available locations to install the poles and anchor for the aerial utility crossing. In addition, installing the poles and anchor within the L-29S Canal itself is not an option. To address this design challenge, the District will construct new earthen "pole pads" extending into the canal from both the north and south banks. The pole pads will only be large enough to provide an earthen location for the poles and anchor and are not designed to accommodate the required 40-foot setback to top of bank. A waiver to the rule is required for this District project. If approved, the proposed work will not interfere with or adversely impact the District's routine or emergency operations, maintenance, or future construction activities.

Staff Contact and/or Presenter:

Rich Virgil, rvirgil@sfwmd.gov, 561-682-6759

ATTACHMENTS:

[Backup Presentation](#)

RIGHT OF WAY OCCUPANCY PERMIT (ROW PERMIT) REQUEST

Applicant	Florida Power & Light Company
Application Number	231222-41795
Canal	L-29 South
Location	Intersection of L-28 and L-29 South Canals, north of Tamiami Trail (U.S. Highway 41)
Proposed Improvements to be Authorized by ROW Permit 16653-R	Aerial Utility Crossing with 2 Utility Poles and Associated Down Guys
Required Waiver(s)	Waiver to Allow 2 Utility Poles and Associated Down Guys/Anchor Within 40 Feet of Top of Bank
ROW Permit Number (proposed)	16931-R

SUMMARY

Florida Power & Light Company (Applicant) requests a Standard Right of Way Occupancy Permit Number 16931-R (ROW Permit) to install an aerial utility crossing with 2 utility poles and associated down guys/anchor within the right of way of the L-29 South Canal at its intersection with the L-28 Canal. Only the pole on the north side of the canal will have 2 down guys which extend from the pole to the anchor on the ground. The proposed aerial crossing is associated with a District project to provide permanent electric service to the District's L-28 Microwave Tower located 14 miles to the north. The tower is currently serviced by a gas-powered generator.

Presently, based on existing conditions and electric service design requirements, there are no available locations to install the poles and anchor for the aerial utility crossing. In addition installing the poles and anchor within the L-29S Canal itself is not an option. To address this design challenge, the District will construct new earthen "pole pads" extending into the canal from both the north and south banks. The pole pads will only be large enough to provide an earthen location for the poles and anchor and are not designed to accommodate the required 40-foot setback to top of back. A waiver to the rule is required for this District project. If approved, the proposed work will not interfere with or adversely impact the District's routine or emergency operations, maintenance, or future construction activities.

DISCUSSION/JUSTIFICATION FOR WAIVERS

The Applicant has demonstrated a substantial hardship that supports granting of the requested waiver. Without the waiver, there is no alternative means to provide permanent electric service to the L-28 Microwave Tower. As discussed earlier, the new earthen pole pads extending into the canal area will only be large enough to accommodate the 2 poles and anchor. The pole pads are not designed to accommodate the 40-foot setback from top of bank. To do so would require that more of the canal be filled to create larger pole pads which would adversely impact conveyance by reducing the cross-section of the canal. The utility pole on the south side of the L-29 South Canal will be installed 10 feet from top of bank on the pole pad. The utility pole on the north side of the canal will also be installed 10 feet from top of bank with 2 down guys extending to an anchor located at the top of bank of the pole pad.

LEGAL NOTICE

The petition for waiver was reviewed by the Office of Counsel for compliance with applicable legal requirements. Pursuant to Section 120.542(6), Florida Statutes, notice of the petition was provided to the Department of State and published in Volume 50, Number 03 of the Florida Administrative Register on January 4, 2024. No public comments were received.

RECOMMENDATION

Staff recommends **approval** of issuance of Standard Right of Way Occupancy Permit 16931-R and **approval** to issue an order granting the associated petition for waiver to allow an aerial utility crossing with 2 utility poles and associated down guys/anchor within 40 feet of top of bank to provide permanent electric service to the L-28 Microwave Tower (Application No. 231222-41795).

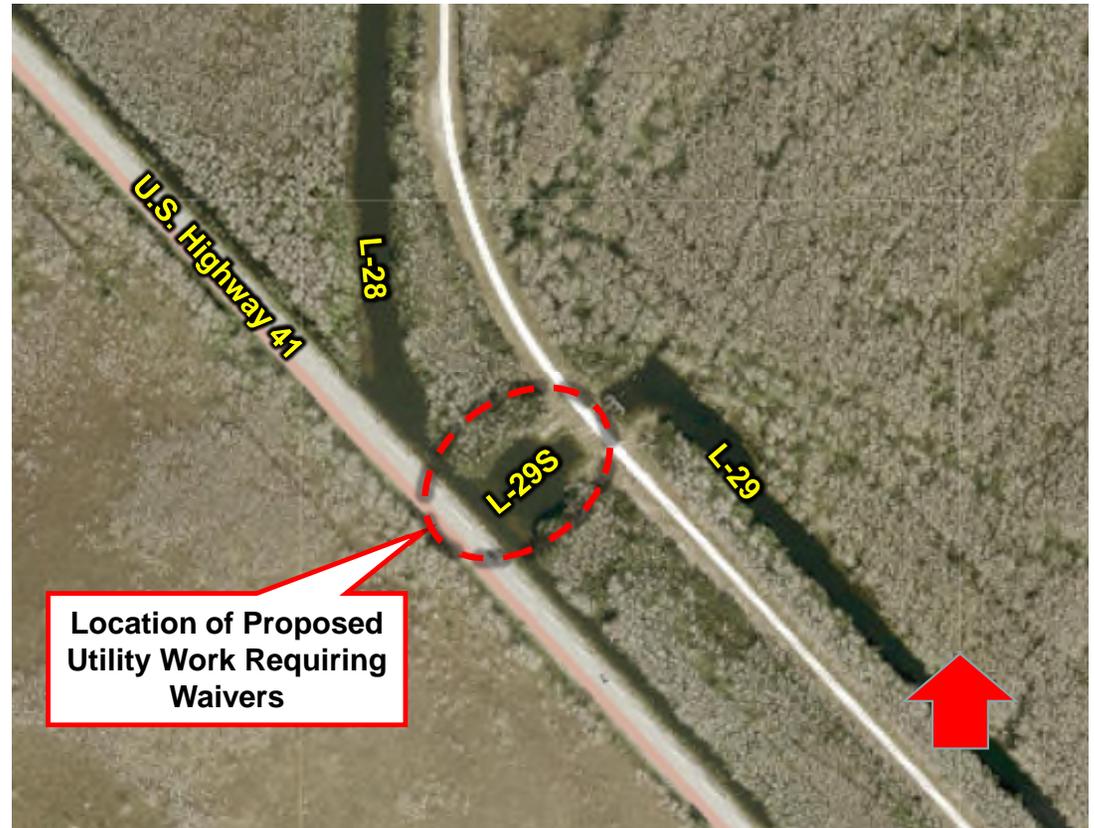
**L-28 Microwave Tower Power Supply
Aerial Utility Crossing with Waiver to Allow Two (2) Utility Poles and Associated Down Guys
Within 40 Feet of Top of Bank
Florida Power & Light Company, Applicant
L-29 South Canal – Miami-Dade County**

Right of Way Occupancy Permit No. 16931-R

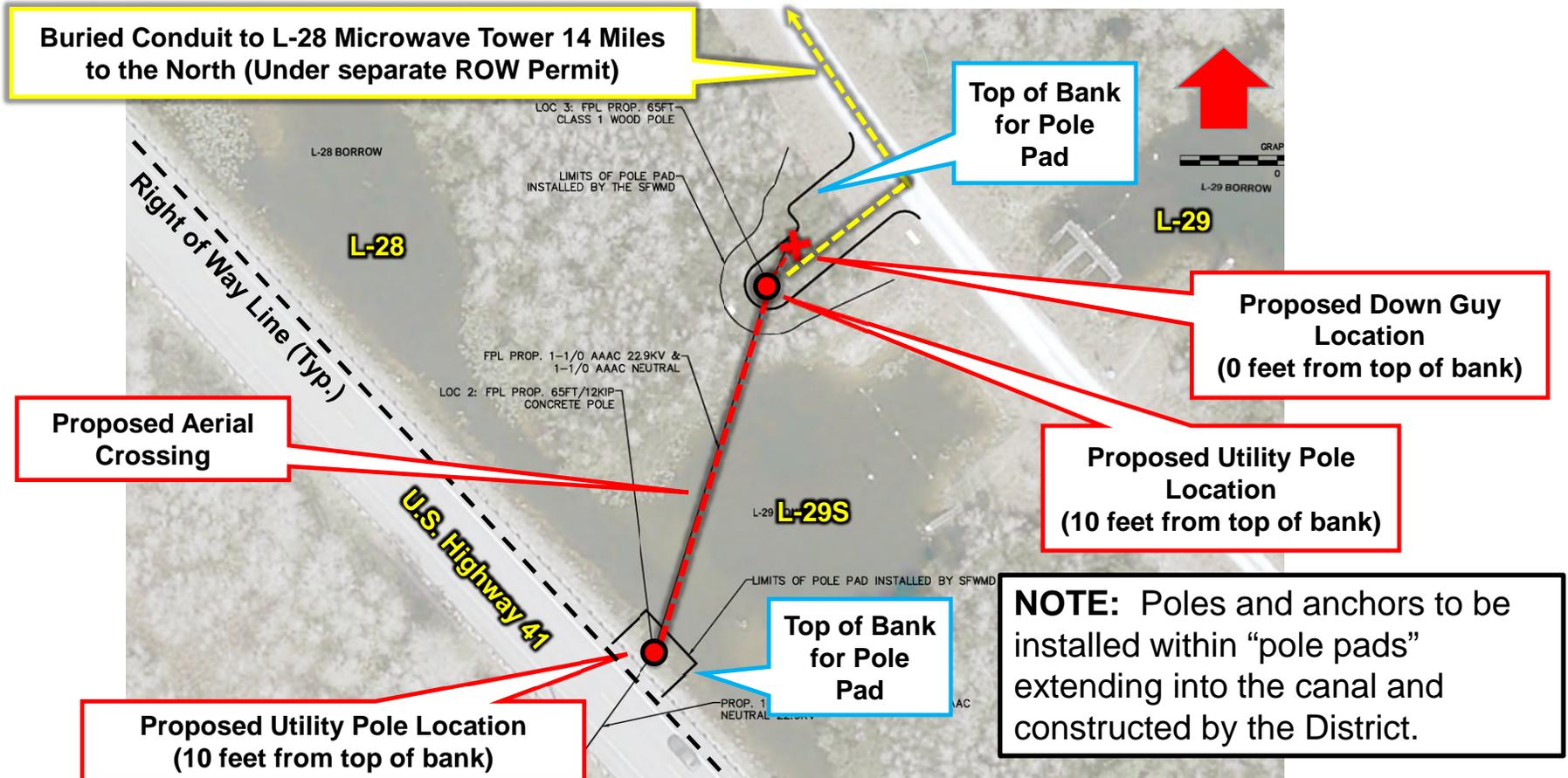
**John R. Hixenbaugh, J.D., AICP
Right of Way Section Administrator
South Florida Water Management District
Governing Board Meeting
April 11, 2024**

Application Information and Location Map

- **Applicant:** Florida Power & Light Company
- **Application Number:** 231222-41795
- **Canal:** L-29 South Canal
- **Location:** Intersection of L-28 and the L-29 South Canals, north of Tamiami Trail (U.S. Highway 41)
- **Request:** Issuance of Standard Right of Way Occupancy Permit No. 16931-R to install an aerial utility crossing with a waiver to allow two (2) utility poles and associated down guys within 40 feet of top of bank.



Aerial of Proposed Utility Improvements



Project Summary

- The requested waiver to the 40-foot rule is necessary because there is no alternative means to provide permanent electric service to the District's remote L-28 Microwave Tower which currently operates with a gas-powered generator . The aerial crossing will connect to a buried conduit and continue northward approximately 14 miles to provide permanent electric service to the tower.
- Granting of the waiver will not adversely impact the District's ability to perform routine or emergency operations, maintenance, or future construction activities.

Discussion

MEMORANDUM

TO: Governing Board Members

FROM: Jennifer Reynolds, Ecosystem Restoration & Capital Projects

DATE: April 11, 2024

SUBJECT: *ITEM POSTPONED* Amendment to Local Funding Agreement, CEPP EAA US 27 Bridges Project, Palm Beach County

Agenda Item Background:

The District's Governing Board passed and adopted Resolution No. 2021-0509 on May 13, 2021, to authorize entering into Local Funding Agreement (LFA) No. 4600004411 with the Florida Department of Transportation (FDOT) to provide financial assistance to FDOT for the development (in-house and consultant design) of a full set of signed and sealed roadway construction plans for FDOT's roadway / bridge construction of State Road 25/US-27 at 27 miles North of the I-75/US-27 Interchange in Palm Beach County the in amount of \$1,571,865.

The bridge is a necessary part of the CEPP Everglades Agricultural Area (EAA) A-2 Reservoir project and will allow up to 3,000 cfs of water to be delivered from/to the North New River Canal to/from the reservoir with minimum head losses.

On January 21, 2022, the District executed an amendment to the LFA (Amendment No. 1) increasing the District's financial assistance by \$146,188 to cover the cost of Survey and additional Design Services, bringing the total value of the District's financial assistance to \$1,718,053.

FDOT's US 27 Roadway / Bridge design is currently at the Intermediate (60%) Design level. Execution of this amendment (Amendment No. 2), together with its associated Escrow Agreement, will increase the District's financial assistance by \$229,830 and is needed to fund District-requested design changes to the aforementioned roadway / bridge design, bringing the total value of the District's financial assistance under this LFA to \$1,947,883.

Governing Board approval to execute Amendment No. 2 is required as the total financial commitment attributable to Amendment No. 1 together with Amendment No. 2 exceeds the current threshold that District staff can approve without benefit of Governing Board approval and is required to enable FDOT to proceed with Final Design of the CEPP EAA US-27 Bridges Component.

Additional Item Background:

Although not self-executing, based on anticipated cost sharing, it is currently anticipated that the District would also execute a final LFA with FDOT in the amount of \$19,300,000 to fund construction of the US Highway 27 bridges, subject to budget and Governing Board Approval at that time.

Core Mission and Strategic Priorities:

Design of the EAA US-27 Bridges Component is consistent with the “restore South Florida's water resources and ecosystems” aspect of the District’s Core Mission Statement, and the US 27 Bridges Component is necessary to serve the EAA A-2 STA and EAA A-2 Reservoir, both of which are specifically included within the District’s 2021-2026 Strategic Plan.

Funding Source:

The Amendment to Local Funding Agreement for the CEPP EAA US 27 Bridges Project Component will be funded through dedicated funds (Everglades Trust Fund and Land Acquisition Trust Fund).

Staff Contact and/or Presenter:

Jennifer Reynolds, jreynolds@sfwmd.gov, 561-682-6672
John Shaffer, jshaffe@sfwmd.gov, 561-682-6308

ATTACHMENTS:

[Resolution No. 2024-0413](#)

[Location Map](#)

[Draft Amendment No. 2](#)

[Executed Design LFA](#)

[Scope of Services](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - XXXX

A Resolution of the Governing Board of the South Florida Water Management District to authorize an amendment to the Local Funding Agreement (LFA) with Florida Department of Transportation (FDOT) for the development of a full set of signed and sealed roadway construction plans for FDOT's roadway / bridge construction of SR25/US-27 at 27 miles North of the I-75/US-27 Interchange, in the amount of \$229,830 for which dedicated funds (Everglades Trust Fund and Land Acquisition Trust Fund) are budgeted in Fiscal Year 2023-2024; providing an effective date. (Contract 4600004411-A02)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to amend the LFA No. 4600004411 with FDOT to increase the District's financial assistance to fund the design changes to the aforementioned roadway / bridge design.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes amending existing LFA No. 4600004411 (Effective Date June 4, 2021) to increase by \$229,830 the financial assistance to FDOT for the development of roadway construction plans, for which dedicated funds (Everglades Trust Fund and Land Acquisition Trust Fund) are budgeted in Fiscal Year 2023-2024. (Contract 4600004411-A02)

Section 2. This Resolution shall take effect immediately upon adoption.

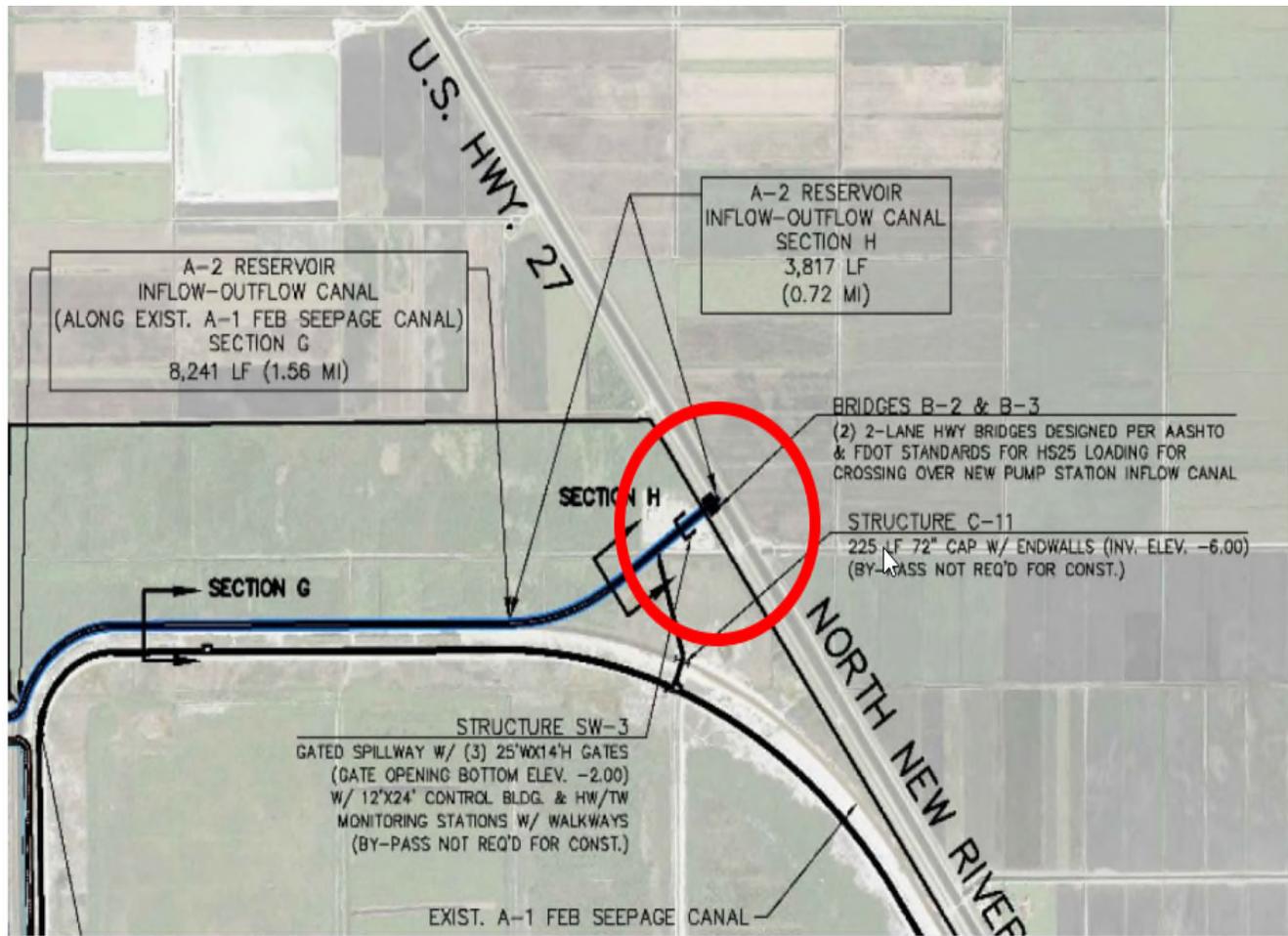
PASSED and ADOPTED this 11th day of April, 2024.

PROPOSED BRIDGE LOCATION

(B-2 & B-3)

FM # 448136-1-32-01

FM # 448136-1-32-42



STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
AND
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
LOCALLY FUNDED AGREEMENT

AMENDMENT NUMBER TWO

THIS Amendment, made and entered into this _____ day of _____, 20_____, by and between the State of Florida Department of Transportation, an agency of the State of Florida, hereinafter called the DEPARTMENT, and South Florida Water Management District, is a regional governmental agency located at 3301 Gun Club Road, West Palm Beach, FL 33406, hereinafter called the PARTICIPANT.

WITNESSETH

WHEREAS, on June 4, 2021, the parties entered into a Locally Funded Agreement, hereinafter referred to as the Agreement, wherein the PARTICIPANT agreed to provide the DEPARTMENT financial assistance in connection with Financial Management (FM) No. 448136-1-31-01, 448136-1-32-01, and 448136-1-32-42 for the development (in-house and consultant design) of a full set of signed and sealed roadway construction plans for the DEPARTMENT’s roadway / bridge construction of SR25/US-27 @ 27 miles North of the I-75/US-27 Interchange in Palm Beach County, Florida, hereinafter referred to as the Project; and

WHEREAS, the parties amended the Agreement on January 21, 2022 (Amendment No. One) which increased total funding of the Project; and

WHEREAS, Financial Management Number # 448136-1-32-42 was administratively deleted from the Agreement and the initial funding was reallocated to FM No. 448136-1-32-01; and

WHEREAS, the parties desire to further amend the Agreement; and

WHEREAS, the parties hereto mutually agree that this Amendment is in their best interest.

NOW, THEREFORE, in consideration of the mutual covenants, promises and representations herein, the parties agree to amend that certain Agreement dated June 4, 2021, as follows:

1. The recitals set forth above are true and correct and are deemed incorporated herein.
2. This Amendment increases the total funding of the Project of which additional design services, as shown in **Exhibit A-1** of this Amendment attached hereto and made a part hereof, are required in order to produce a complete set of signed and sealed construction plans. Paragraph 3 of Amendment No. 1 is hereby amended as follows:

The PARTICIPANT is responsible for 100% of the Project cost. The total Project cost is estimated to be ONE MILLION NINE HUNDRED FORTY-SEVEN THOUSAND EIGHT HUNDRED

EIGHTY-THREE DOLLARS AND NO CENTS (\$1,947,883.00), which sum shall be paid to the DEPARTMENT. In the event the actual cost of the Project is less than the funds provided, the difference will be refunded to the PARTICIPANT. In the event the actual cost of the Project, without modifications, results in a sum greater than that paid by the PARTICIPANT, then such sum shall be the sole responsibility of the PARTICIPANT and shall be paid to the DEPARTMENT.

As of the date of this Amendment, the PARTICIPANT has provided the DEPARTMENT with two (2) Project payments for FM Number 448136-1-31-01 and/or 448136-1-32-01: the first (1st) payment was received on July 2, 2021, in the amount of ONE MILLION FIVE HUNDRED SEVENTY-ONE THOUSAND EIGHT HUNDRED SIXTY-FIVE AND NO CENTS (\$1,571,865.00); and the second (2nd) payment was received on March 7, 2022, in the amount of ONE HUNDRED FORTY-SIX THOUSAND ONE HUNDRED EIGHTY-EIGHT DOLLARS AND NO CENTS (\$146,188.00).

The PARTICIPANT agrees that it will, within thirty days of the execution of this Amendment, remit payment to the DEPARTMENT in the amount of TWO HUNDRED TWENTY-NINE THOUSAND EIGHT HUNDRED THIRTY DOLLARS AND NO CENTS (\$229,830.00.00), which is the remaining funding required for the completion of the Project. The payment will be applied to FM No. 448136-1-32-01.

In the event payment is not received by the DEPARTMENT within thirty (30) days of execution of this Amendment, the DEPARTMENT reserves the right to suspend the Project until the additional funding is received by the DEPARTMENT.

In the event the Project requires additional deposits, the PARTICIPANT shall make the required additional deposits to the DEPARTMENT. Payment shall be clearly marked to indicate that it is to be applied to FM Project No. 448136-1-32-01. The DEPARTMENT shall utilize this amount towards cost of Project 448136-1-32-01.

Funding breakdown:

Financial Mgmt. No. (FM#)	Description of Services	Original Amount	Reallocation	Amendment No. 1	Amendment No. 2	Amount
448136-1-31-01	In-House Design	\$ 192,634.00	-	\$0.00	\$0.00	\$ 192,634.00
448136-1-32-01	Consultant Design	\$1,284,231.00	+\$95,000.00	\$98,387.00	\$229,830.00	\$1,707,448.00
	Survey Services	-	-	\$47,801.00	\$0.00	\$ 47,801.00
448136-1-32-42	Geotechnical Services	\$ 95,000.00	-\$95,000.00	-	\$0.00	\$ 0.00
TOTAL		\$1,571,865.00	\$0.00	\$146,188.00	\$229,830.00	\$1,947,883.00

Wire transfer/Payments are to be made to:

Wells Fargo Bank, N.A.

Account # 4834783896

ABA # 121000248

Chief Financial Officer of Florida

Re: DOT – K 11-78, Financial Project # 448136-1-32-01.

In order for the DEPARTMENT to receive credit for the funds due to the DEPARTMENT, the reference line must contain “FDOT” and an abbreviated purpose, financial project number or LFA account number.

Once the wire transfer is complete, please contact Ashley Sheffield at 850-414-4887. In addition to calling Ms. Sheffield, the PARTICIPANT shall send an email notification to D4-lfa@dot.state.fl.us stating the day and time the wire transfer was sent.

Paragraph 5B, 5C, 5D, & 5E of the Agreement shall remain in full force and effect.

Except as modified by this Amendment, all terms, and conditions of the Agreement and all subsequent amendments fully executed by parties shall remain in full force and effect.

The remainder of this page left intentionally blank.

IN WITNESS WHEREOF, this Amendment is to be executed by the parties below for the purposes specified herein. Authorization has been given to enter into and execute this Amendment by Resolution No. _____, hereto attached.

SOUTH FLORIDA WATER
MANAGEMENT DISTRICT

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

BY: _____
NAME: DREW BARTLETT
TITLE: EXECUTIVE DIRECTOR

BY: _____
JOHN P. KRANE, P.E.
DIRECTOR OF TRANSPORTATION DEVELOPMENT

LEGAL REVIEW:

BY: _____
NAME: CANDIDA HEATER
TITLE: DIVISION DIRECTOR

BY: _____
OFFICE OF THE GENERAL COUNSEL

APPROVED:

APPROVED:

BY: _____
ATTORNEY

BY: _____
DISTRICT PROGRAM MGMT. ADMINISTRATOR

EXHIBIT A-1
SCOPE OF SERVICES
FPID 448136-1-32-01

1.0 BACKGROUND

The Department's CONSULTANT is to provide design services for the SR25/US-27 at 27 miles north of the I-75/US-27 Interchange project in accordance with the Scope of Services. This supplement scope of services addresses:

- The SFWMD request for a 2D hydraulic model of the new I/O canal for scour analysis beyond what was previously delivered.
- The SFWMD significant truck traffic that will be entering the traffic control construction area north and south of bridge while the bridge construction occurs. This change was revealed following the Constructability Review creating the need to redesign the TTCP.
- Additional geotechnical and structural services have been added to adjust design to mitigate the soil conditions previously found.

2.0 PURPOSE/SCOPE is to perform the following services outside the scope of original work:

1. Redesign of the Temporary Traffic Control Plan following a request from SFWMD to accommodate their additional traffic created by the EAA Construction Village driveway to the north of the proposed canal bridge.
2. Prepare temporary critical wall plans to accommodate the added lane of traffic anticipated for acceleration of SFWMD trucks entering/exit the EAA site.
3. Prepare a two-dimensional hydraulic model for the I/O and North New River Canal connection.
4. Prepare an MSP to accommodate SFWMD RIP-RAP specifications.
5. Provide geotechnical engineering services for the following services:
 - a. Provide recommendations for new post and panel wall at each approach next to the North New River Canal
 - i. WALL: Assumes wall length at each approach along the canal is 300' long for total wall footage of 600' (from 678+56.42 to 681+56.42 and from 684+04.92 to 687+04.92). Perform 4 SPT borings to depths of up to 40 feet below ground surface and reusing 2 bridge borings (BB-682R-1R and BB-684R-4R) for the analysis of the walls. Assumes at maximum wall height the bridge boring will be used. Wall boring spacing of 150 LF was assumed.
 - b. Provide engineering services for the evaluation for additional piling assuming 100% PDA testing.
 - i. BRIDGE: Regarding the bridge structures, additional piling will be added and assuming 100% dynamic testing. Additional geotechnical evaluation will be required, but additional deeper borings will not be required.
 - c. Muck delineation at west toe of the existing embankment.
 - i. ROADWAY: Regarding the additional roadway borings, the purpose is to further delineate the lateral and vertical extent of the organic and plastic material encountered in borings DRI-671L and DRI-688L along the western portion of the site. These 2 hand augers were performed at the toe of the existing embankment and within the control line of the proposed embankment. The remainder of the existing borings on the west side were performed at the top of the existing embankment and did not encounter this material. The roadway borings

top of the existing embankment and did not encounter this material. The roadway borings will be performed to a depth of 10 ft from Sta. 671+00 to Sta. 688+00. Roadway boring spacing of 1000 LF is assumed.

6. Provide post and panel wall design including credit of cantilevered wall design.
7. Provide TTC for geotechnical field work.
8. Readdiction of the temporary critical wall previously removed. TTCP redesign will add a lane NB through the work zone. The added lane decreases the distance from the temporary edge of travel to the temporary retaining wall. This wall now becomes a temporary critical wall and requires EOR design.

3.0 Schedule

1. The production date is not expected to be impacted.
2. The additional analysis and results per this supplement will be included in the biddability phase submittal.

4.0 Deliverable

1. Revised TTCP plans.
2. A modified special provision to accommodate SFWMD RIP-RAP specifications.
3. An updated Geotechnical Report.
4. Miscellaneous structures plan (post and panel wall) and associated analysis.
5. Miscellaneous structures plan (temporary critical wall) and associated analysis.

Attachment A - Executed LFA



Florida Department of Transportation

RON DESANTIS
GOVERNOR

3400 West Commercial Boulevard
Fort Lauderdale, FL 33309

KEVIN J. THIBAUT, P.E.
SECRETARY

June 4, 2021

Mr. John Shafer
South Florida Water Management District
3301 Gun Club Road
West Palm Beach, Florida 33406

RE: Locally Funded Agreement (LFA)
FM Number: 448136-1-31-01; 448136-1-32-01; 448136-1-32-42
Description: The development (in house and consultant design) of a full set of signed and sealed roadway construction plans for the DEPARTMENT's roadway / bridge construction of SR25/US-27 @ 27 miles North of the I-75/US-27 Interchange in Palm Beach County, Florida

Mr. Shaffer:

Enclosed please find a copy of a fully executed Locally Funded Agreement for the Project referenced above. Also included is a copy of the **Resolution No. 2021-0509**. Said documents are to be retained for your records.

If you have any questions, please do not hesitate to contact me. I can be reached at (954) 777-2285.

Sincerely,

A handwritten signature in black ink that reads "Leos Kennedy". The signature is written in a cursive, slightly slanted style.

Leos A. Kennedy, Jr.
Program Management Unit
District Four

lk/s
enc: LFA
copy: Claudia Vinitzkiy-Calvo, Project Manager
Mark Madgar, Work Program Manager
LFA Section
File

Improve Safety, Enhance Mobility, Inspire Innovation
www.fdot.gov

Attachment A - Executed LFA

SFWMD LFA No. 4600004411

FM No: 448136-1-31-01
448136-1-32-01
448136-1-32-42
FEID No: VF-596-015-290

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION LOCALLY FUNDED AGREEMENT

THIS Locally Funded Agreement (“Agreement”), entered into this 4th day of June 2021, by and between the State of Florida Department of Transportation hereinafter called the DEPARTMENT, and South Florida Water Management District located at 3301 Gun Club Road, West Palm Beach, Florida 33406, hereinafter called the PARTICIPANT.

WITNESSETH

WHEREAS, the DEPARTMENT and the PARTICIPANT are desirous of having the PARTICIPANT provide financial assistance to the DEPARTMENT for the development (in-house and consultant design) of a full set of signed and sealed roadway construction plans for the DEPARTMENT’s roadway / bridge construction of SR25/US-27 @ 27 miles North of the I-75/US-27 Interchange in Palm Beach County, Florida (Financial Management (FM) Number 448136-1-31-01; 448136-1-32-01; 448136-1-32-42, Funded in Fiscal Year 2021/2022 – 2022/2023). Refer to **Exhibit A & Attachment A-1**, Scope of Services and Bridge Location/Illustration, respectively, of this agreement attached hereto and made a part hereof; and

WHEREAS, for purposes of this Agreement, improvements to be made as stated above are hereinafter referred to as the Project; and

WHEREAS, the improvements are in the interest of both the PARTICIPANT and the DEPARTMENT and it would be more practical, expeditious, and economical for the DEPARTMENT to perform such activities; and

WHEREAS, the PARTICIPANT by Resolution Item No. 2021-0509 dated the 13th day of May 2021, a copy of which is attached hereto and made a part hereof, authorizes the Director, or designee to enter into this Agreement.

NOW, THEREFORE, in consideration of the mutual benefits to be derived from joint participation on the Project, the parties agree to the following:

1. The recitals set forth above are true and correct and are deemed incorporated herein.
2. The DEPARTMENT shall be responsible for assuring that the Project complies with all applicable Federal, State and Local laws, rules, regulations, guidelines and standards.
3. The PARTICIPANT agrees to make all previous studies, maps, drawings, surveys and other data and information pertaining to the Project available to the DEPARTMENT at no extra cost.

Attachment A - Executed LFA

4. The DEPARTMENT shall have the sole responsibility for resolving claims and requests for additional work for the Project. The DEPARTMENT will make reasonable efforts to obtain the PARTICIPANT input in its decisions.

5. The PARTICIPANT is responsible for 100% of the Project cost. The total Project cost, which is also the PARTICIPANT's share, is estimated to be ONE MILLION FIVE HUNDRED SEVENTY ONE THOUSAND EIGHT HUNDRED SIXTY FIVE DOLLARS AND NO CENTS (\$1,571,865.00), which sum shall be paid to the DEPARTMENT. In the event the actual cost of the Project is less than the funds provided, the difference will be refunded to the PARTICIPANT. In the event the actual cost of the Project, without modifications, results in a sum greater than that paid by the PARTICIPANT, then such sum shall be the sole responsibility of the PARTICIPANT and shall be paid to the DEPARTMENT.
 - (A) The PARTICIPANT agrees that it will, within thirty (30) days of the execution of this Agreement, furnish the DEPARTMENT with a check in the amount of ONE MILLION FIVE HUNDRED SEVENTY ONE THOUSAND EIGHT HUNDRED SIXTY FIVE DOLLARS AND NO CENTS (\$1,571,865.00) towards the Project Costs.

In the event payment is not received by the DEPARTMENT within thirty (30) days of execution of this Agreement the DEPARTMENT reserves the right to terminate this Agreement and remove the Project from the DEPARTMENT's Work Program.

Remittance shall be made payable to the Department of Transportation. Payment shall be clearly marked to indicate that it is to be applied to FM Number 448136-1-31-01; 448136-1-32-01; 448136-1-32-42. The DEPARTMENT shall utilize this amount towards costs of Project No. 448136-1-31-01; 448136-1-32-01; 448136-1-32-42.

Funding breakdown:

Financial Mgmt. No. (FM#)	Description of Services	Amount
448136-1-31-01	In-House Design	\$ 192,634.00
448136-1-32-01	Consultant Design	\$1,284,231.00
448136-1-32-42	Geotechnical Services	\$ 95,000.00
TOTAL		\$1,571,865.00

In the event that any of the allocated funds for Phases 31 and 32 are not utilized in its entirety the DEPARTMENT shall reallocate funds without an amendment to cover Projects costs, as long as the amount of the reallocation results in a zero-dollar (0.00) net change and no additional funding is required from the PARTICIPANT.

Attachment A - Executed LFA

Payment shall be mailed to:

Florida Department of Transportation
Program Management Unit - Attention: Leos A. Kennedy, Jr.
3400 W. Commercial Boulevard
Fort Lauderdale, Florida 33309-3421

In lieu of mailing payment to the DEPARTMENT, the PARTICIPANT may also submit the payment for the Project via wire transfer.

Wire transfer/Payments are to be made to:

Wells Fargo Bank, N.A.
Account # 4834783896
ABA # 121000248
Chief Financial Officer of Florida
Re: DOT – K 11-78, Financial project # 448136-1-31-01; 448136-1-32-01; 448136-1-32-42.

In order for the DEPARTMENT to receive credit for the funds due to the DEPARTMENT, the reference line must contain "FDOT" and an abbreviated purpose, financial project number or LFA account number.

Once the wire transfer is complete, please contact Kenneth Ward at 850-414-4886. In addition to calling Mr. Ward, please send an email notification to Leos Kennedy at leos.kennedy@dot.state.fl.us stating the day and time the wire transfer was sent.

- (B) If the Project costs are in excess of the advance deposit amount, the PARTICIPANT will provide an additional deposit within fourteen (14) calendar days of notification from the DEPARTMENT. The DEPARTMENT will notify the PARTICIPANT as soon as it becomes apparent that Project costs are in excess of the advanced deposit amount; however, failure of the DEPARTMENT to so notify the PARTICIPANT shall not relieve the PARTICIPANT from its obligation to pay for its full participation. If the PARTICIPANT cannot provide the additional deposit within fourteen (14) calendar days, a letter must be submitted to and approved by the DEPARTMENT's Project Manager indicating the date the deposit will be made and the DEPARTMENT's written consent to the payment of the additional deposit on said date. The PARTICIPANT understands the request and approval of the additional time could delay the Project, and additional costs at the PARTICIPANT's expense may be incurred due to delay of the Project. In the event of non-payment, the DEPARTMENT reserves the right to terminate this Agreement and remove the Project from the Department's Work Program.
- (C) If the Project costs are less than the advance deposit amount, the DEPARTMENT will refund the amount that the advance deposit exceeds the PARTICIPANT's share of the Accepted Bid amount plus allowances.

Attachment A - Executed LFA

- (D) Should Project modifications occur that increase the PARTICIPANT's payment for the Project costs, the PARTICIPANT will be notified by the DEPARTMENT. The PARTICIPANT agrees to provide, without delay, in advance of the additional work being performed, adequate funds to ensure that cash on deposit with the DEPARTMENT is sufficient to fully fund the cost of the Project. The DEPARTMENT shall notify the PARTICIPANT as soon as it becomes apparent the actual costs will exceed the deposit amount. However, failure of the DEPARTMENT to so notify the PARTICIPANT shall not relieve the PARTICIPANT from its obligation to pay for its full participation. Funds due from the PARTICIPANT during the Project not paid within forty (40) calendar days from the date of the invoice are subject to an interest charge at a rate established pursuant to Section 55.03, F.S. In the event the PARTICIPANT fails to make the additional payment within the time hereinabove set forth, in addition to any other remedy, the DEPARTMENT reserves the right to terminate this Agreement.
- (E) The DEPARTMENT intends to have its final and complete accounting of all costs incurred in connection with the work performed hereunder within three hundred sixty (360) days of final payment to the Consultant. The DEPARTMENT considers the Project complete when the final payment has been made to the Consultant, not when the design work is complete. All Project cost records and accounts shall be subject to audit by a representative of the PARTICIPANT for a period of three (3) years after final close out of the Project. The PARTICIPANT will be notified of the final cost. Both parties agree that in the event the final accounting of total Project costs pursuant to the terms of this Agreement is less than the total deposits to date, the excess funding will be refunded to the PARTICIPANT. If the final accounting is not performed within three hundred sixty (360) days, the PARTICIPANT is not relieved from its obligation to pay.
- (F) In the event the final accounting of total Project costs indicate that the Project costs are greater than the total deposits to date, the PARTICIPANT will pay the additional amount within forty (40) calendar days from the date of the invoice from the DEPARTMENT. The PARTICIPANT agrees to pay interest at a rate as established pursuant to *Section 55.03, F.S.*, on any invoice not paid within forty (40) calendar days until the invoice is paid.
- (G) Upon receipt of payment, from the PARTICIPANT to the DEPARTMENT, the DEPARTMENT will then forward the PARTICIPANT's payment to the Department of Financial Services, Division of Treasury for deposit as provided in the Three Party Escrow Agreement (3PEA) between the PARTICIPANT, the DEPARTMENT and the State of Florida, Department of Financial Services, Division of Treasury, a copy of which is attached hereto and made a part hereof as **Exhibit B**.

Attachment A - Executed LFA

6. In the event it becomes necessary for either party to institute suit for the enforcement of the provisions of this Agreement, each party shall be responsible to pay their own attorney fees and court costs. Venue with respect to any such litigation shall be in Broward County.
7. This Agreement and any interest herein shall not be assigned, transferred or otherwise encumbered by the PARTICIPANT under any circumstances without the prior written consent of the DEPARTMENT. However, this Agreement shall run to the DEPARTMENT and its successors.
8. Except as otherwise set forth herein, this Agreement shall continue in effect and be binding to both the PARTICIPANT and the DEPARTMENT until the Project (FM# 448136-1-31-01; 448136-1-32-01; & 448136-1-32-42) is completed as evidenced by the written acceptance of the DEPARTMENT.
9. The PARTICIPANT warrants that it has not employed or obtained any company or person, other than bona fide employees of the PARTICIPANT, to solicit or secure this Agreement, and it has not paid or agreed to pay any company, corporation, individual or firm, other than a bona fide employee employed by the PARTICIPANT. For breach or violation of this provision, the DEPARTMENT shall have the right to terminate the Agreement without liability.
10. The PARTICIPANT / Vendor/ Contractor:
 - (A) employment eligibility of all new employees hired by the PARTICIPANT / Vendor/ Contractor during the term of the contract; and
 - (B) shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.
11. This Agreement is governed by and construed in accordance with the laws of the State of Florida.
12. This document incorporates and includes all prior negotiations, correspondence, conversations, agreements, or understandings applicable to the matters contained herein, and the parties agree that there are no commitments, agreements or understandings concerning the subject matter of this agreement that are not contained in this document. Accordingly, it is agreed that no deviation from the terms hereof shall be predicated upon any prior representation or agreements whether oral or written. It is further agreed that no modification, amendment, or alteration in the terms and conditions contained herein shall be effective unless contained in a written document executed with the same formality and of equal dignity herewith.

Attachment A - Executed LFA

13. Any or all notices (except invoices) given or required under this Agreement shall be in writing and either personally delivered with receipt acknowledged or sent by certified mail, return receipt requested. All notices delivered shall be sent to the following addresses:

If to the DEPARTMENT:

Florida Department of Transportation - District Four
3400 West Commercial Blvd.
Fort Lauderdale, Florida 33309-3421
Attn: Leos A. Kennedy, Jr.
With a copy to: Claudia Vinitskiy-Calvo
A second copy to: Office of the General Counsel

If to the PARTICIPANT:

South Florida Water Management District
3301 Gun Club Road
West Palm Beach, Florida 33406
Attn: John Shaffer
With a copy to: Attorney

The remainder of this page is blank.

Attachment A - Executed LFA

IN WITNESS WHEREOF, this Agreement is to be executed by the parties below for the purposes specified herein. Authorization has been given to enter into and execute this Agreement by Resolution No. 2021-0509, hereto attached.

SOUTH FLORIDA WATER
MANAGEMENT DISTRICT

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

By: 
Name: Drew Bartlett
Title: Executive Director

BY: Candida Heater
NAME: CANDIDA HEATER
TITLE: DIVISION DIRECTOR

DocuSigned by:
John Olson
BY: STEVEN C. BRAUN, P.E.
DIRECTOR OF TRANSPORTATION DEVELOPMENT

ATTEST:



Roni Byrd
CLERK (SEAL)

LEGAL REVIEW:

DocuSigned by:
Job Newwood
BY: OFFICE OF THE GENERAL COUNSEL

APPROVED:

APPROVED:

BY: 
ATTORNEY

DocuSigned by:
miro poss
BY: DISTRICT PROGRAM MGMT. ADMINISTRATOR

Attachment A - Executed LFA

Exhibit A

Scope of Services

FM 448136-1: SR-25/US-27 at 27 Miles North of the I-75/US-27 Interchange (Bridge Project)

This project involves the design/ modification of existing SR-25/US-27 northbound & southbound rural median separated roadway section with a posted speed limit of 65 mph to two raised twin-bridge structures B-2 & B-3, shown in attachment A-1. The new bridges will provide a connection between the new Reservoir Inflow-Outflow Canal (to be designed and constructed by others) and the existing North New River Canal running parallel to SR-25/US-27 on the east side. The design of each bridge will consist of two 12-foot-wide travel lanes with 12-foot-wide auxiliary lanes and 10-foot-wide inside and outside shoulders. The bridges will span over a new canal cross section set by Army Corps of Engineers (ACOE) and South Florida Water Management District (SFWMD) criteria. The canal cross section is anticipated to have a bottom width of 55 ft, 1V:2.5H, canal invert at (-) 8 ft NAVD88 design, max WSE within Inflow/Outflow Canal anticipated at 11.4 ft, NAVD88. The roadway typical section will consist of two 12-foot-wide travel lanes with 12-foot-wide auxiliary lanes, 10-foot-wide outside paved shoulders & 4-foot-wide minimum inside paved shoulders in both directions. Pavement reconstruction, milling & resurfacing to transition onto the new structures, and dredge and fill/ earthwork for the new canal cross section are expected. Other design improvements shall include, but not limited to the following: drainage (collection & conveyance systems), longitudinal barriers including guardrails & concrete barrier walls, bridge embankment/MSE retaining wall (as needed), provisions for Wildlife Crossing, signing & pavement marking, and existing utility relocation. Temporary traffic control plans level II is expected including traffic diversions, temporary pavement & drainage, and temporary critical walls.

Attachment A - Executed LFA

ATTACHMENT A-1

BRIDGE LOCATION / ILLUSTRATION

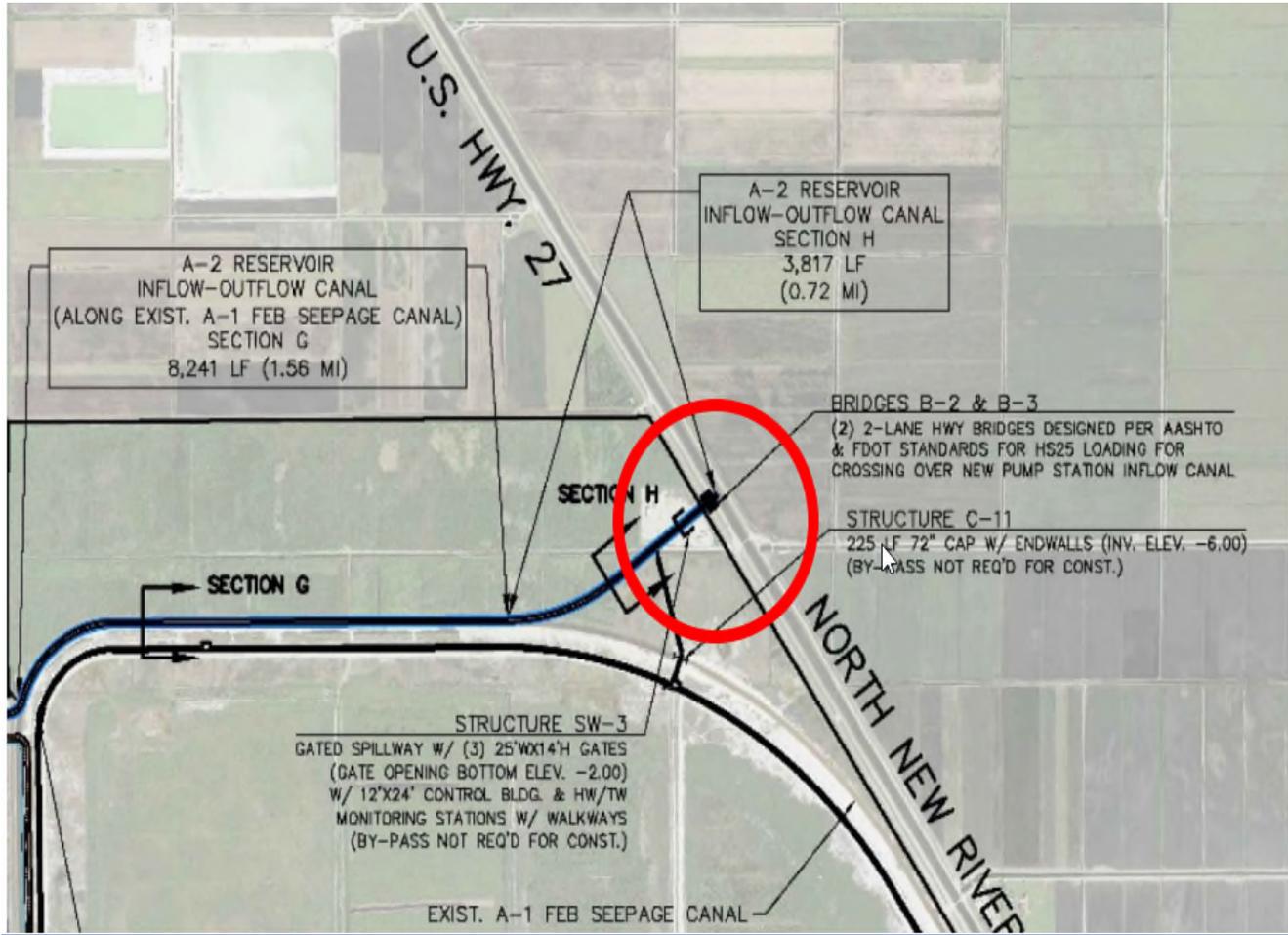
Attachment A - Executed LFA

PROPOSED BRIDGE LOCATION

(B-2 & B-3)

FM # 448136-1-32-01

FM # 448136-1-32-42



Attachment A - Executed LFA

Exhibit B THREE PARTY ESCROW AGREEMENT

THIS AGREEMENT is made and entered into by and between the State of Florida, Department of Transportation ("FDOT"), South Florida Water Management District (SFWMD) ("Participant"), and the State of Florida, Department of Financial Services, Division of Treasury ("Escrow Agent"), and shall become effective upon the Agreement's execution by Escrow Agent.

WHEREAS, FDOT and Participant are engaged in the following project ("Project"):

Project Name: Design of a full set of signed and sealed roadway construction plans for the DEPARTMENT's roadway / bridge construction of SR25/US-27 @ 27 miles North of the I-75/US-27 Interchange
Project #: 448136-1-31-01; 448136-1-32-01; 448136-1-32-42
County: Palm Beach County

WHEREAS, FDOT and Participant desire to establish an escrow account for the project.

NOW THEREFORE, in consideration of the premises and the covenants contained herein, the parties agree to the following:

1. An initial deposit will be made into an interest bearing escrow account established hereunder for the purposes of the Project. The escrow account will be opened with the Escrow Agent on behalf of FDOT upon Escrow Agent's receipt and execution of this Agreement.
2. Other deposits to the escrow account may be made during the life of this Agreement.
3. Deposits will be delivered in accordance with instructions provided by the Escrow Agent to the FDOT for deposit into the escrow account. A wire transfer or ACH deposit is the preferred method of payment and should be used whenever possible.
4. FDOT's Comptroller or designee shall be the sole signatory on the escrow account with the Escrow Agent and shall have sole authority to authorize withdrawals from the account. Withdrawals will only be made to FDOT or the Participant in accordance with the instructions provided to the Escrow Agent by FDOT's Comptroller or designee.
5. Moneys in the escrow account will be invested in accordance with section 17.61, Florida Statutes. The Escrow Agent will invest the moneys expeditiously. Income is only earned on the moneys while invested. There is no guaranteed rate of return. Investments in the escrow account will be assessed a fee in accordance with Section 17.61(4)(b), Florida Statutes. All income of the investments shall accrue to the escrow account.

THIS IS AN EXHIBIT ONLY. NOT FOR EXECUTION!

Attachment A - Executed LFA

6. Unless instructed otherwise by FDOT, all interest accumulated in the escrow account shall remain in the account for the purposes of the Project.
7. The Escrow Agent agrees to provide written confirmation of receipt of funds to FDOT. FDOT agrees to provide a copy of such written confirmation to Participant upon request.
8. The Escrow Agent further agrees to provide quarterly reports to FDOT concerning the escrow account. FDOT agrees to provide a copy of such quarterly reports to Participant upon request.
9. The Escrow Agent shall not be liable for any error of judgment or for any act done or omitted by it in good faith, or for anything which it may in good faith do or refrain from doing in connection herewith.
10. Escrow Agent shall have no liability for any claim, cost, expense, damage or loss due to the acts or omissions of FDOT and Participant, nor from any separate agreements between FDOT and Participant and shall have no responsibility to monitor or enforce any responsibilities herein or in any separate agreements associated with this Agreement between FDOT and Participant.
11. This Agreement shall be governed by and interpreted in accordance with the laws of the State of Florida.
12. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.
13. This Agreement shall terminate upon disbursement by the Escrow Agent of all money held by it in the escrow account in accordance with the instructions given by FDOT's Comptroller or designee and notification from FDOT to Escrow Agent that the account is to be closed.

The remainder of this page is blank.

THIS IS AN EXHIBIT ONLY... NOT FOR EXECUTION

Attachment A - Executed LFA

IN WITNESS WHEREOF, the parties have duly executed the Agreement on the date(s) below.

For FDOT (signature)

For PARTICIPANT (signature)

Name and Title

CANDIDA HEATER
Name

59-3024028
Federal Employer I.D. Number

DIVISION DIRECTOR
Title

Date

F-596-015-290-001
Federal Employer I.D. Number

FDOT Legal Review:

SFWMD Legal Review

For Escrow Agent (signature)

Name and Title

Date

THIS IS AN EXHIBIT ONLY... NOT FOR EXECUTION!

Attachment A - Executed LFA

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2021 - 0509

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into an Agreement with the Florida Department of Transportation (FDOT) to provide financial assistance to FDOT for the development (in-house and consultant design) of a full set of signed and sealed roadway construction plans for FDOT's roadway / bridge construction of SR25/US-27 at 27 miles North of the I-75/US-27 Interchange in Palm Beach County; in amount of \$1,571,865 for which dedicated funds (Land Acquisition Trust Fund) are budgeted in Fiscal Year 2020-2021; providing an effective date. (Contract No. 4600004411)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to enter into a Local Funding Agreement (LFA) with FDOT to fund the design for reconstruction of a portion of US Hwy 27 as two parallel bridges over the A-2 STA & Reservoir Inflow-Outflow (I-O) Canal.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes entering in an agreement with FDOT. (Contract No. 4600004411)

Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and **ADOPTED** this 13th day of May, 2021.



Attest:

[Signature]
District Clerk/Secretary

SOUTH FLORIDA WATER MANAGEMENT DISTRICT, BY ITS GOVERNING BOARD
By:

[Signature]

Chauncey P. Goss, II
Chairman

Legal form approved:

By:

[Signature]

Office of Counsel

Print name:

Frank Mendez

Attachment A - Executed LFA

Kennedy, Leos

Subject: Program Management Administrator Update / Responsible Charge

From: Braun, Steve <Steve.Braun@dot.state.fl.us>

Sent: Thursday, May 27, 2021 10:47 AM

To: D4-MC <D4-MC@dot.state.fl.us>; D4-Program Management <D4-Program_Management@dot.state.fl.us>; Bostian, Robert <Robert.Bostian@dot.state.fl.us>; Sonnett, Anson <Anson.Sonnett@dot.state.fl.us>

Cc: Chanel, Alia <Alia.Chanel@dot.state.fl.us>; LaHue, Ann <Ann.LaHue@dot.state.fl.us>; Von Behren, Nicole <Nicole.VonBehren@dot.state.fl.us>; Salazar, Claudia <Claudia.Salazar@dot.state.fl.us>; Godfrey-Baker, Monifa <Monifa.Godfrey-Baker@dot.state.fl.us>

Subject: Program Management Administrator Update / Responsible Charge

The District Program Management Administrator is currently advertised (position [55008017](#)). I will be moving forward with filling the position over the coming weeks. During this transition period responsible charge with signature authority for Program Management will be as follows:

- Miro Poss: [May 27 through June 4, 2021](#)
- Mark Madgar: [June 7 through June 11, 2021](#)
- Yuanet Letzelter: [June 14 through June 18, 2021](#)
- Sabrina Aubery: [June 21 through June 25, 2021](#)

Please afford Miro, Mark, Yuanet and Sabrina your usual cooperation and courtesy.

Thanks,
Steve

Steven C. Braun, P.E.
Director of Transportation Development
FDOT - District Four
steve.braun@dot.state.fl.us
Office: (954) 777-4143
Cell: (954) 303-9192

Attachment A - Executed LFA

Kennedy, Leos

From: Wetherell, Leslie
Sent: Wednesday, June 2, 2021 7:55 AM
To: Aubery, Sabrina; Poss, Miro; Madgar, Mark; Letzelter, Yuanet; Lucas, Julie; D4-PA
Subject: Steve Braun: Responsible Charge - Transportation Development

FYI

L. Wetherell
Program Management
(954) 777-4438
(954) 789-1421 (cell)

From: LaHue, Ann <Ann.LaHue@dot.state.fl.us> **On Behalf Of** Braun, Steve
Sent: Tuesday, June 1, 2021 2:51 PM
To: D4-MC <D4-MC@dot.state.fl.us>
Cc: Godfrey-Baker, Monifa <Monifa.Godfrey-Baker@dot.state.fl.us>; Bostian, Robert <Robert.Bostian@dot.state.fl.us>; Peterson, Scott <Scott.Peterson@dot.state.fl.us>
Subject: Responsible Charge - Transportation Development

While I am out of the office Wednesday, June 2 through Friday, June 4, 2021 John Olson will be in responsible charge and have my full signature authority.

Please afford John your usual courtesy and cooperation.

Steven C. Braun, P.E.
Director of Transportation Development
FDOT – District Four
3400 West Commercial Blvd.
Fort Lauderdale, FL 33309
Steve.braun@dot.state.fl.us
Office: (954) 777-4143
Cell: (954) 303-9192

EXHIBIT "A"
SCOPE OF SERVICES
Contract No. CAF38
Supplemental Agreement No. 5
FPID 448136-52-01

1.0 BACKGROUND

The CONSULTANT was retained by the Department to provide design services for the *SR25/US-27 at 27 miles north of the I-75/US-27 Interchange* project in accordance with the Scope of Services. This supplement addresses:

- The SFWMD request for a 2D hydraulic model of the new I/O canal for scour analysis beyond what was previously delivered.
- The SFWMD significant truck traffic that will be entering the traffic control construction area north and south of bridge while the bridge construction occurs. This change was revealed following the Constructability Review creating the need to redesign the TTCP.
- Additional geotechnical and structural services have been added to adjust design to mitigate the soil conditions previously found.

2.0 PURPOSE/SCOPE is to perform the following services outside the scope of original work:

1. Redesign of the Temporary Traffic Control Plan following a request from SFWMD to accommodate their additional traffic created by the EAA Construction Village driveway to the north of the proposed canal bridge.
2. Prepare temporary critical wall plans to accommodate the added lane of traffic anticipated for acceleration of SFWMD trucks entering/exit the EAA site.
3. Prepare a two-dimensional hydraulic model for the I/O and North New River Canal connection.
4. Prepare an MSP to accommodate SFWMD RIP-RAP specifications.
5. Provide geotechnical engineering services for the following services:
 - a. Provide recommendations for new post and panel wall at each approach next to the North New River Canal
 - i. WALL: Assumes wall length at each approach along the canal is 300' long for total wall footage of 600' (from 678+56.42 to 681+56.42 and from 684+04.92 to 687+04.92). Perform 4 SPT borings to depths of up to 40 feet below ground surface and reusing 2 bridge borings (BB-682R-1R and BB-684R-4R) for the analysis of the walls. Assumes at maximum wall height the bridge boring will be used. Wall boring spacing of 150 LF was assumed.
 - b. Provide engineering services for the evaluation for additional piling assuming 100% PDA testing.
 - i. BRIDGE: Regarding the bridge structures, additional piling will be added and assuming 100% dynamic testing. Additional geotechnical evaluation will be required, but additional deeper borings will not be required.
 - c. Muck delineation at west toe of the existing embankment.
 - i. ROADWAY: Regarding the additional roadway borings, the purpose is to further delineate the lateral and vertical extent of the organic and plastic material encountered in borings DRI-671L and DRI-688L along the western portion of the site. These 2 hand augers were performed at the toe of the existing embankment and within the control line of the proposed embankment. The remainder of the existing borings on the west side were performed at the top of the existing embankment and did not encounter this material. The roadway borings

top of the existing embankment and did not encounter this material. The roadway borings will be performed to a depth of 10 ft from Sta. 671+00 to Sta. 688+00. Roadway boring spacing of 1000 LF is assumed.

6. Provide post and panel wall design including credit of cantilevered wall design.
7. Provide TTC for geotechnical field work.
8. Readdiction of the temporary critical wall previously removed. TTCP redesign will add a lane NB through the work zone. The added lane decreases the distance from the temporary edge of travel to the temporary retaining wall. This wall now becomes a temporary critical wall and requires EOR design.

3.0 Schedule

1. The production date is not expected to be impacted.
2. The additional analysis and results per this supplement will be included in the biddability phase submittal.

4.0 Deliverable

1. Revised TTCP plans.
2. A modified special provision to accommodate SFWMD RIP-RAP specifications.
3. An updated Geotechnical Report.
4. Miscellaneous structures plan (post and panel wall) and associated analysis.
5. Miscellaneous structures plan (temporary critical wall) and associated analysis.

Project Information Sheet

Name of Consultant:

HNTB

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)
448136-1-32-01

Activity No.	Activity	Project Staff Hours												Total Hours
		HNTB	AREHNA	ASA	KEITH & Associates	Miller Legg & Associates	ACME Barricades	MOT Plans						
3	Project Common and General Tasks	0												0
4	Roadway Analysis	346												346
5	Roadway Plans	200												200
6a	Drainage Analysis	187												187
6b	Drainage Plans	0												0
7	Utilities	0												0
8	Env. Permits and Env. Clearances	0												0
9	Structures - Summary, Misc. Tasks, Dwgs.	0		32										32
10	BDR	0												0
11	Temporary Bridge	0												0
12	Short Span Concrete Bridge	0												0
13	Medium Span Concrete Bridge	0												0
14	Structural Steel Bridge	0												0
15	Segmental Concrete Bridge	0												0
16	Movable Span	0												0
17	Retaining Walls	167		192										359
18	Miscellaneous Structures	0												0
19	Signing & Pavement Marking Analysis	0												0
20	Signing & Pavement Marking Plans	0												0
21	Signalization Analysis	0												0
22	Signalization Plans	0												0
23	Lighting Analysis	0												0
24	Lighting Plans	0												0
25	Landscape Analysis	0												0
26	Landscape Plans	0												0
27	Survey - Field and Office Support	0												0
28	Photogrammetry	0												0
29	Mapping	0												0
30	Terrestrial Mobile LiDAR	0												0
31	Architecture Development	0												0
32	Noise Barriers Impact Design Assessment	0												0
33	ITS Analysis	0												0
34	ITS Plans	0												0
35	Geotechnical	0	194											194
36	3D Modeling	0												0
	Project Total	900	194	224	0	0	0	0	0	0	0	0	0	1,318
27	Survey Field Crew Days	0												0

- Notes: 1. Staff hours for prime consultant come directly from each discipline's worksheet.
 2. Staff hours for subconsultants are to be entered manually into columns D through O.
 3. For workbooks prepared by subconsultants, their project hours will be totaled in column C.

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT - HNTB

Name of Project: SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)
 County: Palm Beach
 FPN: 448136-1-32-01
 FAP No.: NA

Consultant Name: HNTB
 Consultant No.: 79636
 Date: 3/12/2024
 Estimator: Kyle Cheerangie, PE

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Project Manager 1 (Home)	Chief Engineer 2 (Home)	Chief Engineer 1 (Home)	Senior Engineer 2 (Home)	Senior Engineer 1 (Home)	Engineer 2 (Home)	Engineer 1 (Home)	Designer (Home)	Chief Designer (Home)	Senior Environmental Specialist (Home)	Engineering Intern (Home)	Secretary / Clerical (Home)	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$189.97	\$260.84	\$269.12	\$248.84	\$203.41	\$187.74	\$136.92	\$113.31	\$157.05	\$137.31	\$104.20	\$82.57			
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	346	21	0	10	135	0	10	0	67	7	0	96	0	346	\$60,846	\$175.85
5. Roadway Plans	200	12	0	6	12	0	6	16	52	13	0	83	0	200	\$26,780	\$133.90
6a. Drainage Analysis	187	11	0	6	54	19	9	0	14	50	0	24	0	187	\$34,636	\$185.22
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, and Env. Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	167	0	0	5	0	16	16	0	0	82	0	48	0	167	\$25,484	\$152.60
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	900	44	0	27	201	35	41	16	133	152	0	251	0	900		
Total Staff Cost		\$8,358.68	\$0.00	\$7,266.24	\$50,016.84	\$7,119.35	\$7,697.34	\$2,190.72	\$15,070.23	\$23,871.60	\$0.00	\$26,154.20	\$0.00		\$147,745.20	\$164.16

Check = \$147,745.20

0 Survey Field Days by Subconsultant
4 - Person Crew:

Notes:
1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.

2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

SALARY RELATED COSTS:				\$147,745.20
OVERHEAD:				\$0.00
OPERATING MARGIN:				\$0.00
FCCM (Facilities Capital Cost Money):				\$0.00
EXPENSES:				\$0.00
Survey (Field - if by Prime)	0	4-person crew days @	\$ - / day	\$0.00
SUBTOTAL ESTIMATED FEE:				\$147,745.20
Subconsultant: AREHNA				\$37,270.17
Subconsultant: ASA				\$38,764.14
Subconsultant: KEITH & Associates				\$0.00
Subconsultant: Miller Legg & Associates				\$0.00
Subconsultant: ACME Barricades				\$6,050.00
Subconsultant: LE Security				\$2,250.00
SUBTOTAL ESTIMATED FEE:				\$229,829.51
Permit Fee				\$0.00
SUBTOTAL ESTIMATED FEE:				\$229,829.51
Optional Services				\$0.00
GRAND TOTAL ESTIMATED FEE:				\$229,829.51

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)
 County: Palm Beach
 FPN: 448136-1-32-01
 FAP No.: 1/0/1900

Consultant Name: HNTB / Arehna Engineering, Inc.
 Consultant No.: enter consultants proj. number
 Date: 3/12/2024
 Estimator: insert name

Staff Classification	Total Staff Hours From "SH Summary Firm"	Project Manager (Home)	MAT CADD/ Computer Technician (Home)	MAT Engineer (Home)	MAT Engineer Intern (Home)	MAT Engineering Technician (Home)	MAT Principal Engineer (Home)	MAT Secretary/ Clerical (Home)	MAT Senior Engineer (Home)	MAT Senior Engineering Technician (Home)	0	0	0	SH	Salary	Average
											0	0	0	By Activity	Cost By Activity	Rate Per Task
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	194	0	19	56	60	0	16	0	28	15	0	0	0	194	\$23,527	\$121.27
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	194	0	19	56	60	0	16	0	28	15	0	0	0	194		
Total Staff Cost		\$0.00	\$1,749.14	\$7,097.44	\$5,080.80	\$0.00	\$3,458.88	\$0.00	\$4,844.28	\$1,296.00	\$0.00	\$0.00	\$0.00		\$23,526.54	\$121.27

Check = \$23,526.54

Notes:
 1. This sheet to be used by Subconsultant to calculate its fee.

SALARY RELATED COSTS:		\$23,526.54
OVERHEAD:	0.00%	\$0.00
OPERATING MARGIN:	0.00%	\$0.00
FCCM (Facilities Capital Cost Money):	0.000%	\$0.00
EXPENSES:	0.00%	\$0.00
SUBTOTAL ESTIMATED FEE:		\$23,526.54
Survey (Field) 0 4-person crew \$ - / day		\$0.00
Geotechnical Field and Lab Testing		\$13,743.63
SUBTOTAL ESTIMATED FEE:		\$37,270.17
Optional Services		\$0.00
GRAND TOTAL ESTIMATED FEE:		\$37,270.17

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)
 County: Palm Beach
 FPN: 448136-1-32-01
 FAP No.:

Consultant Name: ASA
 Consultant No.: enter consultants proj. number
 Date: 3/12/2024
 Estimator: insert name

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Chief Engineer 2 (Home)	Chief Eng. 1 (Home)	Sr. Engineer 2 (Home)	Engineer 2 (Home)	Engineer 1 (Home)	Senior Designer (Home)	Chief Designer (Home)	Sr. Eng. Technician (Home)	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$241.77	\$240.15	\$228.96	\$184.98	\$153.89	\$123.32	\$123.32	\$113.59	\$0.00	\$0.00	\$0.00	\$0.00			
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, and Env. Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	32	2	6	5	3	0	8	8	0	0	0	0	0	32	\$5,597	\$174.92
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	192.0	10	38	29	19	0	0	58	38	0	0	0	0	192	\$33,167	\$172.74
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	224	12	44	34	22	0	8	66	38	0	0	0	0	224		
Total Staff Cost		\$2,901.24	\$10,566.60	\$7,784.64	\$4,069.56	\$0.00	\$986.56	\$8,139.12	\$4,316.42	\$0.00	\$0.00	\$0.00	\$0.00		\$38,764.14	\$173.05

Check = \$38,764.14

Survey Field Days by Subconsultant
 4 - Person Crew:

Notes:
 1. This sheet to be used by the Subconsultant to calculate the Grand Total fee.

PE= 50% NO PE= 50%

SALARY RELATED COSTS:				\$38,764.14
OVERHEAD:				\$0.00
OPERATING MARGIN:				\$0.00
FCCM (Facilities Capital Cost Money):				\$0.00
EXPENSES:				\$0.00
Survey (Field - if by Prime)	1	4-person crew days @	\$ - / day	\$0.00
SUBTOTAL ESTIMATED FEE:				\$38,764.14
Subconsultant: Enter Name Sub 1				\$0.00
SUBTOTAL ESTIMATED FEE:				\$38,764.14
Geotechnical Field and Lab Testing				\$0.00
SUBTOTAL ESTIMATED FEE:				\$38,764.14
Optional Services				\$0.00
GRAND TOTAL ESTIMATED FEE:				\$38,764.14

Estimator: Kyle Cheerangie, PE

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)



448136-1-32-01

Representing	Print Name	Signature / Date
FDOT District 4		
HNTB		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	0	0	0
4.2	Pavement Type Selection Report	LS	1	0	0	NA
4.3	Pavement Design Package	LS	1	0	0	0
4.4	Cross-Slope Correction	LS	1	0	0	NA
4.5	Horizontal /Vertical Master Design Files	LS	1	0	0	0
4.6	Access Management	LS	1	0	0	NA
4.7	Roundabout Evaluation	LS	1	0	0	NA
4.8	Roundabout Final Design Analysis	LS	1	0	0	NA
4.9	Cross Section Design Files	LS	1	0	0	
4.10	Temporary Traffic Control Plan Analysis	LS	1	110	110	<p>Range Level II 40-160 hrs+ Cross sections: Analysis and development of TTCP cross sections, including any temporary profiles, criteria development, etc. (LS) 40-80 hours per mile per phase based on 100 ft. cross section spacing.: 20 hrs. for redevelopment of MOT Concept + Redo of cross sections for crossovers (1 miles X 40 hrs/mile)X 4 phases = 180 hrs, 5 ft elevation difference between phase 1 and 3 requires profiles and 3D modeling for quantities, earthwork. Also reverse curve and cross slope transition for diversion of traffic to one side at a time. Includes temporary overlay/overbuild as needed for cross slope transitions thru curves.</p> <p>110 Hours Total - Post FDOT Negotiations</p>
4.11	Master TTCP Design Files	LS	1	90	90	<p>Range Level II 32-48 hrs/mainline mile/phase: 20 hrs for redesign of alignments and temporary geometry (horizontal/vertical) X 1.5 miles X 4 phases = 120 hrs (Department directed to use WZ length of 1.5 miles for basis calculations).</p> <p>90 Hours Total - Post FDOT Negotiations</p>
4.12a	Selective Clearing and Grubbing of Existing VegetationField Assessment	LS	1	0	0	
4.12b	Selective Clearing and Grubbing Site Inventory of Existing Vegetation and Cross-Discipline Coordination (OPTIONAL SERVICES)	LS	1	0	0	
4.12c	Selective Clearing and Grubbing- Existing Vegetation Maintenance Report	LS	1	0	0	
4.13	Tree Disposition Plan	LS	1	0	0	
4.14	Design Variations and Exceptions	LS	1	0	0	0
4.15	Design Report	LS	1	0	0	0
4.16	Quantities for EQ Report	LS	1	85	85	Redo of TTCP quantities: 7,920/1500 X 4 phases X 4 hours = 85 hrs
4.17	Cost Estimate	LS	1	0	0	0
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	12	12	Spec prepared to provide for SFWMD Riprap requirements
4.19	Other Roadway Analyses	LS	1	0	0	

Project Information Sheet

Estimator: Kyle Cheerangie, PE

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)

HNTB

448136-1-32-01

Representing	Print Name	Signature / Date
FDOT District 4		
HNTB		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway Analysis Technical Subtotal					297	

Estimator: Kyle Cheerangie, PE

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)



448136-1-32-01

Representing	Print Name	Signature / Date
FDOT District 4		
HNTB		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	1	0	0	0
4.21	Monitor Existing Structures	LS	1	0	0	0
4.22	Technical Meetings	LS	1	9	9	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	5%	15	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	15	
Roadway Analysis Nontechnical Subtotal					39	
4.26	Coordination	LS	%	3%	10	
4. Roadway Analysis Total					346	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Typical Section	EA	0	0	0	0		0
Pavement	EA	0	0	0	0		0
Access Management	EA	0	0	0	0		0
15% Line and Grade	EA	0	0	0	0		0
Driveways	EA	0	0	0	0		0
Local Governments (cities, counties, MPO)	EA	0	0	0	0		0
Work Zone Traffic Control	EA	3	3	9	2 virtual meetings with SFWMD and 1 meeting with FDOT Construction x 3 HNTB Attendees (PM, EOR and Advisor) = (2+1 meetings/attendee) x 1hr/meeting x 3 attendees = 9 hours		0
30/60/90/100% Comment Review Meetings	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings				9		Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>		--
Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>		--
Total Meetings				9	Total Project Manager Meetings (carries to Tab 3)		0

Carries to 4.22

Carries to Tab 3

Project Information Sheet

Estimator:

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)

HNTB

448136-1-32-01

Representing	Print Name	Signature / Date
FDOT District 4		
HNTB		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	0		0	
5.2	Typical Section Sheets						
5.2.1	Typical Sections		EA	0	0	0	
5.2.2	Typical Section Details		EA	0	0	0	
5.3	General Notes/Pay Item Notes		Sheet	0	0	0	
5.4	Project Layout		Sheet	0	0	0	
5.5	Plan/Profile Sheet		Sheet	0	0	0	
5.6	Profile Sheet		Sheet	1	0	0	
5.7	Plan Sheet		Sheet	0	0	0	
5.8	Special Profile		Sheet	0	0	0	
5.9	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	
5.10	Interchange Layout Sheet		Sheet	0	0	0	
5.11	Ramp Terminal Details (Plan View)		Sheet	0	0	0	
5.12	Intersection Layout Details		Sheet	0	0	0	
5.13	Special Details		EA	0	0	0	
5.14	Cross-Section Pattern Sheets		Sheet	0	0	0	NA
5.15	Roadway Soil Survey Sheets		Sheet	0	0	0	Provide by Geotechnical
5.16	Cross Sections		EA	0	0	0	

Estimator:

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)

HNTB

448136-1-32-01

Representing	Print Name	Signature / Date
FDOT District 4		
HNTB		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.17	Temporary Traffic Control Plan Sheets		Sheet	42	2.43	102	<p>Range 2 to 6 hrs/sheet: (Department directed to use 1.5 miles for length of work)</p> <p>Diversion = 7 sheets</p> <p>Plan: 7 sheets X 4 phases = 28 sheets</p> <p>Profile: 7 sheets X 2 phases = 14 sheets</p> <p>102 Hours Total - Post FDOT Negotiations</p>
5.18	Temporary Traffic Control Cross Section Sheets		EA	168	0.476	80	<p>Range 0.25 to 0.5 hrs/XS:</p> <p>Temporary alignment = 4500ft Phase 1 and 3900ft Phase 2 = 8400 ft / 50ft per XS = 168 XSs</p> <p>80 Hours Total - Post FDOT Negotiations</p>
5.19	Temporary Traffic Control Detail Sheets		Sheet	0	0	0	Detail sheets covered in previous contract.
5.20	Utility Adjustment Sheets		Sheet	0	0	0	
5.21	Selective Clearing and Grubbing Sheets						
5.21.1	Selective Clearing and Grubbing		Sheet	0	0	0	
5.21.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	
5.22	Tree Disposition Sheets						
5.22.1	Tree Disposition Plan Sheets		Sheet	0	0	0	
5.22.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	
5.23	Project Control Sheets		Sheet	0	0	0	
5.24	Environmental Detail Sheets		Sheet	0	0	0	
5.25	Utility Verification Sheets (SUE Data)		Sheet	0	0	0	
Roadway Plans Technical Subtotal						182	
5.26	Quality Assurance/Quality Control		LS	%	5%	9	
5.27	Supervision		LS	%	5%	9	
5. Roadway Plans Total						200	

Estimator:

HNTB

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)

448136-1-32-01

Representing	Print Name	Signature / Date
FDOT District 4		
HNTB		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.1	Drainage Map Hydrology	Per Map	0	0	0	
6a.2	Base Clearance Calculations	Per Location	0	0	0	
6a.3	Pond Siting Analysis and Report	Per Basin	0	0	0	
6a.4	Design of Cross Drains	EA	0	0	0	
6a.5	Design of Ditches	Per Ditch Mile	0	0	0	
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	0	0	0	
6a.7	Design of Stormwater Management Facility (Roadside Treatment Swales and Linear Ponds)	Per Cell	0	0	0	
6a.8	Design of Floodplain Compensation	Per Floodplain Basin	0	0	0	
6a.9	Design of Storm Drains	EA	0	0	0	
6a.10	Optional Culvert Material	EA	0	0	0	
6a.11	French Drain Systems	Per Cell	0	0	0	
6a.11.1	Existing French Drain Systems	Per Cell	0	0	0	
6a.12	Drainage Wells	EA	0	0	0	
6a.13	Drainage Design Documentation Report	LS	1	0	0	
6a.14	Bridge Hydraulic Report	EA	1	160	160	Perform a two-dimensional analysis of the canal connections between I/O and North New River to supplement the previously developed reporting at the request of SFWMD.
6a.15	Temporary Drainage Analysis	LS	1	0	0	
6a.16	Quantities for EQ Report	LS	1	0	0	
6a.17	Cost Estimate	LS	1	0	0	
6a.18	Technical Special Provisions / Modified Special Provisions	LS	1	0	0	
6a.19	Hydroplaning Analysis	LS	1	0	0	
6a.20	Existing Permit Analysis	LS	1	0	0	
6a.21	Other Drainage Analysis	LS	1	0	0	
6a.22	Noise Barrier Evaluation	LS	1	0	0	
Drainage Analysis Technical Subtotal					160	
6a.23	Field Reviews	LS	1	0	0	
6a.24	Technical Meetings	LS	1	6	6	Meetings are listed below
6a.25	Environmental Look-Around (ELA) Meeting	LS	1	0	0	
6a.26	Quality Assurance/Quality Control	LS	%	5%	8	
6a.27	Independent Peer Review	LS	%	0%	0	
6a.28	Supervision	LS	%	5%	8	
Drainage Analysis Nontechnical Subtotal					22	
6a.29	Coordination	LS	%	3%	5	
6a. Drainage Analysis Total					187	

Project Information Sheet

Estimator:

HNTB

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)

448136-1-32-01

Representing	Print Name	Signature / Date
FDOT District 4		
HNTB		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
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Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	0	0	0			0
Pond Siting	EA	0	0	0			0
Agency (SFWMD)	EA	2	3	6	2 virtual meetings with SFWMD x 3 HNTB Attendees (PM, EOR and Hydraulic Modeler) = (2 meetings/attendee) x 1hr/meeting x 3 attendees = 6 hours		
Local Governments (cities, counties)	EA	0	0	0			0
FDOT Drainage	EA	0	0	0			0
Other Meetings	EA	0	0	0		yes	1
Subtotal Technical Meetings				6			1
Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>		--
Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>		--
Total Meetings				6	Total Project Manager Meetings (carries to Tab 3)		1

Carries to 6a.24

Carries to Tab 3

Estimator: Osmany Alfonso, PE

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)

448136-1-32-01

HNTB

Representing	Print Name	Signature / Date
FDOT District 4		
HNTB Corporation		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	Design and Production Staffhours				Design and Production Staffhours				Comments		
			No. of Units	Hours per Unit	No. of Sheets	HNTB Total	No. of Units	Hours per Unit	No. of Sheets	HNTB Total			
General Drawings				0	0								
9.1	Key Sheet and Index of Drawings	Sheet	0	0	0	0	0	0	0	0			
9.2	Project Layout	Sheet	0	0	0	0	0	0	0	0			
9.3	General Notes and Bid Item Notes	Sheet	0	0	0	0	0	0	0	0			
9.4	Miscellaneous Common Details	Sheet	0	0	0	0	0	0	0	0			
9.5	Incorporate Report of Core Borings	Sheet	1	0	0	0	0	0	0	0			
9.6	Standard Plans- Bridges	LS	1	0	0	0	1	0	0	0			
9.7	Existing Bridge Plans	LS	1	0	0	0	1	0	0	0			
9.8	Quantities for EQ Report	LS	1	0	0	0	1	0	0	0			
9.9	Cost Estimate	LS	1	0	0	0	1	0	0	0			
9.10	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	0	1	0	0	0	<i>Not anticipated at this point.</i>		
Structures - Summary and Miscellaneous Tasks and					0	0			0	0			
Task No.	Task	HNTB Total	ASA Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	HNTB Task 17	ASA Task 17	Task 18
10-16	Bridge 1	0	0	0	0	0	0	0	0	0			
10-16	Bridge 2	0	0	0									
10-16	Bridge 3	0	0										
10-16	Bridge 4	0	0										
10-16	Bridge 5	0	0	0		0							
10-16	Bridge 6	0	0										
10-16	Bridge 7	0	0										
10-16	Bridge 8	0	0										
10-16	Bridge 9	0	0										
10-16	Bridge 10	0	0										
17	Retaining Walls	167	192								167	192	
18	Miscellaneous Structures	0	0										0
Structures Technical Subtotal		167	192	0	0	0	0	0	0	0	167	192	0
Task No.	Task	Units	No. of Units	Hours per Unit	HNTB Total	No. of Units	Hours per Unit	ASA Total	Comments				
9.11	Field Reviews	LS	1	0	0	1	0	0	0				
9.12	Technical Meetings	LS	1	0	0	1	2	2	Meetings are listed below				
9.13	Quality Assurance/Quality Control	LS	%	5%	8	%	5%	10					
9.14	Independent Peer Review	LS	1	0	0	1	0	0	N/A				
9.15	Supervision	LS	%	5%	8	%	5%	10					
Structures Nontechnical Subtotal					16			22					
9.16	Coordination	LS	1	0	0	1	16	10					
9. Structures - Summary and Miscellaneous Tasks and Drawings Nontechnical and Coordination Total					16			32					

Estimator: Osmany Alfonso, PE

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)

448136-1-32-01

HNTB

Representing	Print Name	Signature / Date
FDOT District 4		
HNTB Corporation		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	Design and Production Staffhours				Design and Production Staffhours				Comments
			No. of Units	Hours per Unit	No. of Sheets	HNTB Total	No. of Units	Hours per Unit	No. of Sheets	HNTB Total	

Technical Meetings	Units	No of Units	Hours/ Unit	HNTB Hours	No of Units	Hours/ Unit	ASA Hours	Comments	PM Attendance at Meeting Required?	Number
BDR Coordination/Review	EA	1	0	0	0		0	2 engineers @ 2 hrs. = 4 hrs.	No	0
90/100% Comment Review	EA	1	0	0	0	0	0	2 engineers @ 2 hrs. = 4 hrs.	No	0
Aesthetics Coordination	EA	0	0	0	0	0	0			0
Regulatory Agency	EA	0	0	0	0	0	0	0	no	0
Local Governments (cities, counties)	EA	0	0	0	0	0	0			0
Utility Companies	EA	0	0	0	0	0	0			0
Other Meetings	EA	0	0	0	1	2	2			0
Subtotal Technical Meetings				0			2			0
Progress Meetings (if required by FDOT)	EA	0	0	0	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>		- -
Phase Review Meetings	EA	0	0	0	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>		- -
Total Meetings				0			2	Total Project Manager Meetings (carries to Tab 3)		0

Carries to 9.12

Carries to Tab 3

Estimator: Osmany Alfonso, PE

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)

448136-1-32-01



Representing	Print Name	Signature / Date
FDOT District 4		
HNTB Corporation		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	HNTB Hours	No. of Units	Hours/ Unit	No. of Sheets	ASA Hours	Comments
General Requirements											
17.1	Key Sheet	Sheet	1	4	4	Tasks 35.1	0	0	0	0	N/A
17.2	Horizontal Wall Geometry	Per Wall	2	6		12	3	6		12.8	Original: 24 hours (4 walls at 6 hours) – 50% complete, 12 hour credit SA # 3: 24 hours (2 walls at 12 hours – wall geometry plus coordination of details with end bent tie-in). SA # 5: Added hours for post and panel wall design based on investigated goetech conditions. SA #5 Reintroduce the temporary critical wall design. Previously a 70% credit was returned which is now added back into the contract for this scope.
Permanent Proprietary Walls											
17.3	Vertical Wall Geometry	Per Wall	0	0		0	0	0		0	
17.4	Semi-Standard Drawings	Sheet	0	0	0	0	0	0	0	0	N/A
17.5	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	0	0	0	0	N/A
17.6	Details	Sheet	0	0	0	0	0	0	0	0	N/A
Temporary Proprietary Walls											
17.7	Vertical Wall Geometry	Per Wall	0	0		0	0	0		0	N/A
17.8	Semi-Standard Drawings	Sheet	0	0	0	0	0	0	0	0	N/A
17.9	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	0	0	0	0	N/A
17.10	Details	Sheet	0	0	0	0	0	0	0	0	N/A

Estimator: Osmany Alfonso, PE

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)

448136-1-32-01

HNTB

Representing	Print Name	Signature / Date
FDOT District 4		
HNTB Corporation		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	HNTB Hours	No. of Units	Hours/ Unit	No. of Sheets	ASA Hours	Comments
Cast-in-Place Retaining Walls											
17.11	Design	EA Design	4	6.75		27	0	0		0	Original: 24 hours (2 designs at 12 hours) – 10% complete, 21 hour credit SA # 3: 48 hours (4 designs at 12 hours – assuming two designs per wall with varying geotech) SA # 5: Added hours for post and panel wall design based on investigated geotech conditions.
17.12	Vertical Wall Geometry	EA Wall	2	8		16	0	0		0	Original: 32 hours (2 walls at 16 hours) – 50% complete, 16 hour credit SA # 3: 32 hours (2 walls at 16 hours) SA # 5: Added hours for post and panel wall design based on investigated geotech conditions.
17.13	General Notes	Sheet	2	14	2	28	0	0	0	0	Original: 8 hours – 50% complete, 4 hour credit SA # 3: 32 hours (2 sheets at 16 hours – Precast panel wall notes and wall pile data tables) SA # 5: Added hours for post and panel wall design based on investigated geotech conditions.
17.14	Wall Plan and Elevations (Control Drawings)	Sheet	2	12	2	24	0	0	0	0	Original: 16 hours (2 sheets at 8 hours) – 50% complete, 8 hour credit SA # 3: 32 hours (2 sheets at 16 hours – revise plan and elevation views for new wall type) SA # 5: Added hours for post and panel wall design based on investigated geotech conditions.
17.15	Sections and Details	Sheet	2	24	2	48	0	0	0	0	Original: 0 hours SA # 3: 48 hours (2 sheets at 24 hours – wall panel details and pile cap details) SA # 5: Added hours for post and panel wall design based on investigated geotech conditions.
17.16	Reinforcing Bar List	Sheet	1	12	1	12	0	0	0	0	Original: 0 hours SA # 3: 12 hours (1 sheet at 12 hours – assuming variable height panels requiring varying reinforcing) SA # 5: Added hours for post and panel wall design based on investigated geotech conditions.
Other Retaining Walls and Bulkheads											
17.17	Design	EA Design	0	0		0	1	32		22.4	SA #5 Reintroduce the temporary critical wall design. Previously a 70% credit was returned which is now added back into the contract for this scope.
17.18	Vertical Wall Geometry	EA Wall	0	0		0	3	8		16.8	SA #5 Reintroduce the temporary critical wall design. Previously a 70% credit was returned which is now added back into the contract for this scope.
17.19	General Notes, Tables and Misc. Details	Sheet	0	0	0	0	1	20	1	20	SA #5 Reintroduce the temporary critical wall design. Previously a 70% credit was returned which is now added back into the contract for this scope.
17.20	Wall Plan and Elevations	Sheet	0	0	0	0	3	24	3	72	SA #5 Reintroduce the temporary critical wall design. Previously a 70% credit was returned which is now added back into the contract for this scope.
17.21	Details	Sheet	0	0	0	0	2	24	2	48	SA #5 Reintroduce the temporary critical wall design. Previously a 70% credit was returned which is now added back into the contract for this scope.
17. Structures - Retaining Walls Total					11	167			6	192	

Estimator: Angela Alba, PE

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)

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Representing	Print Name	Signature / Date
FDOT District	4	
Consultant Name	A. Alba/ AREHNA	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway						
35.1	Document Collection and Review	LS	1	4	4	Tasks 35.1 through 35.26 are not applicable
35.2	Develop Detailed Boring Location Plan	LS	1	1	1	Provide geotechnical engineering services for proposed muck delineation along 1700 LF of SR 25/US 27. Our scope of work is shown in Table 1A.
35.3	Stake Borings/Utility Clearance	Boring	17	0.35	6	See Tables 1A and 1B for no. of borings and tests assumed.
35.4	Muck Probing	Crew Day	0	0	0	Not applicable
35.5	Coordinate and Develop MOT Plans for Field Investigation	EA	1	4	4	
35.6	Drilling Access Permits	Location	0	8	0	Not applicable
35.7	Property Clearances	EA	0	0	0	Not applicable
35.8	Groundwater Monitoring	EA	0	0	0	Not applicable
35.9	LBR/Resilient Modulus Sampling	EA	0	0	0	Not applicable
35.10	Coordination of Field Work	100 lf of boring	1.7	0.75	1	
35.11	Soil and Rock Classification - Roadway	100 lf of boring	1.7	2.25	4	
35.12	Design LBR	LS	0	0	0	Not applicable
35.13	Laboratory Data	100 lf of boring	1.7	0.75	1	
35.14	Seasonal High Water Table	Boring	0	0.5	0	Not applicable
35.15	Parameters for Water Retention Areas	EA	0	2	0	Not applicable
35.16	Delineate Limits of Unsuitable Material	Cross-section	15	0.7	10	Assuming delineation required for up to 85% of the alignment and 0.25 to 0.5 hrs per cross section. Assumes up to 2 pages for horizontal delineation and 2 hrs per page.
35.17	Electronic Files for Cross-Sections	100 lf of boring	1.7	1.5	3	
35.18	Embankment Settlement and Stability	Embankment Boring	2	4	8	
35.19	Monitor Existing Structures	LS	0	4	0	Not applicable
35.20	Stormwater Volume Recovery and/or Background Seepage Analysis	EA	0	0	0	Assumes 100' spacing
35.21	Geotechnical Recommendations	LS	1	6	6	
35.22	Pavement Condition Survey and Pavement Evaluation Report	LS	0	6	0	Not applicable

Estimator: Angela Alba, PE

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)

448136-1-32-01

Representing	Print Name	Signature / Date
FDOT District	4	
Consultant Name	A. Alba/ AREHNA	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.23	Preliminary Roadway Report	LS	1	20	20	
35.24	Final Report	EA	1	8	8	
35.25	Auger Boring Drafting	100 lf boring	0	4	0	Not applicable
35.26	SPT Boring Drafting	100 lf boring	1.7	5	9	
Roadway Geotechnical Subtotal					85	
Structures						
35.27	Develop Detailed Boring Location Plan	LS	1	2	2	
35.28	Stake Borings/Utility Clearance	Boring	4	1	4	See Table 1B for details.
35.29	Coordinate and Develop MOT Plans for Field Investigation	EA	1	4	4	
35.30	Drilling Access Permits	Location	0	6	0	Not applicable
35.31	Property Clearances	EA	0	0	0	Not applicable
35.32	Collection of Corrosion Samples	EA	0		0	Assumes no new corrosion samples will be required for wall
35.33	Coordination of Field Work	100 lf of boring	1.6	0.8	1	
35.34	Soil and Rock Classification - Structures	100 lf of boring	1.6	2.5	4	
35.35	Tabulation of Laboratory Data	100 lf of boring	1.6	0.75	2	
35.36	Estimate Design Groundwater Level for Structures	EA	2	0.25	1	
35.37	Selection of Foundation Alternatives (BDR)	Bridge boring	0	5	0	Not applicable
35.38	Detailed Analysis of Selected Foundation Alternate(s)	Bridge boring	2	5	10	See Basis for reducing by 35.37
35.39	Bridge Construction and Testing Recommendations	Bridge boring	2	1	2	
35.40	Lateral Load Analysis (Optional)	Bridge boring	0	0	0	
35.41	Walls	Wall Boring	3	4	12	
35.42	Sheet Pile Wall Analysis (Optional)	Wall Boring	3	0	0	Not applicable
35.43	Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations	Boring	0	1	0	Not applicable
35.44	Box Culvert Analysis	EA	0	8	0	Not applicable
35.45	Preliminary Report - BDR	EA	0	28	0	Not applicable

Estimator: Angela Alba, PE

SR 25/US-27 at 27 miles north of I-75/US-27 interchange (SA#5)

448136-1-32-01

Representing	Print Name	Signature / Date
FDOT District	4	
Consultant Name	A. Alba/ AREHNA	

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.46	Final Report - Bridge and Associated Walls	EA	1	15	15	
35.47	Final Reports - Signs, Signals, Box Culvert, Walls and High Mast Lights	EA	0	0	0	Not applicable
35.48	SPT Boring Drafting	100 lf of boring	1.6	6	10	
35.49	Other Geotechnical	LS	1	8	8	Includes FDOT electronic lane closure request.
Structural Geotechnical Subtotal					75	
Geotechnical Technical Subtotal					160	
35.50	Technical Special Provisions	EA	0	0	0	Not applicable
35.51	Field Reviews	LS	1	6	6	
35.52	Technical Meetings	LS	1	6	6	Meetings listed below
35.53	Quality Assurance/Quality Control	LS	%	5%	8	
35.54	Supervision	LS	%	5%	8	
Geotechnical Nontechnical Subtotal					28	
35.55	Coordination	LS	%	3%	6	
35. Geotechnical Total					194	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Kickoff Meeting with FDOT	EA	0	0	0		0
Boring Layout Approval	EA	1	2	2		0
Attend in BDR Review Meeting	EA	0	1	0		0
30/60/90% Submittal Review	EA	0	1	0		0
Other Meetings	EA	2	2	4		0
Subtotal Technical Meetings				6	Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>	--
Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>	--
Total Meetings				6	Total Project Manager Meetings (carries to Tab 3)	0

Carries to 33.18

Carries to Tab 3

Summary of Geotechnical Scope

Prepared By: ALA
 Date: 11/8/2023
 AREHNA Project: B-21-076

Project: SR 25/US 27 Interchange- Additional Borings for Wall
 FPID/ RFP # 448136-1-52-01

Prime: HNTB Corporation

General Summary of Scope

Provide geotechnical engineering services for the following services: (1) Provide recommendations for new post and panel wall at each approach next to the North New River Canal, (2) Provide engineering services for the evaluation for additional piling assuming 100% PDA testing, and (3) Muck delineation at west toe of the existing embankment.

(1) WALL: Assumes wall length at each approach along the canal is 300' long for total wall footage of 600' (from 678+56.42 to 681+56.42 and from 684+04.92 to 687+04.92). We plan to perform 4 SPT borings to depths of up to 40 feet below ground surface and reusing 2 bridge borings (BB-682R-1R and BB-684R-4R) for the analysis of the walls. Assumes at maximum wall height the bridge boring will be used. Our scope of work is shown in Tables 1A and 1B shown below. Wall boring spacing of 150 LF was assumed.

(2) BRIDGE: Regarding the bridge structures, additional piling will be added and assuming 100% dynamic testing. Additional geotechnical evaluation will be required, but additional deeper borings will not be required.

(3) ROADWAY: Regarding the additional roadway borings, the purpose is to further delineate the lateral and vertical extent of the organic and plastic material encountered in borings DRI-671L and DRI-688L along the western portion of the site. These 2 hand augers were performed at the toe of the existing embankment and within the control line of the proposed embankment. The remainder of the existing borings on the west side were performed at the top of the existing embankment and did not encounter this material. The roadway borings will be performed to a depth of 10 ft from Sta. 671+00 to Sta. 688+00. Roadway boring spacing of 100 LF is assumed (reduced by 50%).

Roadway SR 25/US 27
 Length 0.32 mi 1700 ft

Summary of Proposed Fieldwork:

Table 1A. Roadway

Boring Designation	Number of Tests	Depth (ft)	Footage (LF)	Remarks
Roadway Borings (SPT)	17	10	170	Assumes 100' spacing (11-8-23: Reduced roadway borings from 34 to 17).
<i>Total # of Borings/ Tests</i>	17	<i>Total LF</i>	170	
<i>Total # of Borings</i>	17			

Table 1B. Structures

Boring Designation	Number of Tests	Depth (ft)	Footage (LF)	Remarks
Wall Borings	4	40	160	Average wall boring depth is shown
<i>Total # of Borings</i>	4	<i>Total LF</i>	160	

Locations to be surveyed = Bridge borings and drainage & pond borings.

Project Activity 35: Geotechnical

Estimator:

SR 25/US 27 Interchange- Additional Borings for Wall
448136-1-52-01

Representing	Print Name	Signature / Date
District 4		
AREHNA Engineering, Inc.		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments	Resource Person
Roadway							
35.1	Document Collection and Review	LS	1	4	4	Tasks 35.1 through 35.26 are not applicable	MAT Engineer Intern
35.2	Develop Detailed Boring Location Plan	LS	1	1	1	Provide geotechnical engineering services for proposed muck delineation along 1700 LF of SR 25/US 27. Our scope of work is shown in Table 1A.	MAT Engineer
35.3	Stake Borings/Utility Clearance	Boring	17	0.35	6	See Tables 1A and 1B for no. of borings and tests assumed.	MAT Senior Engineering Technician
35.4	Muck Probing	Crew Day	0	0	0	Not applicable	MAT Senior Engineering Technician
35.5	Coordinate and Develop MOT Plans for Field Investigation	EA	1	4	4		MAT Engineer
35.6	Drilling Access Permits	Location	0	8	0	Not applicable	MAT Engineer
35.7	Property Clearances	EA	0	0	0	Not applicable	MAT Engineer Intern
(2) BRIDGE	Groundwater Monitoring	EA	0	0	0	Not applicable	MAT Engineer Intern
35.9	LBR/Resilient Modulus Sampling	EA	0	0	0	Not applicable	MAT Engineer Intern
35.10	Coordination of Field Work	100 lf of boring	1.7	0.75	1		MAT Engineer Intern
35.11	Soil and Rock Classification - Roadway	100 lf of boring	1.7	2.25	4		MAT Engineer Intern
35.12	Design LBR	LS	0	0	0	Not applicable	MAT Engineer Intern
35.13	Laboratory Data	100 lf of boring	1.7	0.75	1		MAT Engineer Intern
35.14	Seasonal High Water Table	Boring	0	0.5	0	Not applicable	MAT Engineer Intern
35.15	Parameters for Water Retention Areas	EA	0	2	0	Not applicable	MAT Engineer
35.16	Delineate Limits of Unsuitable Material	Cross-section	15	0.7	10	Assuming delineation required for up to 85% of the alignment and 0.25 to 0.5 hrs per cross section. Assumes up to 2 pages for horizontal delineation and 2 hrs per page.	MAT Engineer
35.17	Electronic Files for Cross-Sections	100 lf of boring	1.7	1.5	3		MAT Engineer Intern
35.18	Embankment Settlement and Stability	Embankment Boring	2	4	8		MAT Engineer Intern
35.19	Monitor Existing Structures	LS	0	4	0	Not applicable	MAT Engineer
35.20	Stormwater Volume Recovery and/or Background Seepage Analysis	EA	0	0	0	Assumes 100' spacing	MAT Engineer Intern
35.21	Geotechnical Recommendations	LS	1	6	6		MAT Engineer
35.22	Pavement Condition Survey and Pavement Evaluation Report	LS	0	6	0	Not applicable	MAT Engineer Intern
35.23	Preliminary Roadway Report	LS	1	20	20		MAT Engineer Intern
35.24	Final Report	EA	1	8	8		MAT Senior Engineer
35.25	Auger Boring Drafting	100 lf boring	0	4	0	Not applicable	MAT Engineer Intern
35.26	SPT Boring Drafting	100 lf boring	1.7	5	9		MAT CADD/ Computer Technician
Roadway Geotechnical Subtotal					85		
Structures							
35.27	Develop Detailed Boring Location Plan	LS	1	2	2		MAT Engineer Intern
35.28	Stake Borings/Utility Clearance	Boring	4	1	4	See Table 1B for details.	MAT Senior Engineering Technician
35.29	Coordinate and Develop MOT Plans for Field Investigation	EA	1	4	4		MAT Senior Engineering Technician
35.30	Drilling Access Permits	Location	0	6	0	Not applicable	MAT Senior Engineering Technician
35.31	Property Clearances	EA	0	0	0	Not applicable	MAT Engineer Intern
35.32	Collection of Corrosion Samples	EA	0	1.0	0	Assumes no new corrosion samples will be required for wall	MAT Senior Engineering Technician
35.33	Coordination of Field Work	100 lf of boring	1.6	0.8	1		MAT Senior Engineering Technician
35.34	Soil and Rock Classification - Structures	100 lf of boring	1.6	2.5	4		MAT Engineer Intern
35.35	Tabulation of Laboratory Data	100 lf of boring	1.6	0.75	2		MAT Engineer Intern
35.36	Estimate Design Groundwater Level for Structures	EA	2	0.25	1		MAT Engineer Intern
35.37	Selection of Foundation Alternatives (BDR)	Bridge boring	0	5	0	Not applicable	MAT Engineer
35.38	Detailed Analysis of Selected Foundation Alternate(s)	Bridge boring	2	5	10	See Basis for reducing by 35.37	MAT Engineer Intern
35.39	Bridge Construction and Testing Recommendations	Bridge boring	2	1	2		MAT Senior Engineer
35.40	Lateral Load Analysis (Optional)	Bridge boring	0	0	0	Duplication of Structural Effort?; Not applicable	MAT Engineer
35.41	Walls	Wall Boring	3	4	12		MAT Engineer
35.42	Sheet Pile Wall Analysis (Optional)	Wall Boring	3	0	0	Not applicable	MAT Engineer Intern
35.43	Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations	Boring	0	1	0	Not applicable	MAT Engineer Intern
35.44	Box Culvert Analysis	EA	0	8	0	Not applicable	MAT Engineer
35.45	Preliminary Report - BDR	EA	0	28	0	Not applicable	MAT Engineer
35.46	Final Report - Bridge and Associated Walls	EA	1	15	15		MAT Engineer
35.47	Final Reports - Signs, Signals, Box Culvert, Walls and High Mast Lights	EA	0	0	0	Not applicable	MAT Engineer Intern
35.48	SPT Boring Drafting	100 lf of boring	1.6	6	10		MAT CADD/ Computer Technician
35.49	Other Geotechnical	LS	1	8	8	Includes FDOT electronic lane closure request.	MAT Engineer
Structural Geotechnical Subtotal					75		
Geotechnical Technical Subtotal					160		
35.50	Technical Special Provisions	EA	0	40	0	Not applicable	MAT Senior Engineer
35.51	Field Reviews	LS	1	6	6		MAT Senior Engineer
35.52	Technical Meetings	LS	1	6	6	Meetings listed below	MAT Senior Engineer
35.53	Quality Assurance/Quality Control	LS	%	5%	8		MAT Principal Engineer

Project Activity 35: Geotechnical

Estimator:

SR 25/US 27 Interchange- Additional Borings for Wall
448136-1-52-01

Representing	Print Name	Signature / Date
District 4		
AREHNA Engineering, Inc.		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments	Resource Person
35.54	Supervision	LS	%	5%	8		MAT Principal Engineer
					Geotechnical Nontechnical Subtotal	28	
35.55	Coordination	LS	%	3%	6		MAT Senior Engineer
					35. Geotechnical Total	194	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Kickoff Meeting with FDOT	EA	0	0	0		0
Boring Layout Approval	EA	1	2	2		0
Attend in BDR Review Meeting	EA	0	1	0		0
30/60/90% Submittal Review	EA	0	1	0		0
Other Meetings	EA	2	2	4		0
Subtotal Technical Meetings				6	Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	ce at Progress Meetings is manually entered on General Task 3	--
Phase Review Meetings	EA	0	0	0	at Phase Review Meetings is manually entered on General Task 3	--
Total Meetings				6	roject Manager Meetings (carries to Tab 3)	0

Carries to 33.18

Carries to Tab 3

Proposed Fee Estimate

Project: SR 25/US 27 Interchange- Additional Borings for Wall
PID/ RFP # 448136-1-52-01
Prime: HNTB Corporation

Prepared By: ALA
Date: 11/8/2023
AREHNA Project: B-21-076

A. Field Testing Services

Item No.	Geotechnical Item	Unit	Quantity	Unit Cost	Total	Remarks
418	Geo Drill Crew Support Vehicle	Day	7	\$ 155.31	\$ 1,087.17	
440	Geo Grout Boreholes- Truck/Mud Bug 0-50 Ft	LF	330	\$ 5.88	\$ 1,940.40	17*10 + 4*40 = 330
478	Geo SPT Truck/Mud Bug 0-50 Ft	LF	330	\$ 14.65	\$ 4,834.50	17*10 + 4*40 = 330
488	Geo Temp Casing 3in Truck/Mud Bug 0-50 Ft	LF	330	\$ 8.69	\$ 2,867.70	17*10 + 4*40 = 330
514	Geo Truck/Mud Bug Mobil (30 miles straightline distance)	Each	1	\$ 484.30	\$ 484.30	
435	Geo Grout Boreholes Barge/ Track/ Amphib 0-50 Ft	LF	0	\$ 8.43	\$ -	
473	Geo SPT Barge/ Track/ Amphib 0-50 Ft	LF	0	\$ 21.87	\$ -	
483	Geo Temp Casing Barge/ Track/ Amphib 0-50 Ft	LF	0	\$ 13.96	\$ -	
Subtotal Field Testing Services					\$ 11,214.07	

B. Laboratory Testing Services

Item No.	Geotechnical Item	Unit	Quantity	Unit Cost	Total	Remarks
805	Soils Corrosion Series FM 5-550 through 5-553	Test	0	\$ 167.40	\$ -	
811	Soils Liquid Limit AASHTO T89	Test	3	\$ 62.70	\$ 188.09	
812	Soils Materials Finer than 200 Sieve FM 1-T011	Test	8	\$ 38.07	\$ 304.56	
817	Soils Moisture Content Laboratory AASHTO T265	Test	37	\$ 13.60	\$ 503.20	
819	Soils Organic Content Ignition FM 1 T-267	Test	20	\$ 42.77	\$ 855.40	Assumes approx. one organic content ignition per roadway boring
822	Soils Particle Size Anlys AASHTO T88 (No Hydrometer)	Test	8	\$ 63.77	\$ 510.16	
826	Soils Plastic Limit & Plasticity Index AASHTO T90	Test	3	\$ 56.05	\$ 168.15	
Subtotal Laboratory Testing Services					\$ 2,529.56	
Field & Laboratory Testing Services Total					\$ 13,743.63	



Project: SR 25/US 27 Interchange- Additional Borings for Wall
PID/ RFP # 448136-1-52-01

Prime: HNTB Corporation

Proposed Subcontractors

Maintenance of Traffic Services

Subcontractor: ACME Barricades

Item	Unit	Quantity	Unit Cost	Total	Remarks
Flagging Setup-Index 603	Hour	0	\$162.50	\$ -	
MOT Plan	Each	1	\$200.00	\$ 200.00	
Attenuator Truck with driver - Index 619	Hour	0	\$150.00	\$ -	
MOT Set Up Lane Closure - Index 613	Hour	36	\$162.50	\$ 5,850.00	
MOT Shoulder Closure - Index 602	Hour	0	\$112.50	\$ -	
Total MOT Estimate				\$ 6,050.00	

Off-Duty Police (Security)

Subcontractor: LE Security

Item	Unit	Quantity	Unit Cost	Total	Remarks
Off-Duty Police Officer	Hr	36	\$ 62.50	\$ 2,250.00	
Total Security Estimate				\$ 2,250.00	

MEMORANDUM

TO: Governing Board Members

FROM: Lawrence Glenn, Water Resources Division

DATE: April 11, 2024

SUBJECT: April 2024 as Water Conservation Month

Agenda Item Background:

April is normally the last month of South Florida's dry season and water needs are most acute, highlighting the importance of conserving water. Since 1998, the month of April has been proclaimed Water Conservation Month in Florida to increase awareness and promote efficient use of the state's diverse water resources. With this resolution, the District will join the Florida Section of the American Water Works Association, water management districts, local governments, and other organizations in supporting water conservation through the adoption of similar resolutions throughout Florida.

Additional Item Background:

Core Mission and Strategic Priorities:

This item supports the District's core mission and five year-strategic goals by fostering a water conservation ethic and promoting the efficient use of water to preserve water supplies to meet existing and future water needs. Conservation measures and the efficient use of water is less expensive than developing alternative water supplies.

Staff Contact and/or Presenter:

Adel Peña, apena@sfwmd.gov, 561-682-2544

ATTACHMENTS:

[Resolution No. 2024-0414](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - 04XX

A Resolution of the Governing Board of the South Florida Water Management District proclaiming April as Water Conservation Month; providing an effective date.

WHEREAS, the South Florida Water Management District (District) continues in its commitment to promote the overall water conservation goal of the State of Florida by preventing and reducing wasteful, uneconomical, impractical and unreasonable use of water resources and by supporting programs that employ water saving technology and education programs that cultivate a strong water conservation ethic; and

WHEREAS, this effort is consistent with the efforts of the Water Use Efficiency Division of the Florida Section of the American Water Works Association; and

WHEREAS, the District is implementing a Comprehensive Water Conservation Program to promote a lasting ethic throughout its 16 counties; and

WHEREAS, the District consistently promotes water conservation by providing grant funds, disseminating water conservation information, participating in statewide partnerships, and advocating water management practices which sustain reductions in per capita water use compatible with economic growth; and

WHEREAS, for the past 26 years, the month of April has been proclaimed as Water Conservation Month in Florida by the Florida Section of the American Water Works Association to increase awareness of and promote efficient use of our state's diverse water resources; the District is continuing this tradition with a renewed spirit and enthusiasm; and

WHEREAS, the District is again taking the opportunity to raise additional conservation awareness by designating April, which is typically the last month of Florida's dry season when water needs are most acute, as Water Conservation Month to educate consumers about the need for conservation and the ways in which they can help save the state's precious water resources; and

WHEREAS, droughts and water shortages serve as a reminder that Florida's water resources, no matter how diverse, are precious and finite; and

WHEREAS, all water users including commercial, industrial, agricultural, recreational, institutional, hospitality, private citizens and others can make positive contributions to reduce water use and protect Florida's vital water resources.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby proclaims April 2024 as **WATER CONSERVATION MONTH** and

Section 2. The Governing Board of the South Florida Water Management District urges every citizen and visitor to become more aware of the need to save

our precious water supply and to take appropriate measures to conserve and protect this vital natural resource.

Section 3. This Resolution shall take effect immediately upon adoption.

PASSED and **ADOPTED** this 11th day of April, 2024.

MEMORANDUM

TO: Governing Board Members

FROM: Sean Sculley, P.E., Water Resources Division

DATE: April 11, 2024

SUBJECT: Science and Technology Support Services Contracts

Agenda Item Background:

The District has maintained a series of science and technology support services contracts with private firms for several years, which are set to expire July 2024. This agenda item addresses the need to continue to have these services available to facilitate the delivery of the District's applied research and related projects conducted primarily in the Applied Sciences, Water Quality, Hydrology & Hydraulics, Ecosystem Restoration bureaus. A Request for Proposals solicited technical proposals from qualified firms to provide support services in nine disciplines, including ecosystem and vegetation biology, soil sciences, wildlife biology, water quality monitoring, analytical laboratory services, data science, hydrology and hydraulics, permitting, and technical editing. Contract awards are requested for a duration of three-years with the option of extending with two 1-year renewals. Assignments under each contract will be executed via work orders. The six firms selected for these contracts are Stantec Consulting Services, Inc., DB Environmental Laboratories, Inc., Environmental Science Associates Corporation, WSP USA, Inc., South Florida Engineering and Consulting, LLC., and Applied Ecology, Inc.

Eleven firms responded to the request for proposals. Ten were deemed responsible and responsive. The evaluation committee selected six firms due to there being a sizeable gap between the sixth- and seventh-ranked firms.

Additional Item Background:

Core Mission and Strategic Priorities:

These firms are selected to provide scientific and technologic support services that support the District's core mission of ecosystem restoration, resilience, water quality, and water supply.

Funding Source:

Both Ad Valorem and dedicated funds are eligible to be used to procure these services and will be provided by the organization requesting services.

Staff Contact and/or Presenter:

Sean Sculley, PE, ssculley@sfwmd.gov; 561-682-6109

ATTACHMENTS:

[Resolution No. 2024-0415](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - XXXX

A Resolution of the Governing Board of the South Florida Water Management District authorizing the official ranking and entering into three-year contracts, with the option of executing two 1-year extensions, with each of the following six private firms: Applied Ecology, Inc., DB Environmental Laboratories, Inc., Environmental Science Associates Corporation, South Florida Engineering and Consulting LLC, Stantec Consulting Services, Inc., and WSP USA, Inc. subject to successful negotiations, to provide Scientific and Technology Support Services in an amount not-to-exceed \$15,000,000 for the six contracts, which the Fiscal Year 2023-2024 budget includes approved Ad Valorem and dedicated funds (State Appropriations) and the remainder is subject to Governing Board approval of future years budgets; the District may proceed with negotiations with the six selected firms until contracts are successfully negotiated; providing an effective date.

Contract No.	Vendor Name
4600004945	Stantec Consulting Services, Inc.
4600004946	DB Environmental Laboratories, Inc.
4600004947	Environmental Science Associates Corporation
4600004948	WSP USA, Inc.
4600004949	South Florida Engineering and Consulting LLC
4600004950	Applied Ecology Inc.

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to authorize the official ranking and entering into a three-year contract, with the option of executing two 1-year extensions, with Stantec Consulting Services, Inc., DB Environmental Laboratories, Inc., Environmental Science Associates Corporation, WSP USA, Inc., South Florida Engineering and Consulting LLC and Applied Ecology Inc., subject to successful negotiations to provide Scientific and Technology Support Services, in an amount not to exceed \$15,000,000, which the Fiscal Year 2023-2024 budget includes approved Ad Valorem and dedicated funds (State Appropriations) and the remainder is subject to Governing Board approval of the future years budgets; the District may proceed with negotiations with the six selected firms until contracts are successfully negotiated.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby approves entering into a contract with the following firms subject to successful negotiations to provide Ecological and Environmental Scientific

Resolution No. 2024 - XXXX

and Technology Support Services for the Permit Acquisition and Compliance Section and sections within the Water Resources Division, in an amount not to exceed \$15,000,000 for these six contracts; the District may proceed with negotiations with the six selected firms until contracts are successfully negotiated.

Contract No.	Vendor Name
4600004945	Stantec Consulting Services, Inc.
4600004946	DB Environmental Laboratories, Inc.
4600004947	Environmental Science Associates Corporation
4600004948	WSP USA, Inc.
4600004949	South Florida Engineering and Consulting LLC
4600004950	Applied Ecology Inc.

Section 2. This resolution shall take effect immediately upon adoption.

PASSED and **ADOPTED** this 11th day of April 2024.

From: noreply@granicusideas.com
To: [Brown, Molly](#); [Fretwell, Angela](#); [Bonilla, Yvette](#); [Salomon, Wildad](#)
Subject: New eComment for Governing Board
Date: Friday, April 5, 2024 11:37:49 AM

You don't often get email from noreply@granicusideas.com. [Learn why this is important](#)

[Please remember, this is an external email]

[South Florida Water Management District](#)

New eComment for Governing Board

Brandon Bookston submitted a new eComment.

Meeting: Governing Board

Item: 8) General Public Comment

eComment: Please explain something about a community called Inverness Village Four. How can Inverness, FL in Citrus county issue several hundred permits for homes to be built with no infrastructure or drainage in place? They allowed streets to be cut out that just wash away in a rainstorm. This is causing stormwater and sediment into our lake. Please do something.

[View and Analyze eComments](#)

This email was sent from <https://sfwmd.granicusideas.com>.

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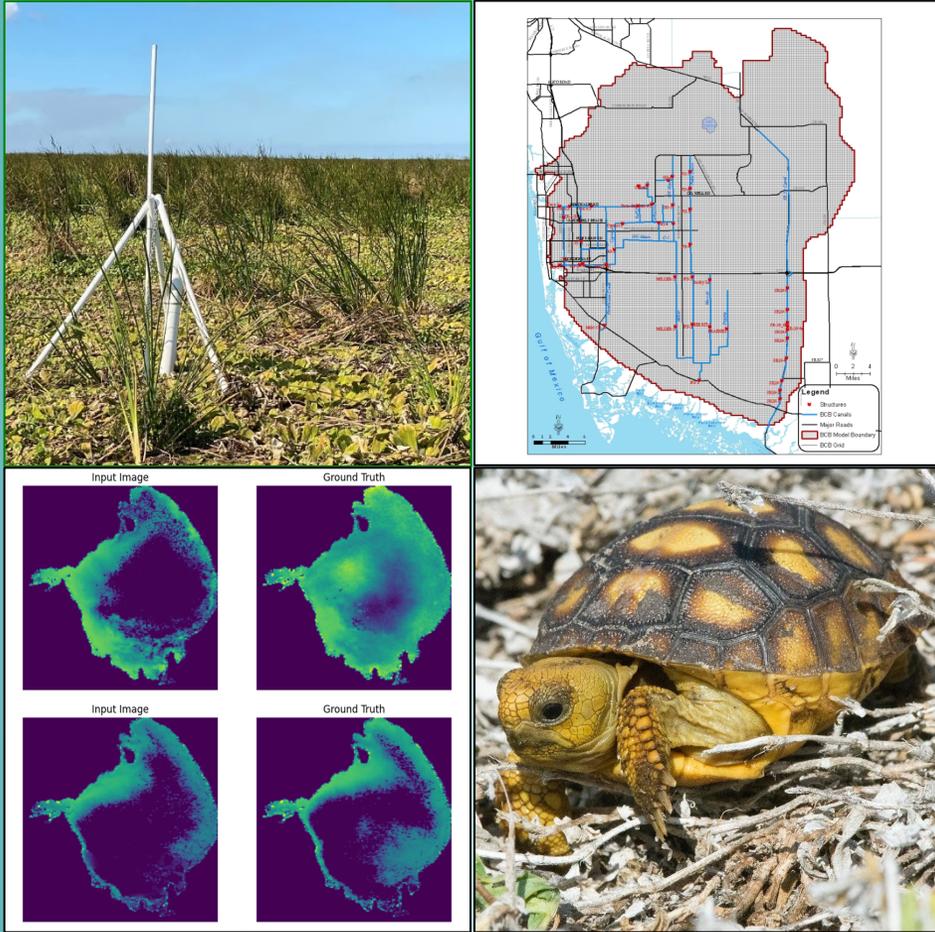
Science and Technology Support Services Contracts – Private Firms



Sean Sculley, PE
Chief, Applied Sciences Bureau
Water Resources Division
South Florida Water Management District
Governing Board Meeting
April 11, 2024



Types of Projects These Contracts May Support



- Everglades STA compliance era supplemental monitoring and analysis
- Groundwater and “H&H” modeling
- Water quality monitoring or laboratory analyses beyond SFWMD capacity
- Big data analysis, machine learning, cloud computing algorithms
- Staff augmentation for existing applied research and technical editing
- Assistance with obtaining necessary permits for grants, including innovative technology.

Request for Proposals Process

Request for Proposals (RFP)

RFP prepared and Evaluation Committee members selected.

RFP advertised November 13, 2023. Procurement was the single point of contact through entire process.

Publicly noticed Pre-Proposal Conference held December 1, 2023, to answer questions and discuss the process.

Consultant Inquiry Period noticed; questions submitted to Procurement.

Issue an RFP Addendum from questions arising during the Inquiry Period, if applicable.

Consultants submitted proposals by December 14, 2023.

Evaluation

The Evaluation Committee Kick-Off meeting was held January 8, 2024, to define committee rules of conduct, evaluation process, and compliance with Sunshine Law.

Evaluation Committee members reviewed written proposals independently and scores based on criteria set forth in RFP.

A publicly noticed meeting was held February 12, 2024, with evaluation committee members to review all scores and to identify a recommended short-list of firms.

Written Proposal Evaluation Criteria

- Firms were evaluated based on the following criteria that were published in the RFP:
 - Understanding the scope of work
 - Staff qualifications and experience, availability, and workload distribution
 - Qualifications and experience of firm and subcontractor staff
 - Resources, facilities, and equipment
 - Quality assurance
 - Number of disciplines applied for
 - Reasonableness of hourly rates

Response to RFP

- Eleven (11) firms submitted proposals; one firm was deemed non-responsible.
- The selection committee consisted of five District staff from four different organizations and each member evaluated and scored the proposals independently.
- The Selection Committee met and agreed to short-list the firms to six firms that scored the highest, being there was a clear numerical break between the 6th and 7th highest scoring firms.

Results of Evaluation and Recommendation

Based on written information from the ten firms, the Evaluation Committee recommends final ranking and selection of the following six firms:

- **Stantec Consulting Services, Inc.**
- **DB Environmental Laboratories, Inc.**
- **Environmental Science Associates Corporation**
- **WSP USA, Inc.**
- **South Florida Engineering & Consulting, LLC**
- **Applied Ecology, Inc.**

Resolution No. 2024-0415

A Resolution of the Governing Board of the South Florida Water Management District authorizing the official ranking and entering into three-year contracts, with the option of executing two 1-year extensions, with each of the following six private firms: Applied Ecology, Inc., DB Environmental Laboratories, Inc., Environmental Science Associates Corporation, South Florida Engineering and Consulting LLC, Stantec Consulting Services, Inc., and WSP USA, Inc. subject to successful negotiations, to provide Scientific and Technology Support Services in an amount not-to-exceed \$15,000,000 for the six contracts, which the Fiscal Year 2023-2024 budget includes approved Ad Valorem and dedicated funds (State Appropriations) and the remainder is subject to Governing Board approval of future years' budgets; the District may proceed with negotiations with the six selected firms until contracts are successfully negotiated; providing an effective date.

Water and Ecological Conditions Summary

South Florida Water Management District Governing Board Meeting April 11, 2024



John P. Mitnik, PE
Chief District Engineer
Assistant Executive Director



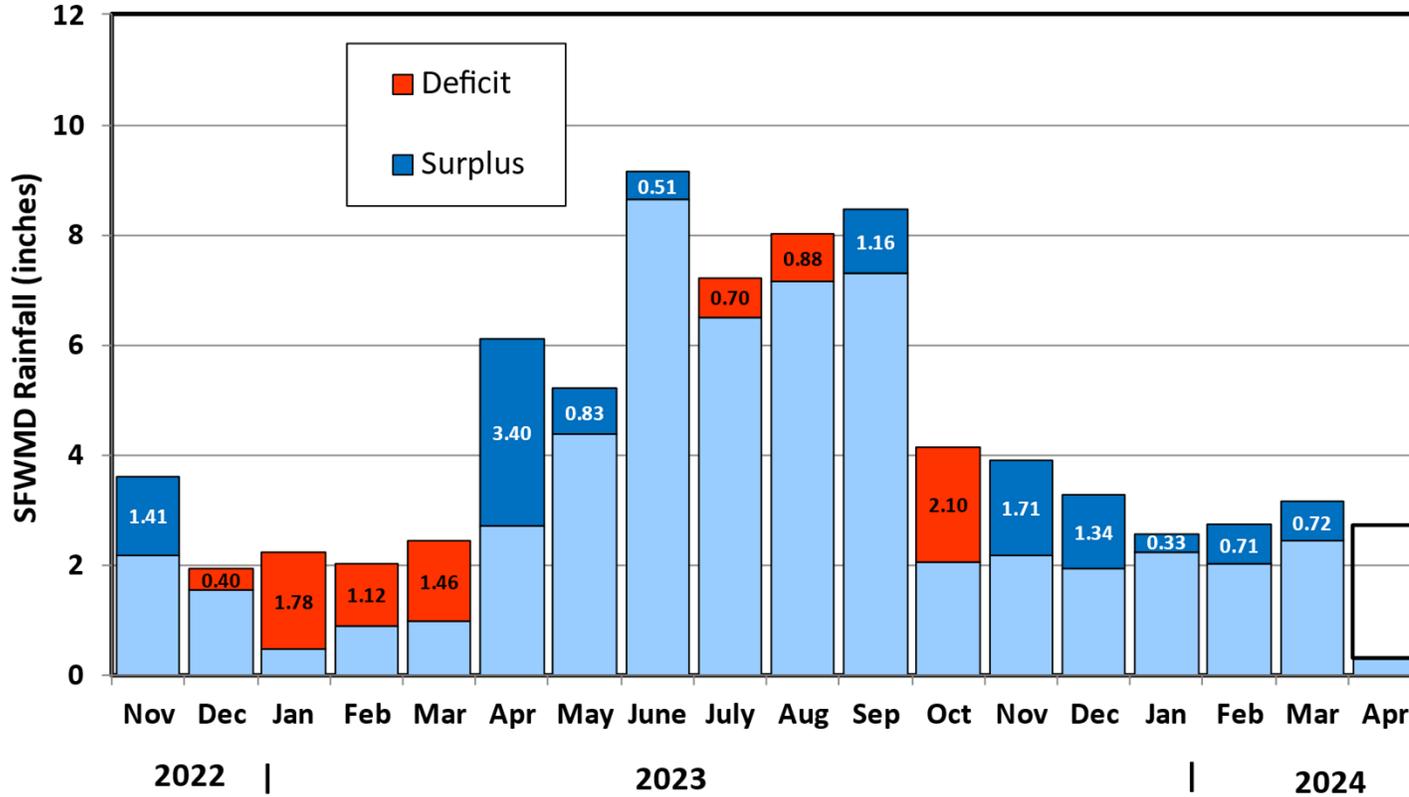
Lawrence Glenn
Division Director
Water Resources

SFWMD Rainfall Distribution Comparison (November 2022 - April 2024)

Wet-Season Rainfall

Total rainfall 108% of normal since the start of the 2023 wet season (14 May)

- May (119% normal)
- June (106% normal)
- July was dry (90% normal),
- August (89% normal)
- September (116% normal)



District Wide Average Rainfall

Month	Average (inches)
Jan	2.24
Feb	2.01
Mar	2.43
Apr	2.71
May	4.37
Jun	8.65
Jul	7.20
Aug	8.03
Sep	7.31
Oct	4.15
Nov	2.18
Dec	1.94

Wet Season

2022-2023 DRY SEASON

- Started 9/29/2022 and ended 5/13/2023
- Including Oct. 2022, 5/6 months are below Normal
- 4/6 full months are more than 50% below Normal
- April was ~ 225% Normal

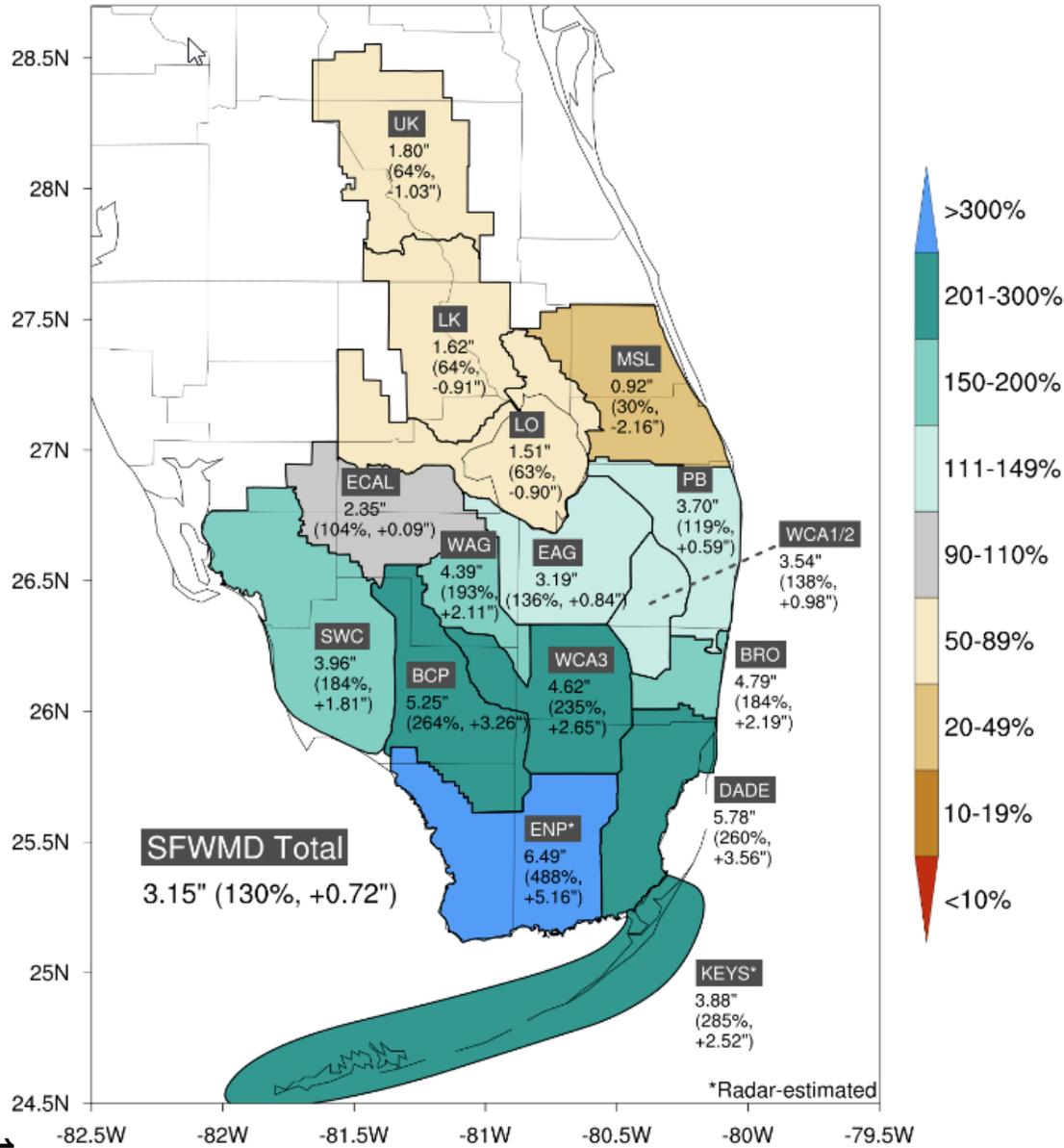
2023 WET SEASON

- Started 5/14/2023 ended 9/30/2023
- May, June and September were above Normal
- July and August were below Normal
- 8% above Normal overall

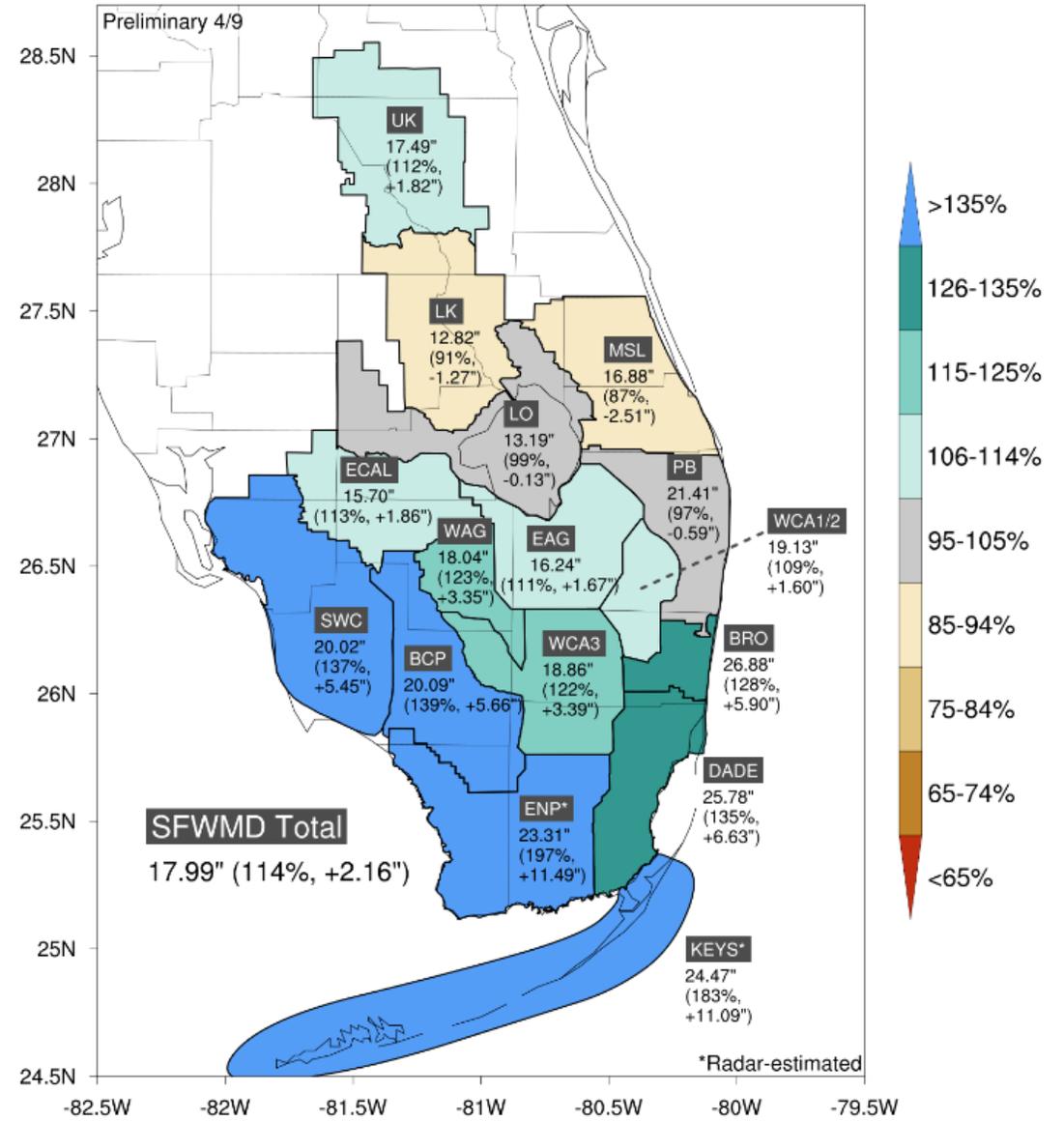
2023-2024 DRY SEASON

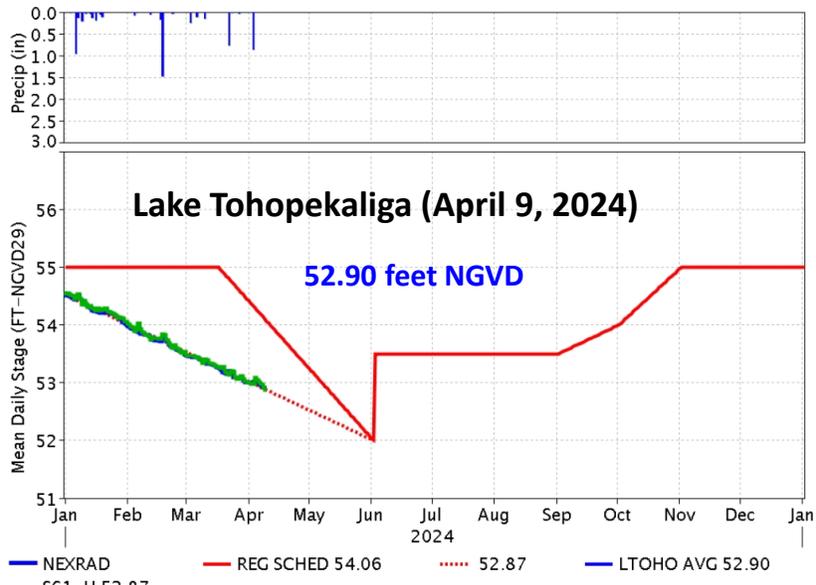
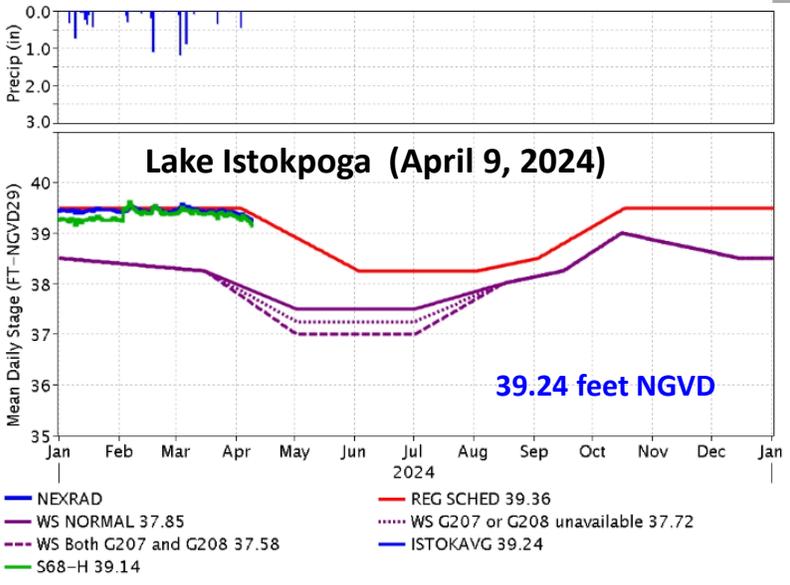
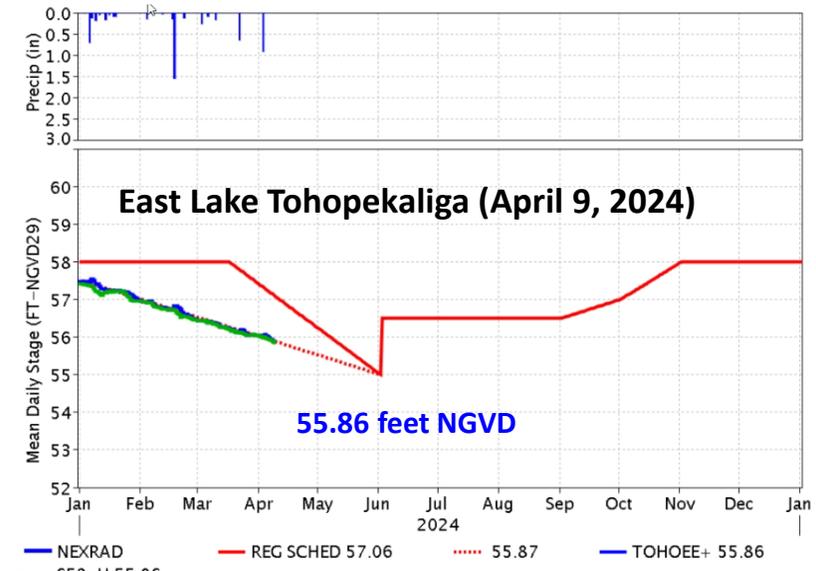
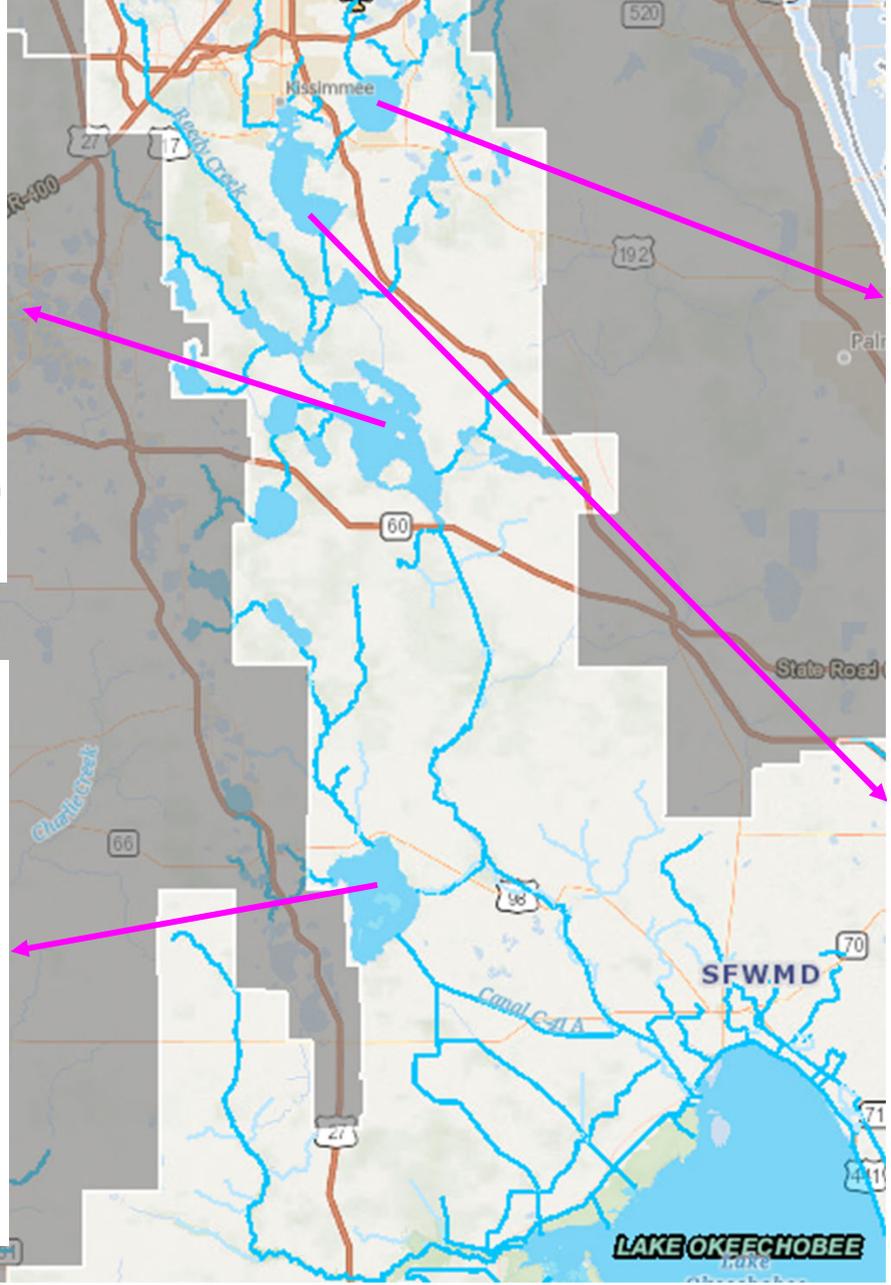
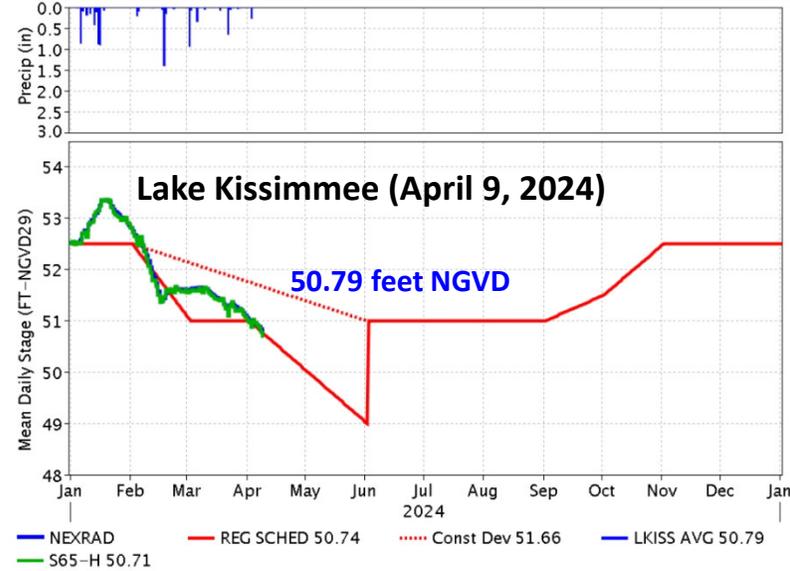
- Started 10/01/2023
- October was extremely dry (49% normal)
- Large isolated rainfall events November to March
- November 2023 through April 2024 above normal

March 2024
Rainfall, Percent of Normal, and Departures

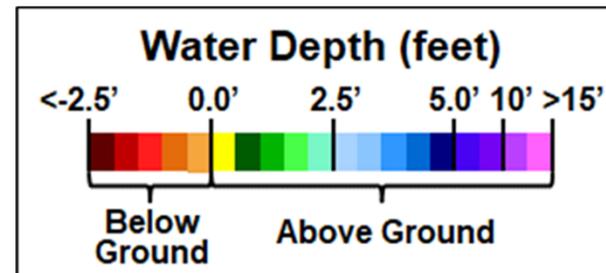
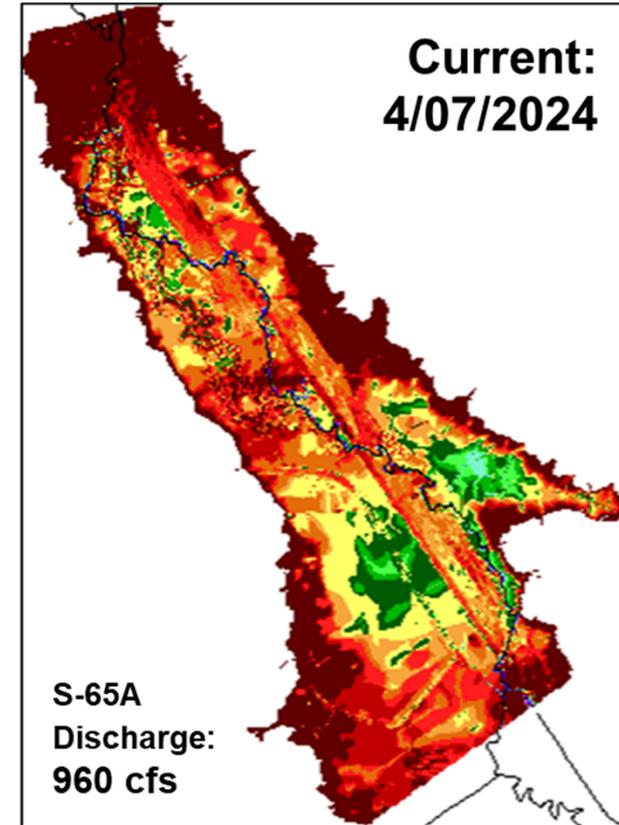
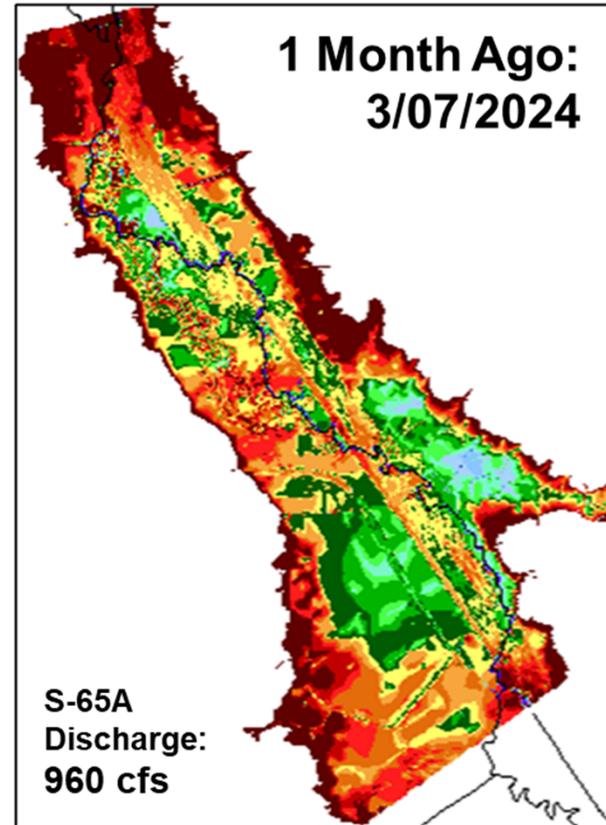
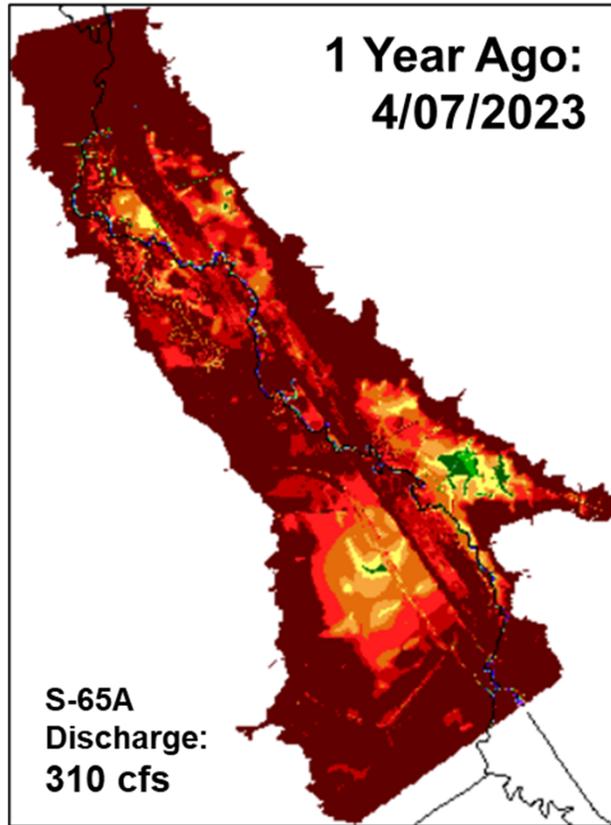


2023-2024 Dynamic Dry Season (10/1/23 to 4/9/24)
Rainfall, Percent of Normal, and Departures

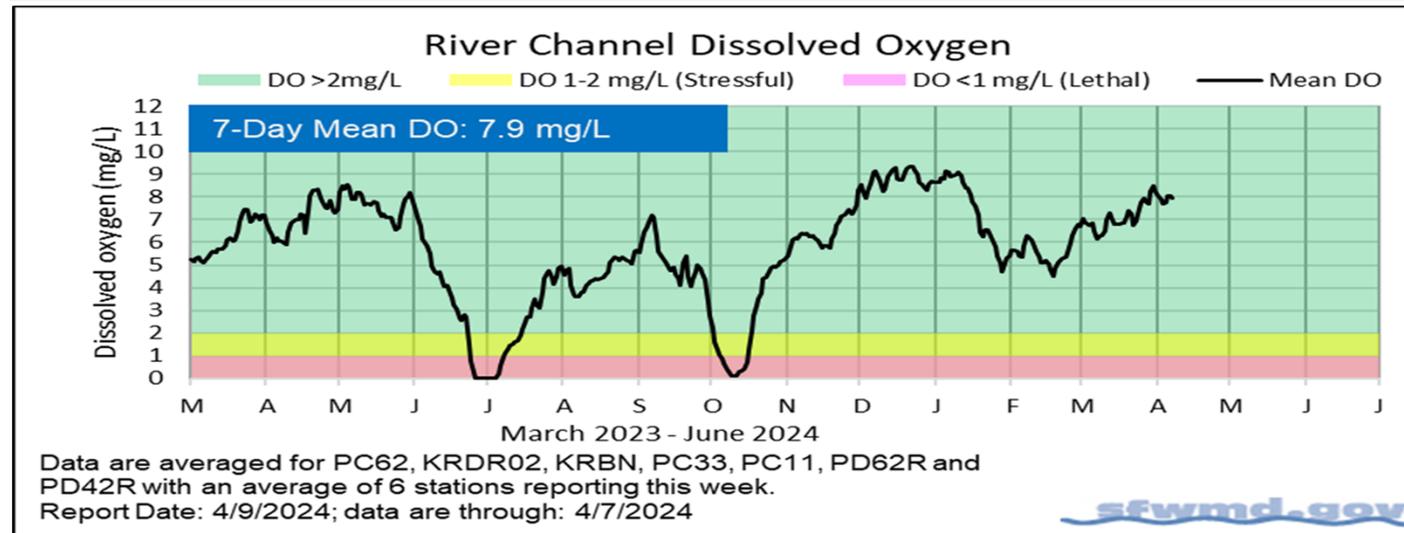
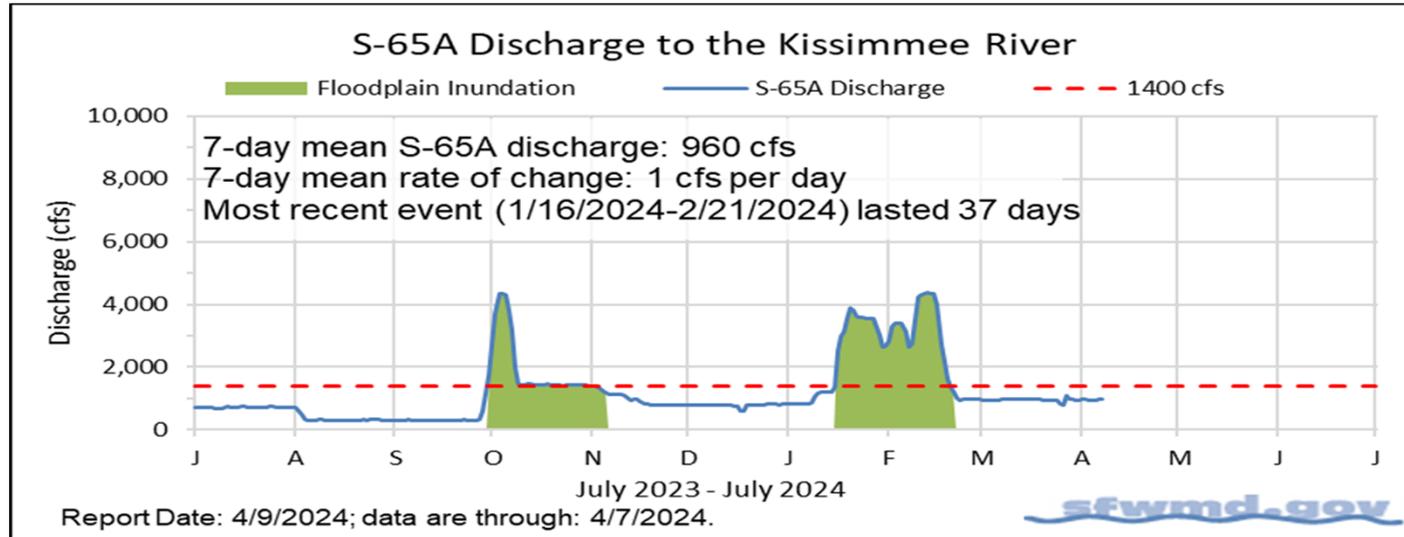




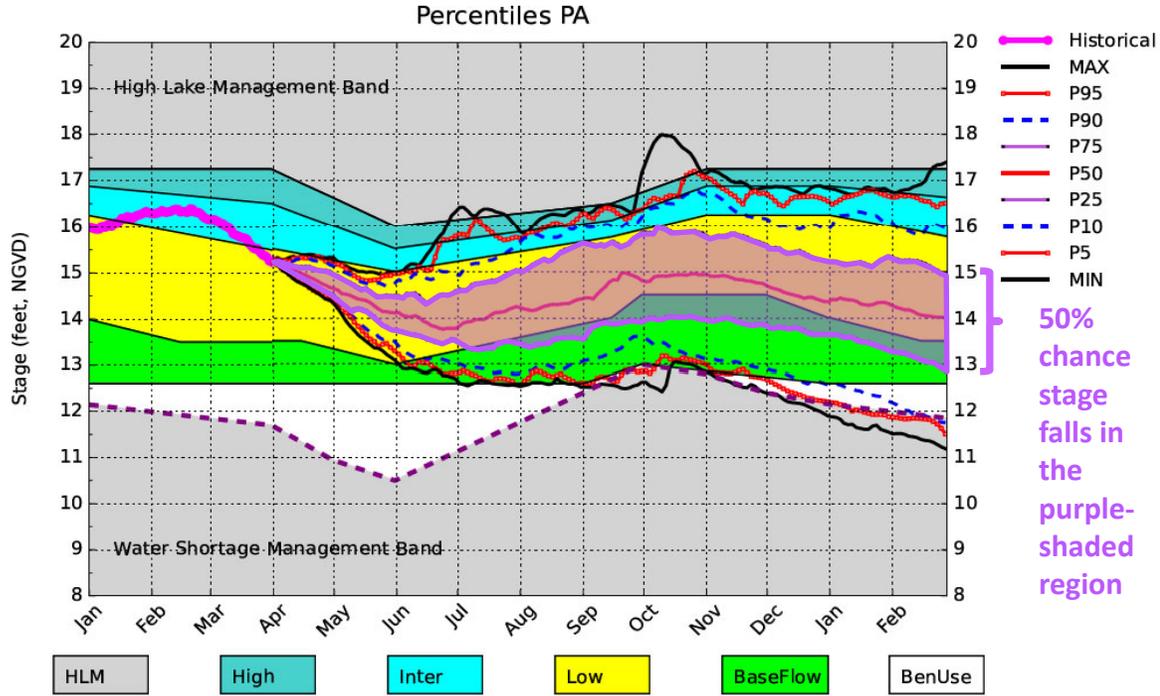
Kissimmee River Floodplain Inundation



Kissimmee River Discharge and Dissolved Oxygen



Lake Okeechobee SFWMM April 2024 Position Analysis



04/05/24 10:36:02

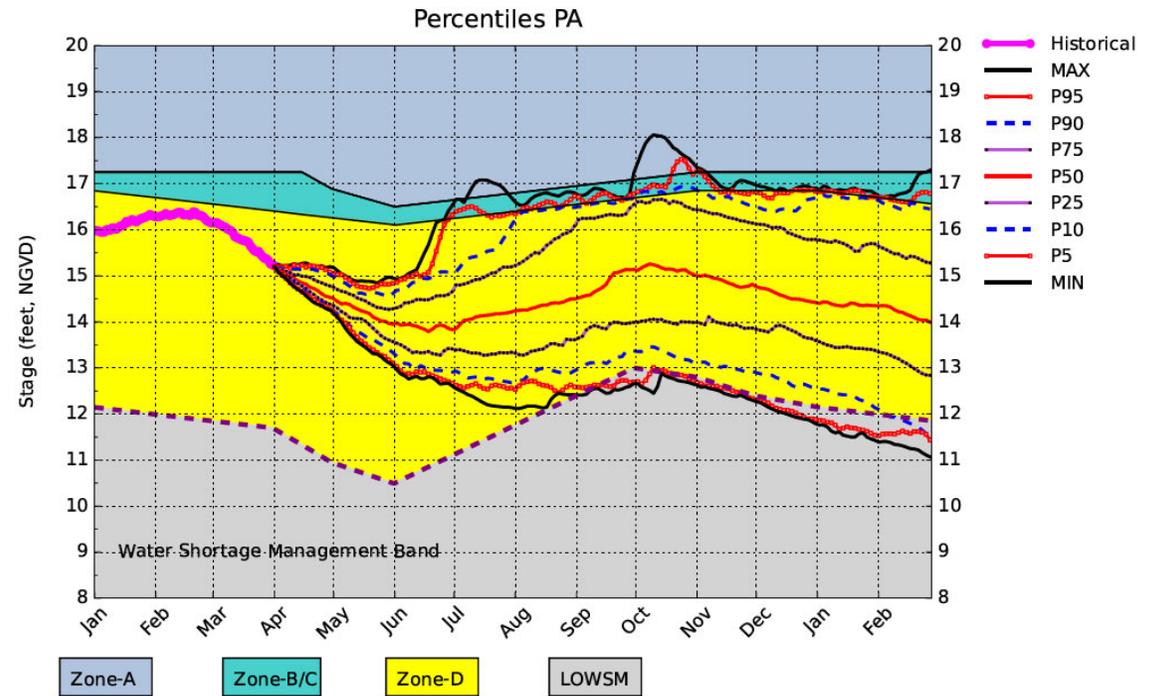
(See assumptions on the Position Analysis Results website)

↑
Current Lake Okeechobee Regulation Schedule (LORS2008)

Provisional Tool Under Development for the Proposed July 2023 Water Control Plan (LOSOM PA25)



Lake Okeechobee SFWMM April 2024 Position Analysis

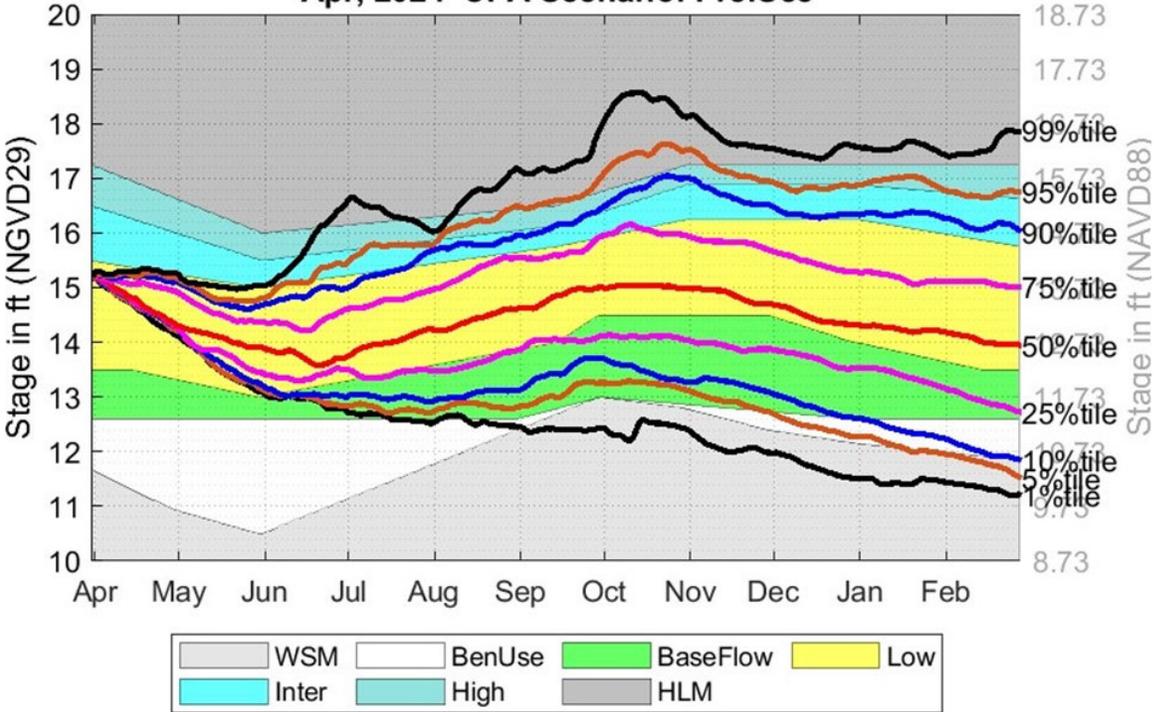


04/08/24 15:51:27

(See assumptions on the Position Analysis Results website)

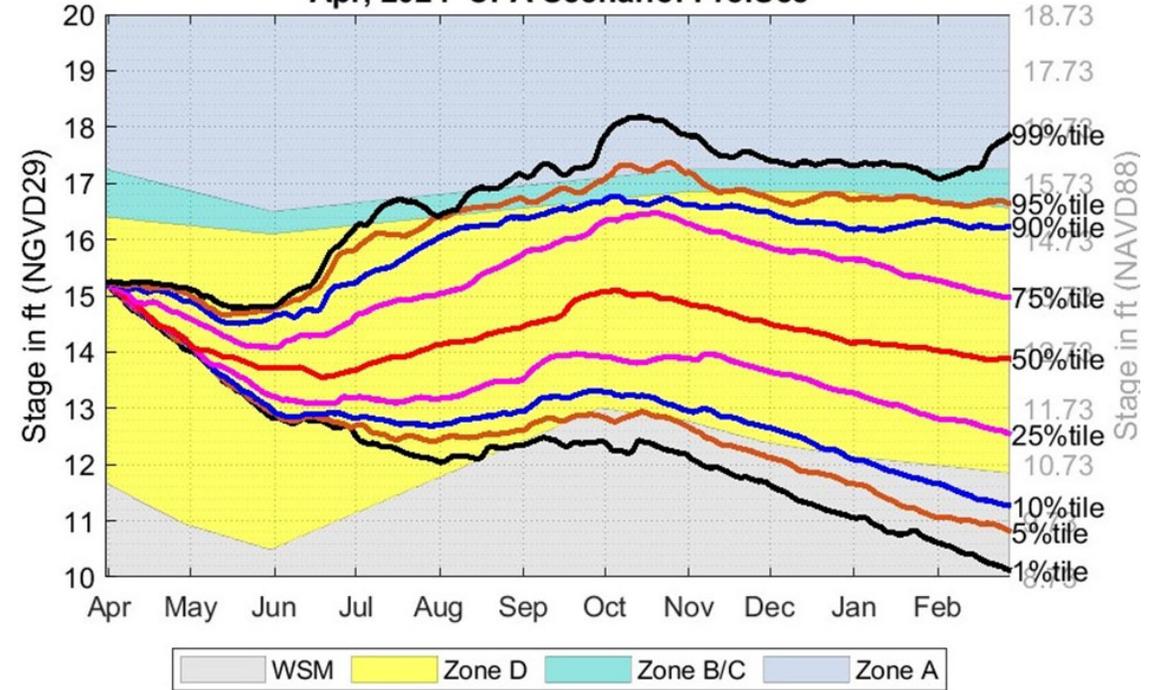
Conditional Position Analysis (CPA)

Apr, 2024 CPA Scenario: PrefSce



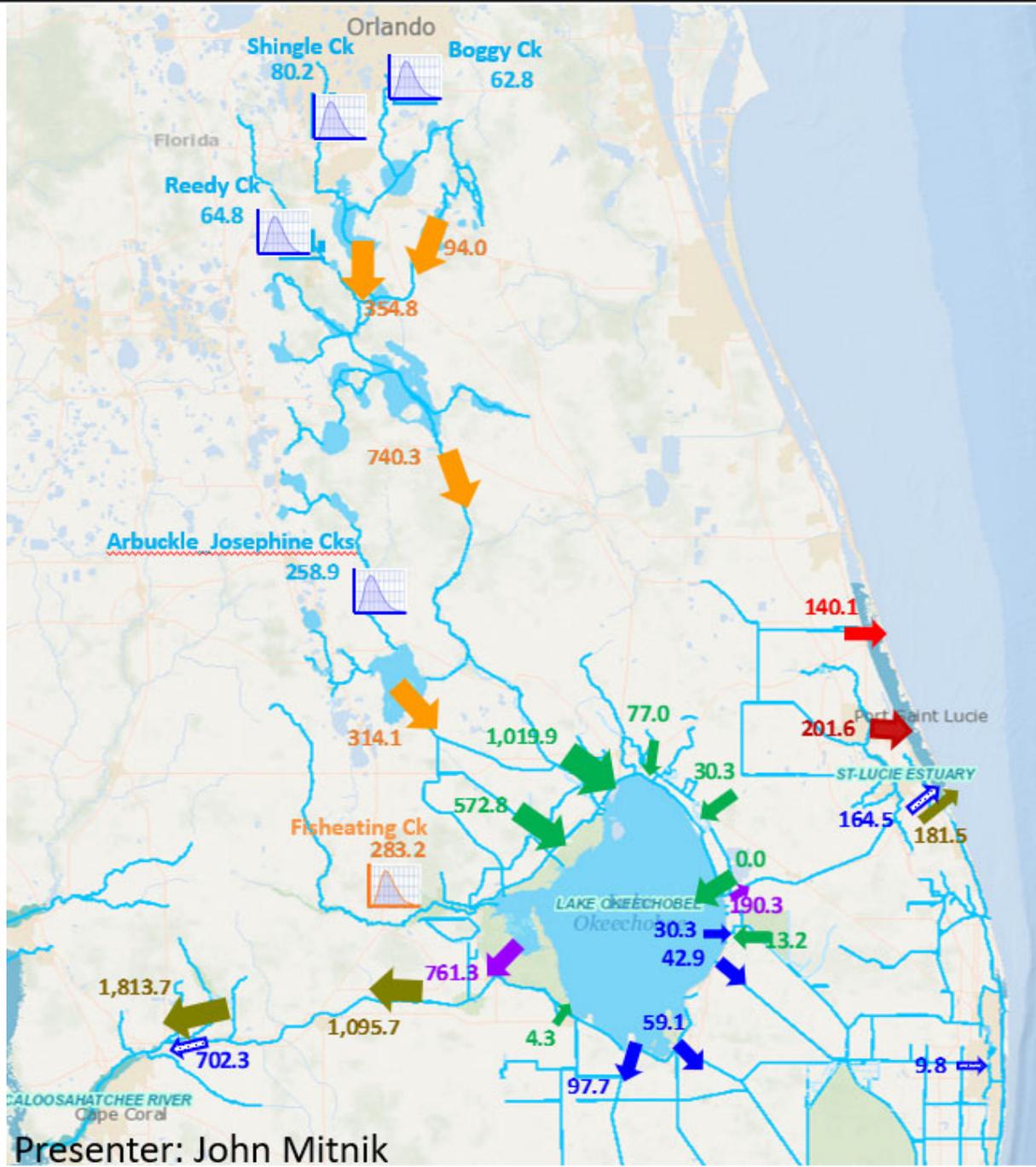
Current Lake Okeechobee Regulation Schedule (LORS2008)

Apr, 2024 CPA Scenario: PrefSce



Provisional Tool Under Development for the Proposed July 2023 Water Control Plan (LOSOM PA25)

- Dynamic Position Analysis (DPA) forecasts stages in the system based on current operational protocols and historical rainfall.
- Conditional Position Analysis (CPA) improves DPA predicted stages by taking into account the anticipated rainfall conditions.
- Conditional Position Analysis (CPA) is a stochastic technique that utilizes robust and well-established approaches, such as Monte Carlo simulation and NonLinear Programming, to correctly apply the rainfall to stage Transition Probability Matrix and recognize non-unique solutions.



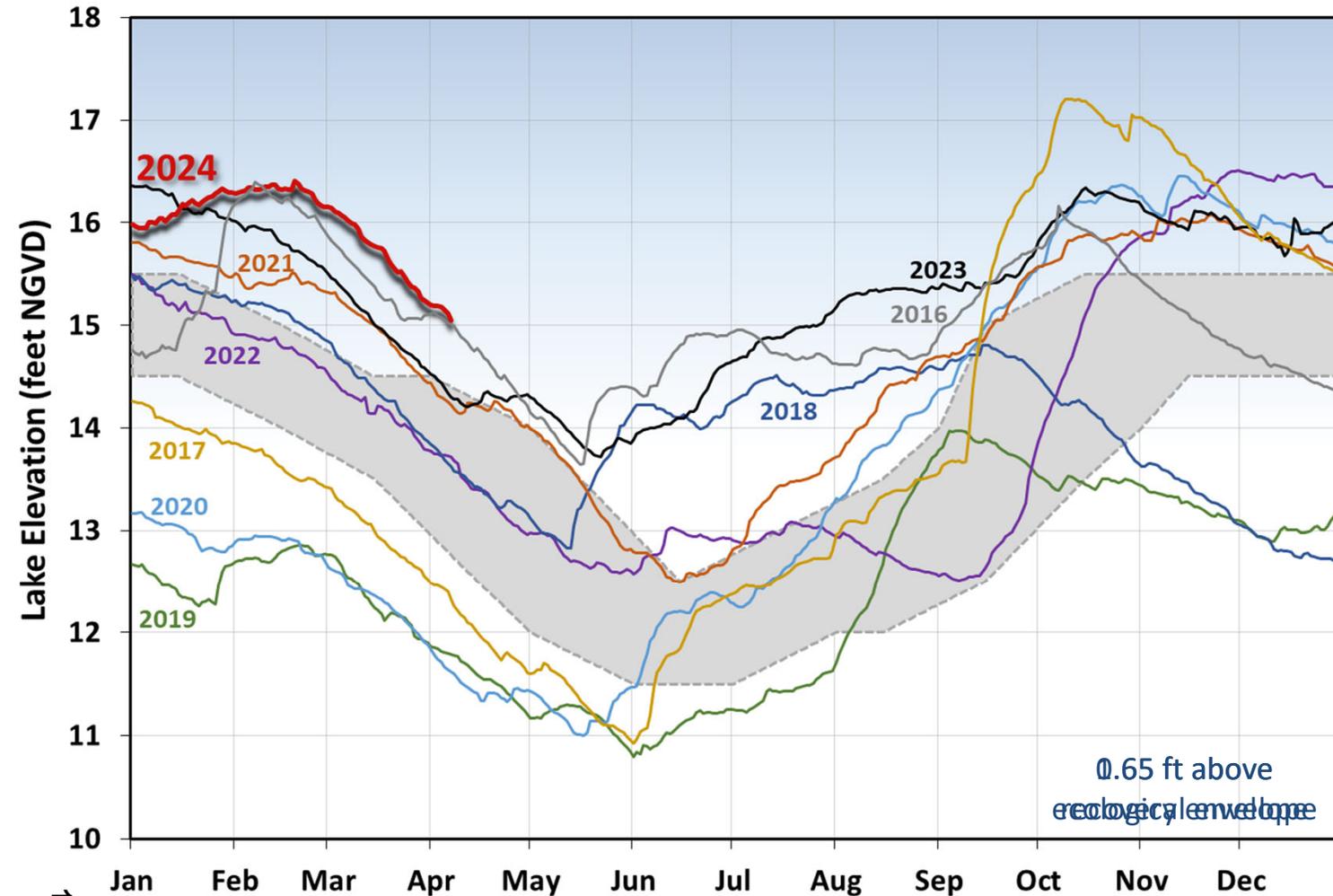
SFWMD – Selected Release Volumes for the Period May 1, 2023 to April 9, 2024
(volumes in 1,000 acre-feet)

Symbol	Description	Volume (1,000 acre- feet)	
		WYR2024	Last Month
	Upper Kissimmee to Lower Kissimmee	740.3	58.8
	Inflows to Lake Okeechobee (including Fisheating Creek)	2,000.7	70.8
	Lake Releases and Basin Runoff	1,995.2	243.1
	Lake Releases East and West	951.6	204.3
	Lake Flood Control to Estuaries	866.8	195.6
	Total Lake Releases South	230.0	79.4
	Releases to Indian River Lagoon	140.1	1.2
	Upper East Coast discharges to St. Lucie Estuary	201.6	1.6
	Uncontrolled flows - Creeks (does not include Fisheating Creek)	466.7	19.6

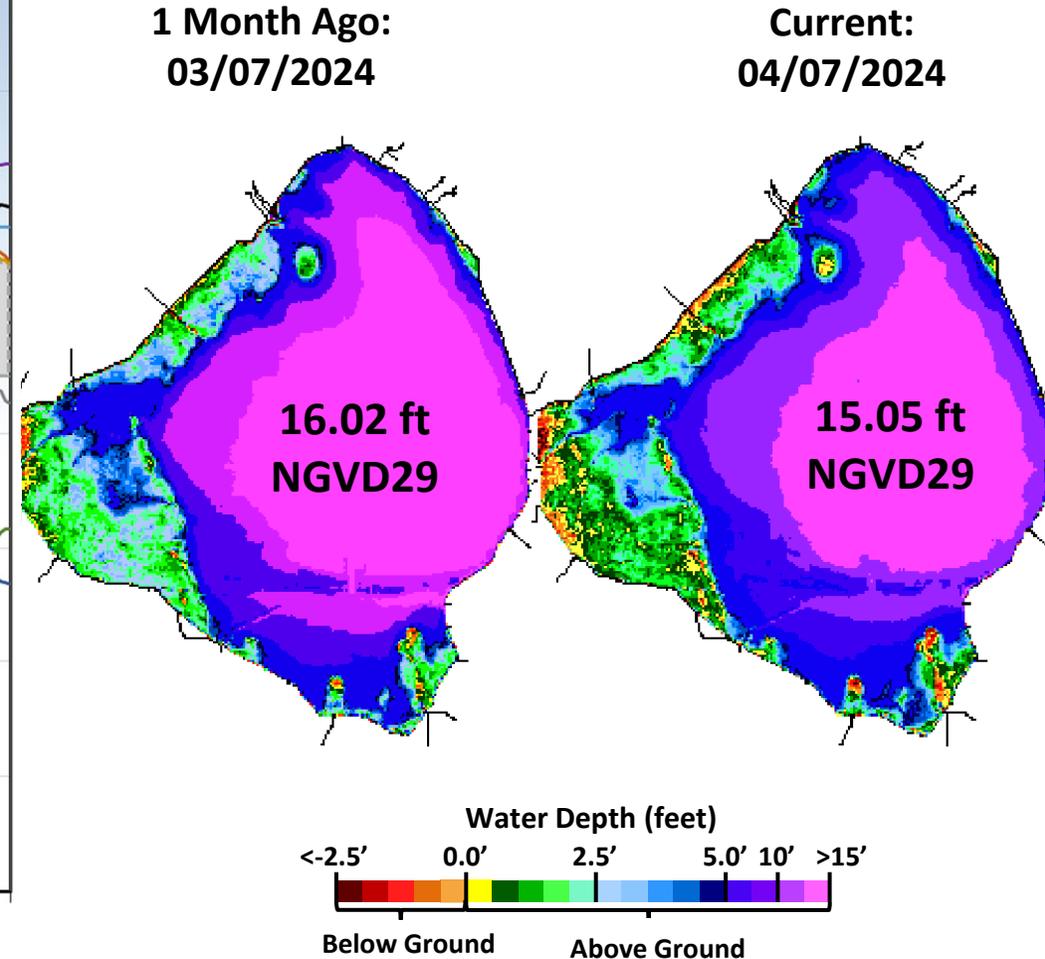
1,000 acre-feet = 325.9 Million Gallons

Ecological Envelope and Water Depths

Lake Okeechobee Stage vs Ecological Envelope



Changes in Water Depth

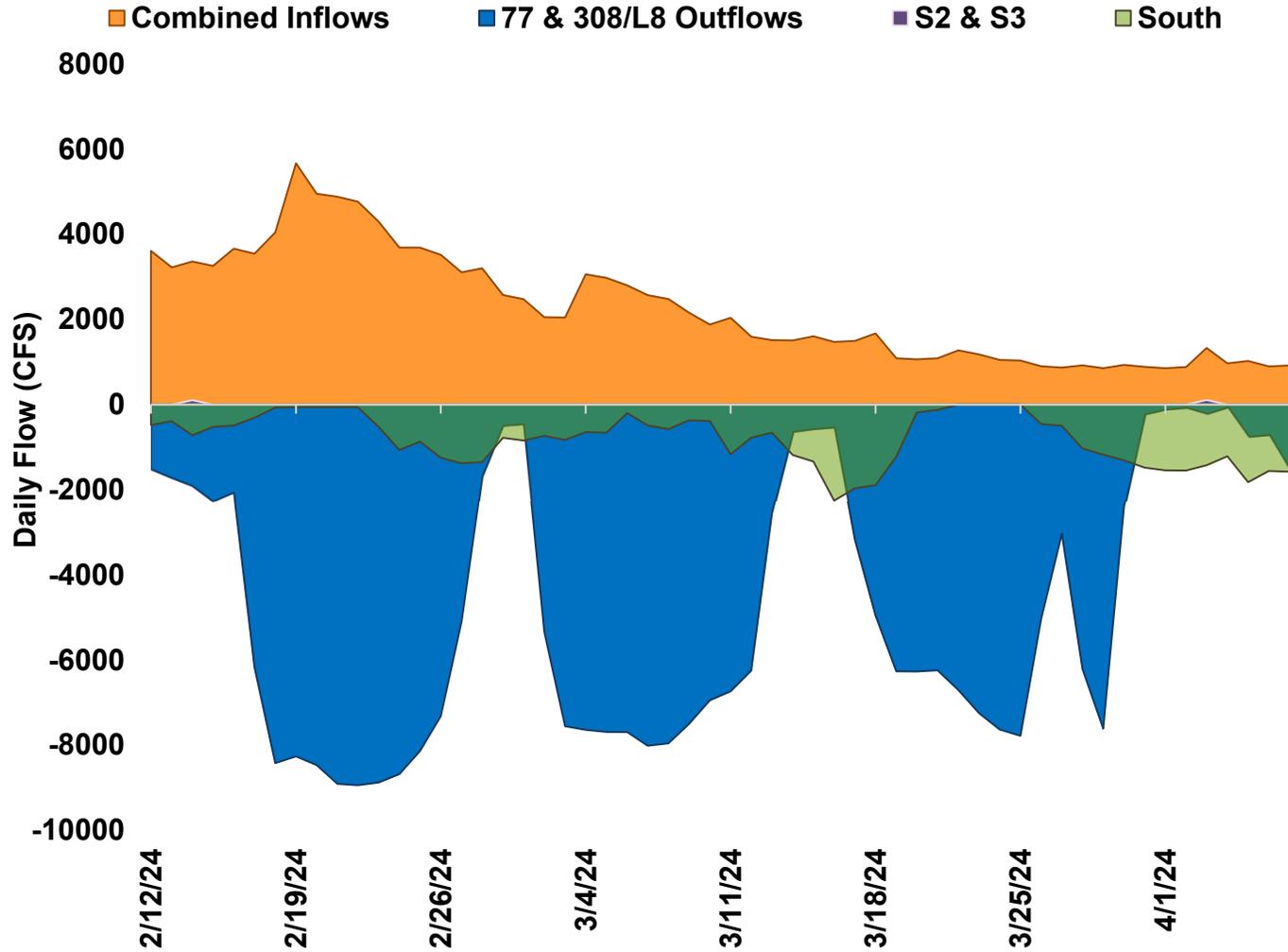
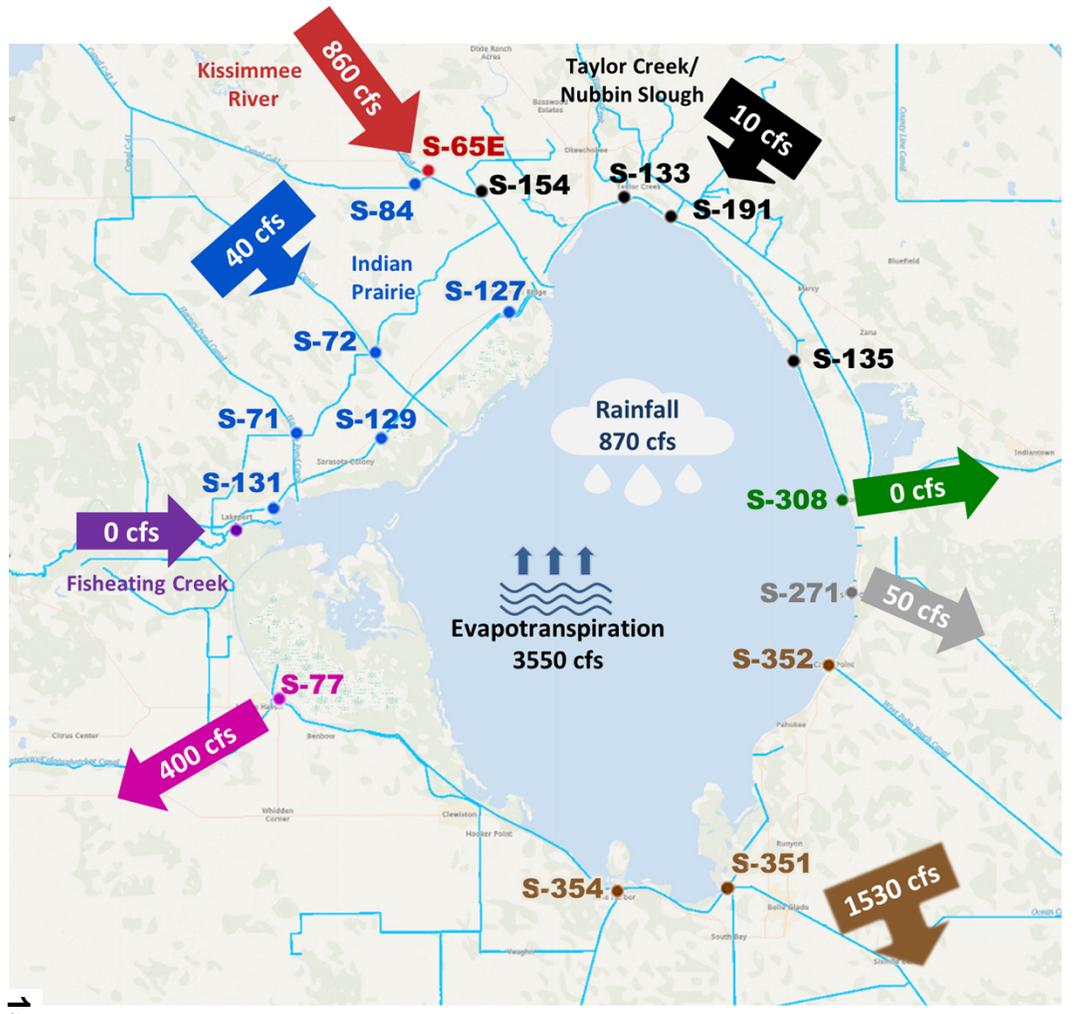


Lake Okeechobee Hydrology

(*Provisional Data)

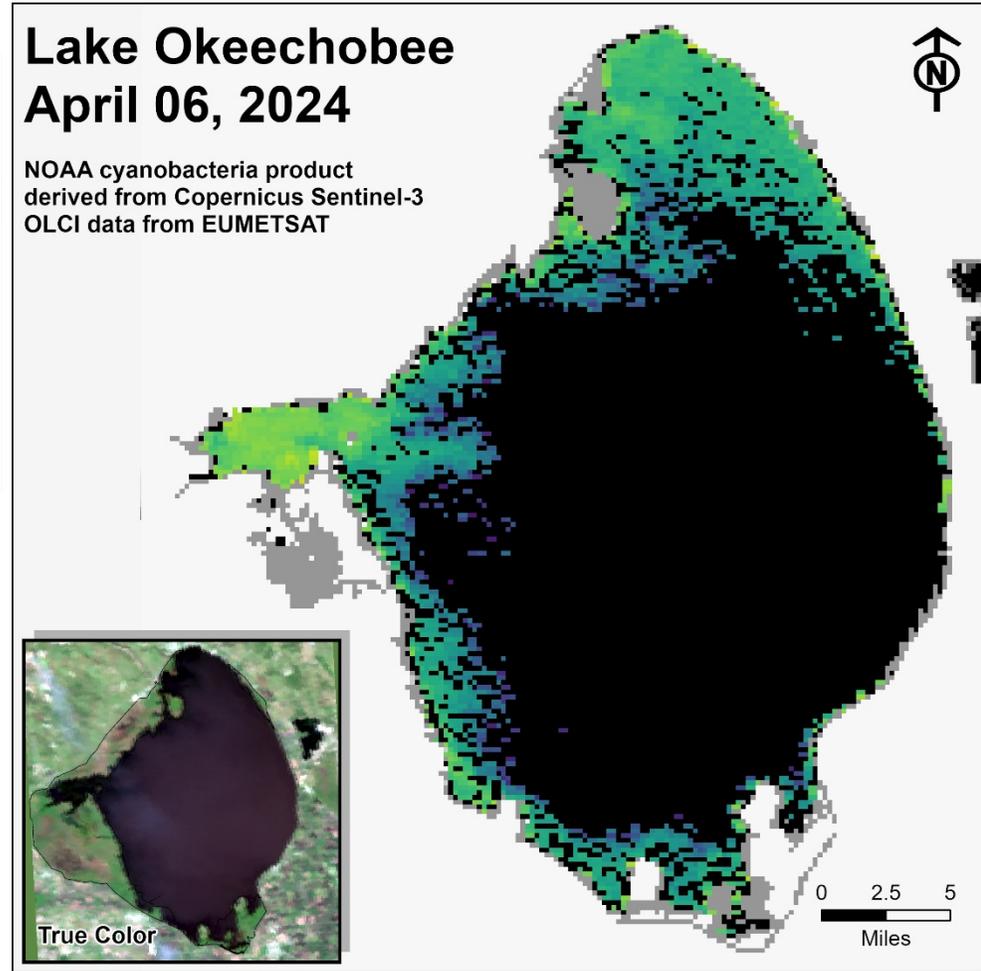
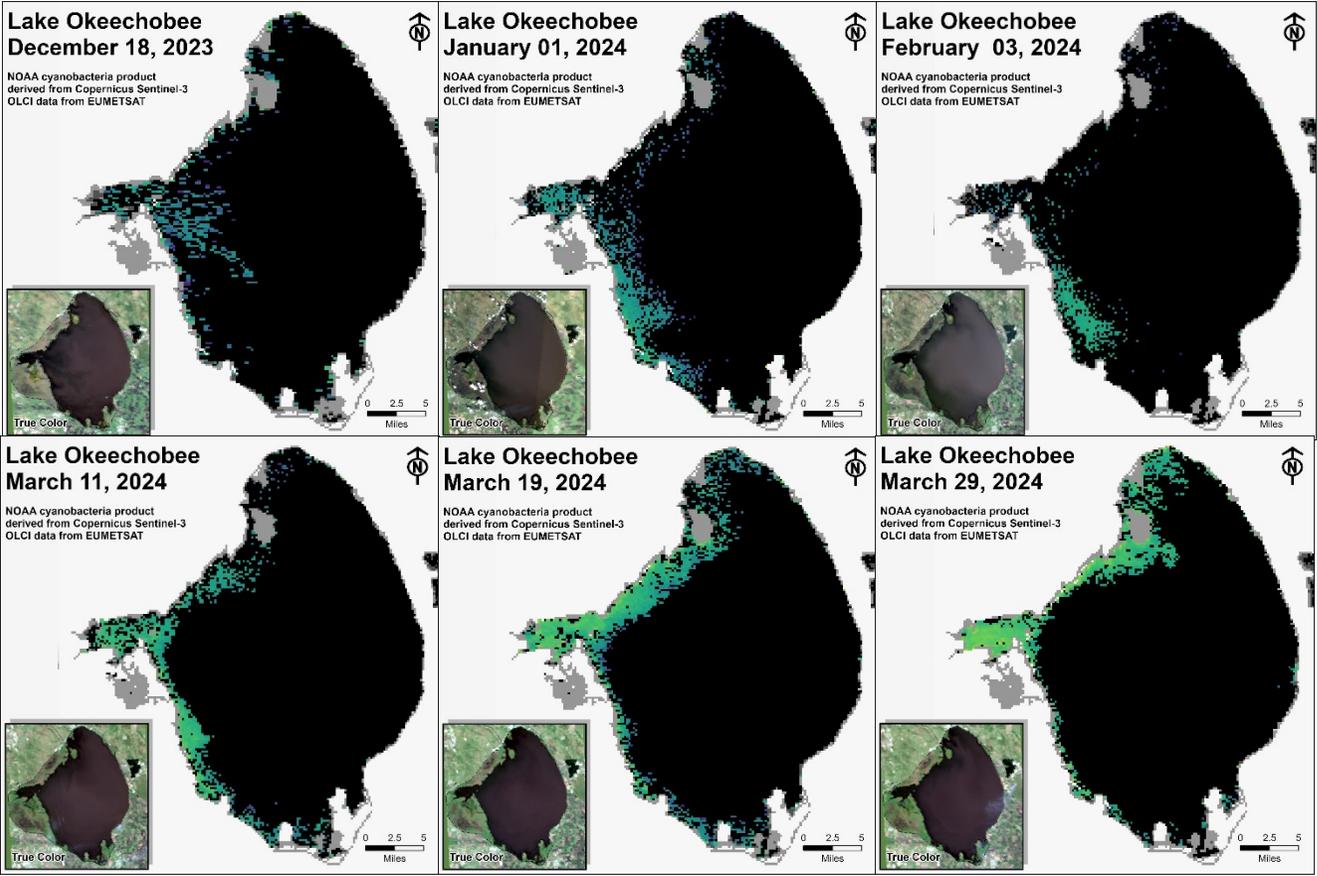
Apr 01- 07, 2024 Inflows and Outflows

Prior 8 Weeks Inflows and Outflows



Lake Okeechobee

Cyanobacteria Bloom Distribution and Intensity



NOAA cyanobacteria product derived from Copernicus Sentinel-3 OLCI data from EUMETSAT

Lake Okeechobee

Chlorophyll *a*, Total Microcystins, and Dominant Taxa

Collection Date: March 12-13, 2024

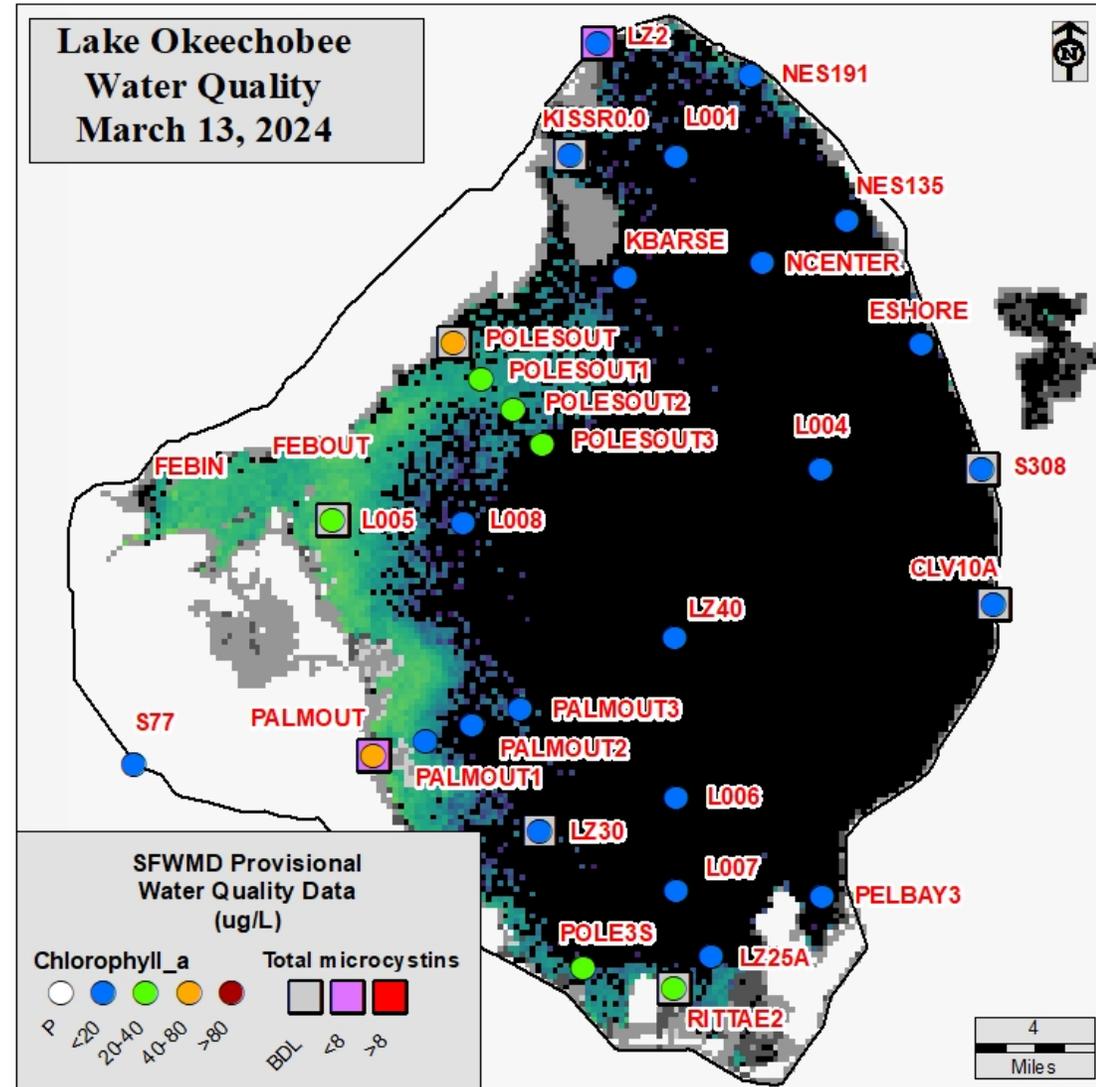
Station	CHL <i>a</i> (ug/L)	TOXIN (ug/L)	TAXA
FEBIN			
FEBOUT			
KISSR0.0	16.6	BDL	<i>mixed</i>
L005	36.6	BDL	<i>Dolichos</i>
LZ2	11.4	0.3	<i>Microcys</i>
KBARSE	10.8		
RITTAE2	38.4	BDL	<i>Microcys</i>
PELBAY3	14.8		
POLE3S	34.0		
LZ25A	13.8		
PALMOUT	40.5	0.3	<i>Microcys</i>
PALMOUT1	14.6		
PALMOUT2	11.5		
PALMOUT3	15.4		
POLESOUT	40.5	BDL	<i>Microcys</i>
POLESOUT1	37.9		
POLESOUT2	20.6		
POLESOUT3	21.1		
EASTSHORE	5.5		
NES135	4.7		
NES191	5.0		

Station	CHL <i>a</i> (ug/L)	TOXIN (ug/L)	TAXA
L001	6.4		
L004	4.6		
L006	9.3		
L007	17.3		
L008	9.8		
LZ30	9.6	BDL	<i>Microcys</i>
LZ40	5.4		
CLV10A	4.8	BDL	<i>mixed</i>
NCENTER	3.8		

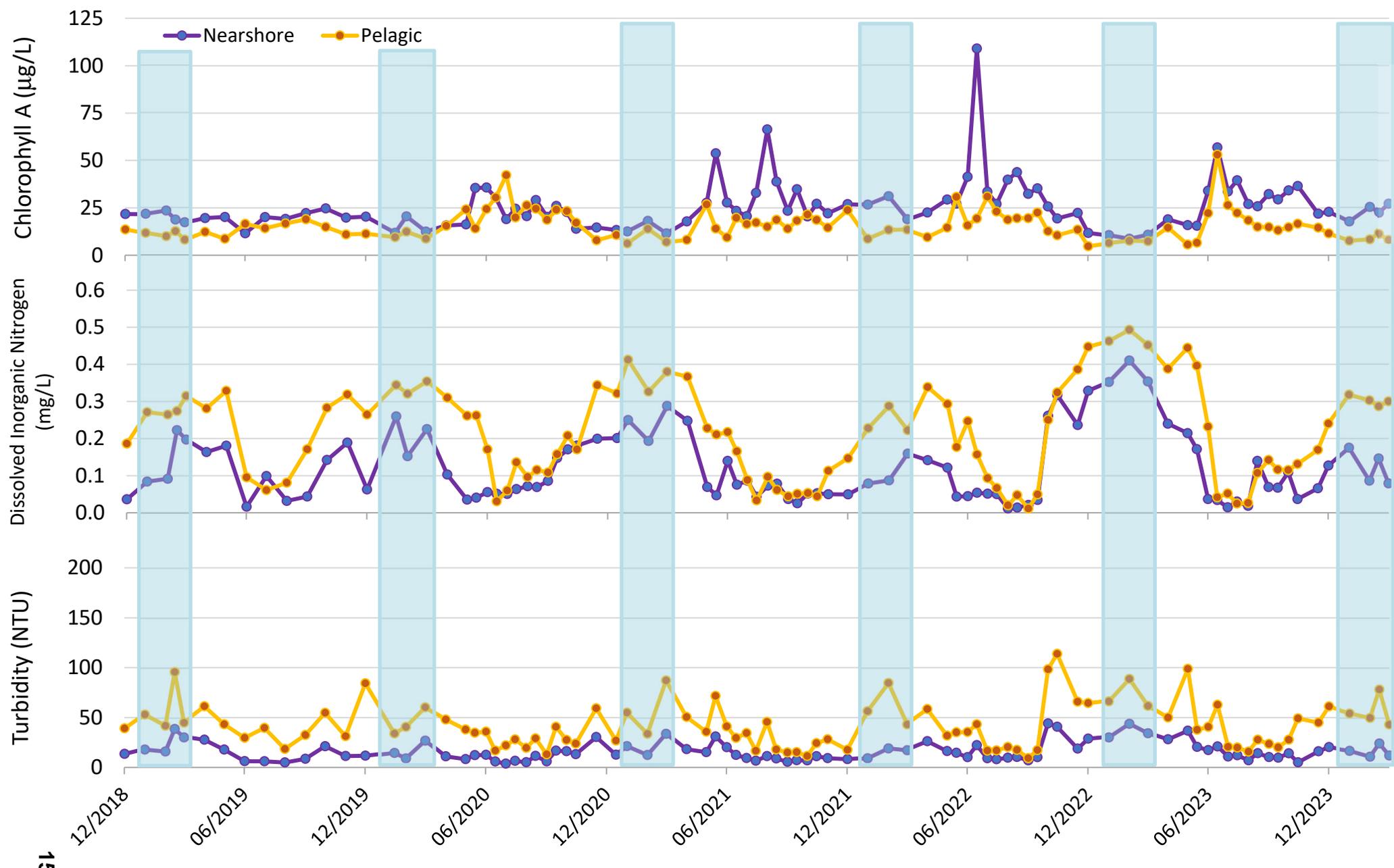
Collected March 4th

S308C	2.4	BDL	<i>mixed</i>
S77	18.4		

- SFWMD considers >40 µg/L Chlorophyll *a* (Chl*a*) an algal bloom
 - BDL – Below Detectable Limit of 0.25 µg/L
 - ND – No Dominant taxa
 - P – Pending (white squares)
 - NS – Not Sampled
 - Station bold font – crew observed possible BGA
 - Chlorophyll *a* analyzed by SFWMD
 - Toxin and Taxa analyzed by FDEP:
- Microcys* = *Microcystis*; *Cylindro* = *Cylindrospermopsis*;
Planktol = *Planktolyngbya*; *Dolicho* = *Dolichospermum*;
Coelosph = *Coelosphaerium*



Lake Okeechobee Water Quality Time Series 2019-Present (Provisional Data)

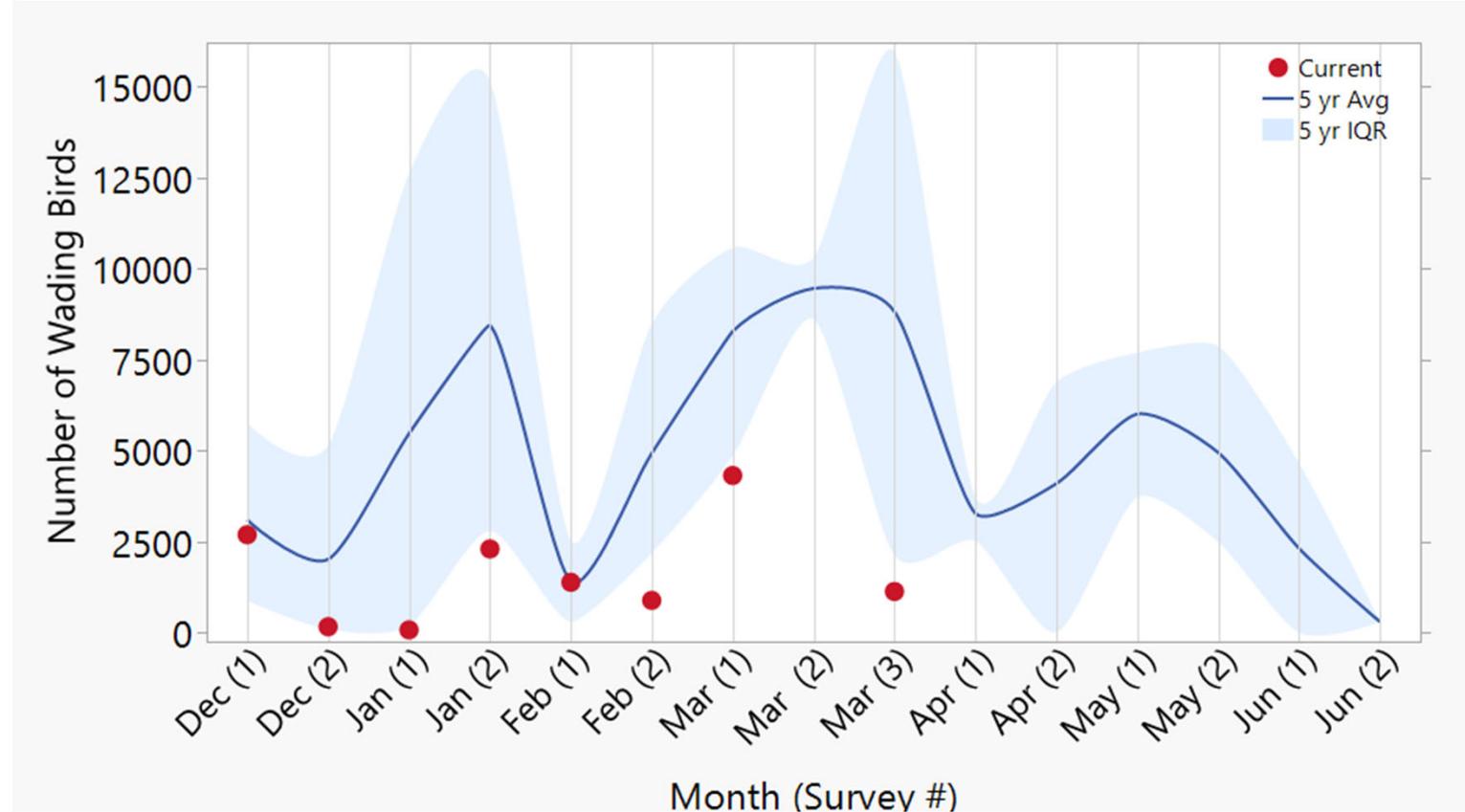
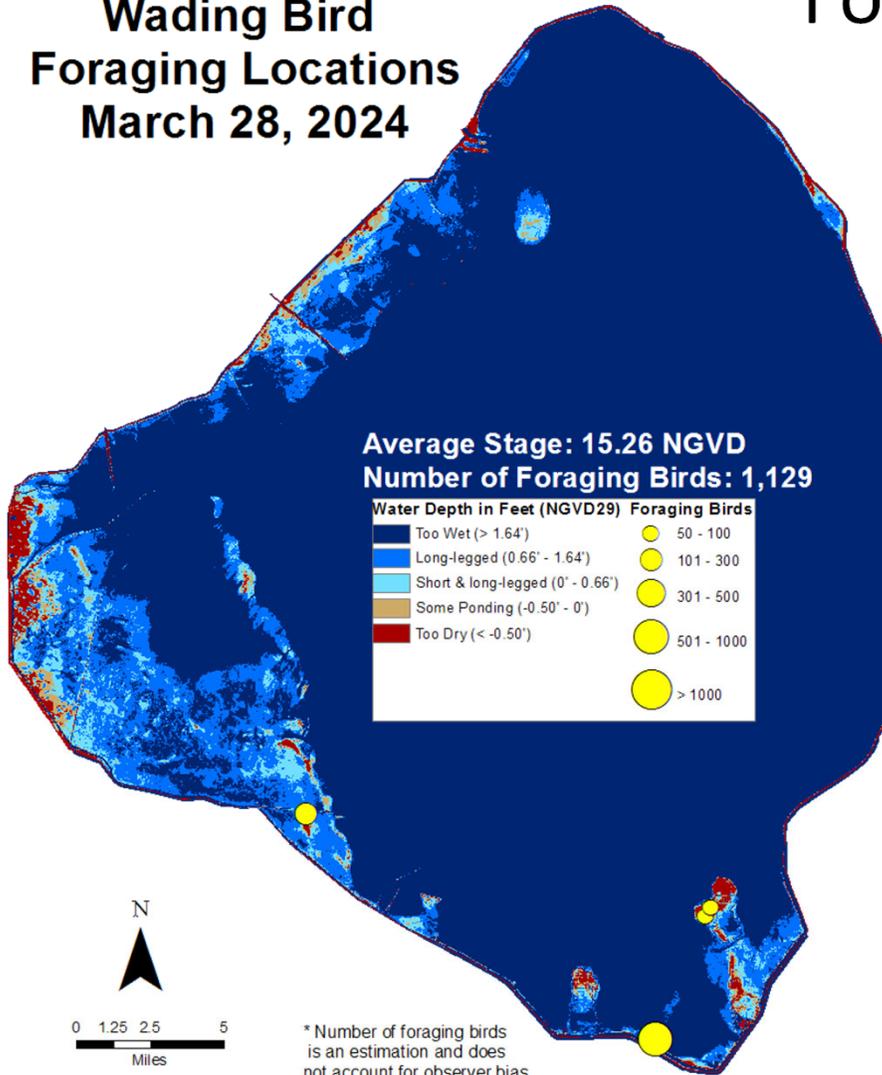


Current time period
(Jan - Mar)

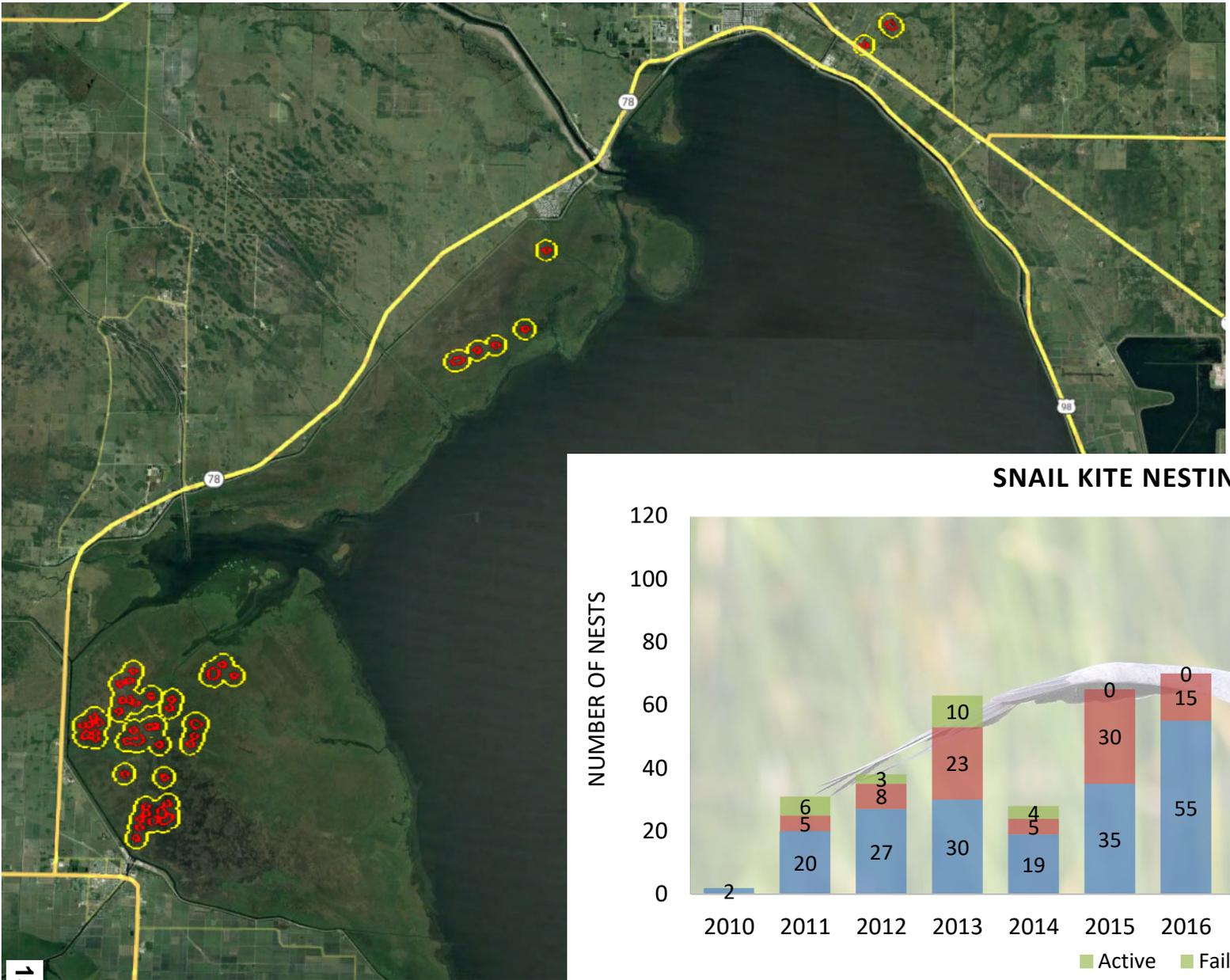
Lake Okeechobee

Foraging Wading Birds

Wading Bird
Foraging Locations
March 28, 2024

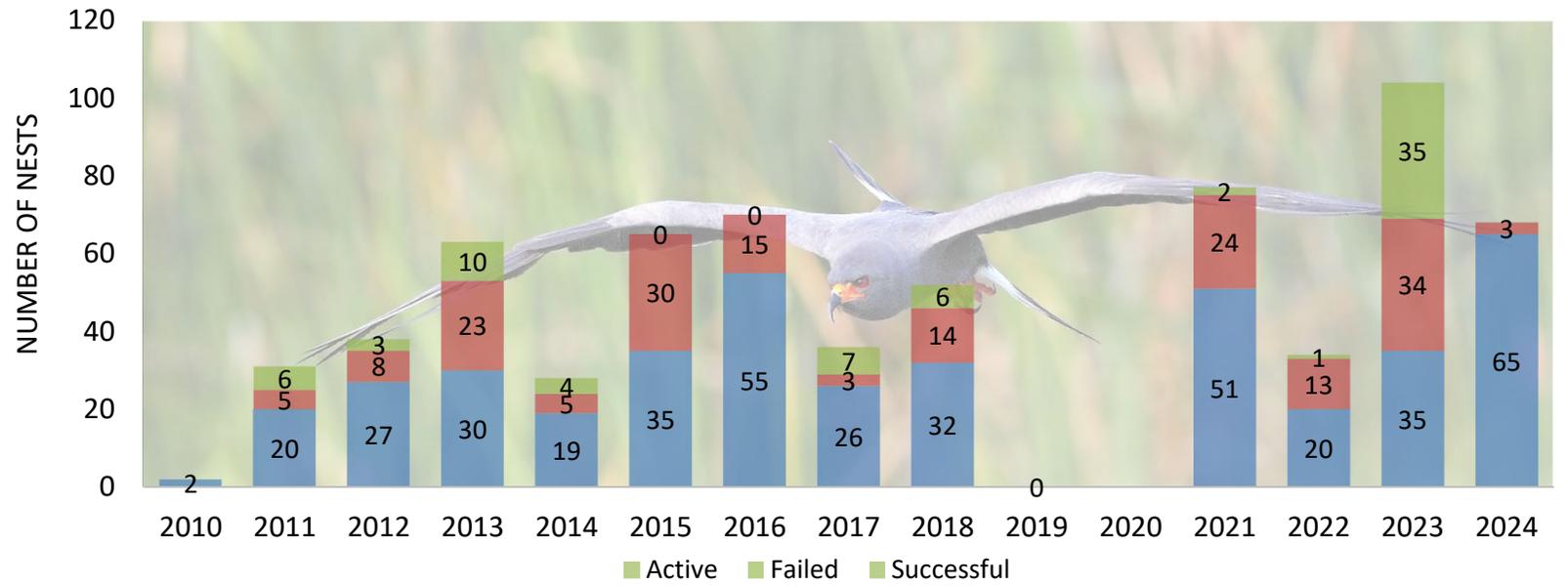


* Number of foraging birds is an estimation and does not account for observer bias

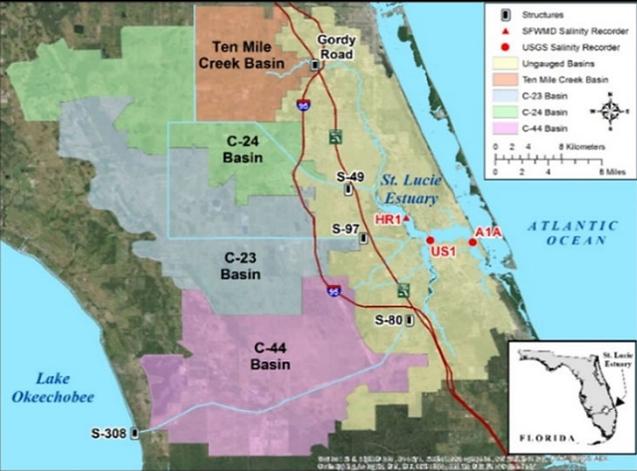


Lake Okeechobee Snail Kite Nesting

SNAIL KITE NESTING THROUGH APRIL



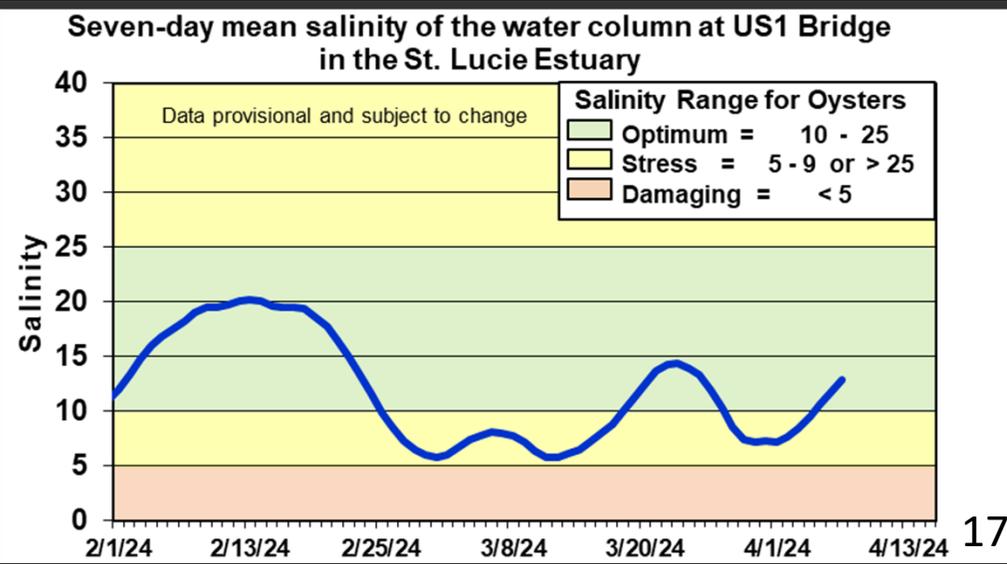
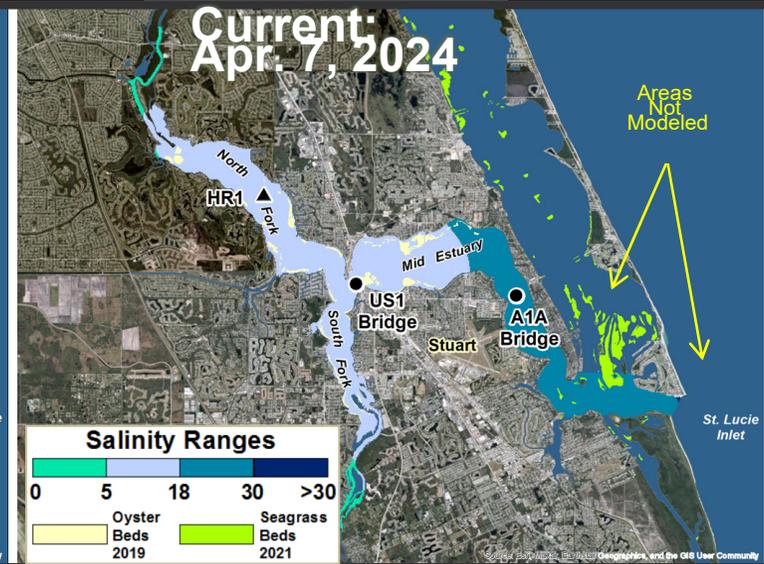
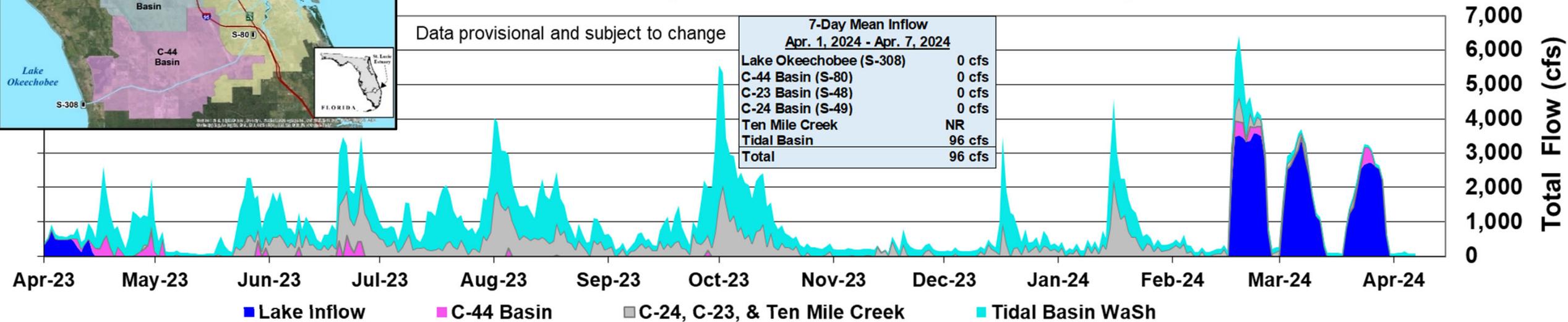
St. Lucie Inflows and Salinity Conditions



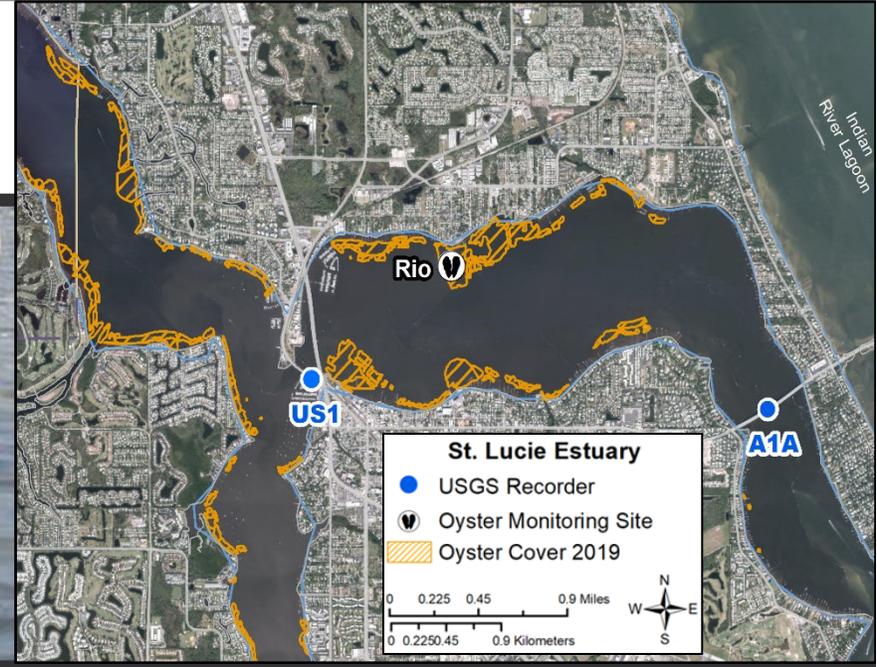
Total Daily Inflow into the St. Lucie Estuary

Data provisional and subject to change

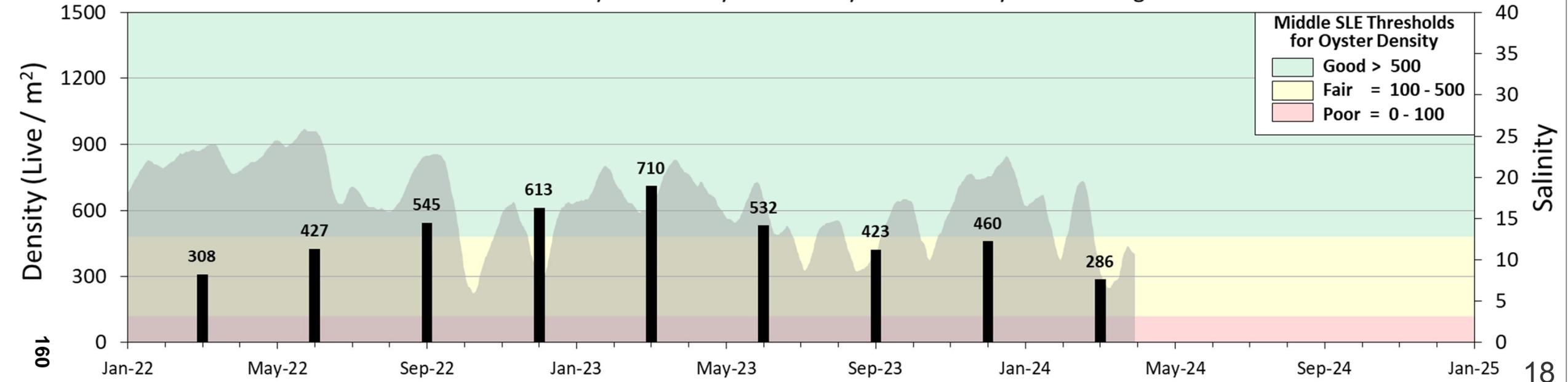
7-Day Mean Inflow Apr. 1, 2024 - Apr. 7, 2024	
Lake Okeechobee (S-308)	0 cfs
C-44 Basin (S-80)	0 cfs
C-23 Basin (S-48)	0 cfs
C-24 Basin (S-49)	0 cfs
Ten Mile Creek Tidal Basin	96 cfs
Total	96 cfs



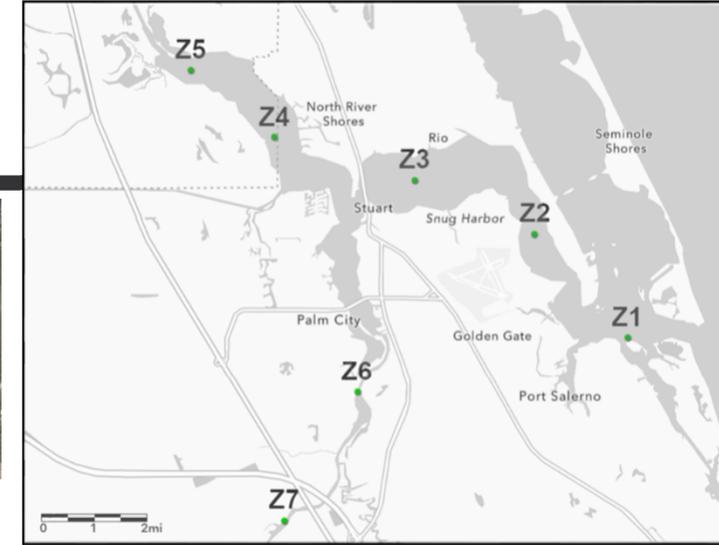
St. Lucie Estuary – Oyster Density



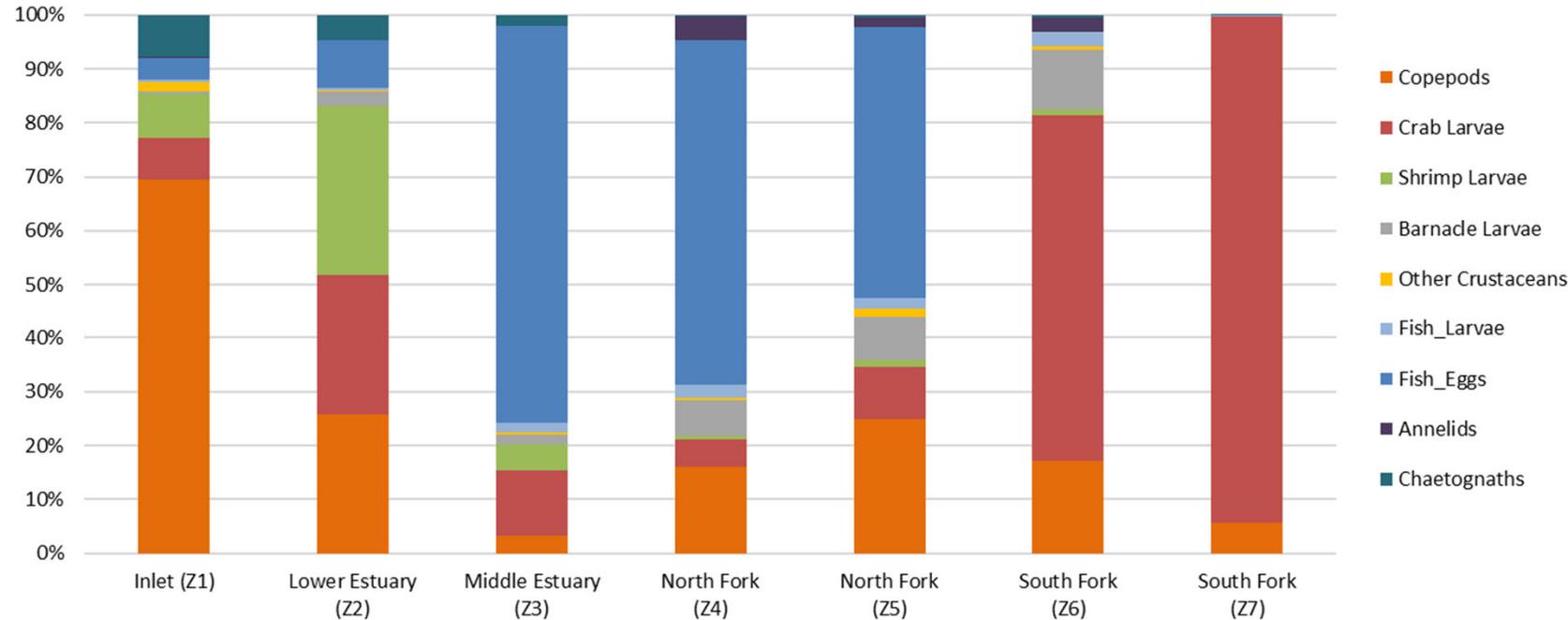
2022 - 2024 Rio Oyster Density and 14-Day Mean Salinity at US1 Bridge



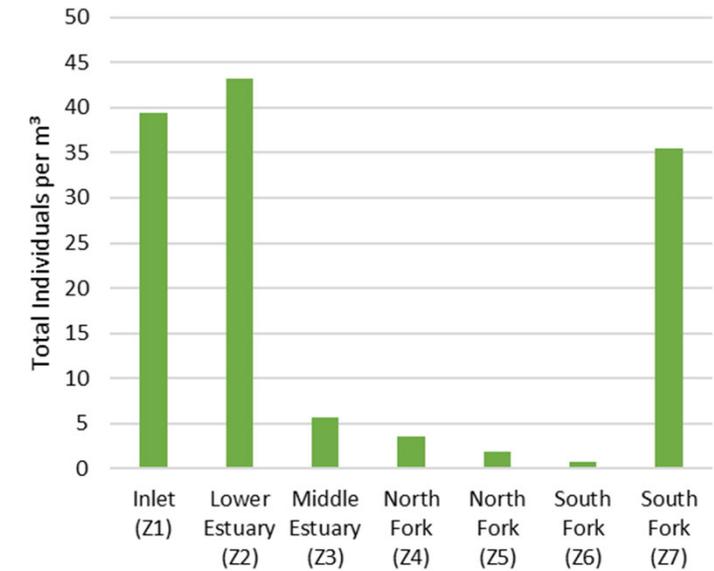
St. Lucie Estuary – Zooplankton Monitoring



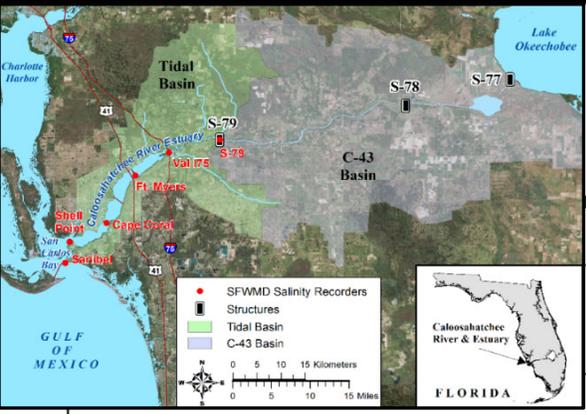
Zooplankton Communities in the SLE February 2024



Zooplankton Densities February 2024



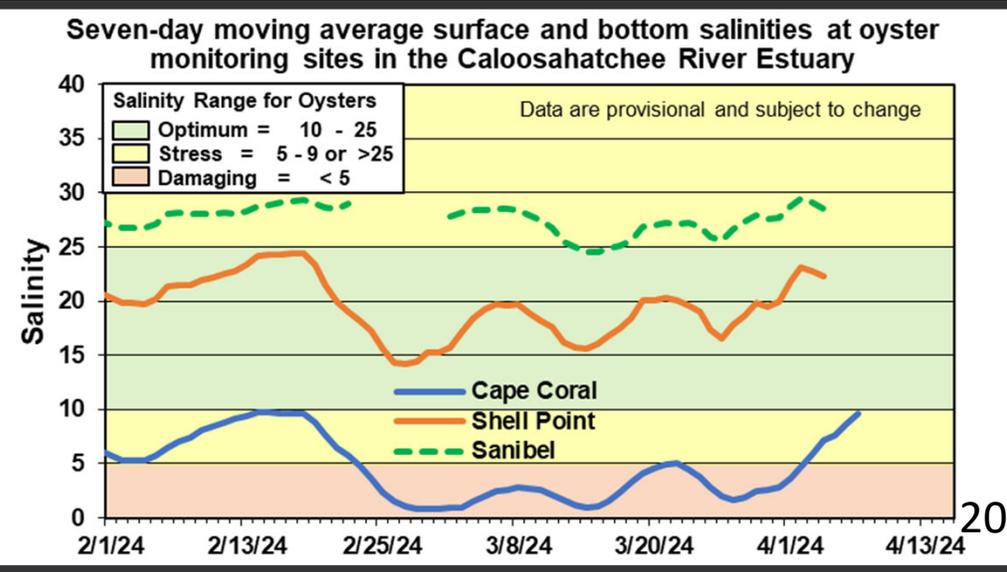
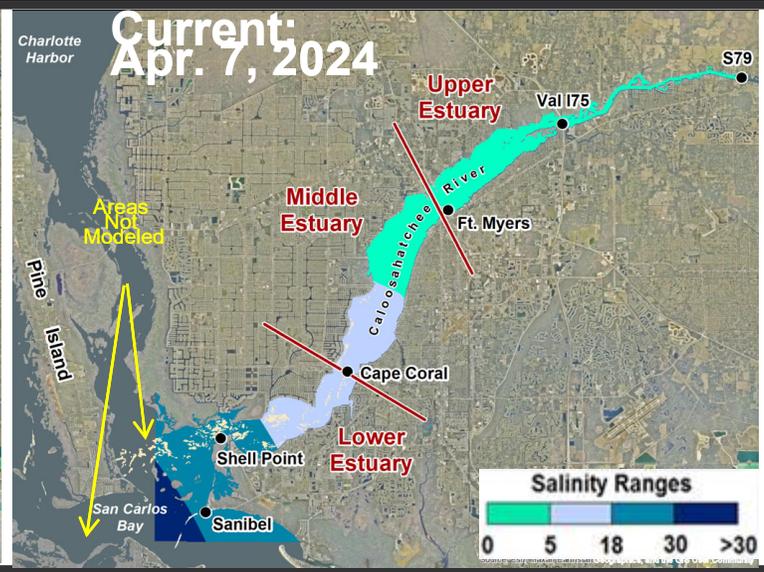
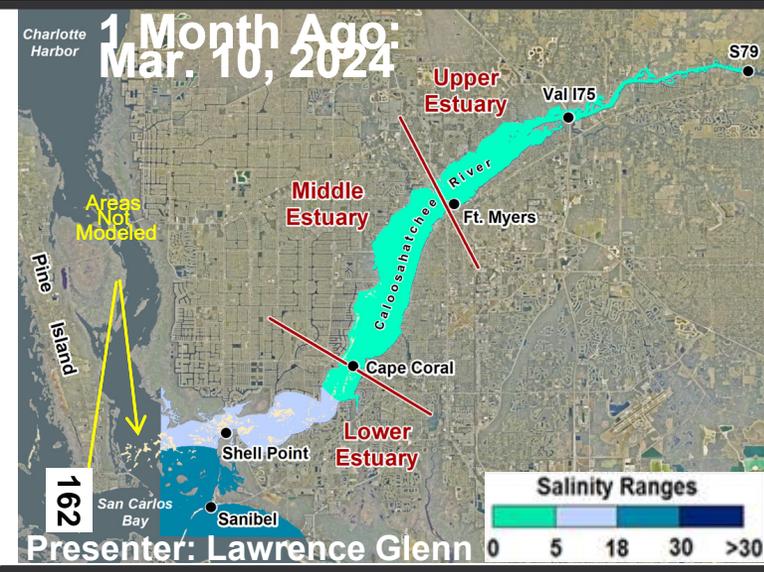
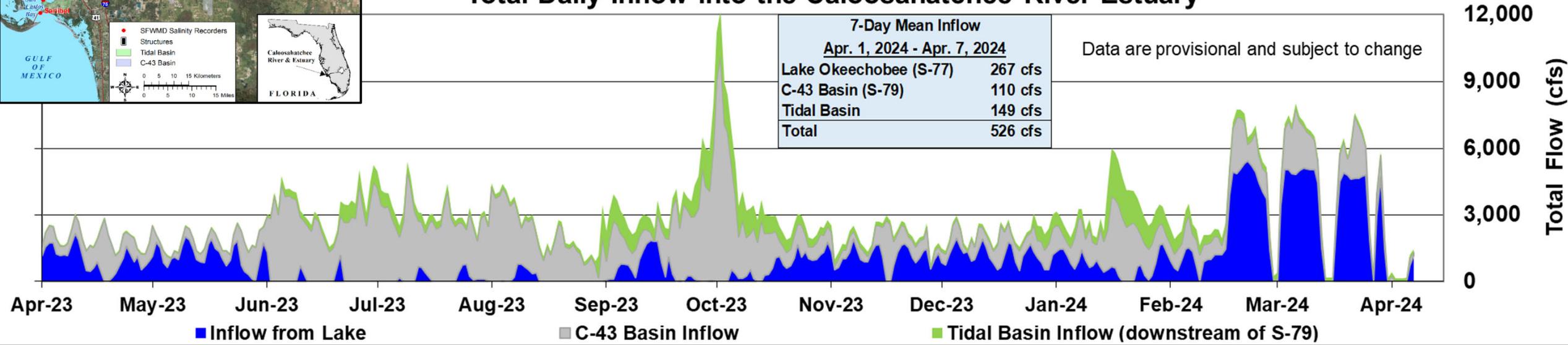
Caloosahatchee Inflows and Salinity Conditions



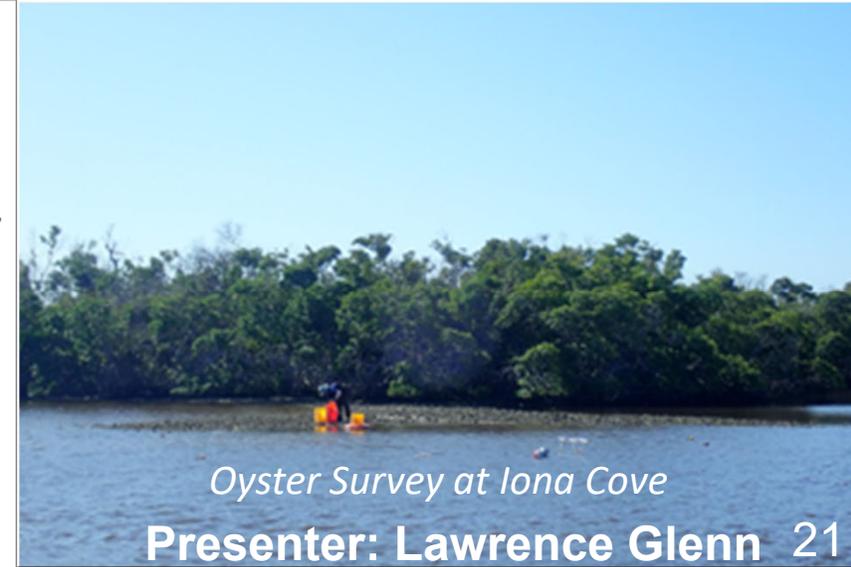
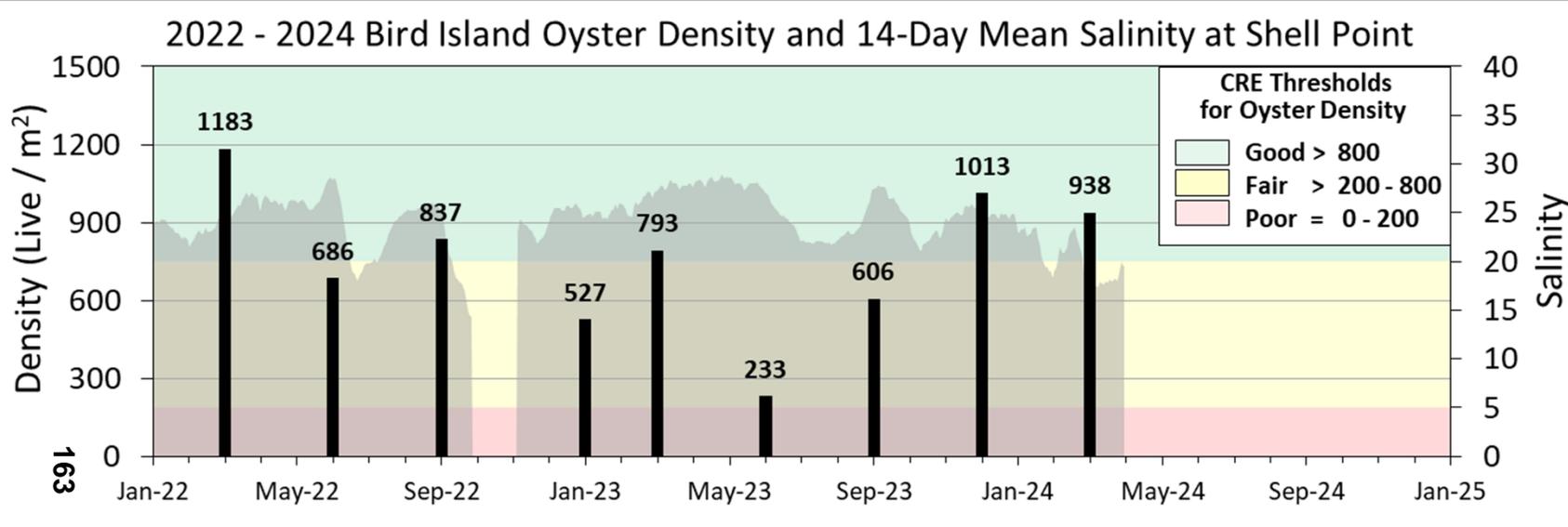
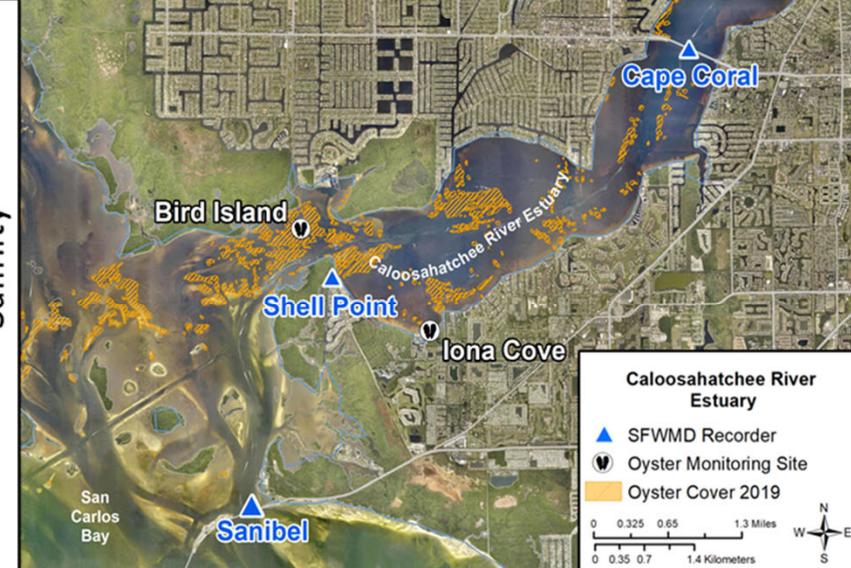
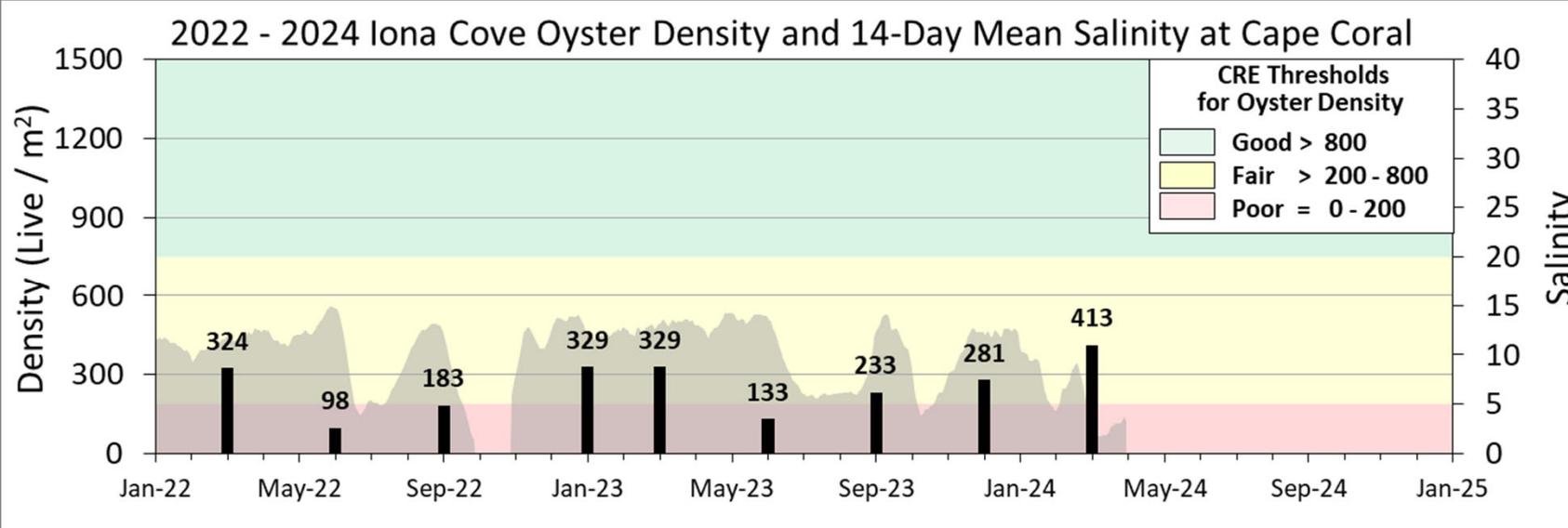
Total Daily Inflow into the Caloosahatchee River Estuary

7-Day Mean Inflow Apr. 1, 2024 - Apr. 7, 2024	
Lake Okeechobee (S-77)	267 cfs
C-43 Basin (S-79)	110 cfs
Tidal Basin	149 cfs
Total	526 cfs

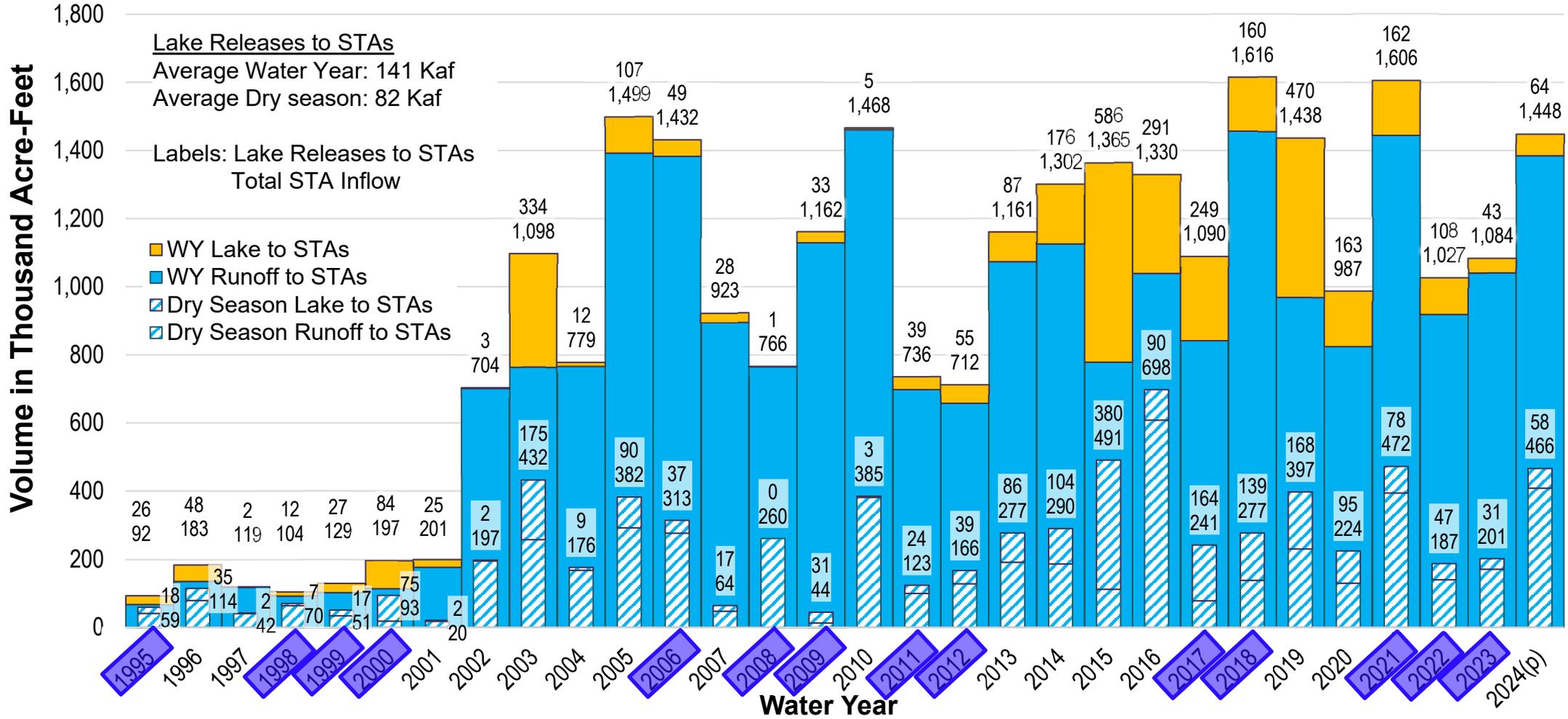
Data are provisional and subject to change



Caloosahatchee Estuary – Oyster Density



Total STA Inflow and Lake Releases to STAs



2024(p): Data from May 1, 2023 to April 7, 2024. Total STA Inflow includes inflows to STA-1E, STA-1W, STA-2, STA-3/4, and STA-5/6.

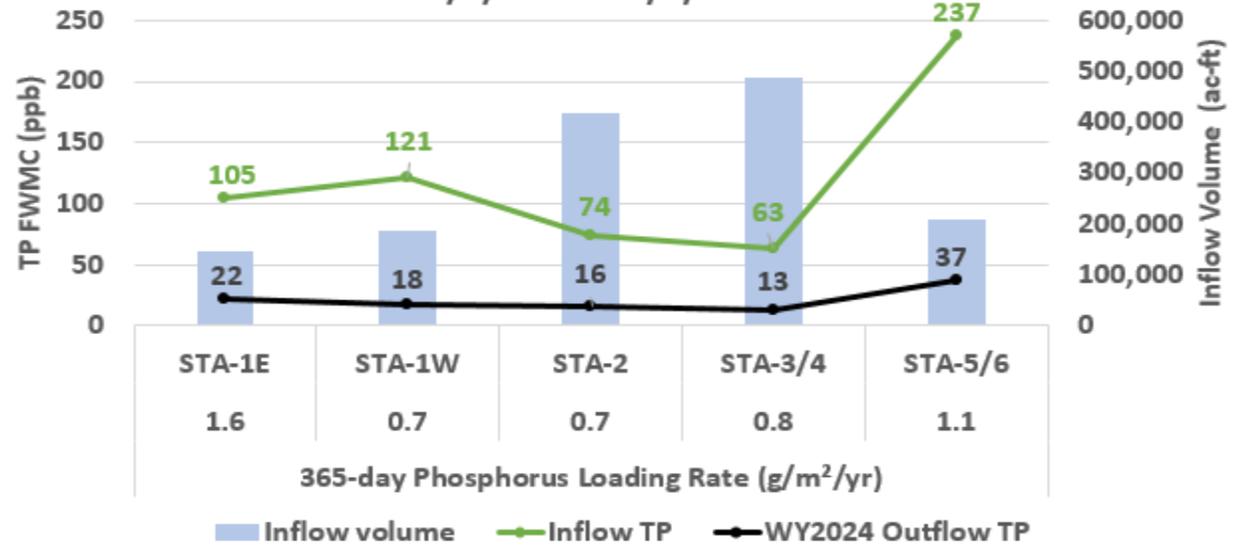
La Niña Water Years

Everglades Stormwater Treatment Areas - STAs

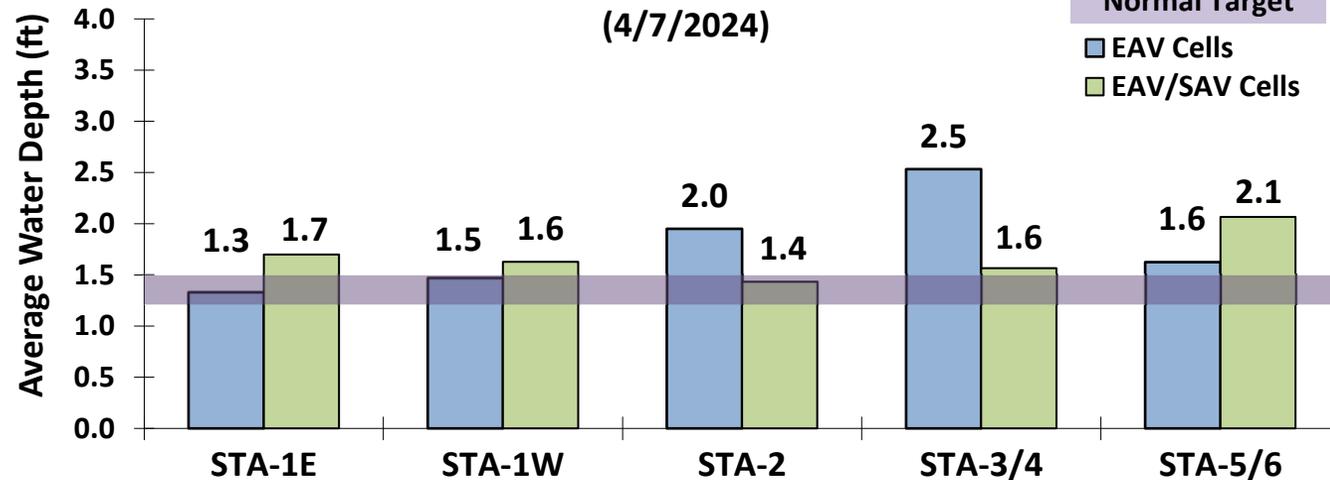
- STAs treated basin runoff and Lake Okeechobee releases in March
 - Total WY2024 inflows to STAs (5/1/2023 to 4/7/2024): ~1,448,000 ac-ft
 - Lake Okeechobee releases to FEBs/STAs in WY2024: ~63,600 ac-ft
- Extensive vegetation management activities underway to address stressed and highly stressed vegetation in EAV cells
- Most treatment cells are at or above target water depth

Water Year 2024
5/1/2023 to 4/7/2024

Includes Preliminary Data



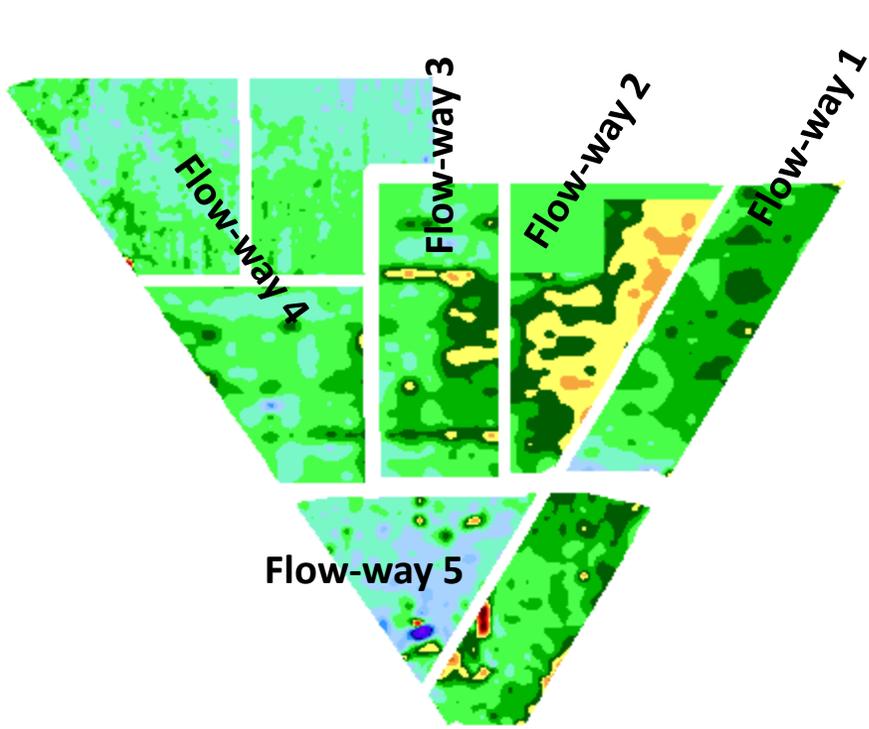
Water Depths (4/7/2024)



Includes preliminary data; Emergent Aquatic Vegetation (EAV); Submerged Aquatic Vegetation

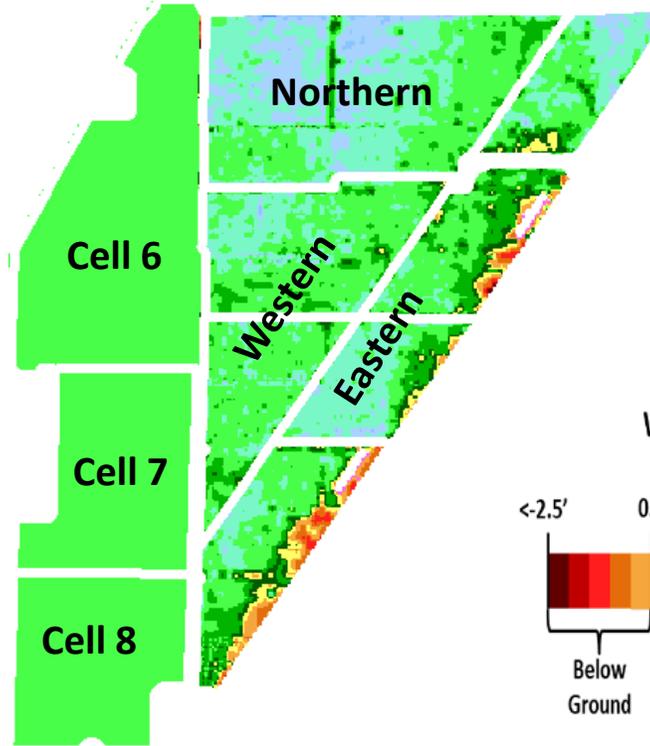


Stormwater Treatment Areas Water Depths



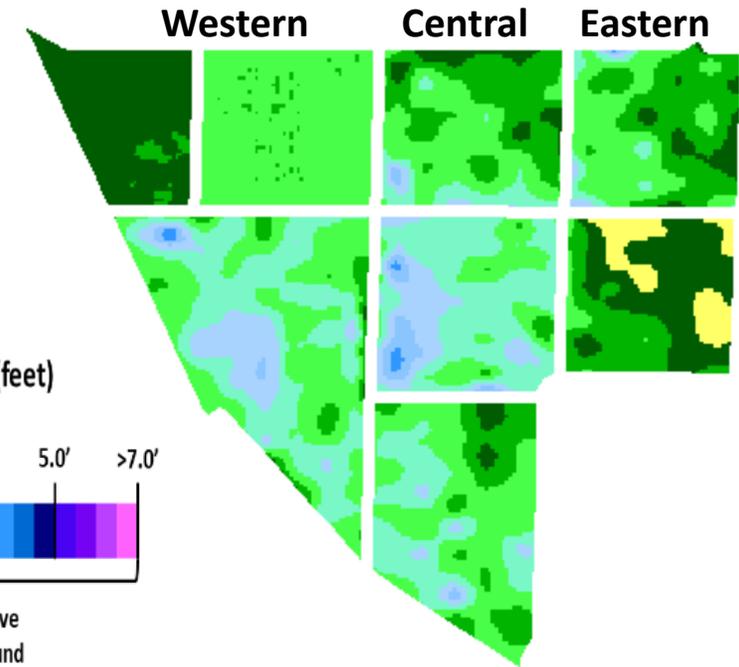
Flow-Way	Restrictions
1	On-line; upstream nuisance vegetation control
2	On-line; vegetation management; upstream nuisance vegetation control
3	On-line; upstream nuisance vegetation control
4	On-line; vegetation management; upstream nuisance vegetation control
5	On-line; upstream nuisance vegetation control

STA-2



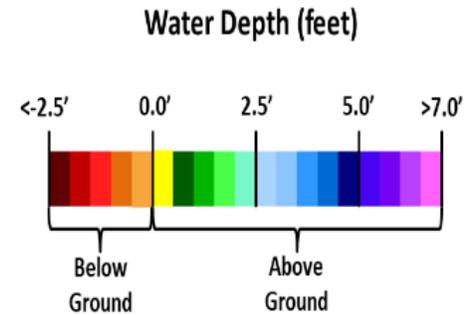
Flow-way	Restrictions
Northern	On-line; vegetation management
Eastern	On-line
Western	On-line
Cell 7	On-line
Cell 8	On-line

STA-1W

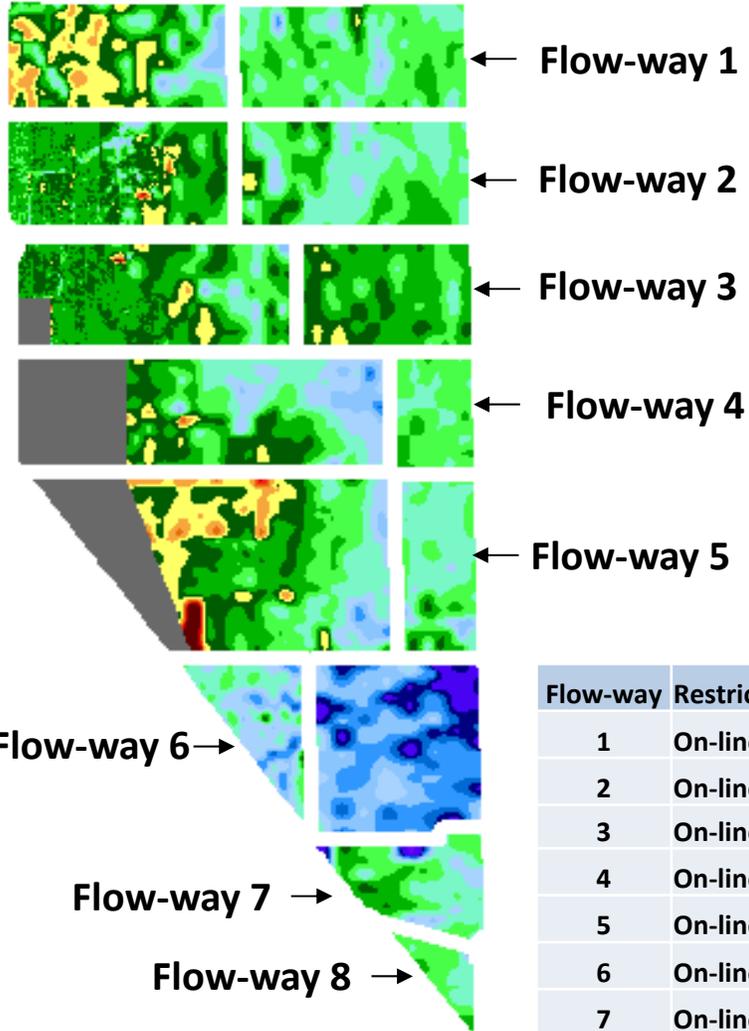


Flow-way	Restrictions	Back on-line
Western	On-line; post-construction grow in	
Central	On-line	
Eastern	Off-line; Cell 2 post-erosion repair vegetation grow-in	Fall 2024

STA-1E

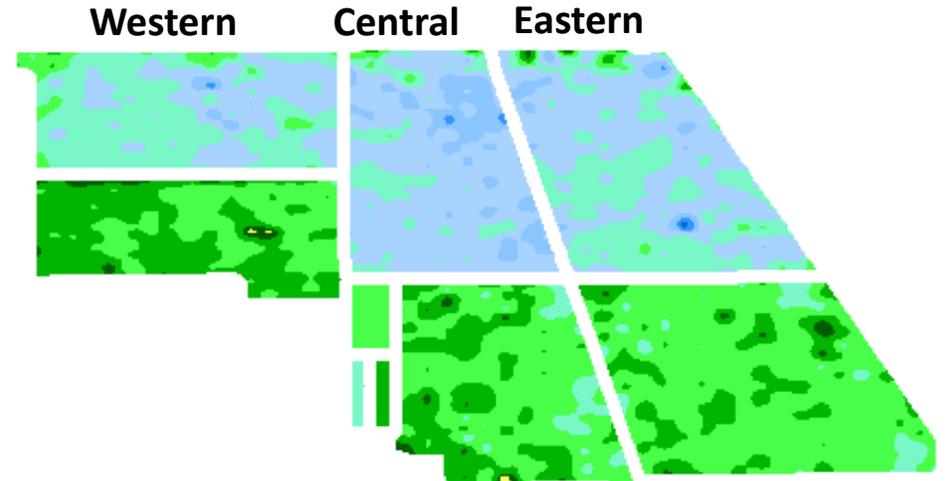
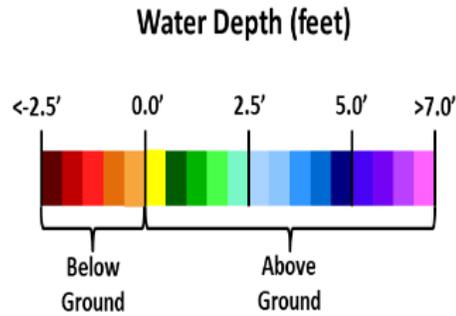


Stormwater Treatment Areas Water Depths



Flow-way	Restrictions
1	On-line
2	On-line
3	On-line
4	On-line; vegetation management
5	On-line
6	On-line
7	On-line
8	On-line

STA-5/6



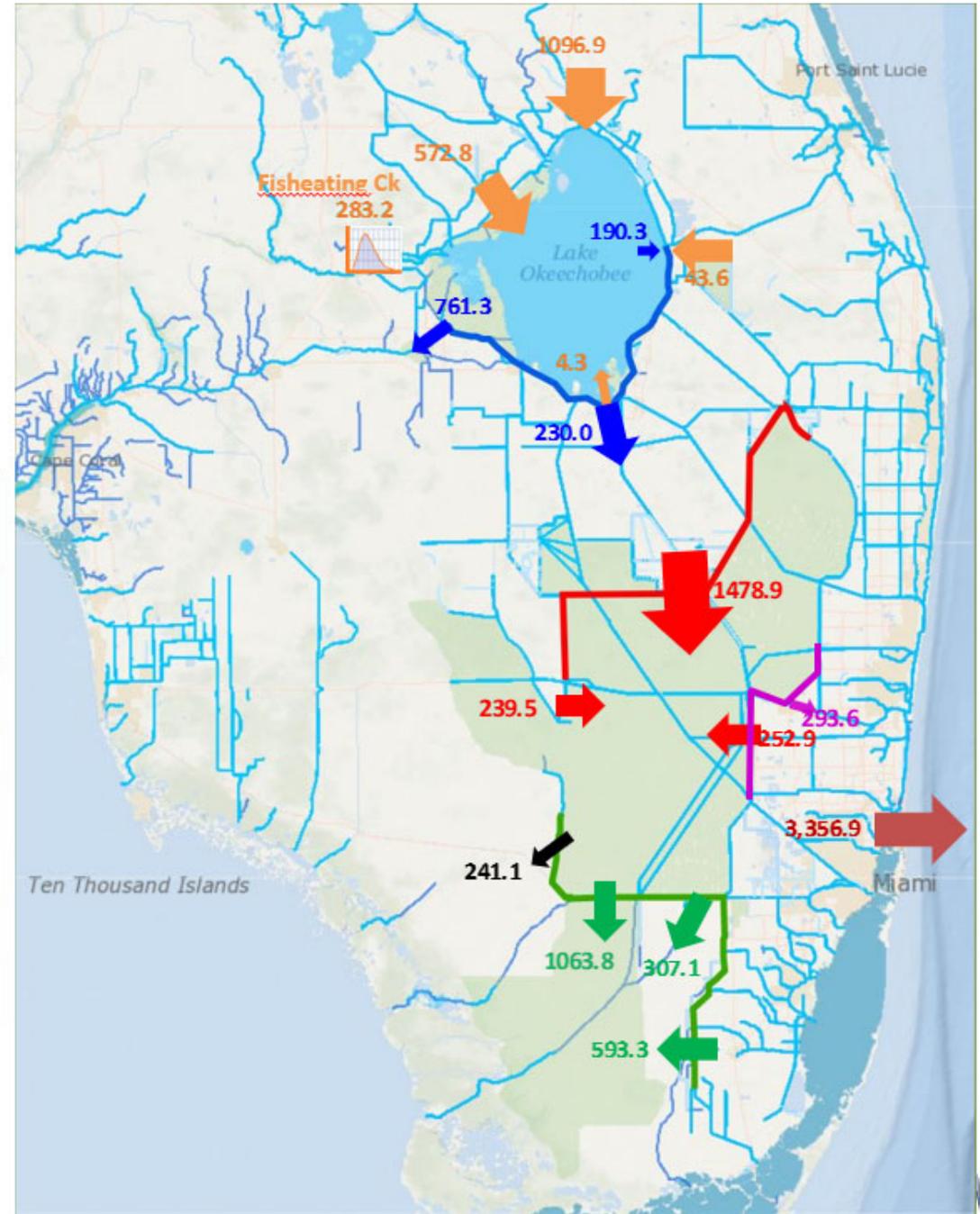
Flow-way	Restrictions
Western	On-line
Central	On-line
Eastern	On-line; post-drawdown vegetation grow-in

STA-3/4

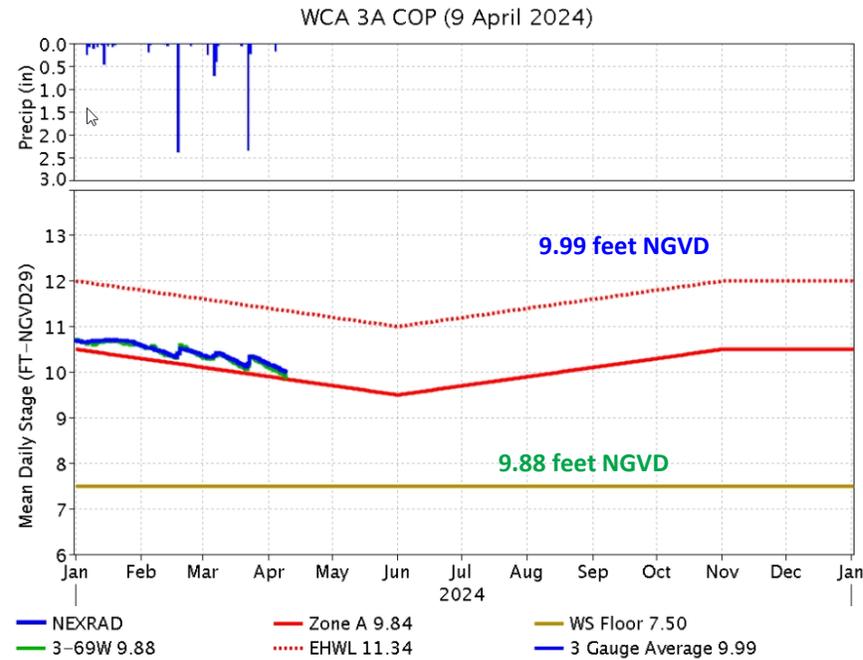
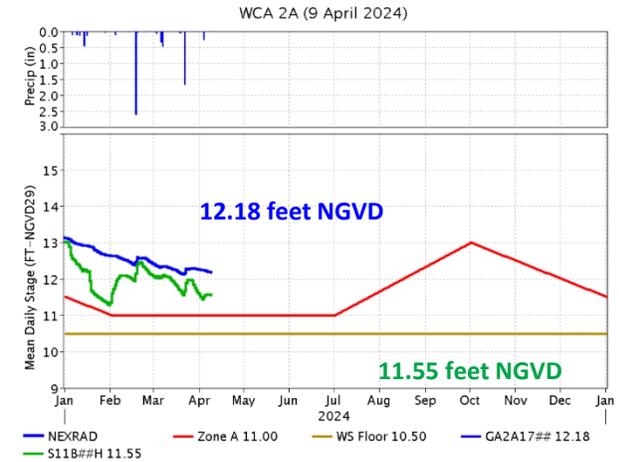
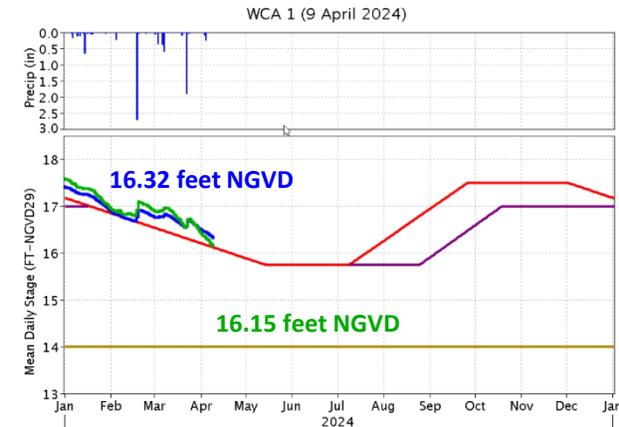
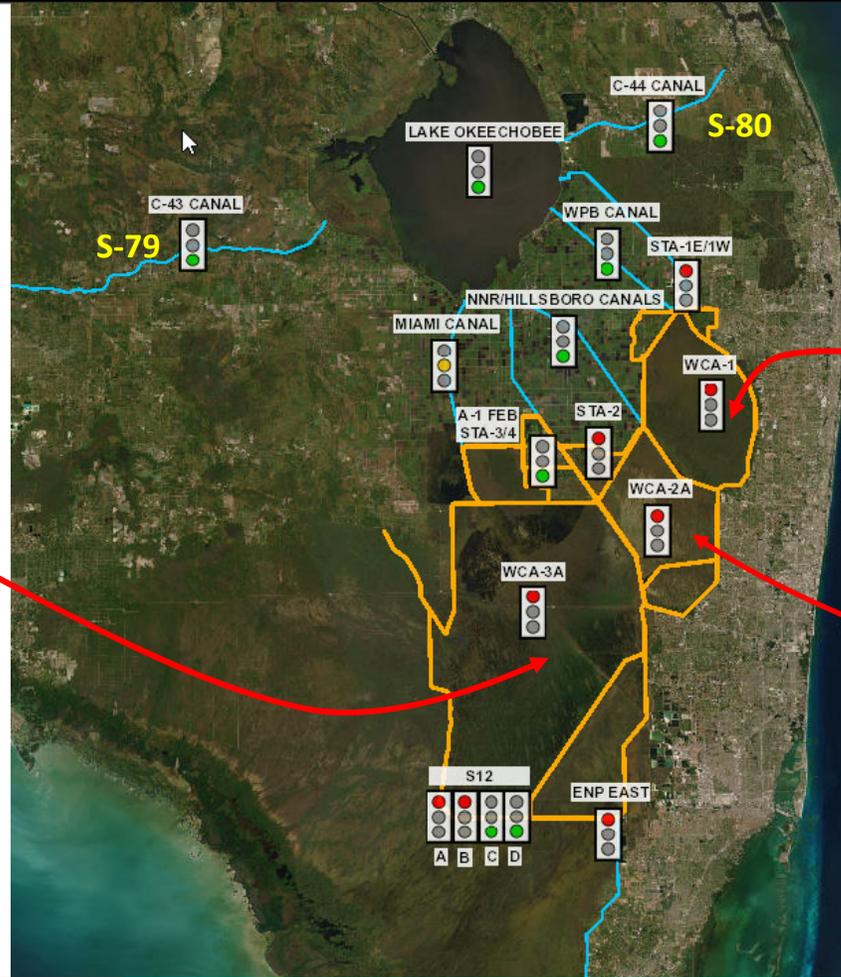
**SFWMD –Volumes Flowing
Down the System for the
Period May 1, 2023 to April 9, 2024**
(volumes in 1,000 acre-feet)

Symbol	Description	Volume (1,000 acre- feet)	
		WYR 2024	Last Month
	Lake Okeechobee Inflows	2000.7	70.8
	Lake Okeechobee Outflows	1181.6	283.7
	WCAs Inflows	1971.3	86.0
	ENP / Detention Cell Inflows	1964.2	133.0
	WCAs to East	293.6	72.9
	Flows to Intracoastal	3356.9	258.8

1,000 acre-feet = 325.9 Million Gallons



Lake Okeechobee stage is in the Low Sub-band of the LORS-2008 Regulation schedule. LORS release guidance suggests Up to Maximum Practicable to the WCAs if desirable or with minimum Everglades impact; otherwise, no Releases to WCAs. S-79 up to 450 cfs and S-80 up to 200 cfs.



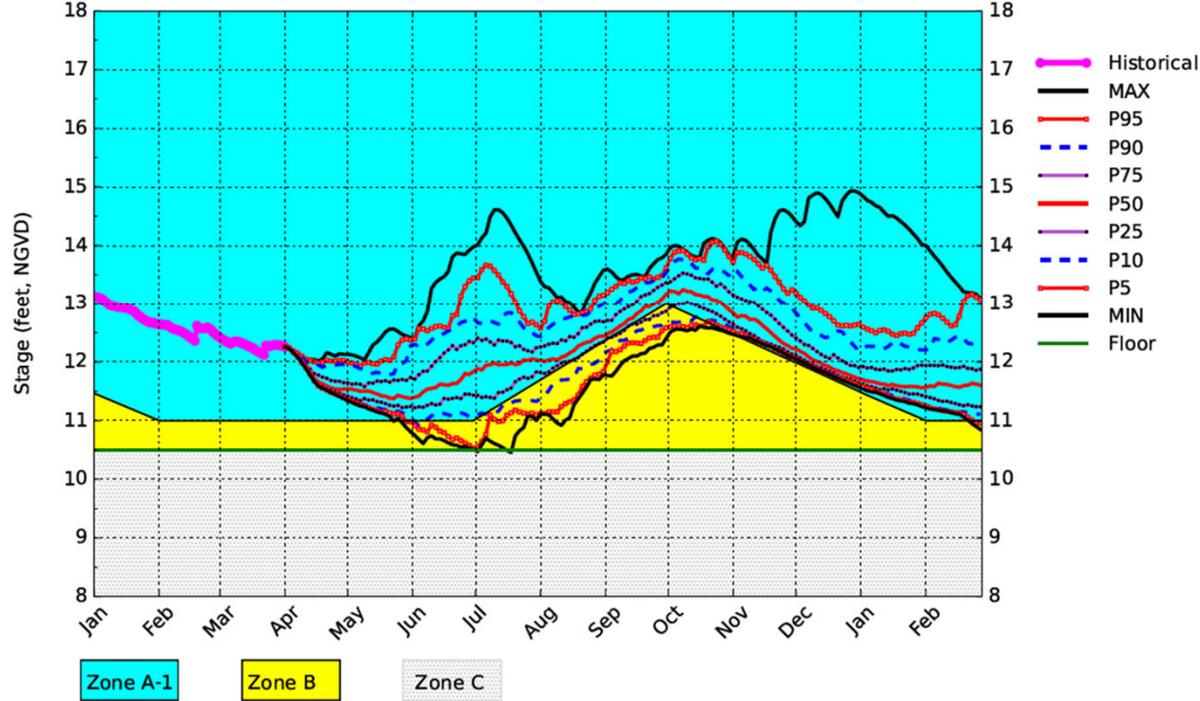
For this week, the Tamiami Trail Flow Formula calls for maximum releases from WCA-3A to NESRS. Current L-29 stage constraint is at 8.3 feet NGVD. South Dade Conveyance System is stable. S-335 and S-338 are open. S-356 is pumping. G-211 is closed. S-332B and D are pumping as needed. S-176 is closed and S-177 is closed on April 10. S-18C is currently open and S-197 was open mid-day March 23 to mid-day April 1. LPG-2 stage at 8.5 SMA is below ground. S-357 is pumping as needed to maintain stages 4.5 to 5.0 ft NGVD in the C-357 canal. S-199 and S-200 are secured due to CSSS constraints.

WCA-1 stage is above regulation schedule; WCA-2A stage is above regulation schedule; WCA-3A stage is above regulation schedule in Zone A. The WCA3A temporary operational planned deviation ended March 31. S-10s are closed. S11s are open ~500 cfs. S12A/B are closed, and S12C/D are fully open ~ 900 cfs. S-333 and S-333N are limited due to L-29 stage constraint ~ 600 cfs. S-343 A and B closed April 1. Interior structures to WCA-3A S-339 and S-340 are closed. WCA-1 releases to tide S-39 through Hillsboro Canal ~500 cfs ended April 9th. WCA-2A reg releases through C-14 (S-38 ~ 400 cfs) and NNR (S-34E ~ 150 cfs). WCA-3A to tide via S-151, S-31 into the C-6 canal and then S-26 (~400 cfs). South Miami-Dade agricultural drawdown continues (Since October 15th, operate S21A, S20F and S179 on the low stage range).

for sending water south for the period 04/01/2024 to 04/07/2024

WCA2A SFWMM April 2024 Position Analysis

Percentiles PA

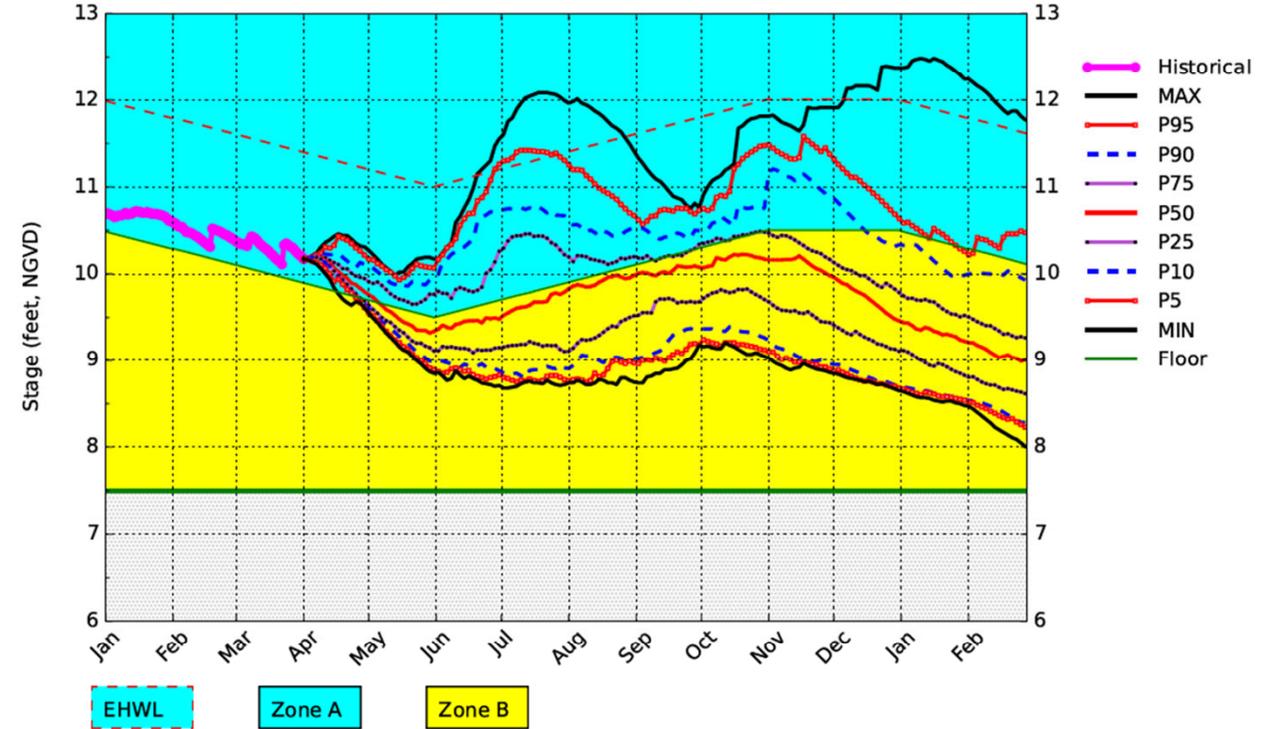


(See assumptions on the Position Analysis Results website)

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WCA3A SFWMM April 2024 Position Analysis

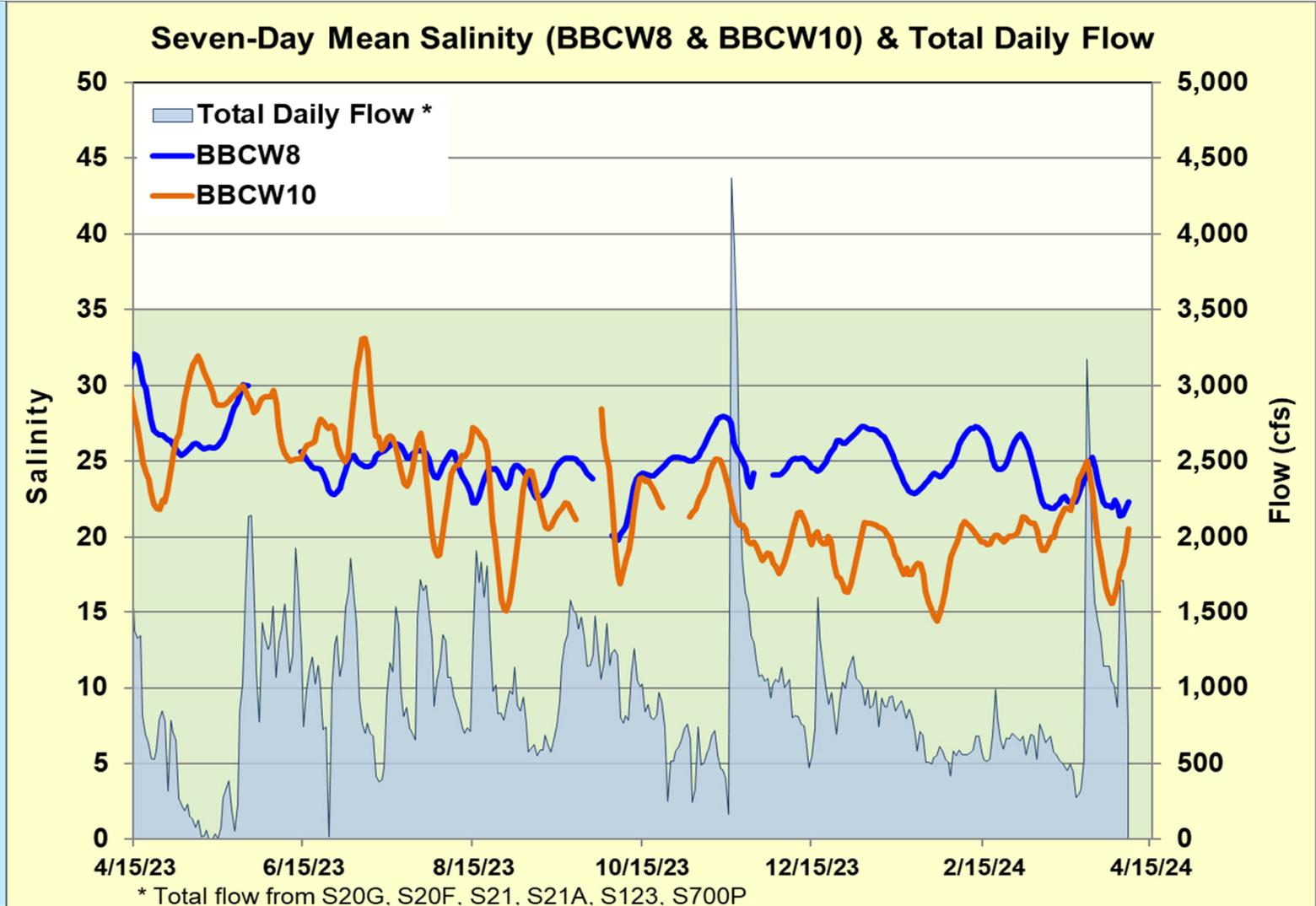
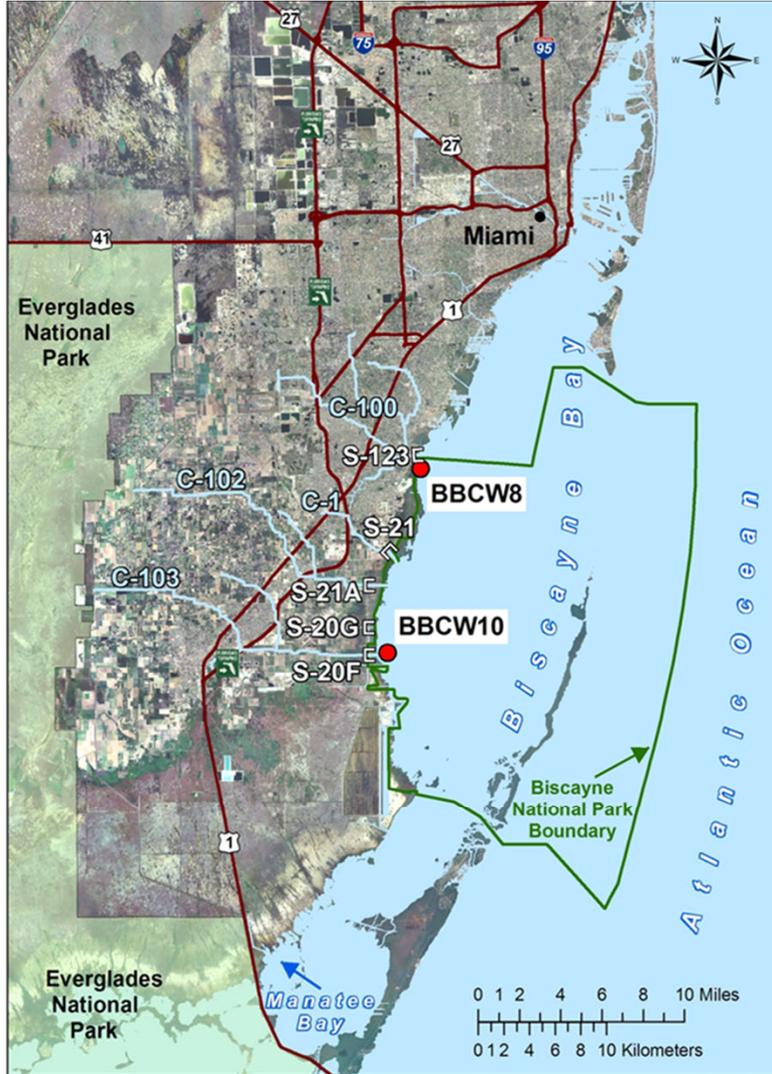
Percentiles PA



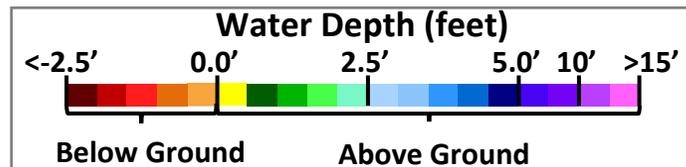
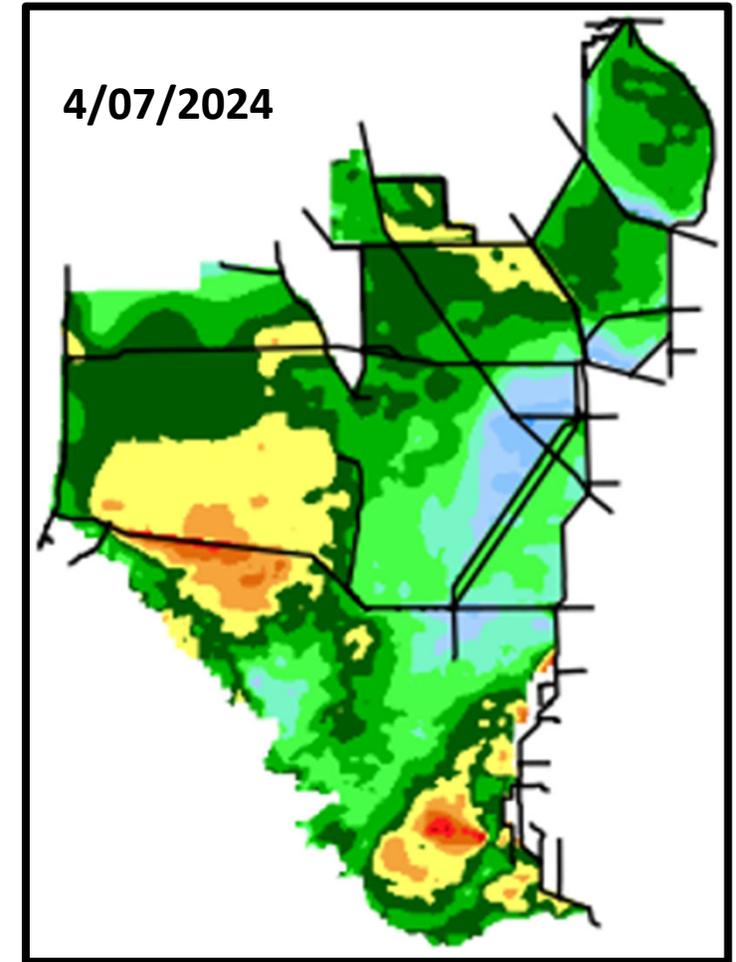
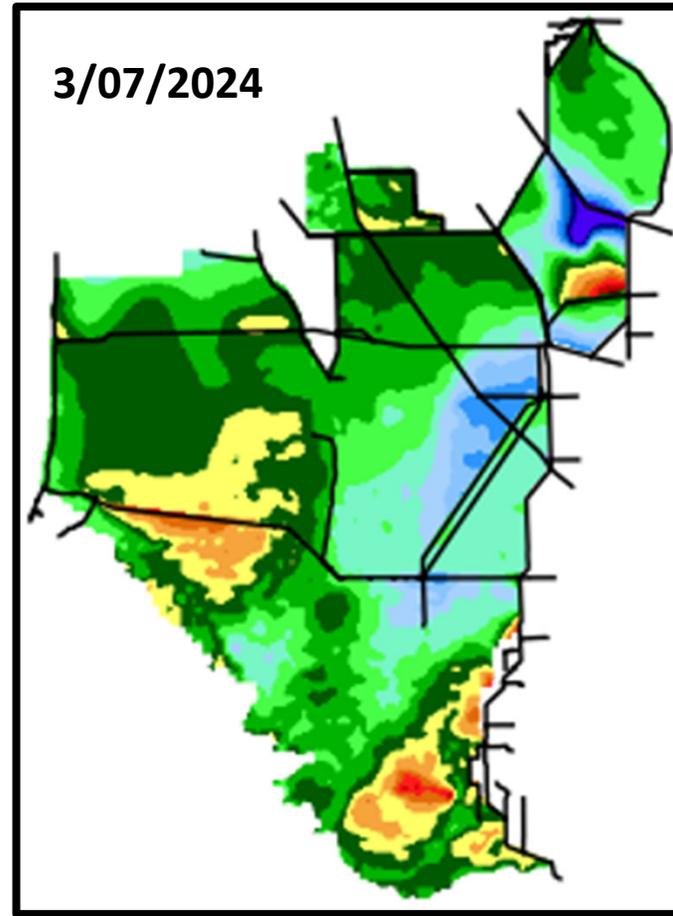
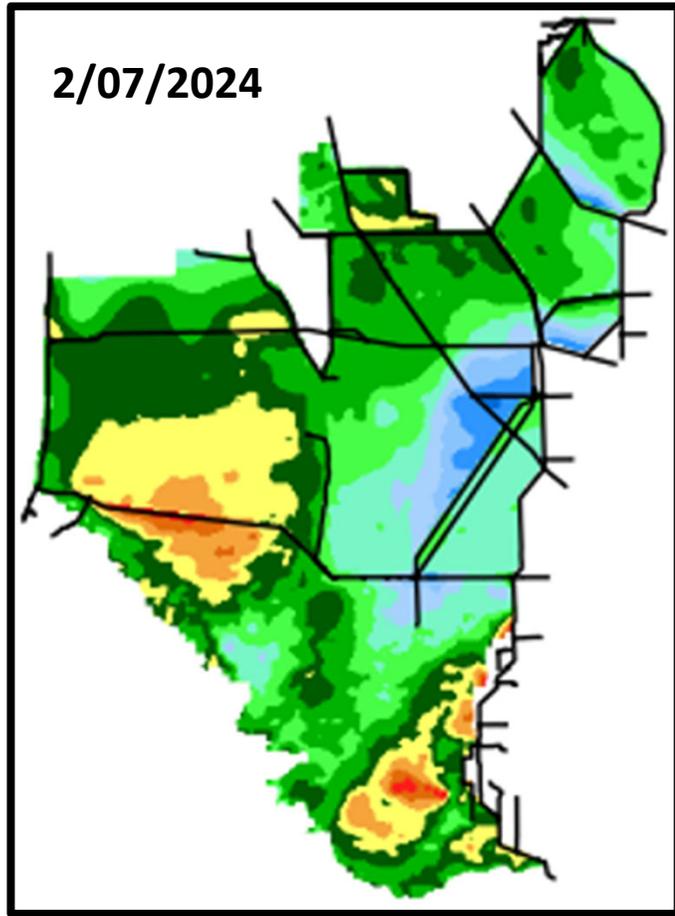
(See assumptions on the Position Analysis Results website)

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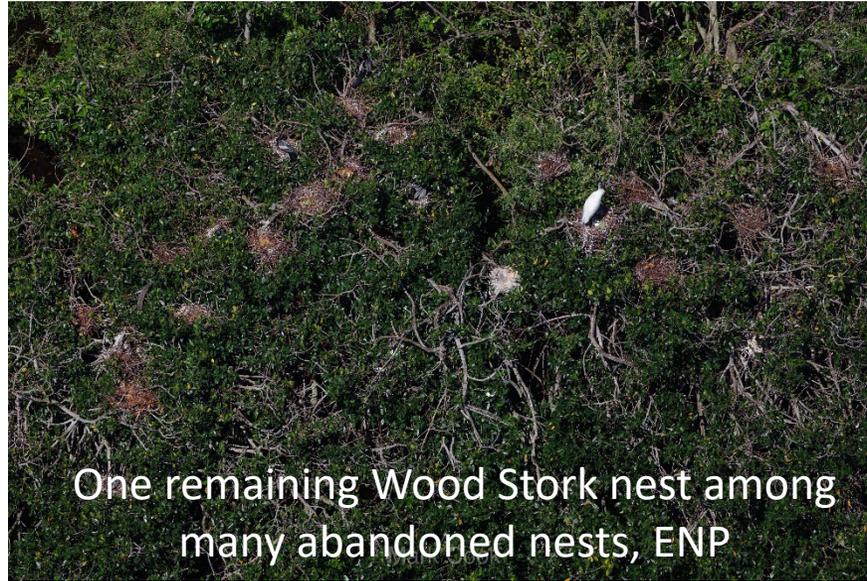
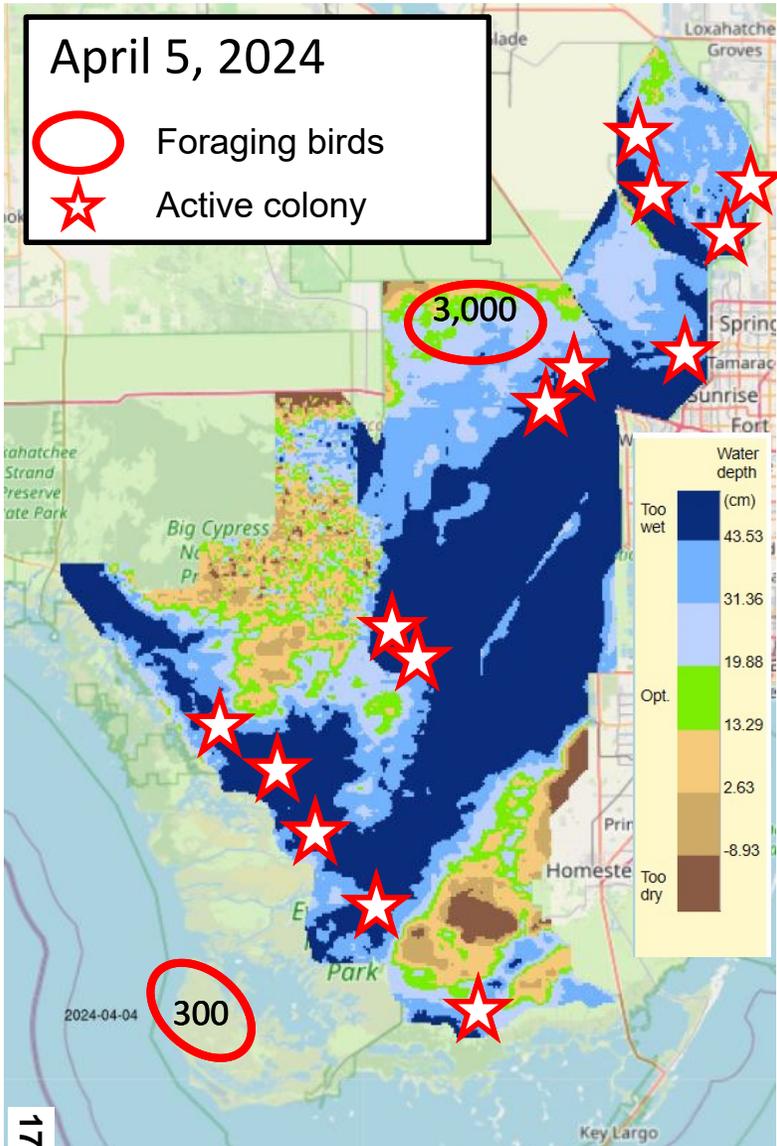
Biscayne Bay Salinity Conditions



Everglades Water Depths

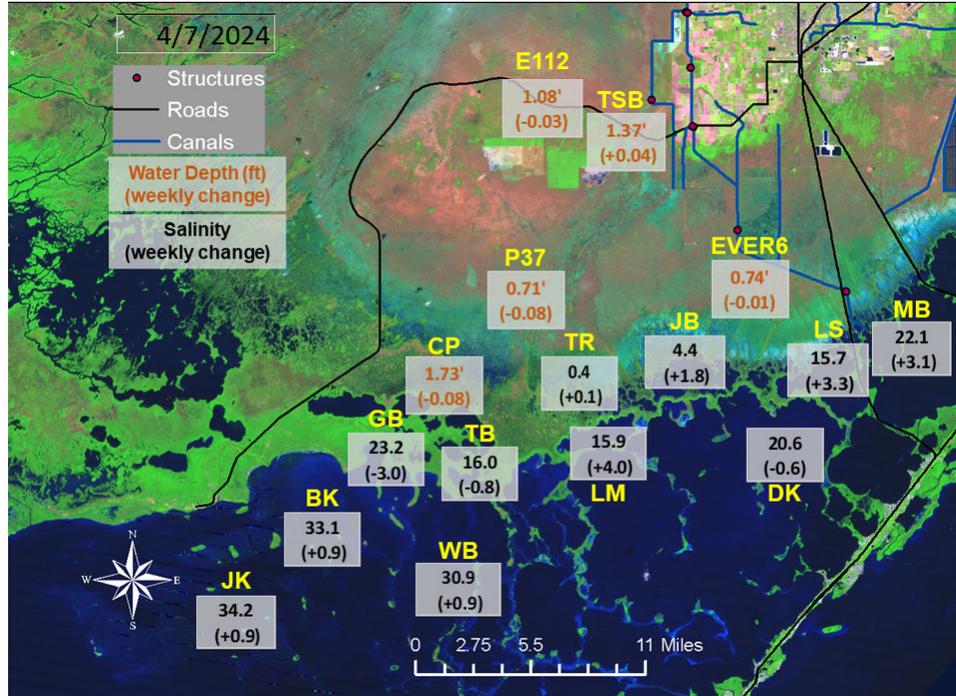


Wading Bird Foraging & Nesting



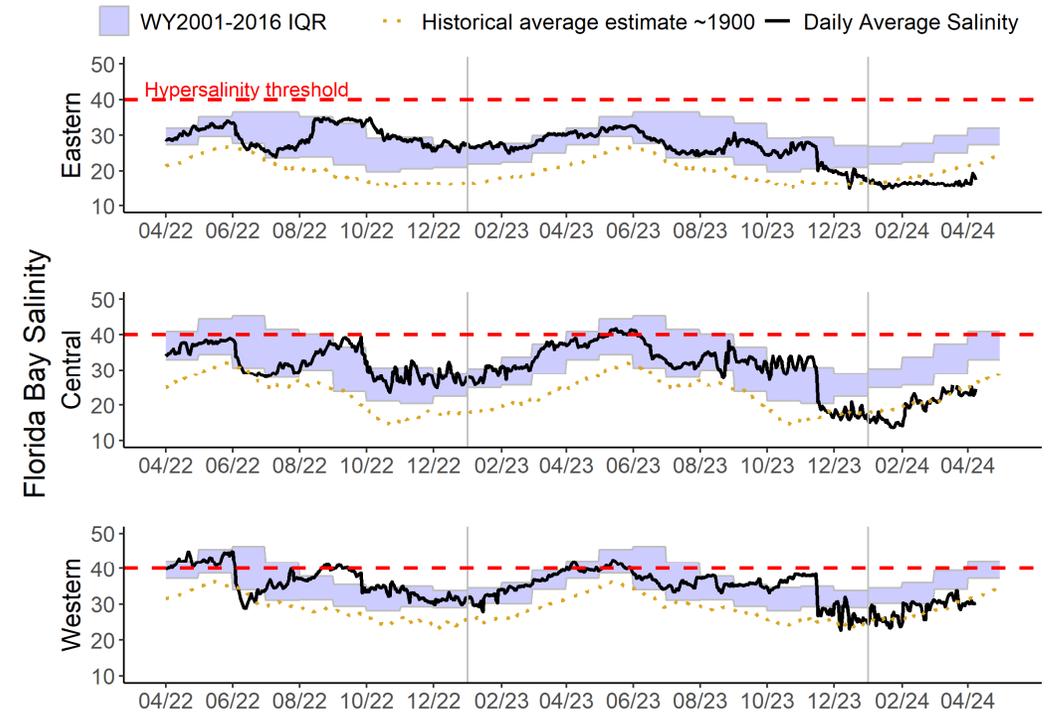
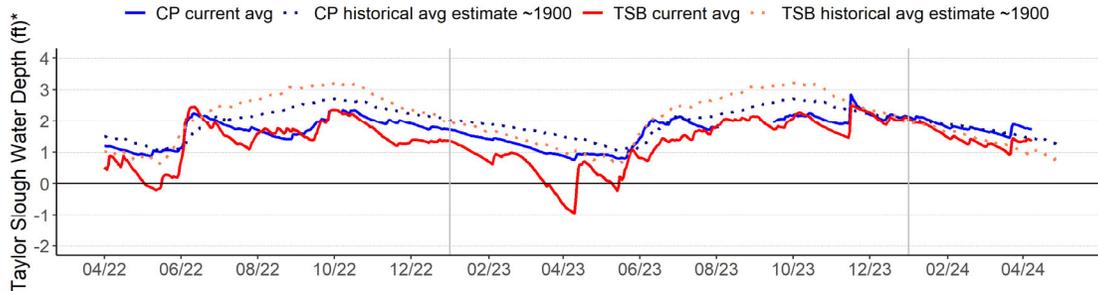
1. Wood Storks have abandoned nesting (only 3 of 300 remain)
2. Wood Stork nesting has now failed in 3 successive years
3. Nesting effort in general is limited. Currently 6000 White Ibis nests (10-year average: 32,000 nests)
4. WHY SO POOR? Wading birds need a wet wet-season (to produce prey) followed by a dry nesting-season (to concentrate prey). Recent reversals have curtailed prey concentrations.
5. SILVER LINING. Current wet conditions are excellent for prey production. This, followed by the predicted La Nina (a dry nesting season), could trigger a banner nesting event in 2025.

Florida Bay Salinity



Taylor Slough Water Depths

*note: calculated using ground surface elevations values (NAVD88) from EDEN



Teleconnections to South Florida

Climate anomalies being related to each other at large distances:

El Niño Southern Oscillation (ENSO)

El Niño increases the chances of a wetter-than-normal dry season and decreased tropical activity, La Niña increases the chances of a drier-than-normal dry season and increased tropical activity (both have most influence in south Florida from November through March)

Pacific Decadal Oscillation (PDO)

Increases variations in south Florida dry season rainfall, positive leads to more El Niño events, negative leads to more La Niña events

Atlantic Multidecadal Oscillation (AMO)

Average annual inflow to Lake Okeechobee is nearly 50% greater during the warm phase compared to the cold phase of the AMO, easterly flow toward south Florida affected by phase

IRI Pacific Niño 3.4 SST Model Outlook

The majority of models indicate El Niño will persist through March-May 2024 and then transition to ENSO-neutral during April-June 2024.

After a brief period of ENSO-neutral conditions, most models indicate a transition to La Niña around July-September 2024.

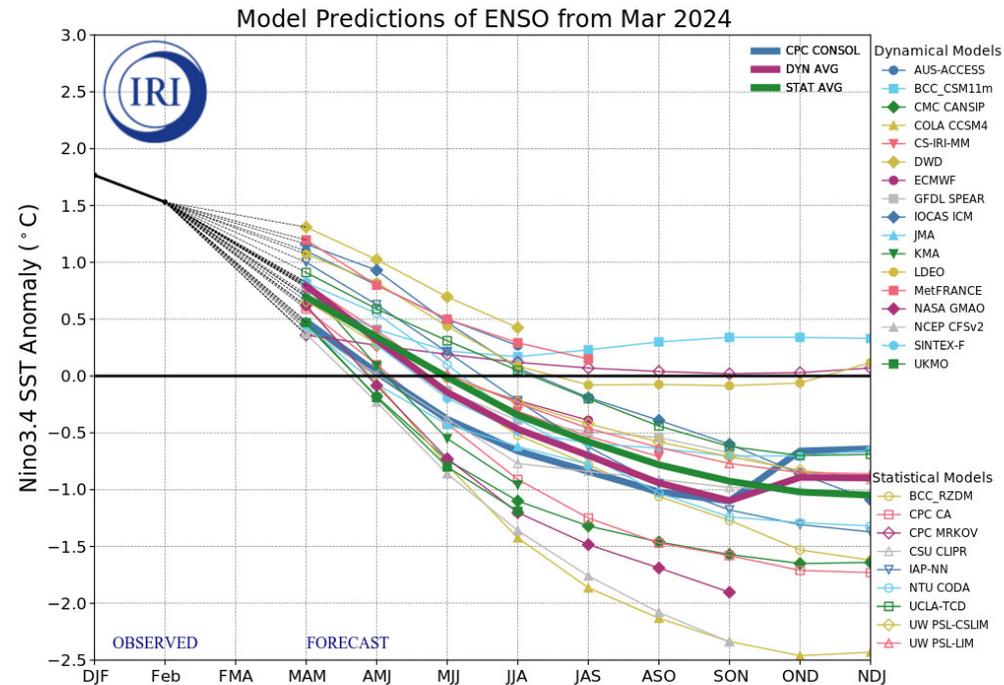


Figure provided by the International Research Institute (IRI) for Climate and Society (updated 19 March 2024).

ATLANTIC BASIN SEASONAL HURRICANE FORECAST FOR 2023

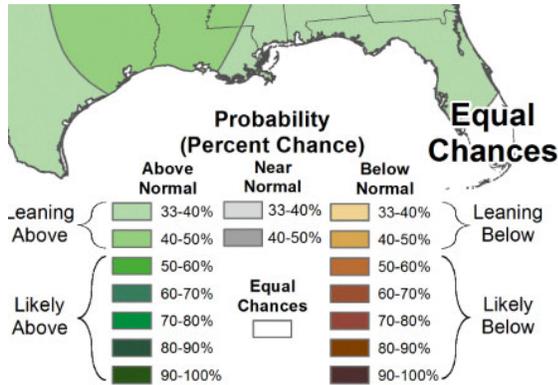
ATLANTIC BASIN SEASONAL HURRICANE FORECAST FOR 2024

Forecast Parameter and 1991–2020 Average (in parentheses)	Issue Date 13 April 2023
Named Storms (NS) (14.4)	13
Named Storm Days (NSD) (69.4)	55
Hurricanes (H) (7.2)	6
Hurricane Days (HD) (27.0)	25
Major Hurricanes (MH) (3.2)	2
Major Hurricane Days (MHD) (7.4)	5
Accumulated Cyclone Energy (ACE) (123)	100
ACE West of 60°W (73)	55
Net Tropical Cyclone Activity (NTC) (135%)	105

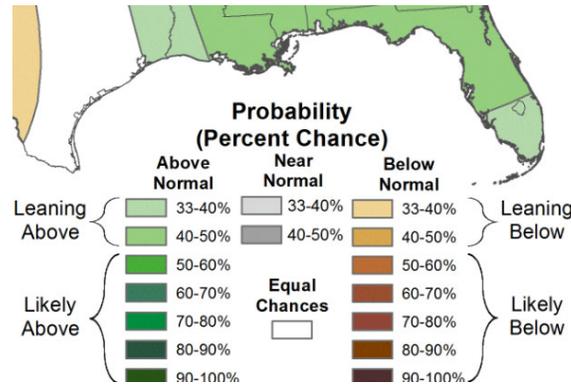
Forecast Parameter and 1991–2020 Average (in parentheses)	Issue Date 4 April 2024
Named Storms (NS) (14.4)	23
Named Storm Days (NSD) (69.4)	115
Hurricanes (H) (7.2)	11
Hurricane Days (HD) (27.0)	45
Major Hurricanes (MH) (3.2)	5
Major Hurricane Days (MHD) (7.4)	13
Accumulated Cyclone Energy (ACE) (123)	210
ACE West of 60°W (73)	125
Net Tropical Cyclone Activity (NTC) (135%)	220

- Extremely active season
- Transition to La Niña expected in July/August leading to hurricane-favorable wind shear conditions
- Sea surface temperatures in the eastern and central Atlantic are at record warm levels
- Forecast is of above-normal confidence for an early April outlook
- Next update: June 11, 2024

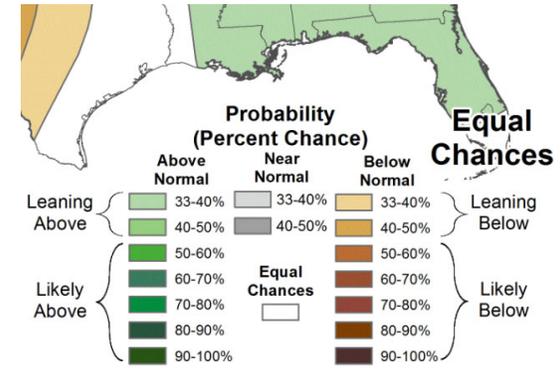
CPC Precipitation Outlook for South Florida



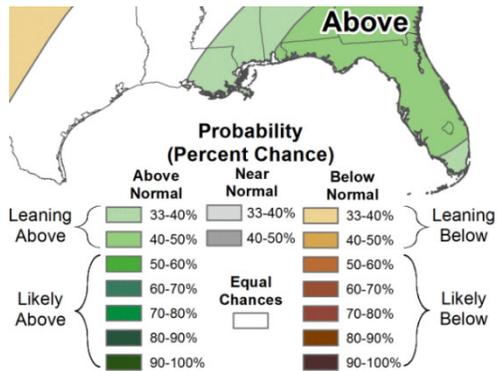
Apr 2024



Apr 2024 – Jun 2024



May 2024 – Jul 2024



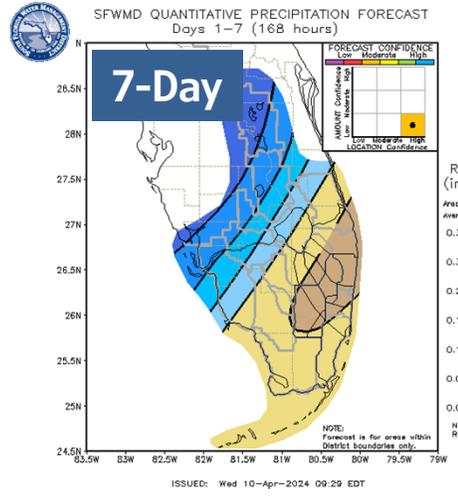
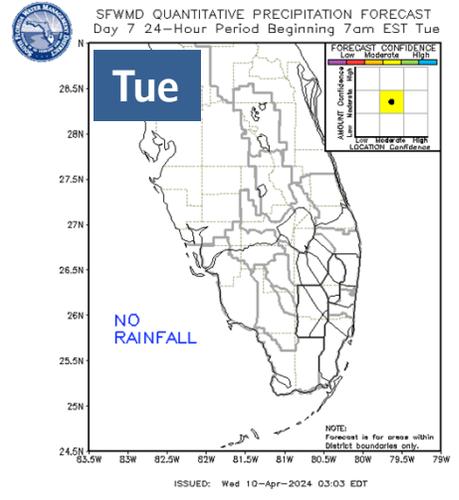
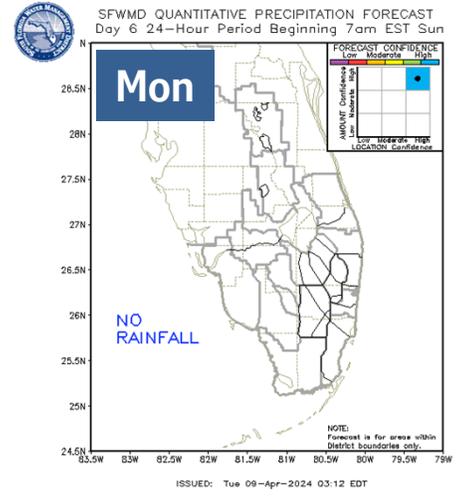
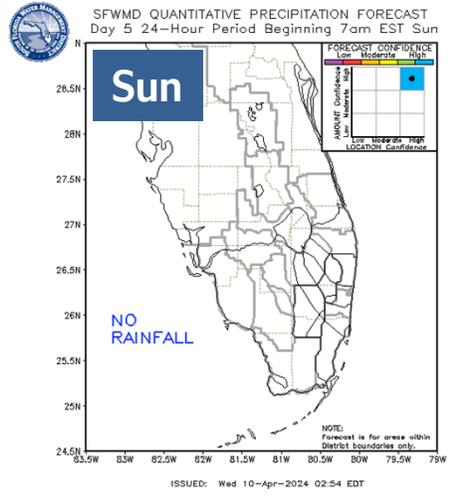
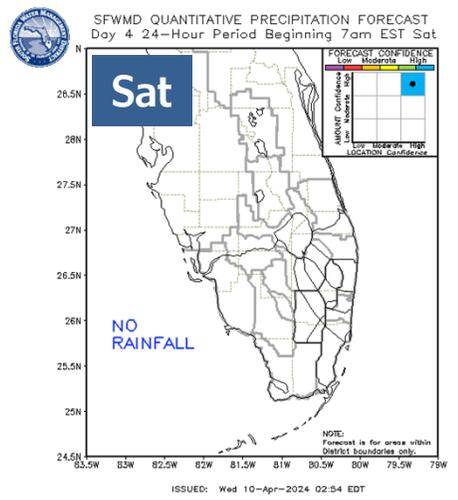
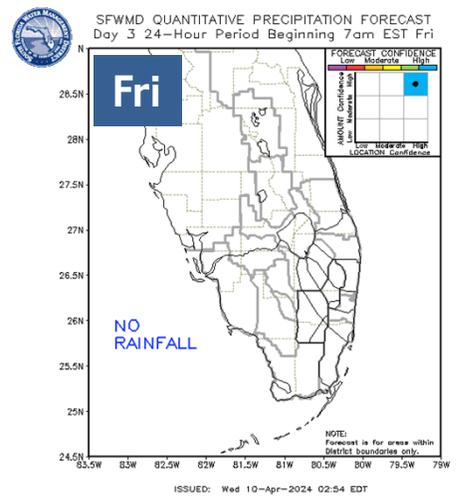
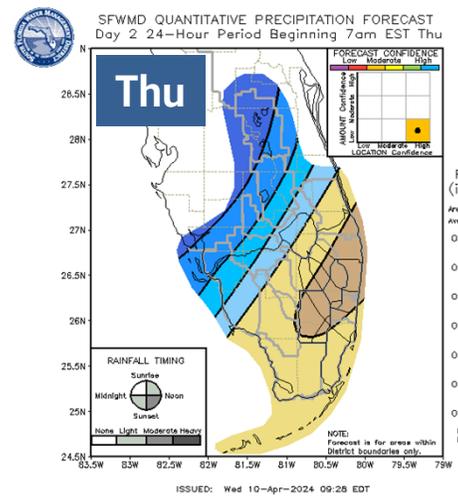
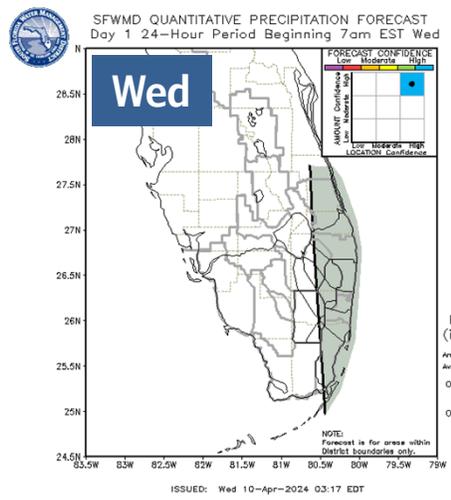
Aug 2024 – Oct 2024

Updated March 31, 2024

- The most recent CPC precipitation outlook for April 2024 is for equal chances of below, normal and above normal rainfall (EC) for areas south of Lake Okeechobee, while the outlook for areas north of the lake is for slightly increased chances (33-40%) of above Normal rainfall.
- The 3-month window of Apr 2024 – Jun 2024 indicates an increased chance (40-50%) in the likelihood of above normal rainfall for the Kissimmee River and north and slightly increased chances (33-40%) of above normal rainfall for the remainder of the District.
- The 3-month windows of May 2024 – Jul 2024 and Jun 2024 - Aug 2024 show slightly increased chances (33-40%) of above Normal rainfall for Lake Okeechobee and north and for the Kissimmee River and north respectively, and equal chances (EC) of below normal, normal and above normal for the respective remainder reminder areas of the District.
- The 3-month windows of Jul 2024 – Sep 2024 and Aug 2024 – Oct 2024 show increased chances (40-50%) of above normal rainfall for areas north of Lake Okeechobee and north of the EAA respectively, and slightly increased chances of above normal for the respective reminder areas of the District.
- The transition into the 2024 – 2025 Dry Season goes through the 3-month window of Sep 2024 – Nov 2024 showing equal chances of below, normal and above normal (EC) for south Florida. The heart of the 2024 – 2025, has an outlook for increased chances of below normal rainfall for the entire District.

<https://www.cpc.ncep.noaa.gov/products/predictions/30day/>

Short-, Medium-, & Extended-Range Outlooks



Weekly Summary

Week 1 (Historical Avg: 0.65"): Much below normal
 Week 2 (Historical Avg: 0.70"): Much below normal



Everglades Agricultural Area (EAA) Stormwater Treatment Area.

CERP Construction and Planning Projects

Progress Report

South Florida Ecosystem Restoration Projects including the Comprehensive Everglades Restoration Plan (CERP) are authorized when a planning study is approved by Congress as part of a Water Resource Development Act (WRDA). Responsibility for design and construction of CERP and other restoration projects is shared between the U.S. Army Corps of Engineers (USACE) and the South Florida Water Management District (SFWMD), based on coordination between the two agencies, the Integrated Delivery Schedule (IDS), and the Project Partnership Agreement for each project. This document reports on the USACE's progress on CERP efforts for the restoration of the Greater Everglades as directed by Governor DeSantis in Executive Order 23-06, as well as the SFWMD's continued efforts to expedite Everglades restoration projects and improve water quality and quantity.

Biscayne Bay Coastal Wetlands – Cutler Wetlands Component

Lead Agency: SFWMD

Anticipated Completion Year: 2025

Project Description: The Biscayne Bay Coastal Wetlands Project – Cutler Wetlands Component will improve the health of Biscayne Bay, aid in wetland rehydration, build coastal resiliency and improve water quality. The Cutler Wetlands Component is the final component of the Biscayne Bay Coastal Wetlands Project.

Status: Construction.

- Contract 6A – Pump Station S-701 under construction
- Contract 6B – Construction contract awarded in December 2023

Biscayne Bay Coastal Wetlands – L-31 East Flowway

Lead Agency: USACE

Anticipated Completion Year: 2026

Project Description: The project restores freshwater flows to southern Biscayne Bay and Biscayne National Park while improving salinity distribution near the shore. It also restores historical freshwater wetland habitat adjacent to the Bay, which acts like a sponge, soaking up water in the wet season and slowly releasing it in a more natural pattern.

Status: Construction; Operational Testing and Monitoring Period.

- Contract 4 – Pump Station S-709: Construction is complete. Operation Testing and Monitoring Period is underway.
- Contract 5A – Pump Station S-705: Construction is complete. Permanent power was delivered to pump station on March 5, 2024 and endurance testing was completed. Operation, Testing, and Monitoring Period is underway and scheduled to conclude March 2025.
- Contract 5B – Pump Station S-703 and Recreational Sites: Final inspection took place on March 5, 2024 between USACE, SFWMD, FDEP, and contractor. Endurance testing is underway with temporary generators while pump station is awaiting permanent power solution from FPL.

- Contract 5C – Pump Stations S-710 and S-711, Seepage Canal C-711W: Installation of precast box and spreader canal is complete and sod was installed on spreader canal. Seepage Canal berm construction is substantially complete, sod will be placed. Permanent power from FPL is in design stages.

Biscayne Bay and Southeastern Everglades Ecosystem Restoration (BBSEER)

Lead Agency: USACE

Anticipated Completion Year: 2026

Project Description: The BBSEER Project aims to restore natural areas in southeastern Miami-Dade County, including the Model Lands, Southern Glades, nearshore estuarine habitats of Biscayne Bay, and the associated coastal and freshwater wetlands.

Status: Planning; A planning study waiver request for scope, schedule and budget is in development to complete the study. The project team is in round three modeling process and will continue to refine alternatives.

Next Milestone: The Tentatively Selected Plan milestone is expected to shift to June 2025 with approval of the current waiver request.

Broward County Water Preserve Areas

Lead Agency: USACE

Anticipated Completion Year: 2034

Project Description: This project will reduce water loss from the Central Everglades. It is designed to perform two primary functions: reduce seepage loss from Water Conservation Area (WCA) 3A/3B to the C-11 and C-9 basins; and capture, store and distribute surface water runoff from the western C-11 basin that has been discharged into WCA 3A/3B.

Status: Design.

- Contract 2 – C-11 Impoundment Embankment: Final design is in progress and the construction award is expected in Q4 FY 2024.
- Contract 3 – C-11 Impoundment Pump Station: Design is in progress, and the construction award is expected in late FY 2025.
- Contract 4 – WCA3A Seepage Management Area: Design to begin in 2025.
- Contract 5 – C-9 Impoundment: Design to begin in 2026.

Caloosahatchee (C-43) Reservoir

Lead Agency: SFWMD

Anticipated Completion Year: 2025

Project Description: The project will capture excess C-43 Basin runoff and regulatory releases from Lake Okeechobee during the wet season and release water from the reservoir during the dry season. It includes development of one aboveground reservoir, with a total storage capacity of approximately 170,000 acre-feet. The project will reduce the extreme salinity changes in the Caloosahatchee River Estuary by providing a more consistent flow of freshwater discharging into the estuary.

Status: Construction.

- Package 1 – Embankment Preloading at 6 critical structures around the dam and demolition of existing infrastructure work is complete.
- Package 2 – S-476 Pump Station replaces the original irrigation pump station located on the header canal that supplied water to existing water users work is complete.
- Package 3 – S-470 Inflow Pump Station which pulls water from the Caloosahatchee River through the Townsend Canal to the Reservoir work is complete. Ribbon cutting event held on December 19, 2023.
- Package 4 – Reservoir: Concrete work at S-483 completed, site access bridge and local bridge completed except approach slabs, cattleguards and guardrails, concrete work at S-471 within 150 CY of completion, soil cement (buttress) 17 of 22 miles completed, soil cement (slope) 3.5 of 22 miles completed, Townsend Canal sheet pile installation north of power lines 35% completed, Phase II Soil Bentonite Wall “re-dig” Cell 1 completed and Cell 2 underway (5/15/24 completion date). M3 embankment completed except for vehicle access gap, perimeter canal and intake canal work continue, wave wall production to start this month, sand column relief manifold (north reach) to begin next week, S470 discharge structure foundation poured with all piping on site and piezometer wells have commenced.

Central Everglades Planning Project (CEPP) Everglades Agricultural Area (EAA) Reservoir

Lead Agency: USACE

Anticipated Completion Year: 2030

Project Description: CEPP includes four phases of projects that help restore the natural flow of water south from Lake Okeechobee to the Central & Southern Everglades. The CEPP EAA Phase will store, treat and send new water to the Everglades. The EAA Reservoir reduces damaging discharges from Lake Okeechobee to the Northern Estuaries. The 10,000-acre reservoir component includes 240,000 acre-feet of storage and delivers water to the 6,500-acre A-2 STA for water quality treatment. The project provides an additional average annual 370,000 acre-feet of clean water sent to the Everglades.

Status: Design; Construction.

- Contract 11B - Embankment, outlet structures and spillway: Final design has been completed, the construction contract was advertised February 23, 2024, and the construction award is expected at the end of FY 2024.
- Contract 11C - S-636 Seepage Pump Station: Design began in March 2023, and the construction award is expected in Sept. 2026.
- Contract 10A - Seepage Inflow/Outflow Canal: Environmental monitoring and pre-construction survey work continues. De-mucking, clearing, and grubbing activities are complete for the base contract. Excavation of the canal footprint continues and is 50% complete. Seepage canal and inflow/outflow canal blasting is ongoing. Embankment construction began and the excavated material is being processed and tested.
- Contract 11A - Foundation Preparation & Cutoff Wall: Contractor mobilized to the site in Aug. 2023 and is progressing through submittals. Clearing, grubbing and de-mucking of borrow pit areas 2 and 3 is complete with borrow area 5 being 60% complete. Drilling and blasting of borrow area 3 is ongoing. Construction of the access and haul roads on the eastern perimeter is ongoing. Cofferdam installation is 95% complete.

- Contract 12: S-623 Reservoir Inflow Pump Station: In design and will be awarded for construction by SFWMD in mid-2024.

Central Everglades Planning Project (CEPP) Everglades Agricultural Area (EAA) Stormwater Treatment Area (STA)

Lead Agency: SFWMD

Anticipated Completion Year: 2024

Project Description: The 6,500-acre STA will clean water stored in the 240,000 acre-foot EAA Reservoir and allow it to be moved south to the Everglades. Stormwater Treatment Areas use aquatic vegetation to remove harmful nutrient pollution from the water. Sending more clean water south will support the ecological health of the Everglades and Florida Bay.

Status: Construction.

- Contract 9B - STA Cells: In construction. Initial filling commenced end of January 2024.
- Contract 9B - STA Inflow-Outflow Canal: Construction completed in FY 2023.

Central Everglades Planning Project (CEPP) Everglades Agricultural Area (EAA) Canal Conveyance Improvements

Lead Agency: SFWMD

Anticipated Completion Year: 2027

Project Description: The North New River Canal Conveyance increases canal capacity by 200 cfs. The Miami Canal Conveyance Improvements increase canal capacity by 1,000 cfs.

Status: Design.

- Contract 9A - EAA North New River Canal Improvements: Construction contract awarded in December 2023.
- Contract 9A - EAA Miami River Canal Improvements Phase 1: Design is ongoing and construction award by end of FY 2024.
- Contract 9A - EAA Miami River Canal Improvements Phase 2: Design is ongoing and construction award in early FY 2025.

Central Everglades Planning Project (CEPP) New Water Seepage Barrier Wall Project

Lead Agency: SFWMD

Anticipated Completion Year: 2024

Project Description: The CEPP New Water Seepage Barrier Wall Project extends the successful underground wall that was built as part of the 8.5 Square Mile Area Seepage Wall Project. The project supports ongoing restoration efforts to move water south through the Everglades and into Florida Bay while mitigating potential flooding impacts in communities outside of Everglades National Park.

Status: Construction.

- Contract 13 - CEPP Seepage Wall: In construction. Trenching is complete. Concrete bentonite pouring is 100% complete. Permanent capping is 99% complete.



CEPP New Water Seepage Barrier Wall Project.

Central Everglades Planning Project (CEPP) North Phase

Lead Agency: SFWMD

Anticipated Completion Year: 2030

Project Description: CEPP North will restore water levels in the northern portion of the Central Everglades and improve our water resource resiliency in South Florida. The features within the CEPP plan include a reservoir, a stormwater treatment area and water flow improvements.

Status: Design; Construction.

- Contract 7A - L-6 Diversion: A groundbreaking for S-620 was held in May 2023. S-622 is in design and contract award is in Q3 FY2025.
- Contract 7A - L-4 Canal Improvements & Distribution Features & S-630 Gated Culverts are in design.
- Contract 7B - S-8 Pump Station Modifications is in design and Phase 1 construction contract was awarded in March 2024.
- Contract 8A - L-5 Canal Improvements is in design to be constructed in 2 packages.
- Contract 8B - Miami Canal Backfill and Vegetated Hammocks survey is complete and design is underway.

Central Everglades Planning Project (CEPP) South Phase

Lead Agency: USACE

Anticipated Completion Year: 2031

Project Description: CEPP South removes water flow barriers to allow natural flow of water south into Everglades National Park. Components include the construction of a pump station, the installation of culverts and spillways and the removal of a roadway and levees that will all help increase the flow of clean water south from WCA 3A to Everglades National Park.

Status: Design; Construction.

- Contract 1AR - L-67A Culverts: At S-631 the cofferdam construction is complete and surface water removal will begin in the coming weeks. Cofferdam construction is ongoing at S-632 and turbidity barriers are being installed.
- Contract 2A - Pump Station S-356E and S-334E Gated Spillway: Final design is complete with contract award forecasted for September 2024. Construction contract advertisement is scheduled for April 2024.
- Contract 3B - S-355W Gated Spillway in L-29 Canal: Final design is complete. USACE, SFWMD, and FDOT completed negotiation of the FDOT construction agreement. Execution of that agreement is expected in April 2024 with the construction contract advertisement also scheduled for April 2024. Contract award is forecast for August 2024.
- Contract 5 - Blue Shanty Flowway: Final design is scheduled to be complete in FY 2026, and the contract award is scheduled for FY 2026.
- Contract 6 - L-29 Levee Removal: Design is scheduled to begin in FY 2024, and the contract award is scheduled for FY 2028.

Indian River Lagoon South – C-23 Estuary Discharge Diversion Canal

Lead Agency: SFWMD

Anticipated Completion Year: 2025

Project Description: This interconnect canal project will divert harmful discharges from the C-23 Canal and send it south to the C-44 Reservoir. It improves water quality in the St. Lucie Estuary and helps bring flows to the Estuary closer to its natural pattern.

Status: Construction; S-457 Pump Station foundation pour is complete, canal excavation in Segment 1 is 65% and Segment 3 is 95% complete, Segment 2 Clearing & Grubbing has begun, and Coca Cola Box Culvert excavation is 33% complete.

Indian River Lagoon South – C-23/24 North Reservoir

Lead Agency: USACE

Anticipated Completion Year: 2030

Project Description: The C-23/24 North Reservoir is a component of the IRL South Project, encompassing more than 2,000 acres. Once completed, it will store approximately 32,000 acre-feet of water.

Status: Design.

- Contract 4A – S-426 Pump Station, Afterbay, S-245 Culvert, PC-37 Canal and Structure: Nearing completion of final design, construction contract advertisement scheduled for May 2024 with contract award scheduled for September 2024.
- Contract 4B – S-425 Sag Culvert, S-426 Afterbay, and Reservoir Embankment Construction: The draft final design is expected November 2024.

Indian River Lagoon South – C-23/24 South Reservoir

Lead Agency: SFWMD

Anticipated Completion Year: 2030

Project Description: The C-23/24 South Reservoir is a component of the IRL South Project, encompassing more than 3,500 acres. Once completed, it will store approximately 57,000 acre-feet of water.

Status: Design is ongoing by the SFWMD. Package 1 - Canal and Structure construction contract will be awarded in FY 2024, and Package 2 - Reservoir construction contract will be awarded in FY 2025.

Indian River Lagoon South – C-23/24 STA

Lead Agency: USACE

Anticipated Completion Year: 2026

Project Description: The 2,700-acre C23/24 STA is designed to treat water from the C-23 and C-24 Basins. Its purpose is to reduce the sediment, phosphorus, and nitrogen going to the St. Lucie River Estuary and the southern portion of the Indian River Lagoon.

Status: Construction; Stormwater treatment areas (STA) Cells 1 and 2 are near 100% complete. Cell 3 clearing and grubbing is 98% complete. Cell 4 clearing and grubbing is 98% complete. Cell 5 clearing and grubbing is complete. All water control structures are 60% complete.

Indian River Lagoon South C-25 Reservoir and STA

Lead Agency: SFWMD

Anticipated Completion Year: 2028

Project Description: The C-25 Reservoir and STA will capture, store and treat local stormwater runoff from the C-25 Canal. The project reduces the rate of harmful flows to downstream estuaries and improves water quality in the estuary and lagoon. Project features include an 803-acre reservoir with 5,176 acre-feet of storage, a 532-acre STA, and a 250 cfs pump station.

Status: Design. Package 1 for Site Preparation estimated contract award in Q4 FY 2024.

Indian River Lagoon South – C-44 Reservoir

Lead Agency: USACE

Completion Year: 2021

Project Description: The C-44 Reservoir will store 50,000 acre-feet of water, including local basin runoff and Lake Okeechobee releases. This will reduce harmful releases reaching the St. Lucie Estuary that can fuel harmful algal blooms.

Status: Construction Complete, in Operational Testing and Monitoring Period (OTMP). Repairs to S-402 complete. Designing additional seepage management feature to be constructed under separate contract starting in 2024.

Indian River Lagoon South – C-44 STA

Lead Agency: SFWMD

Completion Year: 2019

Project Description: The 6,400-acre C-44 STA will remove harmful nutrients and provide regional water quality benefits. It will treat the water stored in the reservoir before it is released into the estuary.

Status: Construction Complete, in Operational Testing and Monitoring.

Indian River Lagoon South Natural Water Quality Storage Areas and Muck Removal

Lead Agency: SFWMD

Anticipated Completion Year: TBD

Project Description: This project is part of Indian River Lagoon – South Phase II and will work together with other IRL-South components to protect and restore the lagoon and estuary. It will create natural storage by preserving and restoring lands in the contributing basins of the north and south forks of the St. Lucie River and the estuary.

Status: Planning; Acquiring Lands.

Lake Okeechobee System Operating Manual (LOSOM)

Lead Agency: USACE

Anticipated Completion Year: 2024

Project Description: The USACE is updating the Lake Okeechobee operations manual to reevaluate and define operations for the Lake Okeechobee regulation schedule that takes into account additional infrastructure that will soon be operational.

Status: Planning; The Water Control Plan (WCP) will go into effect once it is signed by USACE, South Atlantic Division. Additional coordination within USACE to complete the final Environmental Impact Statement (EIS) is completed and USACE will expedite finalizing the document. The Final WCP will be released when the Final EIS is complete.

Lake Okeechobee Watershed Restoration Project (LOWRP)

Lead Agency: SFWMD

Anticipated Completion Year: TBD

Project Description: LOWRP is an Everglades restoration planning effort that will improve water levels in Lake Okeechobee; improve the quantity and timing of discharges to the St. Lucie and Caloosahatchee estuaries; restore degraded habitat for fish and wildlife throughout the study area; and increase the spatial extent and functionality of wetlands.

The Florida Legislature appropriated a total of \$150 million for the LOWRP during the previous three legislative sessions. During the 2021 legislative session, the Florida Legislature also passed Senate Bill 2516 to further support and expedite the implementation of LOWRP. This funding was provided to the SFWMD for the design, engineering and construction of specific LOWRP components designed to achieve the greatest reduction in harmful discharges to the Caloosahatchee and St. Lucie Estuaries.

Status: Planning; Design, Well Testing and ASR Science Plan. The USACE is targeting a Chief's Report for the wetlands restoration in Summer 2024.

Loxahatchee River Watershed Restoration Project

Lead Agency: SFWMD

Anticipated Completion Year: 2032

Project Description: The Loxahatchee River Watershed Restoration Project will restore and sustain the overall quantity, quality, timing and distribution of fresh water to the federally designated "National Wild and Scenic" Northwest Fork of the Loxahatchee River for current and future generations. This project also seeks to restore, sustain and reconnect the wetlands and watersheds that form the historic headwaters for the river. These areas include Jonathan Dickinson State Park, Pal Mar East/Cypress Creek, DuPuis Wildlife

and Environmental Management Areas, J.W. Corbett Wildlife Management Area, Grassy Waters Preserve, Loxahatchee Slough, the Northwest Fork of the Loxahatchee River and the Loxahatchee River Estuary.

Status: Design.

- Flowway 1: Anticipated to execute design contract in FY 2024.
- Flowway 2 and 3: In design, survey and geotechnical work underway.

Picayune Strand Restoration Project

Lead Agency: USACE

Anticipated Completion Year: 2025

Project Description: This project restores the natural water flow across 85 square miles in western Collier County that were drained in the early 1960s in anticipation of extensive residential development. The restoration involves plugging 48 miles of canals, removing 260 miles of crumbling roads, and constructing three major pump stations, all of which will restore more than 55,000 acres of natural habitat.

Status: Construction. All three Picayune pump stations and Miller Tram and Road Removal are complete.

- Southwest Protection Feature Levee: Four of six lifts for the full seven miles are complete and the fifth and sixth lifts are underway with expected completion by December 2024.
- Conveyance Features (Design/Build Contract): U.S. 41 culverts construction completed January 2024. CR-92 construction underway and expected completion by November 2024.

Southern Everglades

Lead Agency: USACE/SFWMD

Anticipated Completion Year: TBD

Project Description: The Southern Everglades project aims to provide substantial amounts of freshwater to improve the quantity, timing, and distribution of freshwater in the Greater Everglades and Everglades National Park wetlands and Florida Bay.

Status: Planning; The 2023 Integrated Delivery Schedule (IDS) indicates the study will kick off in 2025.

Western Everglades Restoration Project (WERP)

Lead Agency: USACE/SFWMD

Anticipated Completion Year: TBD

Project Description: The Western Everglades Restoration Project is an Everglades restoration planning effort that aims to improve the quantity, quality, timing, and distribution of water in the western Everglades. The study area covers approximately 1,200 square miles, bounded by the L-1 Canal to the north; the L-2 Canal, Stormwater Treatment Area (STA) 5/6, and the eastern boundary of the Miccosukee Tribe of Indians of Florida Reservation to the east; a natural watershed boundary to the west; and portions of U.S. Highway 41, Loop Road, and the southern Miccosukee Tribe of Indians of Florida Reservation area to the south.

Status: Planning, Design & Construction; The 3x3x3 planning study waiver request, for schedule and budget to complete the study, was approved by the Assistant Secretary of the Army, for Civil Works, January 2024. The draft Project Implementation Report (PIR) and draft Environmental Impact Statement (EIS) were released for public comment 15 Dec 2023. A series of "open house" public meetings were held in December to discuss the project. In-person and virtual National Environmental Policy Act (NEPA) Public Meetings were held January 17 & 18, 2024. USACE District Quality Control (DQC) review will begin April 4, 2024. The final PIR and EIS will then be sent for Corps policy compliance reviews. The USACE is targeting a Chief's Report in September 2024 for inclusion in WRDA 2024.

- Region 4 early work - L-28 Culverts construction contract awarded in December 2023. Modeling complete and Geotechnical work ongoing for 11-Mile Road, US-41 and Loop Road Culverts.



Northern Everglades and Estuaries Protection Program (NEEPP)

Progress Update – April 2024

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) PROGRESS UPDATE

As part of the *Northern Everglades Water Retention and Nutrient Load Reduction Projects* approved by the Governing Board at the May 2022 Business Meeting, SFWMD executed a 10-year, public-private partnership agreement in May 2023 for the Partin Family Ranch Project in the Upper Kissimmee Subwatershed. Situated on 3,050 acres of private land in Osceola County, this new water storage and nutrient retention project will retain direct rainfall and stormwater runoff within two large detention areas to help reduce excess discharges to Lake Okeechobee (see map below). Project construction has been completed and operations began on March 1, 2024. The operational project will provide an estimated average water quality benefit of 0.4 metric tons of total phosphorus and 5.2 metric tons of total nitrogen and an average water quantity benefit of 4,270 acre-feet per year.



New riser culvert in Big Bend Swamp detention area at Partin Family Ranch.

With the recent passage of **Senate Bill 1638 – Environmental Resource Management** during the 2024 Florida Legislative Session, SFWMD is collaborating with the Water School at Florida Gulf Coast University (FGCU) to study the health and ecosystem of Lake Okeechobee. The study will take into account the health of plants, fish, and wildlife to be used for future planning of invasive plant control, replanting of native vegetation, and fish and game management. It is also anticipated that short-term pilot studies will be conducted to focus on reestablishing desirable submerged aquatic vegetation (SAV) in nearshore regions of the marsh and help inform a longer-term, future in-lake project. With input from local stakeholders, subject matter experts, and lake ecologists, a report on the FGCU study findings and recommendations will be submitted to the Governor, the President of the Senate, and the Speaker of the House of Representatives by January 1, 2025.

INTERAGENCY SPOTLIGHT

During this week, the 2024 *South Florida Environmental Report (SFER) – Volume I Open House* is showcasing dozens of informational posters by technical staff at SFWMD headquarters.

This includes 14 posters that spotlight our many recent accomplishments and successes of the Northern Everglades' Watershed Construction Projects in the Lake Okeechobee Watershed, St. Lucie River Watershed, and Caloosahatchee River Watershed, as well as Research and Water Quality Monitoring Program updates on water quality, phytoplankton and submerged aquatic vegetation in Lake Okeechobee; zooplankton, fishes, and oysters in the river estuaries, and upstream water quality monitoring in the watersheds.

Further information on the 2024 *SFER Open House* can be found at [SFWMD.gov/SFER](https://www.sfwmd.gov/SFER).





FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) PROGRESS UPDATE

In March, DEP worked closely with the Coordinating Agencies to present the annual BMAP meetings for the Caloosahatchee River and Estuary/Everglades West Coast, St. Lucie River and Estuary, and Lake Okeechobee. The annual meeting for Lake Okeechobee also covered the next 5-Year Review for the BMAP, which is planned to be published in December 2024. All three meetings were held via webinar and meeting materials are available at the following web links:

- ▶ [Caloosahatchee River and Estuary 2024 Annual Meeting](#)
- ▶ [Everglades West Coast 2024 Annual Meeting](#)
- ▶ [St. Lucie River and Estuary 2024 Annual Meeting](#)
- ▶ [Lake Okeechobee 2024 Annual Meeting and 5-Year Review Kick Off](#)

FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES (FDACS) PROGRESS UPDATE

As of March 1, 2024, FDACS has completed 90% of required implementation verifications (IVs) for agricultural operations within the NEEPP boundary. IV completion increased as more of the enrolled producers whose IVs were deferred due to impacts of Hurricanes Ian and Nicole are having IVs completed. FDACS continues to collect and retain required nutrient application records as IVs are conducted.

A LOOK AHEAD

April 25, 2024

DEP's North Indian River Lagoon, Banana River Lagoon, and Central Indian River Lagoon (IRL) BMAPs annual public meeting via webinar; SFWMD coverage is in the Central IRL area.

April 30, 2024

DEP's IRL Spatial Watershed Iterative Loading (SWIL) public meeting via webinar.

The meeting will focus on updates to the SWIL model used for BMAP allocations and project credits for stakeholders.



Great egret at Lake Okeechobee



Indian River Lagoon