



South Florida Water Management District

GOVERNING BOARD MONTHLY MEETING AGENDA

May 9, 2024

9:00 AM

Indian River State College Chastain Campus
Building C, Susan H. Johnson Auditorium
2400 SE Salerno Road
Stuart, FL 34997

FINAL - REVISED*

*Item 27 was revised

1. Call to Order - Chauncey Goss, Chairman, Governing Board
2. Pledge of Allegiance
3. Recognition of Officials
4. Employee Recognitions
 - May 2024 Employee of the Month: Michelle Reichert, Right of Way Specialist - Supervisor, Okeechobee Field Station
 - May 2024 Team of the Month: In-House Canal Maintenance Dredging Program Team
 - 30-Year Service Award: Wanda Rentas, Business Management Analyst
5. Agenda Revisions
6. Agenda Item Abstentions by Board Members
7. Big Cypress Basin Board Report - Charlette Roman, Chair
8. Consider Approval of the Minutes for the April 11, 2024 Meeting
9. Executive Director's Report - Drew Bartlett

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

Consent Agenda

15. Exchange of Canal Easements, Hillsboro Canal, Broward County (Staff contact, Ray Palmer)

Agenda Item Background:

The Applicant, Jason Etheridge, has requested a release of a 0.08 acre, more or less, portion of the existing Hillsboro Canal right of way easement in exchange for a new canal right of way easement clarifying the District's interest, containing 0.19 acres, more or less. The original easement was a generic plat dedication lacking detailed rights granted to the District. The new easement clarifies the District's interests and rights for canal operations and maintenance. The District's release will cover the South 40 feet of the existing easement. This exchange is consistent with other exchanges that have occurred within this reach of the Hillsboro Canal in the past.

Recommended Action:

Resolution No. 2024-0501 Release a portion of a canal right of way easement containing 0.08 acres, more or less, in exchange for a canal right of way easement containing 0.19 acres, more or less, Hillsboro Canal, located in Section 31, Township 47 South, Range 42 East, Broward County.

[Memorandum Exhibit A](#)

[Resolution No. 2024-0501](#)

16. Land Conveyance to the City of Lauderhill, Broward County (Staff contact, Ray Palmer)

Agenda Item Background:

In 1972, the District acquired land interests at no cost in conjunction with the future construction of the C-12N Canal. This proposed canal was to connect the C-13 to the C-12 in western Broward County, but in the late 1970's it was determined that the planned interconnect canal was not feasible or needed for future use and was abandoned. Thereafter, no additional lands were acquired for the planned C-12N connection, and the land was not conveyed back to the former owners.

The City of Lauderhill (City) recently contacted the Real Estate Bureau requesting the lands to be transferred to them for a stormwater infrastructure improvement project. The land will be conveyed at no cost to the City and without the reservation of oil, gas, and mineral rights pursuant to Section 270.11, Florida Statutes. Should the City not

use the property for their stormwater infrastructure project, the property will revert back to the District.

Recommended Action:

Resolution No. 2024-0502 Approve surplus for conveyance to the City of Lauderhill fee simple interests containing 0.28 acres, more or less, located in Broward County, at no cost and without reservation of rights pursuant to Chapter 270.11, Florida Statutes.

[Resolution No. 2024-0502](#)

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

Agenda Item Background:

The District has certain reserved rights to construct canal and road right of ways and reserved mineral rights. 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 of the appraised value of the land on the Property Appraiser's website in the County where the property is located. Mineral rights are retained by the District and a Non-Use Commitment is issued.

Staff evaluated the properties' size and location for future flood control and reclamation purposes related to water storage and conveyance. Lake Worth Drainage District owns the adjacent canal and has retained property interests to widen the canal. Regarding storage, the District owns significant parcels in Palm Beach County adjacent to works of the District.

This storage opportunity was further evaluated with respect to the specific development being proposed on the property. The subject properties will each have 60% greenspace set aside as required by county rules. Additionally, to protect that greenspace, a restrictive covenant will be recorded in favor of the District and a conservation easement has been recorded in favor of Palm Beach County. This greenspace set aside provides for pervious infiltration and storage in and on the landscape and inherently provides for more onsite retention and green infrastructure water management in the area. The remainder of the property would be permitted pursuant to Environmental Resource Permit stormwater management requirements.

Therefore, given that Lake Worth Drainage District flood control needs have been reserved, coupled with the nature of the development and requisite restrictive covenant and conservation easement, District staff asks the Board to consider release of the reservations.

This release was considered and approved by the Board in November 2023. In the Resolution from that meeting, the Board approved releasing the reservations based on the applicant's representation that the District would be named as beneficiary of a conservation easement with Palm Beach County. The applicant was unable to meet

that requirement and the District has reached this alternative solution.

Palm Beach County

- Release District canal and road reservations for Barbara M. Logan, Trustee of the Barbara M. Logan Revocable Trust dated August 22, 2007; Cecily DeReuil Fazio and James J. DeReuil, Co-Trustees of the Barbara R. DeReuil Revocable Trust Agreement dated October 6, 2009, and David M. Bargas, Nancy L. Jankovsky and Susan J. Griffin, Co-Trustees of the John Bargas Trust dated March 10, 2004 (File No. 18932) for 39.24+/- acres; subject to release value payment in the amount of \$249,702.57.
- Release District canal and road reservations and issue a Non-Use Commitment for Patricia A. Mazzoni and Thomas A. Smith, Co-Trustees of the William A. Mazzoni Revocable Trust dated June 4, 1992 (File No. 18935) for 92.66+/- acres; subject to release value payment in the amount of \$645,956.04.

Recommended Action:

Resolution No. 2024-0503 Release certain canal and road reservations and issue a Non-Use Commitment, subject to execution of a restrictive covenant over a portion of the properties.

[Memorandum Exhibit A](#)

[Resolution No. 2024-0503](#)

[Location Maps](#)

[Site Map](#)

18. Biscayne Bay Coastal Wetlands Pump Station S-710 - Right of Way Occupancy Permit and Waiver, Florida Power & Light Company (Staff contact, Rich Virgil)

Agenda Item Background:

Florida Power and Light Company (Applicant) requests a Standard Right of Way Occupancy Permit Number 16989-R (ROW Permit) to install a buried parallel run for electric service and a pad-mounted transformer within the south right of way of the C-103 Canal beginning at the intersection of the L-31E Canal and extending west approximately 3,600 feet. The proposed electric service and transformer will be installed approximately 50 feet north of the south right of way line, requiring a waiver to the requirement that the installation be located within 10 feet of the right of way line. The purpose of the project is to provide electric service to the S-710 Pump Station (S-710) which is presently under construction. S-710 is being constructed by the U.S. Army Corps of Engineers (USACE) and its purpose is to pump fresh water from the C-103 Canal into the Biscayne Bay Coastal Wetlands to the south. Initially, S-710 will be operated by the USACE. Upon completion of the Operational Testing and Monitoring Period, S-710 will be transferred to the District. The current anticipated construction completion date for S-710 is June 8, 2025, and the earliest S-710 would be transferred to the District is mid-2026.

The Applicant has demonstrated a substantial hardship that supports granting of the requested waiver. The waiver is required because placing the utilities within 10 feet of the right of way line will adversely impact adjacent existing wetlands. In addition, there are existing topographical conditions that would make an installation within 10 feet of the right of way line difficult (e.g., existing debris piles and a steep drop in elevation at the edge of the wetlands). To install the utility within 10 feet of the right of way would

require considerable regrading of the edge of the right of way and permitting associated with impacts to the adjacent wetlands, resulting in additional costs to and delays of the electric service to S-710. As proposed, all work will be located underground with exception of the pad-mounted transformer. The new utility installation will be located a minimum of 42 feet from the top of bank, providing more than 40 feet, which is the minimum width along the top of bank required for District operations and maintenance activities. 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 16989-R and the associated petition for waiver to allow the installation of a buried parallel run and pad-mounted transformer to be more than 10 feet from the right of way line (Application No. 240206-42289).

[Backup Presentation](#)

19. Designation of the C-44 Stormwater Treatment Project Area as a "Stormwater Treatment Area," Martin County (Staff contact, Rich Virgil)

Agenda Item Background:

Construction activities have been completed on the approximately 6300-acre C-44 Stormwater Treatment Project area located in Martin County (Property). The District proposes to designate the Property as a "Stormwater Treatment Area" in accordance with Public Use Rule 40E-7.521(27), Florida Administrative Code (F.A.C.). The District also proposes to authorize the Florida Fish and Wildlife Conservation Commission (FWC) to establish the Property as a Public Small Game Hunting Area and Alligator Harvest Unit for the purpose of managing public waterfowl and alligator hunting opportunities on the Property in accordance with Rule 40E-7.527, F.A.C. This will also allow for nature-based recreational opportunities on the Property and provide resource protection measures consistent with the operation of the project as a stormwater treatment area.

Designating the Property as a "Stormwater Treatment Area" will provide a regulatory framework for managing recreational use on the Property consistent with the purpose for which the Property was acquired, and consistent with the operation of the project as a stormwater treatment area. A "Stormwater Treatment Area" designation will allow the District to apply the rules codified in Chapter 40E-7 F.A.C, to manage public recreation within the Property. These rules include establishing public access points and providing for a variety of recreational activities including hunting, hiking, biking, fishing, and wildlife viewing opportunities that are compatible with operating the Property as a stormwater treatment area.

The FWC supports establishing the Property as a Public Small Game Hunting Area and as an Alligator Harvest Unit to allow public waterfowl and alligator hunting opportunities on the Property in accordance with State and Federal regulations and with approval from the South Florida Water Management District. Comments received by District staff from recreational groups and public use stakeholders indicate there is a strong public interest in opening the Property for recreation and hunting.

Following approval of this agenda item, District staff will work towards allowing highly managed nature-based recreation opportunities including Audubon led birding tours, FWC-managed hunts, and construction of a public parking trailhead, which includes a stabilized parking area with Americans with Disabilities Act (ADA) access, interpretive kiosks, shelters, benches, restrooms, and signage. Once the construction of these facilities are complete, the Property will be open for regularly scheduled public access and recreation.

Recommended Action:

Resolution No. 2024-0504 Designate the approximately 6300-acre C-44 Stormwater Treatment Project Area, located in Martin County, as a “Stormwater Treatment Area” as defined in Rule 40E-7.521(27), Florida Administrative Code, and authorize the Florida Fish and Wildlife Conservation Commission to establish the property as a Public Small Game Hunting Area and Alligator Harvest Unit.

[Resolution No. 2024-0504](#)

20. Ground Application Services Contracts (Staff contact, Rich Virgil)

Agenda Item Background:

Invasive and nuisance plants threaten the operation and maintenance of the Central and Southern Florida (C&SF) project and the health and stability of the natural ecosystems of South Florida. Plant species with the highest potential for impacting District infrastructure and District-managed natural areas are best controlled through an integrated management approach using chemical, biological, and physical methods. The primary method of control is the application of U.S. Environmental Protection Agency (EPA) approved herbicides. The District utilizes contractors (consistent with the District’s herbicide reduction strategy) to apply herbicides to various types of aquatic, wetland and upland vegetation using ground application equipment and associated support vehicles as well as planting beneficial native vegetation, under the direction of District project managers. The District intends to issue three-year work order contracts with two one-year renewal options to ten contractors following negotiations. The existing ground service agreements will expire September 30, 2024. All responsive and responsible applicants that met District criteria have been selected for these services, which the following contractors may provide ground application services, as needed: Applied Aquatic Management, Inc., Aquatic Vegetation Control, Inc., Environmental Quality, Inc., Ground Level, Inc., Walker Environmental, LLC DBA Walker Exotic Tree Eradication, Native Creations, Inc., Earthbalance Corporation, Florida Best Inc. of Haines City, Woods and Wetlands, Inc., Deangelo Contracting Services LLC DBA Aquagenix.

Recommended Action:

Resolution No. 2024-0505 Authorize the official ranking of firms and enter into three-year work order contracts, with two 1-year renewal options with ten firms: Applied Aquatic Management, Inc, Aquatic Vegetation Control, Inc., Environmental Quality, Inc., Ground Level, Inc., Walker Environmental, LLC DBA Walker Exotic Tree Eradication, Native Creations, Inc., Earthbalance Corporation, Florida Best Inc. of Haines City, Woods and Wetlands, Inc., Deangelo Contracting Services, LLC DBA Aquagenix, subject to successful negotiations to provide Ground Application Services in an amount not-to-exceed

\$160,000,000 for all ten work order contracts, which the Fiscal Year 2023-2024 budget includes approved Ad Valorem and dedicated funds (State Appropriations, Federal, State and Local Grant funds, Lease Revenue, and Wetland and Lake Belt Mitigation funds), and the remainder is subject to Governing Board approval of future years’ budgets; the District will proceed in ranked order until agreements have been successfully negotiated.

Contract No.	Vendor Name
4600004967	Applied Aquatic Management, Inc.
4600004968	Aquatic Vegetation Control, Inc.
4600004969	Environmental Quality, Inc.
4600004970	Ground Level, Inc.
4600004971	Walker Environmental, LLC DBA Walker Exotic Tree Eradication
4600004972	Native Creations, Inc.
4600004973	Earthbalance Corporation
4600004974	Florida Best Inc. of Haines City
4600004975	Woods and Wetlands, Inc.
4600004976	Deangelo Contracting Services, LLC DBA Aquagenix

[Resolution No. 2024-0505](#)

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

Agenda Item Background:

As part of Central Everglades Planning Project Everglades Agricultural Area (CEPP EAA), 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 in the amount of \$1,571,865.

The bridge is a necessary part of the CEPP EAA 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. On January 21, 2022, the District executed an amendment to the LFA (Amendment No. 1) increasing the financial assistance by \$146,188 to cover the cost of Survey and additional Design Services, bringing the total value 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 \$232,080 and is needed to fund required design changes to the aforementioned roadway/bridge design, bringing the total financial assistance under this LFA to \$1,950,133.

Governing Board approval to execute Amendment No. 2 is required as the total financial assistance attributable to Amendment 1 together with Amendment 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. 2024-0506 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 \$232,080 for which dedicated funds (Everglades Trust Fund and Land Acquisition Trust Fund) are budgeted in Fiscal Year 2023-2024. (Contract 4600004411-A02)

[Resolution No. 2024-0506](#)

[Attachment A - Location Map](#)

[Attachment B - Revised Amendment 2](#)

22. New Contract with the Water School at Florida Gulf Coast University to Conduct a Study of the Health and Ecosystem of Lake Okeechobee (Staff contact, Lawrence Glenn)

Agenda Item Background:

On April 4, 2024, Governor DeSantis signed Senate Bill (SB) 1638, Funding for Environmental Resource Management, which provides \$150 million in nonrecurring funds to the District for operations and maintenance responsibilities under the purview of the District. The bill requires that the District enter into a contract with the Water School at Florida Gulf Coast University (FGCU) to conduct a study of the health and ecosystem of Lake Okeechobee. The study must 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. A report must be submitted by January 1, 2025, to the Executive Office of the Governor, the President of the Senate, and the Speaker of the House of Representatives. The Florida Department of Environmental Protection (DEP) is authorized to submit budget amendments to request release of funds pursuant to Chapter 216, Florida Statutes. Release is contingent upon the submission of a spend plan and negotiated draft contract between the District and FGCU Water School.

Recommended Action:

Resolution No. 2024-0507 Authorize entering into a contract with the Water School at Florida Gulf Coast University to conduct a study of the health and ecosystem of Lake Okeechobee; in an amount not to exceed \$2,000,000, for which dedicated funds (state grant pursuant to Section 15, Chapter 2024-58, Laws of Florida) are budgeted in Fiscal Year 2023-2024. (Contract No. 4600004962)

[Resolution No. 2024-0507](#)

23. University of South Florida Contract for Machine Learning (Staff contact, Lawrence Glenn)

Agenda Item Background:

Staff seeks Governing Board approval to enter a 5-year contract with University of

South Florida to develop modeling tools, including machine learning, to assist restoration of oyster habitat in the Caloosahatchee River Estuary (CRE) using a portion of a recently awarded EPA Grant, SF - 02D42823. The models will be used to quantify and forecast changes in oyster larval transport, estuarine habitat area, and production with variations in climate, inflow, circulation, and water management using machine learning, hydrodynamic and ecological modeling, to provide ecologically meaningful guidance to water management operations, inform hydrologic and habitat restoration targets, and provide prioritization tools for natural resource practitioners enhancing and restoring oyster reef habitat in the CRE. As part of the EPA grant project for the development of the modeling tools, this study has two tasks: (1) develop a Self-Organizing Map (SOM) based empirical model of oyster restoration and water management for CRE and (2) develop an oyster larvae trajectory nowcast/forecast system for the CRE based on the West Florida Coastal Ocean Model system.

Recommended Action:

Resolution No. 2024-0508 Authorize entering into a five-year contract with the University of South Florida to develop a Self-Organizing Map (SOM) based empirical model of oyster restoration and water management for the Caloosahatchee River Estuary (CRE) and to develop an oyster larvae trajectory nowcast/forecast system for the CRE based on the West Florida Coastal Ocean Model (WFCOM), in the amount of \$315,384, for which dedicated funds (Federal Grant) are budgeted in Fiscal Year 2023-2024. (Contract No. 4600004982)

[Resolution No. 2024-0508](#)

24. Water Reuse Week, May 19-25, 2024 (Staff contact, Lawrence Glenn)

Agenda Item Background:

May typically marks the end of the dry season and can be a time when water needs are most acute. At this time, it is important to increase awareness regarding the re-use of our precious water resources. Over the last two decades, water reuse in the District has increased 60 percent to approximately 310 million gallons per day and has become integral to South Florida's water supply. WaterReuse Florida, the state section of the WaterReuse Association, has designated May 19-25, 2024, as Water Reuse Week in the State of Florida.

With this resolution, the South Florida Water Management District will join WaterReuse Florida, other water management districts, local governments, and other organizations in supporting water reuse with the adoption of similar resolutions throughout Florida.

Recommended Action:

Resolution No. 2024-0509 Proclaim May 19-25, 2024 as Water Reuse Week.

[Resolution No. 2024-0509](#)

25. Datalogger Recorder Maintenance Services at Monitoring Sites in the Southwest Region of the District (Staff contact, Akintunde Owosina, P.E.)

Agenda Item Background:

Supervisory Control and Data Acquisition (SCADA) Telemetry Service (STS) requires contractual field services to maintain approximately 126 sites for a period of five years. These sites are located within the Southwest Region of the District (Hendry, Collier,

Lee, Charlotte and Glades counties) and provide continuous monitoring of surface and ground water levels, gate and pump status, and water quality, hydrogeological, and meteorological parameters.

STS does not have the necessary manpower to perform the required maintenance, data collection and verification, and repairs at these sites, activities critical to ensuring the accuracy of the hydrologic records, and continuous, uninterrupted data flow, vital to support the District's mission of flood control, environmental monitoring and assessment, and to meet mandated monitoring and reporting requirements. The contractual support sought is for field services only, the District provides all electronic parts and equipment.

This request is to enter into a five-year contract with Hydrologic Data Collection LLC., the lowest responsive and responsible bidder, for Southwest Area Datalogger Maintenance Services, in an amount not to exceed \$900,000, for which Ad Valorem funds in the amount of \$37,535 are budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years' budgets. This item was competitively bid through a sealed bid process (RFB 6000001496). The bid opening date was March 5, 2024.

Recommended Action:

Resolution No. 2024-0510 Authorize entering into a five-year contract with Hydrologic Data Collection LLC., the lowest responsive and responsible bidder, for Datalogger Recorder Maintenance Services at sites which provide continuous monitoring of surface and ground water levels, water quality, hydrogeological and meteorological parameters, and gate and pump status in the southwest region of the District in an amount not to exceed \$900,000, for which Ad Valorem funds in the amount of \$37,535 are budgeted in Fiscal Year 2023-2024, and the remainder is subject to Governing Board approval of future years' budgets. (Contract No. 4600004978)

[Resolution No. 2024-0510](#)

26. STA-1E Central Flow-Way Cell 3 and Cell 4N Project, Palm Beach County (Staff contact, Lucine Dadrian, P.E.)

Agenda Item Background:

As part of the Stormwater Treatment Area (STA) Refurbishments Program, the STA-1E Central Flow-way Cell 3 and 4N Project, located in Palm Beach County, is needed to correct issues in these two cells that have developed over the past 15-20 years of use. During standard operations, the spreader canals along the north edge of the treatment cells distribute water internally to sheet flow north-to-south across the treatment cells and into to the collector canals at the south edge. Over time, sedimentation, short-circuiting and elevated floating vegetation have disrupted the flow through the cells, making them less efficient. This Project will regrade the cells to a uniform elevation, provide preventative measures near the inflow structures and improve the treatment efficiency within these cells. The resulting work will improve water quality discharges to the Everglades Protection Area by helping to balance flows and loads to meet the Water Quality Based Effluent Limit (WQBEL) that would achieve compliance with the State of Florida's numeric phosphorous criterion in the Everglades Protection Area.

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 May 1, 2024.

Recommended Action:

Resolution No. 2024-0511 Authorize entering into a 705-day contract with Phillips & Jordan, Inc., the lowest responsive and responsible bidder, for the STA-1E Central Flow-way Cell 3 and 4N Project, in the amount of \$29,731,000, for which Ad Valorem funds in the amount of \$750,000 are budgeted in Fiscal Year 2023-2024, and authorize payment of up to an additional \$3,010,000 Incentive Payment to Phillips & Jordan, Inc. if Substantial Completion is achieved on or before Notice to Proceed plus 428 days, and the remainder is subject to Governing Board approval of future years' budgets. (Contract No. 4600004984)

[Resolution No. 2024-0511](#)

[Backup](#)

Discussion Agenda

27. Alternative Water Supply Funding Program (Staff contact, Stacey Payseno)

Agenda Item Background:

This item includes a presentation of the Fiscal Year 2024-2025 Alternative Water Supply Funding Program (Program) which includes a recap and the final project list for the Florida Department of Environmental Protection (DEP) submittal by May 31, 2024. The Program's purpose is to provide financial incentives through matching grants for local alternative water supply (AWS) and water conservation projects. Water resource and water supply development projects help to protect our water resources and ensure that the needs of existing and future users are met.

Recommended Action:

A. Resolution No. 2024-0512 Approve and authorize submittal of the final project list to the Florida Department of Environmental Protection for the purpose of funding consideration for projects listed in the Florida Department of Environmental Protection Alternative Water Supply Grant Program in dedicated state appropriations from the 2024 State General Appropriations Act.

B. Resolution No. 2024-0513 Authorize entering into agreement(s) with cooperating entities for alternative water supply and water conservation projects with dedicated state appropriations from the 2024 General Appropriations and delegating authority to the Executive Director to execute the agreements for identified projects that receive state appropriations.

[A. Resolution No. 2024-0512](#)

[B. Resolution No. 2024-0513](#)

28. Contract Amendment for the Lower Kissimmee Basin Stormwater Treatment Area Project (Staff contact, Jennifer Reynolds)

Agenda Item Background:

As part of the Northern Everglades and Estuaries Protection Program (NEEPP), the Lower Kissimmee Basin Stormwater Treatment Area (LKBSTA) Project, located in Okeechobee County, will remove phosphorus loads from contributing basins before they enter Lake Okeechobee. In December 2021, the Governing Board authorized entering into a Project Agreement with EIP Florida Water Quality, LLC for the design, construction, operation, and land acquisition of the LKBSTA Project. The project, as currently designed, is expected to remove 12-15 metric tons of TP per year and will cost \$300 Million.

Since December 2021, significant investigation and public engagement has occurred, and the project concept has evolved both to increase the benefits and address public concerns from nearby stakeholders. The land associated with the original contract has also been investigated to ensure project feasibility.

An additional 1,400 acres southeast of the existing LKBSTA Project are available to expand the project footprint. Expanding the project would allow for additional water treatment in the region and is estimated to bring the total project TP removal to 20-22 metric tons per year. Staff requests Governing Board approval to amend the current contract with EIP Florida Water Quality, LLC to revise the project design to include the expanded project footprint.

Recommended Action:

Resolution No. 2024-0514 Authorize entering into an amended Project Agreement with Ecosystem Investment Partners Florida Water Quality, LLC, for the revised design of the Lower Kissimmee Basin Stormwater Treatment Area (LKBSTA) Project, entering into an amended DEP grant funding agreement for the expansion of the LKBSTA Project. (Contract No. 4600004527)

[Resolution No. 2024-0514](#)
[LKBSTA Site Plan](#)

Technical Reports

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

Staff Reports

- 30. Monthly Financial Report - Candida Heater, Division Director - Administrative Services
 - Lake Belt Mitigation Committee Annual Report for 2023
- 31. General Public Comment
- 32. Board Comment
- 33. Adjourn

eComment, Final Presentations, and Project Updates

Agenda Item Background:

10 Fojtik eComment
27 Payseno DEPAWS Funding
28 Reynolds LKBSTA
29 Mitnik Glenn Water and Eco Conditions Report
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: May 9, 2024

SUBJECT: Exchange of Canal Easements, Hillsboro Canal, Broward County

Agenda Item Background:

The Applicant, Jason Etheridge, has requested a release of a 0.08 acre, more or less, portion of the existing Hillsboro Canal right of way easement in exchange for a new canal right of way easement clarifying the District's interest, containing 0.19 acres, more or less. The original easement was a generic plat dedication lacking detailed rights granted to the District. The new easement clarifies the District's interests and rights for canal operations and maintenance. The District's release will cover the South 40 feet of the existing easement. This exchange is consistent with other exchanges that have occurred within this reach of the Hillsboro Canal in the past.

Additional Item Background:

See Memorandum Exhibit "A" attached hereto.

The exchange will be subject to the following terms, conditions, and requirements:

- a. The underlying fee owner shall convey to the District a perpetual canal right of way easement, clarifying the District's interests with respect to the subject easement area containing 0.19 acres, more or less, in form, content and substance acceptable to the District, free and clear of all encumbrances, liens, and other objectionable matters.
- b. The Applicant shall provide to the District title assurance acceptable to the District confirming that the new clarifying canal right of way easement for the Hillsboro Canal Right of Way is free and clear of all encumbrances, liens and other objectionable matters.
- c. All costs associated with this transaction shall be paid for by the Applicant, including but not limited to all recording costs, and under no circumstances shall the District be obligated to pay any amount to the Applicant or otherwise in connection with this transaction.
- d. The Applicant shall obtain all necessary permits and approvals from the District, including but not limited to District Right of Way Occupancy Permits pursuant to Chapter 40E-6, Florida Administrative Code, Broward County, U.S. Army Corps of Engineers and any other governmental agencies, if any, and pay all associated fees. There is no representation, guaranty or assurance made by the District that the District's Governing Board will in fact approve the issuance of any required District permits, and there is no obligation on the part of the District's Governing Board to approve the issuance of any required District permits. The District's review process for any required permits will be done separate, independent and unfettered of the fact that the District has approved this resolution and shall be in accordance with the District's applicable rules.
- e. All of the foregoing terms, conditions, and requirements set forth in subparagraphs (a.)

through (d.), inclusive, must be satisfied to the satisfaction of the District in its sole and absolute discretion no later than December 31, 2024.

The Applicant has paid a \$1,000 non-refundable application fee and will pay all costs associated with the exchange.

Core Mission and Strategic Priorities:

The Governing Board, pursuant to Section 373.089, Florida Statutes, may exchange lands or interests in land under terms and conditions determined by the Governing Board, and pursuant to Section 373.096, Florida Statutes, may release any easement, reservation or right of way interest for which the District has no present or apparent future use under terms and conditions determined by the Governing Board.

Staff Contact and/or Presenter:

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

ATTACHMENTS:

[Memorandum Exhibit A](#)

[Resolution No. 2024-0501](#)

HILLSBORO CANAL
RIGHT OF WAY

38100-095
NEW
EASEMENT

38100-094
RELEASE
PARCEL

NW 56TH-WAY

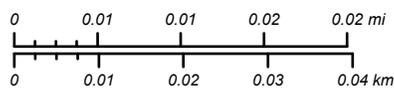
NW 77TH-CT

NW 56TH-AVE

Exhibit "A"



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



DISCLAIMER:
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SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024-05XX

A Resolution of the Governing Board of the South Florida Water Management District releasing a portion of a canal right of way easement containing 0.08 acres, more or less, in exchange for a canal right of way easement containing 0.19 acres, more or less, Hillsboro Canal, located in Section 31, Township 47 South, Range 42 East, Broward County; providing an effective date.

WHEREAS, pursuant to a request from the Applicant and underlying fee owner, Jason Etheridge, the District has determined it is in the public interest to release a portion of the Hillsboro Canal right of way easement containing 0.08 acres, more or less, for residential purposes, in exchange for a new canal right of way easement, clarifying the District's interest, containing 0.19 acres, more or less, located within Lot 1A, Block 8, HILLSBORO PINES SECTION "A", Plat Book 42, page 22, Section 31, Township 47 South, Range 42 East, Broward County; and

WHEREAS, the Governing Board has determined that the District has no present or apparent future use for the 0.08 +/- acre portion of the canal right of way easement to be released, and

WHEREAS, the Applicant has paid a \$1,000 non-refundable application fee, and will pay all recording fees and costs associated with this transaction; and

WHEREAS, the Governing Board, pursuant to Section 373.089 of the Florida Statutes, may exchange lands or interests in land under terms and conditions determined by the Governing Board, and pursuant to Section 373.096, Florida Statutes, may release any easement, reservation or right of way interest for which it has no present or apparent future use 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 has determined that the District has no present or apparent future use for the subject portion of the canal easement to be released, and hereby approves the release of a 0.08 acre portion, more or less, of the Hillsboro Canal right of way easement, being the South 40 feet of Lot 1A, for residential purposes. In exchange, a new canal right of way easement clarifying the District's interest, containing 0.19 acres, more or less, will be granted to the District over the remainder of Lot 1A, Block 8, HILLSBORO PINES, SECTION "A", Plat Book 42, page 22, Section 31, Township 47 South, Range 42 East, Broward County, provided all of the following terms, conditions, and requirements are satisfied to the satisfaction of the District, in its sole and absolute discretion:

- a. The underlying fee owner shall convey to the District a perpetual canal right of way easement, clarifying the District's interests with respect to the subject easement area containing 0.19 acres, more or less, in form, content and substance acceptable to the District, free and clear of all encumbrances, liens, and other objectionable matters.
- b. The Applicant shall provide to the District title assurance acceptable to the District confirming that the new clarifying canal right of way easement for the Hillsboro Canal Right of Way is free and clear of all encumbrances, liens and other objectionable matters.
- c. All costs associated with this transaction shall be paid for by the Applicant, including but not limited to all recording costs, and under no circumstances shall the District be obligated to pay any amount to the Applicant or otherwise in connection with this transaction.
- d. The Applicant shall obtain all necessary permits and approvals from the District, including but not limited to District Right of Way Occupancy Permits pursuant to Chapter 40E-6, Florida Administrative Code, Broward County, U.S. Army Corps of Engineers and any other governmental agencies, if any, and pay all associated fees. There is no representation, guaranty or assurance made by the District that the District's Governing Board will in fact approve the issuance of any required District permits, and there is no obligation on the part of the District's Governing Board to approve the issuance of any required District permits. The District's review process for any required permits will be done separate, independent and unfettered of the fact that the District has approved this Resolution and shall be in accordance with the District's applicable rules.
- e. All of the foregoing terms, conditions, and requirements set forth in subparagraphs (a.) through (d.), inclusive, must be satisfied to the satisfaction of the District in its sole and absolute discretion no later than December 31, 2024.

Section 2: The Governing Board of the South Florida Water Management District hereby authorizes the Chairman to execute the release document. No release instrument shall be delivered to the Applicant/underlying fee owner, or shall be effective, until all of the foregoing requirements have been fully completed and fulfilled to the District's satisfaction, and such release has been recorded in the Public Records of Broward County.

Section 3: This resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 9th day of May, 2024.

MEMORANDUM

TO: Governing Board Members
FROM: Ray Palmer, Real Estate
DATE: May 9, 2024
SUBJECT: Land Conveyance to the City of Lauderhill, Broward County

Agenda Item Background:

In 1972, the District acquired land interests at no cost in conjunction with the future construction of the C-12N Canal. This proposed canal was to connect the C-13 to the C-12 in western Broward County, but in the late 1970's it was determined that the planned interconnect canal was not feasible or needed for future use and was abandoned. Thereafter, no additional lands were acquired for the planned C-12N connection, and the land was not conveyed back to the former owners.

The City of Lauderhill (City) recently contacted the Real Estate Bureau requesting the lands to be transferred to them for a stormwater infrastructure improvement project. The land will be conveyed at no cost to the City and without the reservation of oil, gas, and mineral rights pursuant to Section 270.11, Florida Statutes. Should the City not use the property for their stormwater infrastructure project, the property will revert back to the District.

Additional Item Background:

Core Mission and Strategic Priorities:

The Governing Board, pursuant to Section 373.056, Florida Statutes, has the authority to convey to any governmental entity, land, or rights in land for which it has no present or apparent future use under terms and conditions determined by the Board.

Funding Source:

The City will pay any costs associated with the recording of the conveyance of the property and no costs will be paid by the District.

Staff Contact and/or Presenter:

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

ATTACHMENTS:

[Resolution No. 2024-0502](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024-05XX

A Resolution of the Governing Board of the South Florida Water Management District approving surplus for conveyance to the City of Lauderhill fee simple interests containing 0.28 acres, more or less, located in Broward County, at no cost and without reservation of rights pursuant to Chapter 270.11, Florida Statutes; providing an effective date.

WHEREAS, in 1972 the District acquired certain real estate interests containing 0.28 acres, more or less, in conjunction with a proposed canal known as the C-12N Project ("Project"), located in Section 36, Township 49 South, Range 41 East, Broward County, and shown on Exhibit "A", attached hereto and made a part hereof. The Project was abandoned in the late 1970's and the canal was not built; and

WHEREAS, the Governing Board has determined that it is in the public interest to convey said land to the City of Lauderhill so they may begin a storm water infrastructure improvement project on either side of Florida's Turnpike. The land is not required by the District for present or future use; and

WHEREAS, the real estate interest described herein will be conveyed at no cost and without the reservation of rights to mine and develop all phosphate, minerals, metals and petroleum in, on, or under said land pursuant to Section 270.11, Florida Statutes; and

WHEREAS, the Governing Board, pursuant to Section 373.056(4), Florida Statutes, has the authority to convey to any governmental entity, land or rights in land owned by the District not required for its purposes; and

WHEREAS, pursuant to Section 373.089(6), Florida Statutes, the Governing Board shall be required to determine that the land is no longer needed for conservation purposes by at least a two-thirds (2/3) majority.

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 (i) determines that fee simple ownership of the land acquired for the C-12N Project containing 0.28 acres, more or less, located in Broward County, depicted in Exhibit "A" attached hereto, is not required by the District for present or future use, and (ii) approves declaring surplus the land interests to be conveyed at no costs and without reservation of phosphate, minerals, metals and petroleum under Section 270.11, Florida Statutes to the City of Lauderhill.

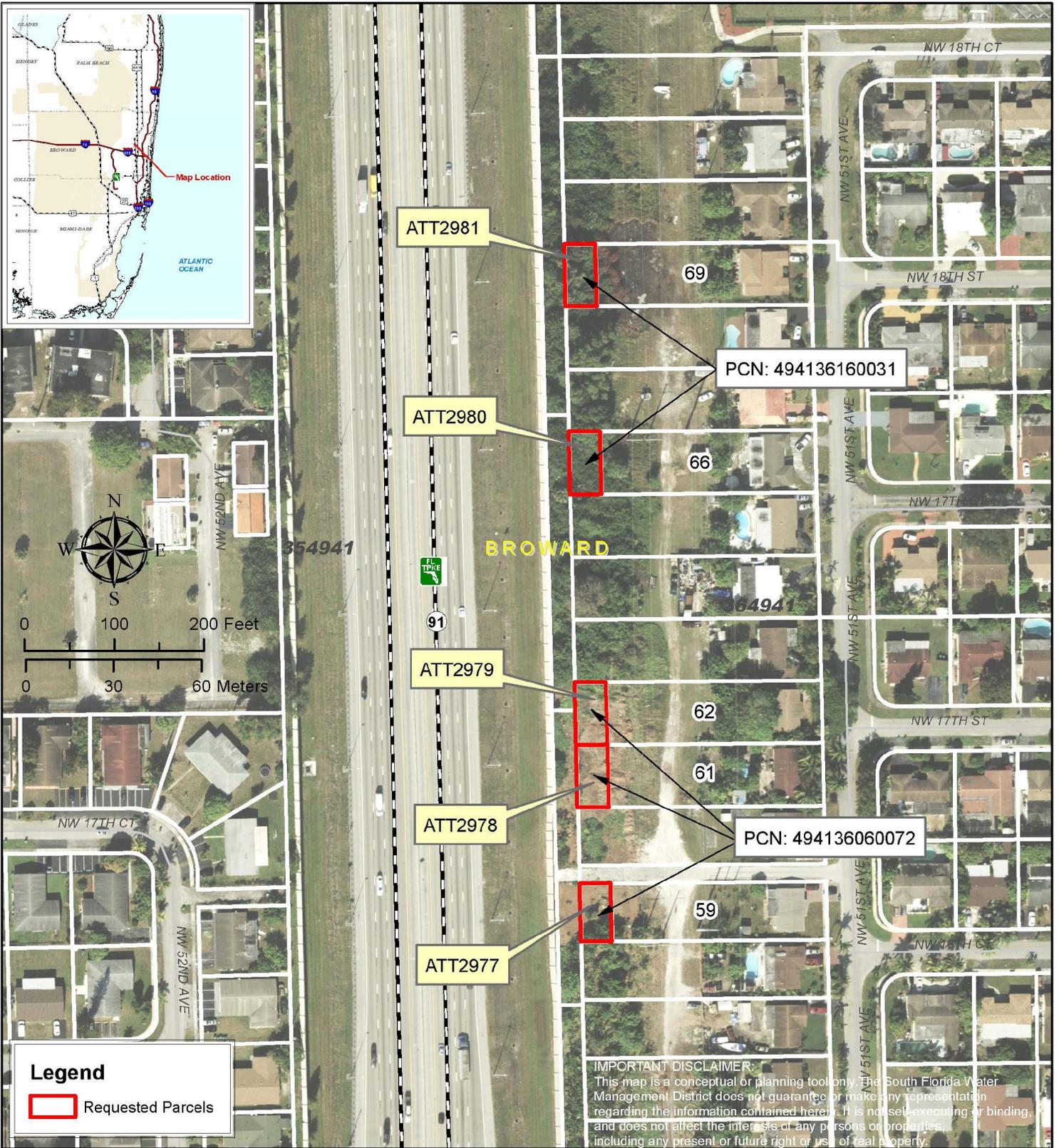
Section 2. Consistent with the requirements of Section 373.089(6), Florida Statutes, the Governing Board hereby determines that the subject land is no longer needed for conservation purposes, and that this Resolution was approved by the Governing Board by at least a two-thirds (2/3) vote.

Section 3. The Governing Board of the South Florida Water Management District hereby authorizes the Chairman or Vice Chairman to execute the conveyance document.

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

PASSED and **ADOPTED** this 9th day of May, 2024.

Exhibit "A"





Tracts ATT2977 through ATT2981
 Surplus to City of Lauderhill
 Broward County



MEMORANDUM

TO: Governing Board Members

FROM: Ray Palmer, Real Estate

DATE: May 9, 2024

SUBJECT: Release of Reservations, Palm Beach County

Agenda Item Background:

The District has certain reserved rights to construct canal and road right of ways and reserved mineral rights. 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 of the appraised value of the land on the Property Appraiser's website in the County where the property is located. Mineral rights are retained by the District and a Non-Use Commitment is issued.

Staff evaluated the properties' size and location for future flood control and reclamation purposes related to water storage and conveyance. Lake Worth Drainage District owns the adjacent canal and has retained property interests to widen the canal. Regarding storage, the District owns significant parcels in Palm Beach County adjacent to works of the District.

This storage opportunity was further evaluated with respect to the specific development being proposed on the property. The subject properties will each have 60% greenspace set aside as required by county rules. Additionally, to protect that greenspace, a restrictive covenant will be recorded in favor of the District and a conservation easement has been recorded in favor of Palm Beach County. This greenspace set aside provides for pervious infiltration and storage in and on the landscape and inherently provides for more onsite retention and green infrastructure water management in the area. The remainder of the property would be permitted pursuant to Environmental Resource Permit stormwater management requirements.

Therefore, given that Lake Worth Drainage District flood control needs have been reserved, coupled with the nature of the development and requisite restrictive covenant and conservation easement, District staff asks the Board to consider release of the reservations.

This release was considered and approved by the Board in November 2023. In the Resolution from that meeting, the Board approved releasing the reservations based on the applicant's representation that the District would be named as beneficiary of a conservation easement with Palm Beach County. The applicant was unable to meet that requirement and the District has reached this alternative solution.

Palm Beach County

- Release District canal and road reservations for Barbara M. Logan, Trustee of the

Barbara M. Logan Revocable Trust dated August 22, 2007; Cecily DeReuil Fazio and James J. DeReuil, Co-Trustees of the Barbara R. DeReuil Revocable Trust Agreement dated October 6, 2009, and David M. Bargas, Nancy L. Jankovsky and Susan J. Griffin, Co-Trustees of the John Bargas Trust dated March 10, 2004 (File No. 18932) for 39.24+/- acres; subject to release value payment in the amount of \$249,702.57.

- Release District canal and road reservations and issue a Non-Use Commitment for Patricia A. Mazzoni and Thomas A. Smith, Co-Trustees of the William A. Mazzoni Revocable Trust dated June 4, 1992 (File No. 18935) for 92.66+/- acres; subject to release value payment in the amount of \$645,956.04.

Additional Item Background:

See Memorandum Exhibit “A” and maps attached hereto and made a part hereof, which contain 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 issue a release for 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](#)

[Resolution No. 2024-0503](#)

[Location Maps](#)

[Site Map](#)

MEMORANDUM – EXHIBIT “A”

Palm Beach County

File No: 18932
Applicant: Barbara M. Logan, Trustee of the Barbara M. Logan Revocable Trust dated August 22, 2007; Cecily DeReuil Fazio and James J. DeReuil, Co-Trustees of the Barbara R. DeReuil Revocable Trust Agreement dated October 6, 2009, and David M. Bargas, Nancy L. Jankovsky and Susan J. Griffin, Co-Trustees of the John Bargas Trust dated March 10, 2004
Reserving Deeds: E-2851 (DB 714-157, 4/12/1945), T-2232 (DB 332-339, 10/15/1925), T-4303 (DB 381-109, 3/31/1926) and T-5205 (DB 425-80, 6/22/1927)
Application Fee: \$500.00
Release Value: \$249,702.57 (unpaid)
Action: Release District canal and road reservations, subject to payment of \$249,702.57 for release of District real property interests
Acres: 39.24 acres, more or less
Legal Description: Portions of Tracts 7, 8, 25, 26, 39, 40, 57 and 58, BLOCK 54, PALM BEACH FARMS COMPANY PLAT NO. 3, PB 2-45, Section 29, Township 45 South, Range 42 East
Location: 11275 Acme Dairy Road, Boynton Beach, Palm Beach County
Reviewed By: Real Estate Bureau; Field Operations Division; Water Supply Development Section; Right of Way Section; Environmental Recourse Permitting Bureau; Ecosystem Restoration Division; Engineering, Construction and Modeling Division; Office of Counsel, and Lake Worth Drainage District

File No: 18935
Applicant: Patricia A. Mazzoni and Thomas A. Smith, Co-Trustees of the William A. Mazzoni Revocable Trust dated June 4, 1992
Reserving Deeds: E-516 (DB 685-589, 4/15/1944), E-2851 (DB 714-157, 4/12/1945), E-4634 (DB 747-247, 1/29/1946), E-4634C (DB 781-402, 9/19/1946) and E-7015 (DB 928-362, 12/12/1950)
Application Fee: \$2,825.00
Release Value: \$645,956.04 (unpaid)
Action: Release District canal and road reservations and issue Non-Use Commitment, subject to payment of \$645,956.04 for release of District real property interests
Acres: 92.66 acres, more or less
Legal Description: Portions of Tracts 2 through 6; 27 through 31; 34 through 38, and 59 through 63, Block 54, THE PALM BEACH FARMS CO. PLAT NO. 3, PB 2-45, Section 29, Township 45 South, Range 42 East
Location: 8344 Boynton Beach Blvd., Boynton Beach, Palm Beach County
Reviewed By: Real Estate Bureau; Field Operations Division; Water Supply Development Section; Right of Way Section; Environmental Recourse Permitting Bureau; Ecosystem Restoration Division; Engineering, Construction and Modeling Division; Office of Counsel, and Lake Worth Drainage District

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024-05XX

A Resolution of the Governing Board of the South Florida Water Management District to release certain canal and road reservations and issue a Non-Use Commitment, subject to execution of a restrictive covenant over a portion of the properties; providing an effective date.

WHEREAS, the applicants have requested that the South Florida Water Management District release certain District canal and road reservations and issue a Non-Use Commitment as to District mineral reservations; and

WHEREAS, the District is empowered to grant such releases and issue a Non-Use Commitment pursuant to Section 373.096, Florida Statutes, 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 the release of certain canal and road reservations and the issuance of a Non-Use Commitment for the properties described in Resolution Exhibit "A" attached hereto and made a part hereof, provided the following terms, conditions, and requirements are satisfied in the sole and absolute discretion of the District:

- a.** Receipt of a fully executed restrictive covenant in favor of the District on a form approved by the District.
- b.** Receipt of all funds required to be paid under the District's policies and procedures.

Section 2. The Governing Board of the South Florida Water Management District hereby authorizes the Chairman to execute the release document and the restrictive covenant. No documents shall be delivered to the applicant, nor shall it be effective, until all of the foregoing requirements have been fully completed or fulfilled to the District's satisfaction, and such release has been recorded in the Public Records of Palm Beach County.

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

PASSED and **ADOPTED** this 9th day of May, 2024.

RESOLUTION – EXHIBIT “A”

Palm Beach County

File No: 18932
Applicant: Barbara M. Logan, Trustee of the Barbara M. Logan Revocable Trust dated August 22, 2007; Cecily DeReuil Fazio and James J. DeReuil, Co-Trustees of the Barbara R. DeReuil Revocable Trust Agreement dated October 6, 2009, and David M. Bargas, Nancy L. Jankovsky and Susan J. Griffin, Co-Trustees of the John Bargas Trust dated March 10, 2004

Reserving Deeds: E-2851 (DB 714-157, 4/12/1945), T-2232 (DB 332-339, 10/15/1925),
T-4303 (DB 381-109, 3/31/1926) and T-5205 (DB 425-80, 6/22/1927)

Release Value: \$249,702.57 (unpaid)
Action: Release District canal and road reservations, subject to payment of \$249,702.57 for release of District real property interests

Acres: 39.24 acres, more or less
Legal Description: Portions of Tracts 7, 8, 25, 26, 39, 40, 57 and 58, BLOCK 54, PALM BEACH FARMS COMPANY PLAT NO. 3, PB 2-45, Section 29, Township 45 South, Range 42 East

Location: 11275 Acme Dairy Road, Boynton Beach, Palm Beach County

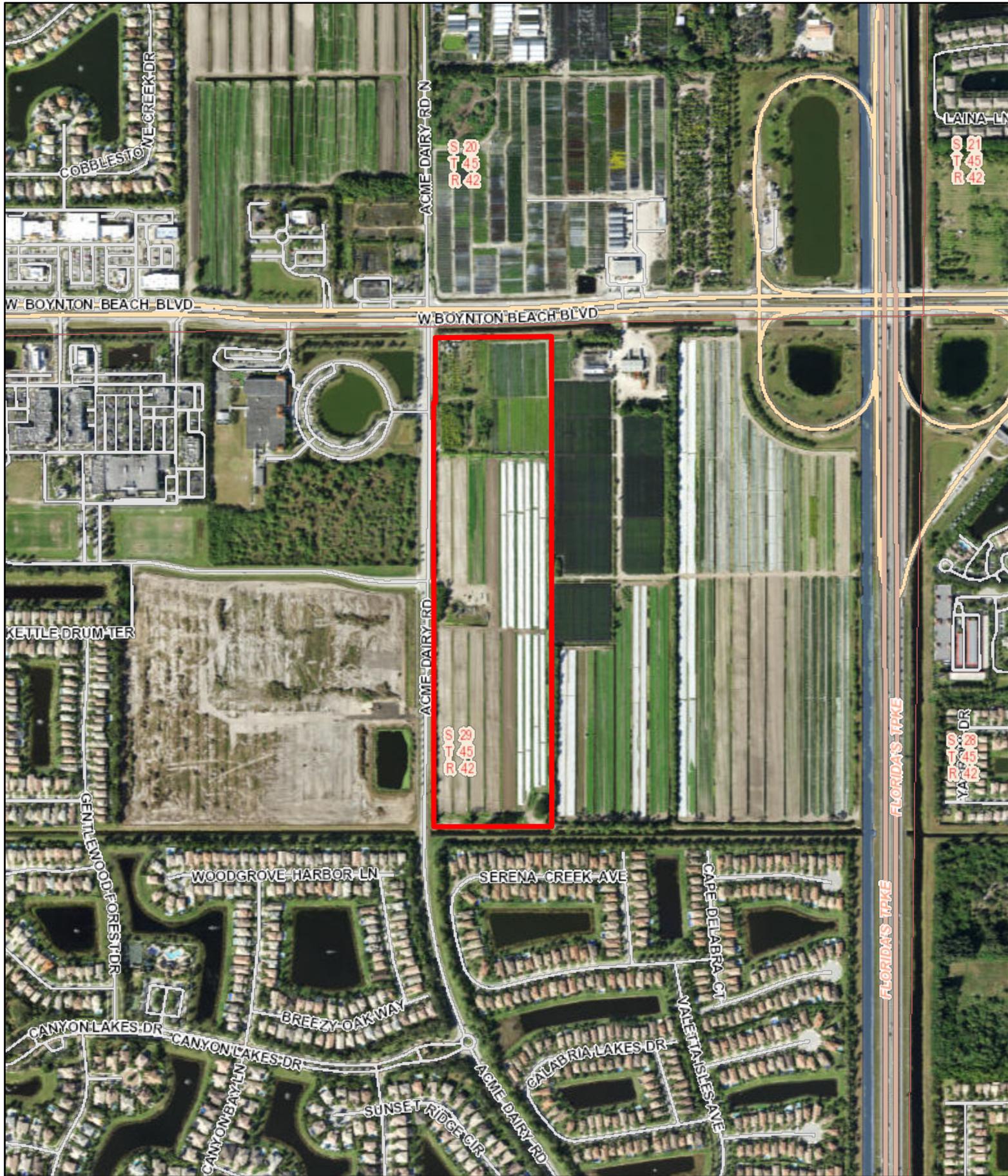
File No: 18935
Applicant: Patricia A. Mazzone and Thomas A. Smith, Co-Trustees of the William A. Mazzone Revocable Trust dated June 4, 1992

Reserving Deeds: E-516 (DB 685-589, 4/15/1944), E-2851 (DB 714-157, 4/12/1945),
E-4634 (DB 747-247, 1/29/1946), E-4634C (DB 781-402, 9/19/1946) and E-7015 (DB 962-362, 12/12/1950)

Release Value: \$645,956.04 (unpaid)
Action: Release District canal and road reservations and issue Non-Use Commitment, subject to payment of \$645,956.04 for release of District real property interests

Acres: 92.66 acres, more or less
Legal Description: Portions of Tracts 2 through 6; 27 through 31; 34 through 38, and 59 through 63, Block 54, THE PALM BEACH FARMS CO. PLAT NO. 3, PB 2-45, Section 29, Township 45 South, Range 42 East

Location: 8344 Boynton Beach Blvd., Boynton Beach, Palm Beach County



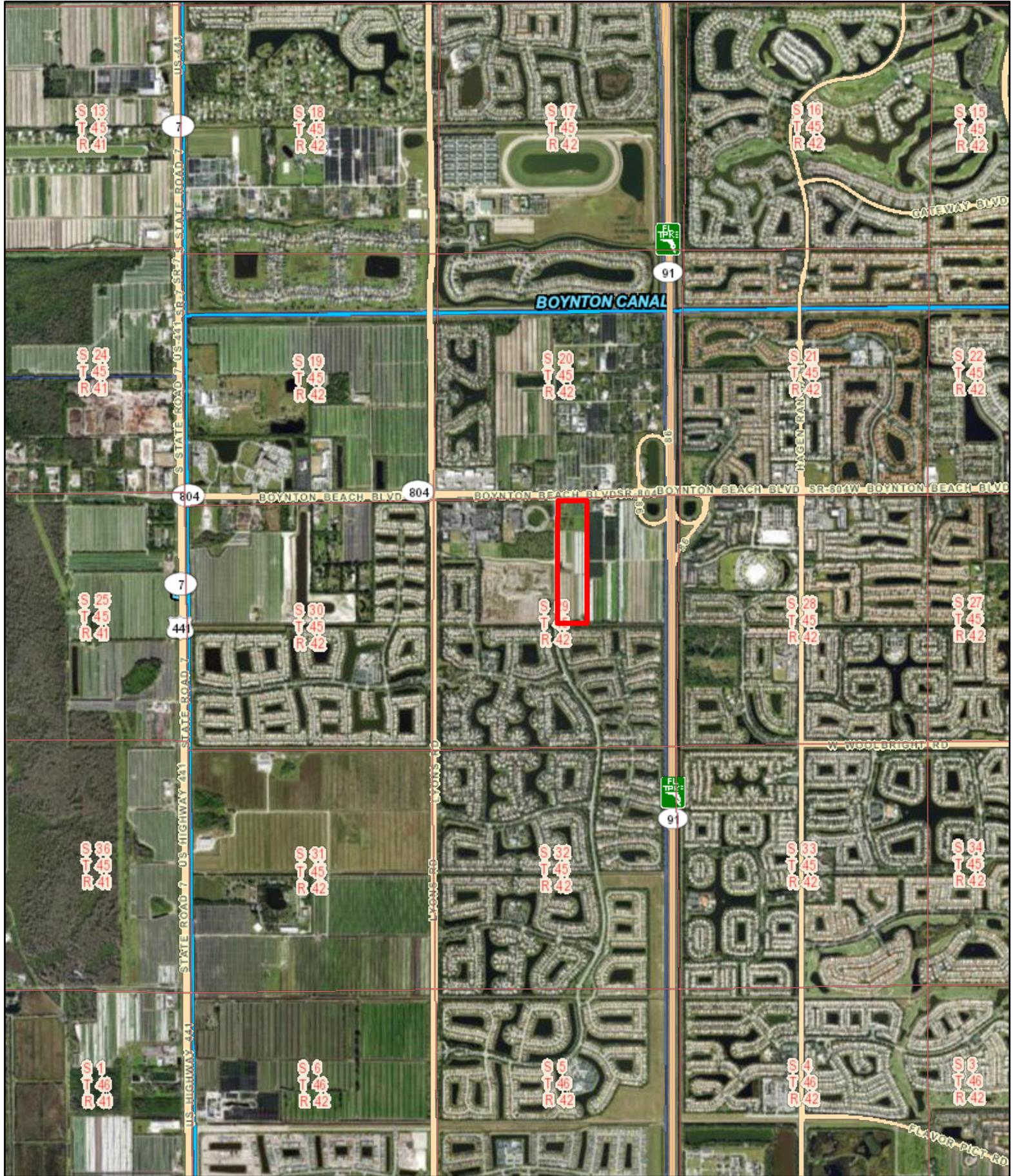
18932



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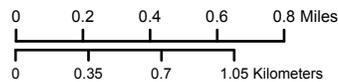
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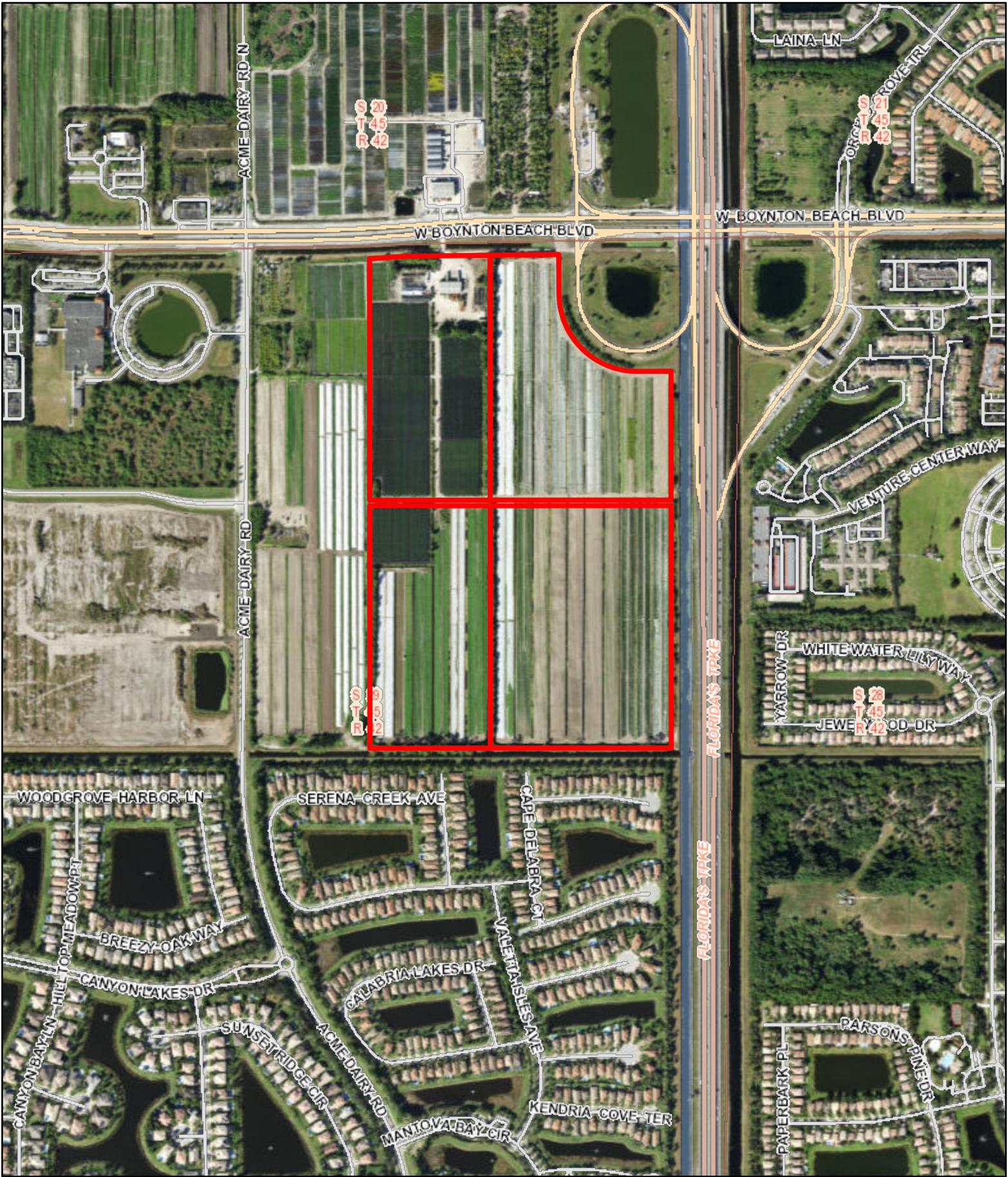
18932



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18935

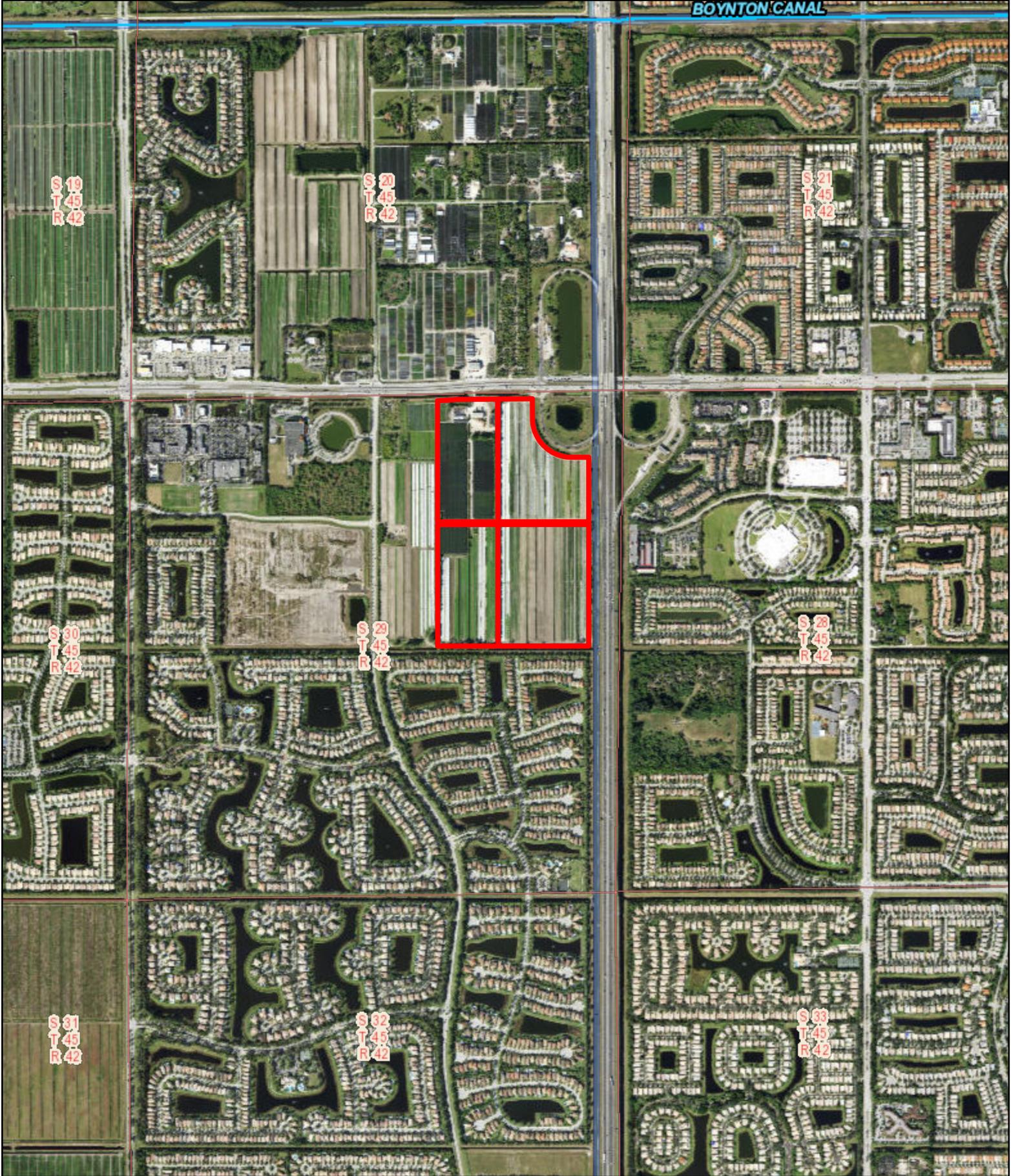


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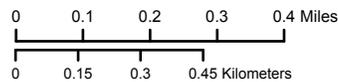
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18935



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LWDD Dedication
(0.39 AC | 17,103 SF)

LOGAN RANCH
AREA 1
7.86 AC

WMT
0.41 AC

Rec Area
0.23 AC

A 107 Beds
3 Stories | 45' HT.

UOS
0.88 AC

70 Beds
(2,000 SF
Office)
3 Stories
45' HT.

UOS
0.41 AC

WMT
0.69 AC

B 298 Beds
4 Stories | 56' HT.
2,175 SF Accessory Office

Rec Area
0.33 AC

Rec Area
0.68 AC

Rec Area
0.35 AC

UOS
0.35 AC

Rec Area
0.22 AC

WMT
1.29 AC

Development
Area
(55.44 AC)

WMT
6.80 AC

Rec Area
0.26 AC

E 155 Beds
4 Stories | 56' HT.

Rec Area
0.52 AC

WMT
0.44 AC

C 167 Beds
4 Stories | 56' HT.

WMT
0.47 AC

F 346 Beds
4 Stories | 56' HT.
550 SF Accessory Office

Rec Area
0.57 AC

D 119 Beds
3 Stories | 45' HT.

Rec Area
0.23 AC

UOS
0.33 AC

Rec Area
0.62 AC

UOS
0.39 AC

WMT
0.93 AC

LOGAN RANCH
AREA 2
13.81 AC

WMT
1.12 AC

Erickson Preserve
44.31 AC
(Passive Park, Passive
Recreation Lawn)

MEMORANDUM

TO: Governing Board Members

FROM: Rich Virgil, Field Operations Division

DATE: May 9, 2024

SUBJECT: Biscayne Bay Coastal Wetlands Pump Station S-710 - Right of Way Occupancy Permit and Waiver, Florida Power & Light Company

Agenda Item Background:

Florida Power and Light Company (Applicant) requests a Standard Right of Way Occupancy Permit Number 16989-R (ROW Permit) to install a buried parallel run for electric service and a pad-mounted transformer within the south right of way of the C-103 Canal beginning at the intersection of the L-31E Canal and extending west approximately 3,600 feet. The proposed electric service and transformer will be installed approximately 50 feet north of the south right of way line, requiring a waiver to the requirement that the installation be located within 10 feet of the right of way line.

The purpose of the project is to provide electric service to the S-710 Pump Station (S-710) which is presently under construction. S-710 is being constructed by the U.S. Army Corps of Engineers (USACE) and its purpose is to pump fresh water from the C-103 Canal into the Biscayne Bay Coastal Wetlands to the south. Initially, S-710 will be operated by the USACE. Upon completion of the Operational Testing and Monitoring Period, S-710 will be transferred to the District. The current anticipated construction completion date for S-710 is June 8, 2025, and the earliest S-710 would be transferred to the District is mid-2026.

The Applicant has demonstrated a substantial hardship that supports granting of the requested waiver. The waiver is required because placing the utilities within 10 feet of the right of way line will adversely impact adjacent existing wetlands. In addition, there are existing topographical conditions that would make an installation within 10 feet of the right of way line difficult (e.g., existing debris piles and a steep drop in elevation at the edge of the wetlands). To install the utility within 10 feet of the right of way would require considerable regrading of the edge of the right of way and permitting associated with impacts to the adjacent wetlands, resulting in additional costs to and delays of the electric service to S-710. As proposed, all work will be located underground with exception of the pad-mounted transformer. The new utility installation will be located a minimum of 42 feet from the top of bank, providing more than 40 feet, which is the minimum width along the top of bank required for District operations and maintenance activities. 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:

RIGHT OF WAY OCCUPANCY PERMIT (ROW PERMIT) REQUEST

Applicant	Florida Power and Light Company
Application Number	240206-42289
Canal	C-103
Location	Beginning at the intersection of L-31E and Extending West Approximately 3,600 Feet
Proposed Improvements to be Authorized by ROW Permit 16989-R	Buried Parallel Run for Electric Service and a Pad-Mounted Transformer
Required Waiver(s)	Waiver of Criteria to Authorize the Utility Installation to be Installed More than 10 Feet from the Right of Way Line
ROW Permit Number (proposed)	16989-R

SUMMARY

Florida Power and Light Company (Applicant) requests a Standard Right of Way Occupancy Permit Number 16989-R (ROW Permit) to install a buried parallel run for electric service and a pad-mounted transformer within the south right of way of the C-103 Canal beginning at the intersection of the L-31E Canal and extending west approximately 3,600 feet. The proposed electric service and transformer will be installed approximately 50 feet north of the south right of way line, requiring a waiver to the requirement that the installation be located within 10 feet of the right of way line.

The purpose of the project is to provide electric service to the S-710 Pump Station (S-710) which is presently under construction. S-710 is being constructed by the U.S. Army Corps of Engineers (USACE) and its purpose is to pump fresh water from the C-103 Canal into the Biscayne Bay Coastal Wetlands to the south. Initially, S-710 will be operated by the USACE during the Operational Testing and Monitoring Period (OTMP) which commences once construction is completed and has a minimum duration of 12 months. Upon completion of the OTMP, S-710 will be transferred to the District. The current anticipated construction completion date for S-710 is June 8, 2025, and the earliest S-710 would be transferred to the District is mid-2026.

DISCUSSION/JUSTIFICATION FOR WAIVERS

The Applicant has demonstrated a substantial hardship that supports granting of the requested waiver. The waiver is required because placing the utilities within 10 feet of the right of way line will adversely impact adjacent existing wetlands. In addition, there are existing topographical conditions that would make an installation within 10 feet of the right of way line difficult (e.g., existing debris piles and a steep drop in elevation at the edge of the wetlands). To install the utility within 10 feet of the right of way would require considerable regrading of the edge of the right of way and permitting associated with impacts to the adjacent wetlands, resulting in additional costs to and delays of the electric service to S-710. As proposed, all work will be located underground with exception of the pad-mounted transformer. The new utility installation will be located a minimum of 42 feet from the top of bank, providing more than 40 feet, which is the minimum width along the top of bank required for District operations and maintenance

activities. If approved, the proposed work will not interfere with or adversely impact the District's routine or emergency operations, maintenance, or future construction activities.

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 42 of the Florida Administrative Register on February 29, 2024. No public comments were received.

RECOMMENDATION

Staff recommends **approval** of issuance of Standard Right of Way Occupancy Permit 16989-R and **approval** of the associated petition for waiver to allow the installation of a buried parallel run to be more than 10-feet from the right of way line (Application No. 240206-42289).

(Fee ownership)

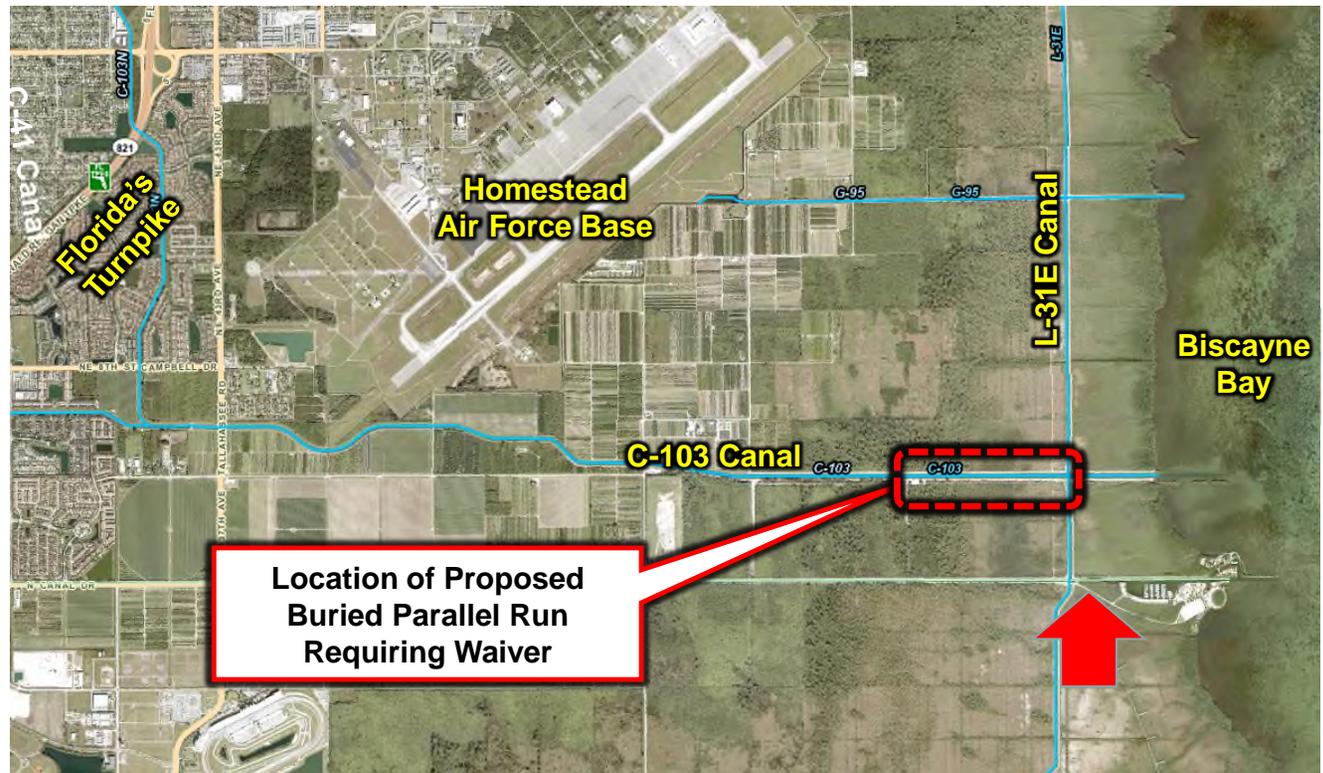
**Biscayne Bay Coastal Wetlands Pump Station S-710
Buried Parallel Run and Pad-Mounted Transformer with Waiver of Criteria
Florida Power & Light Company, Applicant
L-29 South Canal – Miami-Dade County**

Right of Way Occupancy Permit No. 16989-R

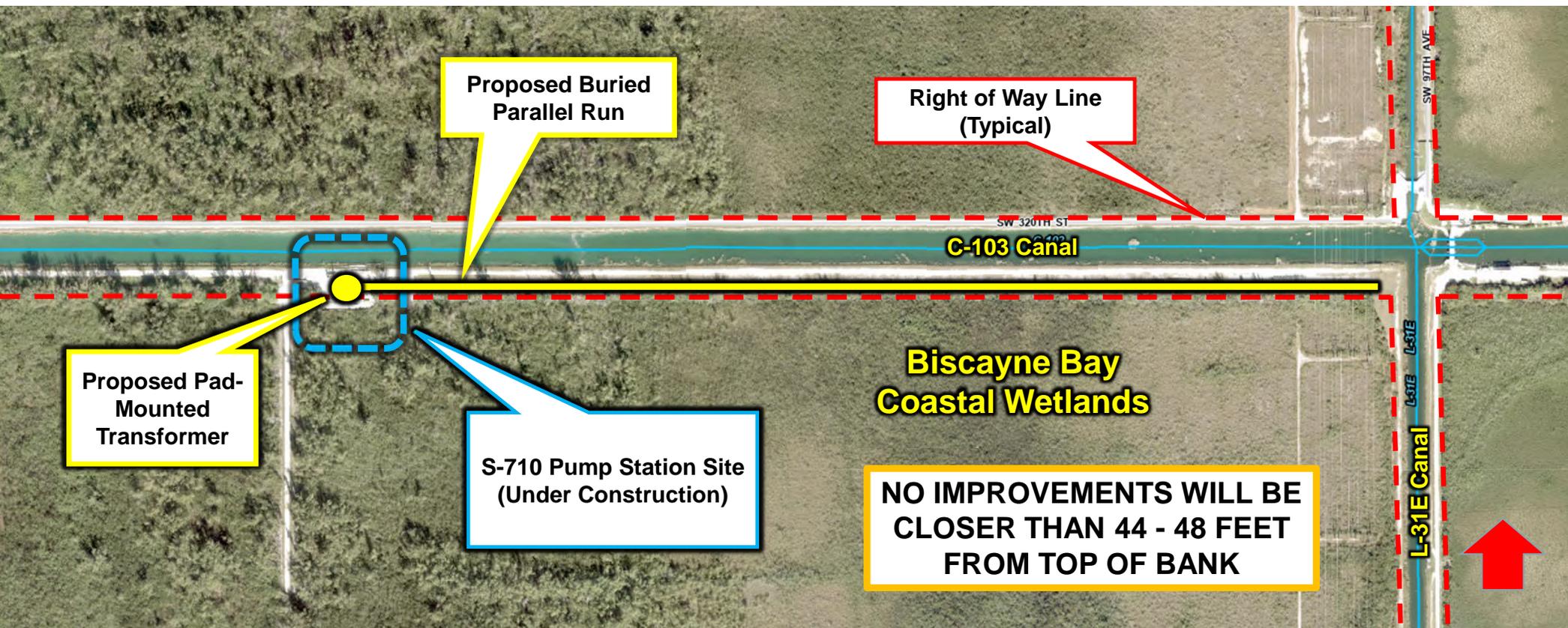
**John R. Hixenbaugh, J.D., AICP
Right of Way Section Administrator
South Florida Water Management District
Governing Board Meeting
May 9, 2024**

Application Information and Location Map

- **Applicant:** Florida Power and Light Company
- **Application Number:** 240206-42289
- **Canal:** C-103 Canal
- **Location:** South right of way of C-103 Canal at the intersection of L-31E and extending west approximately 3,600 feet.
- **Request:** Issuance of Standard Right of Way Occupancy Permit No. 16989-R to install a buried parallel run for electric service and a pad-mounted transformer with a waiver of criteria to allow the utility to be installed more than 10 feet from the right of way line.



Route for Buried Electric Service to S-710



Findings

- The applicant has demonstrated a hardship and granting of the requested waiver can be supported.
- The waiver is required because placing the utilities within 10 feet of the right of way line will adversely impact adjacent existing wetlands.
- In addition, there are existing topographical conditions that would make an installation within 10 feet of the right of way difficult (e.g., existing debris piles and a steep drop in elevation at the edge of the wetlands).
- As proposed, the new utility installation will be located a minimum of 42 feet from the top of bank and will not interfere with or adversely impact the District's routine or emergency operations, maintenance, or future construction activities.

Discussion

MEMORANDUM

TO: Governing Board Members

FROM: Rich Virgil, Field Operations Division

DATE: May 9, 2024

SUBJECT: Designation of the C-44 Stormwater Treatment Project Area as a "Stormwater Treatment Area," Martin County

Agenda Item Background:

Construction activities have been completed on the approximately 6300-acre C-44 Stormwater Treatment Project area located in Martin County (Property). The District proposes to designate the Property as a "Stormwater Treatment Area" in accordance with Public Use Rule 40E-7.521(27), Florida Administrative Code (F.A.C.). The District also proposes to authorize the Florida Fish and Wildlife Conservation Commission (FWC) to establish the Property as a Public Small Game Hunting Area and Alligator Harvest Unit for the purpose of managing public waterfowl and alligator hunting opportunities on the Property in accordance with Rule 40E-7.527, F.A.C. This will also allow for nature-based recreational opportunities on the Property and provide resource protection measures consistent with the operation of the project as a stormwater treatment area.

Designating the Property as a "Stormwater Treatment Area" will provide a regulatory framework for managing recreational use on the Property consistent with the purpose for which the Property was acquired, and consistent with the operation of the project as a stormwater treatment area. A "Stormwater Treatment Area" designation will allow the District to apply the rules codified in Chapter 40E-7 F.A.C, to manage public recreation within the Property. These rules include establishing public access points and providing for a variety of recreational activities including hunting, hiking, biking, fishing, and wildlife viewing opportunities that are compatible with operating the Property as a stormwater treatment area.

The FWC supports establishing the Property as a Public Small Game Hunting Area and as an Alligator Harvest Unit to allow public waterfowl and alligator hunting opportunities on the Property in accordance with State and Federal regulations and with approval from the South Florida Water Management District. Comments received by District staff from recreational groups and public use stakeholders indicate there is a strong public interest in opening the Property for recreation and hunting.

Following approval of this agenda item, District staff will work towards allowing highly managed nature-based recreation opportunities including Audubon led birding tours, FWC-managed hunts, and construction of a public parking trailhead, which includes a stabilized parking area with Americans with Disabilities Act (ADA) access, interpretive kiosks, shelters, benches, restrooms, and signage. Once the construction of these facilities are complete, the Property will be open for regularly scheduled public access and recreation.

Additional Item Background:

Core Mission and Strategic Priorities:

This Governing Board item supports the District's core mission and strategic goals by allowing for public recreation consistent with Section 373.1391, F.S. The Land Resources Bureau within the Field Operations Division is responsible for implementing this item and administering public recreation on District lands.

Funding Source:

This item does not require the expenditure of District funds.

Staff Contact and/or Presenter:

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

ATTACHMENTS:

[Resolution No. 2024-0504](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - 0504

A Resolution of the Governing Board of the South Florida Water Management District to designate the approximately 6300-acre C-44 Stormwater Treatment Project Area, located in Martin County, as a “Stormwater Treatment Area” as defined in Rule 40E-7.521(27), Florida Administrative Code, and authorize the Florida Fish and Wildlife Conservation Commission to establish the property as a Public Small Game Hunting Area and Alligator Harvest Unit; providing an effective date.

WHEREAS, the District owns Tracts JE100-066, JE100-067, and JE100-103, located in Martin County consisting of approximately 6300 acres known as the C-44 Stormwater Treatment Project Area and identified in Exhibit “A” which is attached and incorporated into this resolution (collectively the “Properties”); and

WHEREAS, the Governing Board desires to designate the Properties as a “Stormwater Treatment Area” as defined in Rule 40E-7.521(27), Florida Administrative Code (F.A.C.), for the purpose of managing public recreation on the Properties in accordance with the District’s Public Use Rules set forth in Chapter 40E-7, F.A.C.; and

WHEREAS, pursuant to Rule 40E-7.527, F.A.C., the Governing Board of the South Florida Water Management District may authorize public hunting activities on District lands if such activities are regulated, administered, and enforced by the Florida Fish and Wildlife Conservation Commission (FWC), in cooperation with the District; and

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to authorize the FWC to establish the Properties as a Public Small Game Hunting Area and an Alligator Harvest Unit for the purpose of managing waterfowl and alligator hunting and other recreational uses on the Properties in accordance with Rule 40E-7.527, Florida Administrative Code;

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 designates the Properties as a “Stormwater Treatment Area”, as defined in Rules 40E-7.521(27) and 40E-7.5383, F.A.C. for the purpose of managing public access and recreational use.

Section 2. The Governing Board of the South Florida Water Management District hereby authorizes the Florida Fish and Wildlife Conservation Commission to establish the Properties as a Public Small Game Hunting Area and an Alligator Harvest Unit for the purpose of managing waterfowl and alligator hunting and other recreational activities on the Properties in accordance

Resolution No. 2024 - 0504

with Rule 40E-7.527, F.A.C., subject to all applicable laws, statutes, regulations, and other requirements.

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

PASSED and **ADOPTED** this 9th day of May, 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:

Exhibit "A"



MEMORANDUM

TO: Governing Board Members

FROM: Rich Virgil, Field Operations Division

DATE: May 9, 2024

SUBJECT: Ground Application Services Contracts

Agenda Item Background:

Invasive and nuisance plants threaten the operation and maintenance of the Central and Southern Florida (C&SF) project and the health and stability of the natural ecosystems of South Florida. Plant species with the highest potential for impacting District infrastructure and District-managed natural areas are best controlled through an integrated management approach using chemical, biological, and physical methods. The primary method of control is the application of U.S. Environmental Protection Agency (EPA) approved herbicides. The District utilizes contractors (consistent with the District's herbicide reduction strategy) to apply herbicides to various types of aquatic, wetland and upland vegetation using ground application equipment and associated support vehicles as well as planting beneficial native vegetation, under the direction of District project managers. The District intends to issue three-year work order contracts with two one-year renewal options to ten contractors following negotiations. The existing ground service agreements will expire September 30, 2024. All responsive and responsible applicants that met District criteria have been selected for these services, which the following contractors may provide ground application services, as needed: Applied Aquatic Management, Inc., Aquatic Vegetation Control, Inc., Environmental Quality, Inc., Ground Level, Inc., Walker Environmental, LLC DBA Walker Exotic Tree Eradication, Native Creations, Inc., Earthbalance Corporation, Florida Best Inc. of Haines City, Woods and Wetlands, Inc., Deangelo Contracting Services LLC DBA Aquagenix.

Additional Item Background:

Core Mission and Strategic Priorities:

Vegetation management is required to maintain efficient operation of the C&SF project, ensure maximum performance capability of the STAs and additional CERP projects, improve environmental integrity of District-managed conservation lands and waters, and facilitate recreational use of lands open to the public. District project sites include the canals, levees, rights-of-way, and interim project lands. Natural areas include but are not limited to the Everglades Water Conservation Areas, Picayune Strand State Forest, the Kissimmee River floodplain, and the Kissimmee Chain of Lakes.

Funding Source:

Funding to come from Ad Valorem and dedicated funding sources to include State Appropriations, Federal, State and Local Grant funds, Lease Revenue, and Wetland and Lake Belt Mitigation funds. The total spending authority request is \$160 Million for the five-year contract, which the Fiscal Year 2023-2024 budget includes Ad Valorem and dedicated funds (State Appropriations) and the remainder is subject to Governing Board approval of future years' budgets. Florida Fish and Wildlife Conservation Commission (FWC) provides matching funds to the District melaleuca program under Cooperative Agreement No. 4600004406. U.S.

Fish and Wildlife Service provides funding for Loxahatchee National Wildlife Refuge (Water Conservation Area 1) under Cooperative Agreement Award F23AC00479. The District is also reimbursed by the FWC for aquatic plant treatments in sovereign waters of the State, under Agreement No. 4600004562.

Staff Contact and/or Presenter:

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

ATTACHMENTS:

[Resolution No. 2024-0505](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - XXXX

A Resolution of the Governing Board of the South Florida Water Management District to authorize the official ranking of firms and entering into three-year work order contracts, with two 1-year renewal options with ten firms: Applied Aquatic Management, Inc, Aquatic Vegetation Control, Inc., Environmental Quality, Inc., Ground Level, Inc., Walker Environmental, LLC DBA Walker Exotic Tree Eradication, Native Creations, Inc., Earthbalance Corporation, Florida Best Inc. of Haines City, Woods and Wetlands, Inc., Deangelo Contracting Services, LLC DBA Aquagenix, subject to successful negotiations to provide Ground Application Services in an amount not-to-exceed \$160,000,000 for all ten work order contracts, which the Fiscal Year 2023-2024 budget includes approved Ad Valorem and dedicated funds (State Appropriations, Federal, State and Local Grant funds, Lease Revenue, and Wetland and Lake Belt Mitigation funds) and the remainder is subject to Governing Board approval of future years' budgets; the District will proceed in ranked order until agreements have been successfully negotiated; providing an effective date.

Contract No.	Vendor Name
4600004967	Applied Aquatic Management, Inc.
4600004968	Aquatic Vegetation Control, Inc.
4600004969	Environmental Quality, Inc.
4600004970	Ground Level, Inc.
4600004971	Walker Environmental, LLC DBA Walker Exotic Tree Eradication
4600004972	Native Creations, Inc.
4600004973	Earthbalance Corporation
4600004974	Florida Best Inc. of Haines City
4600004975	Woods and Wetlands, Inc.
4600004976	Deangelo Contracting Services, LLC DBA Aquagenix

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 of firms and enter into three-year work order contracts, with two 1-year renewal options, with ten firms: Applied Aquatic Management, Inc, Aquatic Vegetation Control, Inc., Environmental Quality, Inc., Ground Level, Inc., Walker Environmental, LLC DBA Walker Exotic Tree Eradication, Native Creations, Inc., Earthbalance Corporation, Florida Best Inc of Haines City, Woods and Wetlands, Inc., Deangelo Contracting Services, LLC DBA Aquagenix, subject to successful negotiations to provide Ground Application Services in an amount not-to-exceed of \$160,000,000 for all ten work order contracts, for which Ad Valorem and dedicated funds (State Appropriations, Federal, State and Local Grant

funds, Lease Revenue, and Wetland and Lake Belt Mitigation funds) are subject to Governing Board approval of future years' budgets; the District will proceed in ranked order until contracts have been 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 authorizes entering into contracts with the following firms subject to successful negotiations to provide Ground Application Services for the District's management of vegetation, in an amount not-to-exceed \$160,000,000 for all ten work order contracts; if negotiations are unsuccessful with any of the firms, the District may proceed with negotiations in ranked order until contracts are successfully negotiated.

Contract No.	Vendor Name
4600004967	Applied Aquatic Management, Inc.
4600004968	Aquatic Vegetation Control, Inc.
4600004969	Environmental Quality, Inc.
4600004970	Ground Level, Inc.
4600004971	Walker Environmental, LLC DBA Walker Exotic Tree Eradication
4600004972	Native Creations, Inc.
4600004973	Earthbalance Corporation
4600004974	Florida Best Inc. of Haines City
4600004975	Woods and Wetlands, Inc.
4600004976	Deangelo Contracting Services, LLC DBA Aquagenix

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

PASSED and **ADOPTED** this 9th day of May, 2024.

MEMORANDUM

TO: Governing Board Members

FROM: Jennifer Reynolds, Ecosystem Restoration & Capital Projects

DATE: May 9, 2024

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

Agenda Item Background:

As part of Central Everglades Planning Project Everglades Agricultural Area (CEPP EAA), 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 in the amount of \$1,571,865.

The bridge is a necessary part of the CEPP EAA 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. On January 21, 2022, the District executed an amendment to the LFA (Amendment No. 1) increasing the financial assistance by \$146,188 to cover the cost of Survey and additional Design Services, bringing the total value 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 \$232,080 and is needed to fund required design changes to the aforementioned roadway/bridge design, bringing the total financial assistance under this LFA to \$1,950,133.

Governing Board approval to execute Amendment No. 2 is required as the total financial assistance attributable to Amendment 1 together with Amendment 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 Hwy 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. 2024-0506](#)

[Attachment A - Location Map](#)

[Attachment B - Revised Amendment 2](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - 0413

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 \$232,080 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 \$232,080 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.

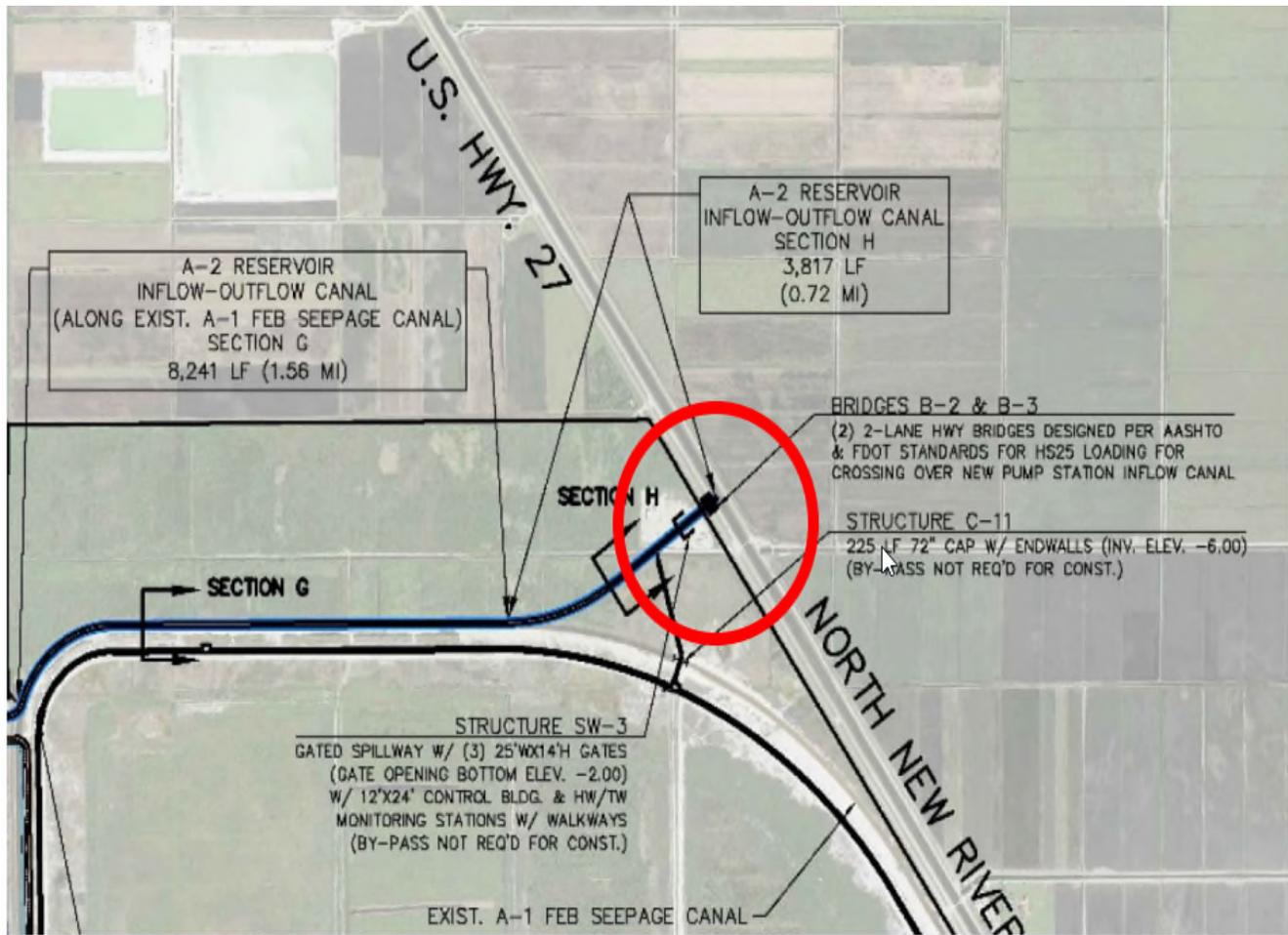
PASSED and ADOPTED this 9th day of May, 2024.

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 November 14, 2022 (Amendment No. One) which extended the contract end date/ expiration; and

WHEREAS, Financial Management Number # 448136-1-32-42 was administratively deleted from the Agreement; 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 FIFTY THOUSAND ONE HUNDRED

THIRTY-THREE DOLLARS AND NO CENTS (\$1,950,133.00), 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 THIRTY-TWO THOUSAND EIGHTY DOLLARS AND NO CENTS (\$232,080.00), 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	<i>+\$95,000.00</i>	\$98,387.00	\$232,080.00	\$1,709,698.00
	Survey Services	-	-	\$47,801.00	\$0.00	\$ 47,801.00
448136-1-32- 42 TOTAL	Geo technical Services	\$ 95,000.00	-\$95,000.00	-	\$0.00	\$ 0.00
		\$1,571,865.00	\$0.00	\$146,188.00	\$232,080.00	\$1,950,133.00

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 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: CANDIDA HEATER
TITLE: DIVISION DIRECTOR

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

ATTEST:

LEGAL REVIEW:

CLERK (SEAL)

BY: _____
OFFICE OF THE GENERAL COUNSEL

APPROVED:

APPROVED:

BY: _____
ATTORNEY

BY: _____
DISTRICT PROGRAM MGMT. ADMINISTRATOR

EXHIBIT A-1
SCOPE OF SERVICES
FPID 448136-1-52-01

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.

MEMORANDUM

TO: Governing Board Members

FROM: Lawrence Glenn, Water Resources Division

DATE: May 9, 2024

SUBJECT: New Contract with the Water School at Florida Gulf Coast University to Conduct a Study of the Health and Ecosystem of Lake Okeechobee

Agenda Item Background:

On April 4, 2024, Governor DeSantis signed Senate Bill (SB) 1638, Funding for Environmental Resource Management, which provides \$150 million in nonrecurring funds to the District for operations and maintenance responsibilities under the purview of the District. The bill requires that the District enter into a contract with the Water School at Florida Gulf Coast University (FGCU) to conduct a study of the health and ecosystem of Lake Okeechobee. The study must 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. A report must be submitted by January 1, 2025, to the Executive Office of the Governor, the President of the Senate, and the Speaker of the House of Representatives. The Florida Department of Environmental Protection (DEP) is authorized to submit budget amendments to request release of funds pursuant to Chapter 216, Florida Statutes. Release is contingent upon the submission of a spend plan and negotiated draft contract between the District and FGCU Water School.

Additional Item Background:

The District operates the C&SF Water Management System, which provides water for more than 9 million Floridians daily and protects parts of the state from potentially dangerous flooding conditions. The water management system also provides water for businesses and communities across the 16-county region, from Orlando to the Florida Keys.

The goal of the Northern Everglades and Estuaries Protection Program (NEEPP; Section 373.4595, Florida Statutes) is to restore and protect surface water resources by addressing water quality and storage in the natural system. One of the District's primary responsibilities in implementing NEEPP is to conduct research and water quality monitoring to support the Lake Okeechobee Watershed Protection Plan (WPP) and DEP's Basin Management Action Plan (BMAP) for Lake Okeechobee. The submerged aquatic vegetation (SAV) in Lake Okeechobee provides critical habitat for fish and wildlife, stabilizes shoreline sediments, and supports attached algae that help to remove nutrients from the water. The spatial extent of SAV varies in response to changing water levels and water clarity, both of which affect light penetration in the water column. Recently, SAV coverage on the lake has been minimal due to high water and turbidity associated with Hurricanes Ian and Nicole during the 2022 hurricane season, resulting in a need to recover this critical fish and wildlife habitat.

Core Mission and Strategic Priorities:

This project supports the District's core mission of ecosystem restoration.

Funding Source:

A total not-to-exceed amount of \$2,000,000.00 in dedicated funds (state grant pursuant to Section 15, Chapter 2024-58, Florida Statutes), which are budgeted in Fiscal Year 2023-2024.

Staff Contact and/or Presenter:

Lawrence Glenn, lglenn@sfwmd.gov, 561-682-6499

ATTACHMENTS:

[Resolution No. 2024-0507](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - XXXX

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into a contract with the Water School at Florida Gulf Coast University to conduct a study of the health and ecosystem of Lake Okeechobee; in an amount not to exceed \$2,000,000, for which dedicated funds (state grant pursuant to Section 15, Chapter 2024-58, Laws of Florida) are budgeted in Fiscal Year 2023-2024; providing an effective date. (Contract No. 4600004962)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to authorize entering into a contract with the Water School at Florida Gulf Coast University to conduct a study of the health and ecosystem of Lake Okeechobee, in an amount not-to-exceed \$2,000,000, for which dedicated funds (state grant pursuant to Section 15, Chapter 2024-58, Florida Statutes) are budgeted in Fiscal Year 2023-2024;

WHEREAS, the study must 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;

WHEREAS, a report must be submitted by January 1, 2025, to the Executive Office of the Governor, the President of the Senate, and the Speaker of the House of Representatives; and

WHEREAS, the Florida Department of Environmental Protection is authorized to submit budget amendments to request release of funds pursuant to chapter 216, Florida Statutes, and the release is contingent upon the submission of a spend plan and negotiated draft contract between the South Florida Water Management District and the Florida Gulf Coast University Water School.

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 District staff to enter into a contract with the Water to conduct a study of the health and ecosystem of Lake Okeechobee, for an amount not to exceed \$2,000,000.

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

PASSED and ADOPTED this 9th day of May, 2024.

MEMORANDUM

TO: Governing Board Members

FROM: Lawrence Glenn, Water Resources Division

DATE: May 9, 2024

SUBJECT: University of South Florida Contract for Machine Learning

Agenda Item Background:

Staff seeks Governing Board approval to enter a 5-year contract with University of South Florida to develop modeling tools, including machine learning, to assist restoration of oyster habitat in the Caloosahatchee River Estuary (CRE) using a portion of a recently awarded EPA Grant, SF - 02D42823. The models will be used to quantify and forecast changes in oyster larval transport, estuarine habitat area, and production with variations in climate, inflow, circulation, and water management using machine learning, hydrodynamic and ecological modeling, to provide ecologically meaningful guidance to water management operations, inform hydrologic and habitat restoration targets, and provide prioritization tools for natural resource practitioners enhancing and restoring oyster reef habitat in the CRE. As part of the EPA grant project for the development of the modeling tools, this study has two tasks: (1) develop a Self-Organizing Map (SOM) based empirical model of oyster restoration and water management for CRE and (2) develop an oyster larvae trajectory nowcast/forecast system for the CRE based on the West Florida Coastal Ocean Model system.

Additional Item Background:

In coordination with the District, the USF Ocean Circulation Lab will apply the SOM to analyze the historical oyster and environmental data, characterize oyster population patterns and their changes associated with environmental conditions and develop an empirical model of oyster restoration and water management for CRE. This study will also simulate oyster larvae transport in response to different scenarios of freshwater input because of water management practices, aiming at developing an oyster larvae trajectory nowcast/forecast system for CRE.

Core Mission and Strategic Priorities:

Oyster reef habitats have been identified as essential habitat for resident and transient organisms as well as provide water quality improvement and shoreline erosion protection protecting coastal communities from storm damage. These organisms exist within a specific salinity range that is useful to water managers for managing freshwater flows to the estuary and determining the health of the ecosystem. This work will help restoration ecologists locate ideal areas for new oyster reef creation and assist scientist with understanding impacts of freshwater input to oyster recruitment in the CRE.

Funding Source:

U.S. Environment Protection Agency Grant SF - 02D42823

Staff Contact and/or Presenter:

Lawrence Glenn, lglen@sfwmd.gov, 561-308-2791

ATTACHMENTS:

Resolution No. 2024-0508

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - 05XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into a five-year contract with the University of South Florida to develop a Self-Organizing Map (SOM) based empirical model of oyster restoration and water management for the Caloosahatchee River Estuary (CRE) and to develop an oyster larvae trajectory nowcast/forecast system for the CRE based on the West Florida Coastal Ocean Model (WFCOM), in the amount of \$315,384, for which dedicated funds (Federal Grant) are budgeted in Fiscal Year 2023-2024; providing an effective date. (Contract No. 4600004982)

WHEREAS, oysters in the Caloosahatchee River Estuary provide important environmental benefits such as benthic habitat, water quality improvement, and shoreline erosion protection from storm damage and are the focus of restoration efforts; and

WHEREAS, oysters exist within a specific salinity envelop that is used by water managers to make freshwater inflow decisions and assess the impact of freshwater inflow on estuary health; and

WHEREAS, U.S. Environmental Protection Agency awarded the District \$870,000.00 in grant funds; and

WHEREAS, the District will sign a five-year contract with University of South Florida in the amount of \$315,384.00 to develop machine learning models assessing oyster larval trajectories to determine freshwater inflow impact on oyster recruitment and identify oyster reef restoration locations.

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

Section 1. The Governing Board of the SFWMD hereby authorizes the Executive Director to enter a five-year contract with the University of South Florida in the amount of \$315,384.00 to develop machine learning models assessing oyster larval trajectories to determine freshwater inflow impact on oyster recruitment and identify oyster reef restoration locations. (Contract No. 4600004982)

PASSED and ADOPTED this 9th day of May, 2024.

MEMORANDUM

TO: Governing Board Members

FROM: Lawrence Glenn, Water Resources Division

DATE: May 9, 2024

SUBJECT: Water Reuse Week, May 19-25, 2024

Agenda Item Background:

May typically marks the end of the dry season and can be a time when water needs are most acute. At this time, it is important to increase awareness regarding the re-use of our precious water resources. Over the last two decades, water reuse in the District has increased 60 percent to approximately 310 million gallons per day and has become integral to South Florida's water supply. WateReuse Florida, the state section of the WateReuse Association, has designated May 19-25, 2024, as Water Reuse Week in the State of Florida.

With this resolution, the South Florida Water Management District will join WateReuse Florida, other water management districts, local governments, and other organizations in supporting water reuse with 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 through diversification of water supply sources by developing alternative sources including the use of reclaimed water and water reuse.

Staff Contact and/or Presenter:

Robert Wanvestraut, rowanves@sfwmd.gov, 561-682-6615

ATTACHMENTS:

[Resolution No. 2024-0509](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Resolution No. 2024 - XXXX

A Resolution of the Governing Board of the South Florida Water Management District proclaiming May 19-25, 2024 as Water Reuse Week; providing an effective date.

WHEREAS, safe, clean, and sustainable water resources are essential to Florida's environment, economy, citizens, and visitors, and

WHEREAS, water reuse provides a means for conserving and augmenting Florida's precious water resources, and

WHEREAS, Florida has established the encouragement and promotion of water reuse as state objectives in Chapters 373 and 403, Florida Statutes, and

WHEREAS, Florida has become a national leader in water reuse, reusing nearly 900 million gallons per day (mgd) of reclaimed water to conserve freshwater supplies and recharge our freshwater resources, and

WHEREAS, the South Florida Water Management District (District) implements a cooperative funding program to provide financial assistance to entities developing alternative water supplies including water reuse; has funded studies and pilot programs to promote innovative treatment technologies; has engaged in innovative uses and application of reclaimed water; and promotes and encourages efficient and effective use of reclaimed water, and

WHEREAS, there are over 100 reuse facilities within the District reusing approximately 310 mgd of reclaimed water for a beneficial purpose including irrigation of golf courses, residential lots and other green space, ground water recharge, environmental enhancement, and industrial purposes, and

WHEREAS, there is approximately 625 mgd of potentially reusable water that is currently being disposed, primarily through ocean discharge or down deep injection wells, within the boundaries of the District, and

WHEREAS, May is typically a dry month when water demands are high, and is a good time to educate residents about how they can help save Florida's precious water resources through water reuse; and

WHEREAS, the District is joining Water Reuse Florida, other water management districts, local governments, and other organizations in designating May 19-25, 2024, as Water Reuse Week.

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 proclaims May 19-25, 2024 as **WATER REUSE WEEK.**

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 takes effect immediately upon adoption.

PASSED and **ADOPTED** this 9th day of May, 2024.

MEMORANDUM

TO: Governing Board Members

FROM: Akintunde Owosina, P.E., Information Technology

DATE: May 9, 2024

SUBJECT: Datalogger Recorder Maintenance Services at Monitoring Sites in the Southwest Region of the District

Agenda Item Background:

Supervisory Control and Data Acquisition (SCADA) Telemetry Service (STS) requires contractual field services to maintain approximately 126 sites for a period of five years. These sites are located within the Southwest Region of the District (Hendry, Collier, Lee, Charlotte and Glades counties) and provide continuous monitoring of surface and ground water levels, gate and pump status, and water quality, hydrogeological, and meteorological parameters.

STS does not have the necessary manpower to perform the required maintenance, data collection and verification, and repairs at these sites, activities critical to ensuring the accuracy of the hydrologic records, and continuous, uninterrupted data flow, vital to support the District's mission of flood control, environmental monitoring and assessment, and to meet mandated monitoring and reporting requirements. The contractual support sought is for field services only, the District provides all electronic parts and equipment.

This request is to enter into a five-year contract with Hydrologic Data Collection LLC., the lowest responsive and responsible bidder, for Southwest Area Datalogger Maintenance Services, in an amount not to exceed \$900,000, for which Ad Valorem funds in the amount of \$37,535 are budgeted in Fiscal Year 2023-2024 and the remainder is subject to Governing Board approval of future years' budgets. This item was competitively bid through a sealed bid process (RFB 6000001496). The bid opening date was March 5, 2024.

Staff Contact and/or Presenter:

Garnett Ritchie, gritchir@sfwmd.gov, 561-756-2400 x4616

ATTACHMENTS:

[Resolution No. 2024-0510](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - 05XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into a five-year contract with Hydrologic Data Collection LLC., the lowest responsive and responsible bidder, for Datalogger Recorder Maintenance Services at sites which provide continuous monitoring of surface and ground water levels, water quality, hydrogeological and meteorological parameters, and gate and pump status in the southwest region of the District in an amount not to exceed \$900,000, for which Ad Valorem funds in the amount of \$37,535 are budgeted in Fiscal Year 2023-2024, and the remainder is subject to Governing Board approval of future year budgets; providing an effective date. (Contract No. 4600004978)

WHEREAS, These services were competitively bid through a sealed bid process (RFB 6000001496); and

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to enter into a five-year contract with Hydrologic Data Collection LLC., for Datalogger Recorder Maintenance Services at sites which provide continuous monitoring of surface and ground water levels, water quality, hydrogeological and meteorological parameters, and gate and pump status in the southwest region of the District, in an amount not to exceed \$900,000.

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 Hydrogeologic Data Collection LLC., for Datalogger Recorder Maintenance Services at sites which provide continuous monitoring of surface and ground water levels, water quality, hydrogeological and meteorological parameters, and gate and pump status in the southwest region of the District, in the amount of \$900,000. (Contract No. 4600004978)

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

PASSED and ADOPTED this 9th day of May, 2024.

MEMORANDUM

TO: Governing Board Members

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

DATE: May 9, 2024

SUBJECT: STA-1E Central Flow-Way Cell 3 and Cell 4N Project, Palm Beach County

Agenda Item Background:

As part of the Stormwater Treatment Area (STA) Refurbishments Program, the STA-1E Central Flow-way Cell 3 and 4N Project, located in Palm Beach County, is needed to correct issues in these two cells that have developed over the past 15-20 years of use. During standard operations, the spreader canals along the north edge of the treatment cells distribute water internally to sheet flow north-to-south across the treatment cells and into to the collector canals at the south edge. Over time, sedimentation, short-circuiting and elevated floating vegetation have disrupted the flow through the cells, making them less efficient. This Project will regrade the cells to a uniform elevation, provide preventative measures near the inflow structures and improve the treatment efficiency within these cells. The resulting work will improve water quality discharges to the Everglades Protection Area by helping to balance flows and loads to meet the Water Quality Based Effluent Limit (WQBEL) that would achieve compliance with the State of Florida's numeric phosphorous criterion in the Everglades Protection Area.

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 May 1, 2024.

Additional Item Background:

Core Mission and Strategic Priorities:

The STA-1E Central Flow-Way Cell 3 and Cell 4N Project supports the District's core missions of flood control, water quality, and ecosystem restoration.

Staff Contact and/or Presenter:

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

ATTACHMENTS:

[Resolution No. 2024-0511](#)

[Backup](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - XXXX

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into a 705-day contract with Phillips & Jordan, Inc., the lowest responsive and responsible bidder, for the STA-1E Central Flow-way Cell 3 and 4N Project, in the amount of \$29,731,000, for which Ad Valorem funds in the amount of \$750,000 are budgeted in Fiscal Year 2023-2024, and authorize payment of up to an additional \$3,010,000 Incentive Payment to Phillips & Jordan, Inc. if Substantial Completion is achieved on or before Notice to Proceed plus 428 days, and the remainder is subject to Governing Board approval of future years budgets; providing an effective date. (Contract No. 4600004984)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to authorize entering into a contract with Phillips & Jordan, Inc., the lowest responsive and responsible bidder, for the STA-1E Central Flow-way Cell 3 and 4N Project, in the amount of \$29,731,000; and, to authorize payment of up to an additional \$3,010,000 Incentive Payment to Phillips & Jordan, Inc. if Substantial Completion is achieved on or before Notice to Proceed plus 428 days.

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

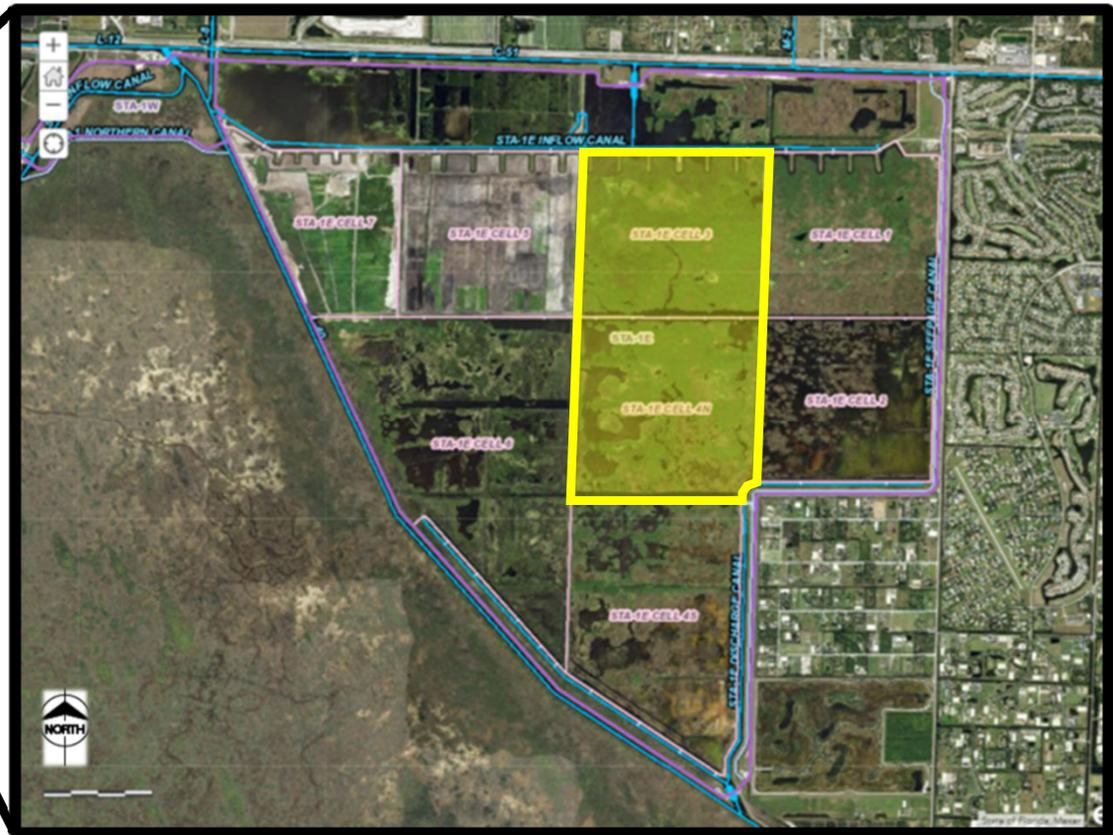
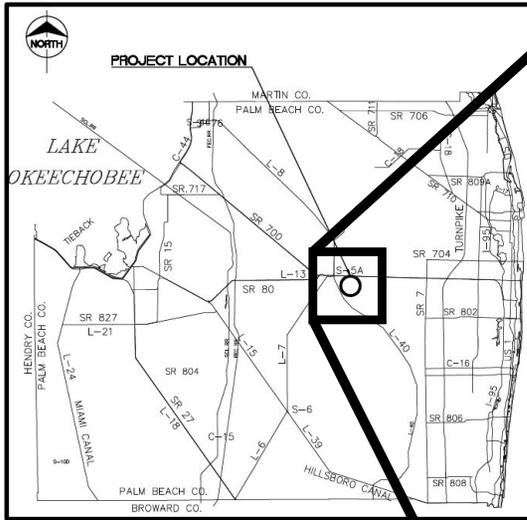
Section 1. The Governing Board of the South Florida Water Management District hereby authorizes entering into a 705-day contract with Phillips & Jordan, Inc., the lowest responsive and responsible bidder, for the STA-1E Central Flow-way Cell 3 and 4N Project, in the amount of \$29,731,000, for which Ad Valorem funds in the amount of \$750,000 are budgeted in Fiscal Year 2023-2024, and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004984)

Section 2. The Governing Board of the South Florida Water Management District hereby authorizes the payment of up to an additional \$3,010,000 Incentive Payment to Phillips & Jordan, Inc. if Substantial Completion is achieved on or before Notice to Proceed plus 428 days.

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

PASSED and ADOPTED this 9th day of May, 2024.

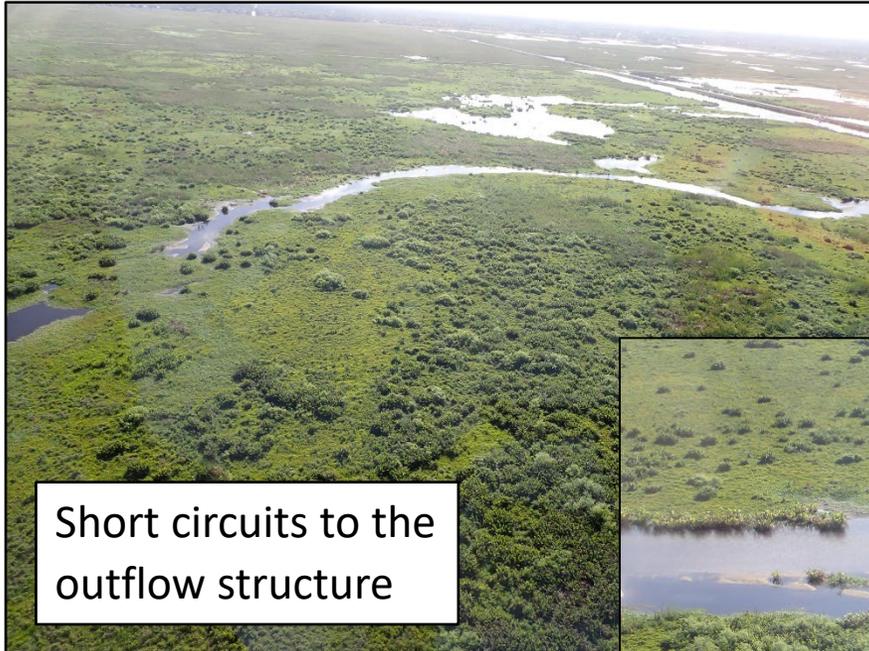
Location Map



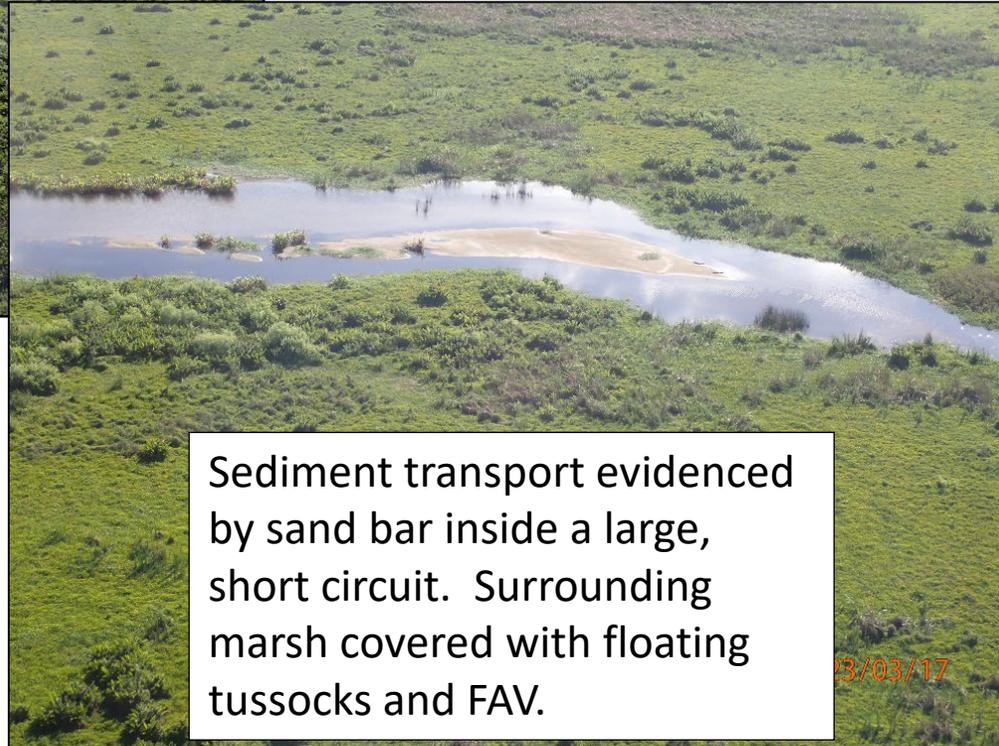
Background

- USACE designed and built STA-1E and transferred to District in 2005.
- STA-1E is a Multi-purpose facility that provides flood control by stormwater retention, stormwater treatment through plant uptake of phosphorus (TP) and re-establishes WCA-1 hydro-periods.
- This project supports the Restoration Strategies program which was implemented to improve the hydraulics, vegetation conditions, and treatment performance of the existing STAs and is being completed as a voluntary, proactive measure to ensure the facilities are better poised to achieve compliance with the WQBEL.
- This project addresses the STA-1 East Central Flow-way, Cell 3 and Cell 4N, to correct issues that have developed over the past 15-20 years of use which include uneven topography, short circuits, and elevated floating vegetation.
- Short circuits and scoured trails increase sediment transport (erosion), limit phosphorus uptake, and result in elevated outflow TP concentrations.
- Increased volumes of floating tussocks and nuisance vegetation has overtaken the flow-way, making it difficult to repair by conventional means (i.e., herbicide, new plantings, etc.).

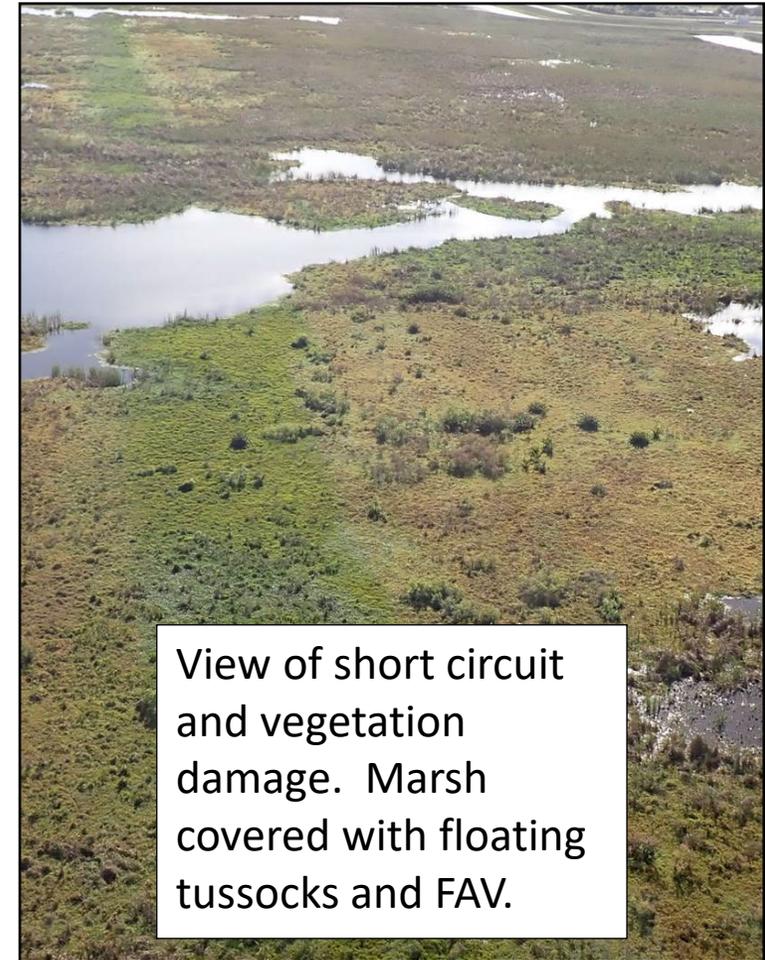
Background



Short circuits to the outflow structure



Sediment transport evidenced by sand bar inside a large, short circuit. Surrounding marsh covered with floating tussocks and FAV.



View of short circuit and vegetation damage. Marsh covered with floating tussocks and FAV.

MEMORANDUM

TO: Governing Board Members

FROM: Stacey Payseno, Water Resources Division

DATE: May 9, 2024

SUBJECT: Alternative Water Supply Funding Program

Agenda Item Background:

This item includes a presentation of the Fiscal Year 2024-2025 Alternative Water Supply Funding Program (Program) which includes a recap and the final project list for the Florida Department of Environmental Protection (DEP) submittal by May 31, 2024. The Program's purpose is to provide financial incentives through matching grants for local alternative water supply (AWS) and water conservation projects. Water resource and water supply development projects help to protect our water resources and ensure that the needs of existing and future users are met.

Additional Item Background:

Staff is seeking Governing Board authorization for the upcoming Fiscal Year 2024-2025 Program to:

- A. Approve and submit the final project list in Exhibit A to the DEP for funding consideration for the DEP Alternative Water Supply Grant Program in dedicated state appropriations from the 2024 State General Appropriations Act.
- B. Authorization to enter into agreement(s) with cooperating entities for alternative water supply and water conservation projects that receive state appropriations from the 2024 General Appropriations Act.

The State has recognized the importance of AWS development and over the last five fiscal year budgets have included a combined \$230 million in statewide cost-share funding to support development of alternative water supply projects. The DEP administers this funding and relies on a priority list of projects submitted by each of the State's water management districts for consideration. The DEP issued an Alternative Water Supply Funding Guidance document in August 2022 that requests the water management districts provide a list of projects to them for funding consideration by May 2024, in anticipation of Alternative Water Supply funding being approved in the State's Fiscal Year 2024-2025 budget. Currently, the State's Fiscal Year 2024-2025 budget has not been finalized but the tentative amount is \$55 million in statewide funding.

To maintain eligibility, Lower West Coast local governments shall, pursuant to sections 163.3177 and 163.3184, Florida Statutes, adopt a current Water Supply Facilities Work Plan within 18 months of the District's adoption of the Lower West Coast Water Supply Plan. The Lower West Coast Water Supply Plan was adopted on December 19, 2022 and the Water Supply Facilities Work Plan must be prepared and adopted by June 19, 2024.

For Fiscal Year 2024-2025, a total of 30 alternative water supply and water conservation

applications were received by the District. Staff reviewed the applications based on Governing Board guidelines and potential DEP funding considerations including: regional benefits, shovel readiness, resource protection, and complementary benefits such as flood protection and recreation. All applicants must be in permit compliance and local governments applicants must have an adopted irrigation ordinance and a current Water Supply Facilities Work Plan adopted per statutory requirements to be eligible for funding consideration. The District's final project list to be submitted for funding consideration has total capital/project costs of \$575.2 million and eligible phase/implementation costs over \$97.4 million with a total funding request of \$39.9 million.

Core Mission and Strategic Priorities:

This program supports the District's water supply core mission, and alternative water supply and water conservation strategic priorities.

Funding Source:

Fiscal Year 2024-2025: Anticipated recurring state appropriation as outlined in Executive Order 23-06 (Achieving Even More Now for Florida's Environment) for alternate water supply and water conservation projects in the State's Fiscal Year 2024-2025 budget. If there are no state appropriations for alternative water supply funding, there will be no required match on behalf of the District.

Staff Contact and/or Presenter:

Stacey Payseno, spayseno@sfwmd.gov, 561-682-2577

ATTACHMENTS:

[A. Resolution No. 2024-0512](#)

[B. Resolution No. 2024-0513](#)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - 0512

A Resolution of the Governing Board of the South Florida Water Management District to approve and authorize submittal of the final project list to the Florida Department of Environmental Protection for the purpose of funding consideration for projects listed in Exhibit A for the Florida Department of Environmental Protection Alternative Water Supply Grant Program in dedicated state appropriations from the 2024 State General Appropriations Act; providing an effective date.

WHEREAS, the Governor and Legislature have recognized the importance of alternative water supply and the protection of Florida's natural systems with a statewide investment during the 2024 legislative session; and

WHEREAS, water resource and water supply development projects help to protect our water resources and ensure that the needs of existing and future users are met; and

WHEREAS, the District may receive one-time funding from the 2024 State General Appropriations Act, and

WHEREAS, District staff have determined that all applicable requirements set forth by the Florida Department of Environmental Protection have been met and complied with in order to accept potential funds.

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

Section 1. The Governing Board of the South Florida Water Management District hereby determines that it is necessary, appropriate, and in the public interest to approve and authorize submittal of the final project list in Exhibit A to the Florida Department of Environmental Protection for funding consideration from potential dedicated state appropriations.

Section 2. To maintain eligibility, Lower West Coast local governments shall, pursuant to sections 163.3177 and 163.3184, Florida Statutes, adopt a current Water Supply Facilities Work Plan no later than June 19, 2024.

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

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Resolution No. 2024 - 0512

PASSED and **ADOPTED** this 9th day of May, 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:

Exhibit A

Cooperating Entity	Project Name	County	Project Type	Phase Quantity of Water Made Available	Total Quantity of Water Made Available	Total Capital/Project Costs	Phase Construction or Total Project Cost (WC)	DEP AWS Funding Request
Cape Coral, City of	North 1 Reclaimed Water Main Extension (~7.5 miles), Phase 1B ¹	Lee	Reclaimed	0.59 [a]	2.664 [a]	\$6,333,939	\$6,333,939	\$2,533,500
Cape Coral, City of	North 1 Reclaimed Water Main Extension (~8.5 miles), Phase 1C	Lee	Reclaimed	0.53 [a]	2.664 [a]	\$3,977,414	\$3,977,414	\$1,590,900
Florida Governmental Utility Authority	2 mgd new RO WTP Phase 1: Construct two (2) UFA Wells	Lee	Brackish	2.00	2.00	\$60,000,000	\$3,000,000	\$1,250,000
Toho Water Authority	Residential Weather-based Irrigation Controller Rebate	Osceola	Irrigation	0.10	0.10	\$116,000	\$116,000	\$58,000
Miami-Dade Water & Sewer Department	Landscape Irrigation Rebate Project FY2024-2025	Miami-Dade	Irrigation	0.03	0.03	\$52,450	\$52,450	\$26,225
Toho Water Authority	HET Rebate Program	Osceola	Indoor Plumbing	0.03	0.03	\$120,000	\$120,000	\$60,000
EastGroup Properties, LP	Commercial Building Irrigation Controller Retrofit Program	Orange	Irrigation	0.06	0.06	\$195,930	\$195,930	\$97,965
Bonita Springs Utilities, Inc.	Residential Irrigation Controller Rebate Program	Lee	Irrigation	0.02	0.02	\$15,750	\$15,750	\$7,875
West Palm Beach, City of	Community Water Conservation Strategies Phase XI – HET Rebate Program	Palm Beach	Indoor Plumbing	0.01	0.01	\$37,500	\$37,500	\$18,750
Bonita Springs Utilities, Inc.	HET Rebate Program	Lee	Indoor Plumbing	0.00	0.00	\$15,080	\$15,080	\$7,540
Orange County Utilities	Soil Amendment Rebate Program	Orange	Irrigation	0.01	0.01	\$77,000	\$77,000	\$38,500
Toho Water Authority	Cypress Lake Wellfield: Construct two (2) Brackish FAS Wells and Raw Water Piping	Osceola	Brackish	0.00	30.00 [b]	\$261,249,901	\$18,527,000	\$9,263,500
Pompano Beach Utilities, City of	Lighthouse Point Phase IV Reclaimed Water Extension bordering the Intracoastal Waterway	Broward	Reclaimed	0.023 [a]	0.023 [a]	\$2,139,570	\$1,903,733	\$761,400

Exhibit A

Cooperating Entity	Project Name	County	Project Type	Phase Quantity of Water Made Available	Total Quantity of Water Made Available	Total Capital/Project Costs	Phase Construction or Total Project Cost (WC)	DEP AWS Funding Request
Broward County Board of County Commissioners	Broward-Pompano Beach Interconnect Pipeline for Water Reuse	Broward	Reclaimed	7.50 [a]	7.50 [a]	\$25,000,000	\$18,750,000	\$6,250,000
Fort Myers, City of	Reclaimed Water Extension to Pelican Preserve	Lee	Reclaimed	0.929 [a]	0.929 [a]	\$1,500,000	\$1,500,000	\$600,000
Palm Beach County Water Utilities Department	Green Cay Wetlands 2 mgd Indirect Potable Reuse Project - Water Purification Treatment Plant, 2.3 miles Purified Water Pipeline, and 4 Surficial Aquifer Wells, Phase 2b	Palm Beach	Reclaimed	2.00 [b]	2.00 [b]	\$99,220,507	\$9,481,034	\$3,792,400
Indiantown, Village of	1.5 mgd RO WTP Phase 1: FAS Test/Production Well	Martin	Brackish	1.20	1.20	\$2,650,000	\$2,500,000	\$1,875,000
Martin County Utilities	North Jensen RO WTP: Construct one (1) UFA Well and Raw Water Piping	Martin	Brackish	2.00 [b]	2.00 [b]	\$6,095,000	\$6,095,000	\$3,047,500
Cape Coral, City of	North RO WTP: Construct five (5) UFA Wells	Lee	Brackish	3.00 [b]	3.00 [b]	\$11,900,000	\$9,900,000	\$4,950,000
Florida Keys Aqueduct Authority	Crawl Key RO WTP Phase 1: Site work, Injection Well, and 5 mg Storage Tank	Monroe	Brackish	0.00	4.00	\$70,000,000	\$10,000,000	\$5,000,000
Fort Myers, City of	1.0 mgd RO WTP Expansion: Install two (2) RO trains	Lee	Brackish	1.00	1.00	\$2,350,000	\$2,350,000	\$1,175,000
Toho Water Authority	Toho Reservoir Reuse Supplemental Water Main Extension from NeoVation Way and Neptune Road to Macy Island Road and Southbury Drive	Osceola	Stormwater	6.00 [a]	6.00 [a]	\$10,180,000	\$9,560,000	\$3,430,000
St Lucie County Utilities	2.0 mgd new Central County RO WTP Phase 1: RO Site Clearing, Construct four (4) UFA Wells, Raw Water Pipeline, Chemical Buildings	St. Lucie	Brackish	2.00	2.00	\$38,000,000	\$17,000,000	\$5,000,000
Totals for Resolution A and B – eligible for state appropriation				6.45	10.45	\$601,226,041	\$121,507,830	\$50,834,055

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Cooperating Entity	Project Name	County	Project Type	Phase Quantity of Water Made Available	Total Quantity of Water Made Available	Total Capital/Project Costs	Phase Construction or Total Project Cost (WC)	DEP AWS Funding Request
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Fort Pierce Utilities Authority	8 mgd Regional Water Reclamation Facility, Phase 2b	St. Lucie	Reclaimed	8.00 [b]	8.00 [b]	\$196,000,000	\$5,381,000	\$0
Port St. Lucie, City of	Rangeline New 10 mgd RO WTP Phase 1a: Construct one (1) UFA Well	St. Lucie	Brackish	5.33 [b]	10.00 [b]	\$170,000,000	\$5,600,000	\$0
Estero, Village of	Estero Parkway Reclaimed Water Main Extension Phase I outside Rookery Pointe HOA	Lee	Reclaimed	0.21 [a]	0.21 [a]	\$1,759,411	\$1,671,250	\$0
Rookery Pointe Homeowners Association	Estero Parkway Reclaimed Water Main Extension Phase II within Rookery Pointe HOA	Lee	Reclaimed	0.21 [a]	0.21 [a]	\$542,870	\$542,870	\$0
Miramar, City of	West RO WTP 2.5 mgd Expansion Phase 1a: RO membranes and associated upgrades	Broward	Brackish	2.50 [b]	2.50 [b]	\$7,925,000	\$6,794,500	\$0
Bonita Springs Utilities, Inc.	Deep Injection Well #2 for concentrate/effluent disposal from the RO WTP and East WRF	Lee	Brackish	0.00	0.00	\$25,700,000	\$14,000,000	\$0
Totals for projects not eligible for state appropriation				0.00	0.00	\$456,927,281	\$41,560,594	\$0

[a] Distribution/use type project; water made available accounted for in treatment plant capacity

[b] Phased project, water accounted for previously or in future year upon completion of project

HET – High Efficiency Toilet; FAS – Floridan aquifer system; RO – Reverse Osmosis; WTP = Water Treatment Plant; HOA = Homeowners Association; UFA – Upper Floridan aquifer

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - 0513

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into agreement(s) with cooperating entities for alternative water supply and water conservation projects with dedicated state appropriations from the 2024 General Appropriations and delegating authority to the Executive Director to execute the agreements for identified projects listed in Exhibit A that receive state appropriations; providing an effective date.

WHEREAS, the Governor and Legislature have recognized the importance of alternative water supply and the protection of Florida's natural systems with a statewide investment during the 2024 legislative session; and

WHEREAS, water resource and water supply development projects help to protect our water resources and ensure that the needs of existing and future users are met.

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

Section 1. The Governing Board of the South Florida Water Management District hereby determines that it is necessary, appropriate, and in the public interest to approve the final project list in Exhibit A and authorize the Executive Director or his designee to execute agreements with cooperating entities for alternative water supply and water conservation projects that receive state appropriations.

Section 2. To maintain eligibility, Lower West Coast local governments shall, pursuant to sections 163.3177 and 163.3184, Florida Statutes, adopt a current Water Supply Facilities Work Plan no later than June 19, 2024.

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

This space intentionally left blank.

Resolution No. 2024 - 0513

PASSED and **ADOPTED** this 9th day of May, 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:

Exhibit A

Cooperating Entity	Project Name	County	Project Type	Phase Quantity of Water Made Available	Total Quantity of Water Made Available	Total Capital/ Project Costs	Phase Construction or Total Project Cost (WC)	DEP AWS Funding Request
Cape Coral, City of	North 1 Reclaimed Water Main Extension (~7.5 miles), Phase 1B ¹	Lee	Reclaimed	0.59 [a]	2.664 [a]	\$6,333,939	\$6,333,939	\$2,533,500
Cape Coral, City of	North 1 Reclaimed Water Main Extension (~8.5 miles), Phase 1C	Lee	Reclaimed	0.53 [a]	2.664 [a]	\$3,977,414	\$3,977,414	\$1,590,900
Florida Governmental Utility Authority	2 mgd new RO WTP Phase 1: Construct two (2) UFA Wells	Lee	Brackish	2.00	2.00	\$60,000,000	\$3,000,000	\$1,250,000
Toho Water Authority	Residential Weather-based Irrigation Controller Rebate	Osceola	Irrigation	0.10	0.10	\$116,000	\$116,000	\$58,000
Miami-Dade Water & Sewer Department	Landscape Irrigation Rebate Project FY2024-2025	Miami-Dade	Irrigation	0.03	0.03	\$52,450	\$52,450	\$26,225
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HET – High Efficiency Toilet; FAS – Floridan aquifer system; RO – Reverse Osmosis; WTP = Water Treatment Plant; HOA = Homeowners Association; UFA – Upper Floridan aquifer

MEMORANDUM

TO: Governing Board Members

FROM: Jennifer Reynolds, Ecosystem Restoration & Capital Projects

DATE: May 9, 2024

SUBJECT: Contract Amendment for the Lower Kissimmee Basin Stormwater Treatment Area Project

Agenda Item Background:

As part of the Northern Everglades and Estuaries Protection Program (NEEPP), the Lower Kissimmee Basin Stormwater Treatment Area (LKBSTA) Project, located in Okeechobee County, will remove phosphorus loads from contributing basins before they enter Lake Okeechobee. In December 2021, the Governing Board authorized entering into a Project Agreement with EIP Florida Water Quality, LLC for the design, construction, operation, and land acquisition of the LKBSTA Project. The project, as currently designed, is expected to remove 12-15 metric tons of TP per year and will cost \$300 Million.

Since December 2021, significant investigation and public engagement has occurred, and the project concept has evolved both to increase the benefits and address public concerns from nearby stakeholders. The land associated with the original contract has also been investigated to ensure project feasibility.

An additional 1,400 acres southeast of the existing LKBSTA Project are available to expand the project footprint. Expanding the project would allow for additional water treatment in the region and is estimated to bring the total project TP removal to 20-22 metric tons per year. Staff requests Governing Board approval to amend the current contract with EIP Florida Water Quality, LLC to revise the project design to include the expanded project footprint.

Additional Item Background:

The basins that will be treated by this project often contribute some of the highest Total Phosphorous (TP) loads to Lake Okeechobee. For the five-year period of Water Years 2019-2023 (WY2019-2023), the TP load from the Lake Okeechobee watershed was 402 metric tons, which is 297 metric tons above the Total Maximum Daily Load (TMDL) target set by the Florida Department of Environmental Protection.

Core Mission and Strategic Priorities:

This project supports the District's core mission of ecosystem restoration.

Funding Source:

State Water Quality Grant through Florida Department of Environmental Protection.

Staff Contact and/or Presenter:

Megan Jacoby, mjacobys@sfwmd.gov, 561-682-6517

ATTACHMENTS:

Resolution No. 2024-0514

LKBSTA Site Plan

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2024 - XXXX

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into an amended Project Agreement with Ecosystem Investment Partners Florida Water Quality, LLC, for the revised design of the Lower Kissimmee Basin Stormwater Treatment Area (LKBSTA) Project; entering into an amended FDEP grant funding agreement for the expansion of the LKBSTA Project; providing an effective date. (Contract No. 4600004527)

WHEREAS, the South Florida Water Management District entered into a Project Agreement (Contract No. 4600004527) in December 2021 with Ecosystem Investment Partners (EIP) Florida Water Quality, LLC, for the design, construction, operation, and land acquisition associated with the Lower Kissimmee Basin Stormwater Treatment Area (LKBSTA) Project in an amount not to exceed \$300,000,000.00; and

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to amend the existing Project Agreement with EIP to revise the preliminary design of the LKBSTA Project; and

WHEREAS, the current LKBSTA Project footprint is 3,400 acres and the expansion will increase the Project size by 1,400 acres for a total Project footprint of 4,800 acres; and

WHEREAS, the expected Project benefits will increase from approximately 12-15 metric tons of Total Phosphorus removed per year to approximately 20-22 metric tons of Total Phosphorus removed per year; and

WHEREAS, the Florida Department of Environmental Protection (FDEP) provides grant funding opportunities for water quality projects such as the LKBSTA Project, and the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to enter into an amended grant funding agreement with the FDEP to obtain State funding for the expansion of the LKBSTA Project.

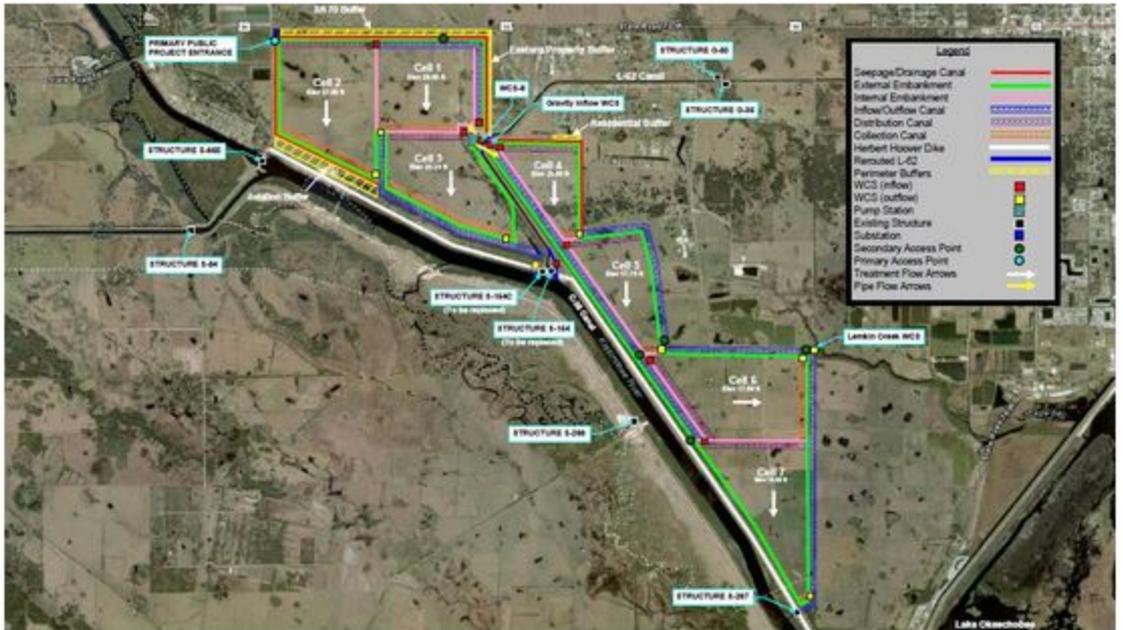
NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes entering into an Amended Project Agreement with Ecosystem Investment Partners (EIP) for the revised design of the LKBSTA Project. (Contract No. 4600004527)

Section 2. The Governing Board of the South Florida Water Management District hereby authorizes the Executive Director or his designee to amend the grant agreement(s) with the FDEP to fund the expansion of the LKBSTA Project.

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

PASSED and **ADOPTED** this 9th day of May, 2024.



MEMORANDUM

TO: Governing Board Members
FROM: , Office of Communications & Public Engagement
DATE: May 9, 2024
SUBJECT: eComment, Final Presentations, and Project Updates

Agenda Item Background:

Staff Contact and/or Presenter:

ATTACHMENTS:

[10 Fojtik eComment](#)

[27 Payseno DEPAWS Funding](#)

[28 Reynolds LKBSTA](#)

[29 Mitnik Glenn Water and Eco Conditions Report](#)

[Project Update CERP](#)

[Project Update NEEPP](#)

Agenda Item

10) General Public Comment

1 Public Comment



[Jake Fojtik](#) at May 06, 2024 at 3:20pm EDT

Mr. Chair, and Governing Board members:

On behalf of our 132,000 member families, many of which live and farm within the Northern Everglades and Lake Okeechobee watershed, I appreciate the opportunity to provide public comment for this meeting.

Farm Bureau supports the Northern Everglades and Estuaries Protection Program (NEEPP) and the Lake Okeechobee Watershed Project. Any changes made in Everglades Restoration Programs must be based on sound, scientific evidence, and a cost-benefit analysis.

We support balanced implementation of the Everglades Restoration Programs in a manner that provides for water-related needs of the region, including the enhancement of water supply and water quality while maintaining statutorily mandated flood control.

Within NEEPP, and statewide, Agricultural Best Management Practices (BMPs) are an important part of the comprehensive sets of projects and management strategies set forth in Basin Management Action Plans (BMAPs) to achieve the Total Maximum Daily Load (TMDL), but agricultural BMPs alone cannot, and were never intended to, meet the TMDL and achieve the goals of BMAPs. Agricultural BMPs are only one part of the suite of management strategies and regional projects outlined in BMAPs that must all be implemented and constructed in order to meet the adopted TMDL, and nowhere is this more important than the Lake Okeechobee watershed.

We appreciate the District continuing to follow the models set in state law, while seeking solutions for the water related needs of the region.

Thank you,

Jake Fojtik
Assistant Director of Government & Community Affairs
Florida Farm Bureau Federation

FY25 FDEP Alternative Water Supply Grant Program Update



Stacey Payseno, PMP
Lead Project Manager
Water Supply Bureau
May 9, 2024

Alternative Water Supply

- Alternative water supply (AWS) is needed to sustain our natural resources, economic growth, and economic viability.
- Source diversification to supplement traditional water sources is critical to meet current and future water demands.
- AWS helps avoid adverse effects of water supply competition.
- Water conservation reduces water demands.



Reclaimed water distribution main

FDEP Alternative Water Supply Funding

- Recurring funding per Executive Order 23-06 (Achieving *Even More* Now for Florida's Environment)
- FY2024-25 tentative state budget includes up to \$55 million
- FDEP administers AWS funding
 - Requests water management districts provide list of projects for state funding consideration each May



EXECUTIVE ORDER 23-06

Achieving *Even More* Now for Florida's Environment

WHEREAS, on January 10, 2019, I signed Executive Order 19-12, which laid out a bold plan to achieve more now for Florida's environment, and in the last four years, we have made incredible progress, entering into a golden era for conservation and protection of our treasured natural resources; and

WHEREAS, we secured unprecedented funding for the protection of our natural resources, including over \$3.3 billion in state funding for Everglades restoration and protection of our water resources, far surpassing our goal of \$2.5 billion; and

WHEREAS, we expedited Everglades restoration to reduce harmful discharges and send more water south, with more than 50 Everglades restoration projects being completed, breaking ground, or hitting a major milestone, and helped Florida Bay reach salinity goals for the first time in decades; and

WHEREAS, in 2020, I signed into law Senate Bill 712, which was the most consequential environmental legislation in decades and included a wide range of water quality protections aimed at minimizing the impact of known nutrient pollution sources, realigning the State's resources to better protect Florida's environment, and strengthening our environmental regulatory requirements; and

WHEREAS, we invested \$1.6 billion in water quality improvements, created the Wastewater Grant Program to construct, upgrade, or expand wastewater facilities, provide advanced wastewater treatment, and convert septic-to-sewer, and dedicated historic funding to increase alternative water supply and restore and protect Florida's springs; and

WHEREAS, we dedicated funding to enhance our state's water quality monitoring and identify new and innovative ways to treat, predict, and respond to blue-green algal blooms, including more than \$45 million to the Innovative Technology Grant Program and funding 20 different innovative technology projects to date; and

WHEREAS, the State, with the coordination of the Chief Science Officer, ensured that science is at the forefront of environmental protection and policy, with enhanced monitoring, innovative research, and modern data analytics to support water quality restoration and ensure that high quality, scientific data are readily available to citizens and state agencies; and

WHEREAS, we provided support to local governments for red tide cleanup efforts and established the Center for Red Tide Research within the Florida Fish and Wildlife Conservation Commission's (FWC) Fish and Wildlife Research Institute, which brings together state and local governments, universities, private sector partners, and community scientists to enhance statewide red tide monitoring and conduct applied research associated with tracking, predicting, and mitigating the effects of red tide; and

WHEREAS, the State, with the coordination of the Chief Resilience Officer, invested more than \$1.1 billion in resilience projects to protect our communities from flooding and sea level rise; and

WHEREAS, we established the Florida Wildlife Corridor and committed more than \$600 million to the Florida Forever Program and acquired more than 170,000 acres for conservation, nearly four times that acquired in the previous four years; and

WHEREAS, while the achievements of the first four years are historic, protecting our water resources, investing to make our communities more resilient, and preserving our conservation lands are essential to our economy and way of life, and we must continue the momentum of the last four years to achieve even more now for Florida's environment and ensure that we leave Florida to God better than we found it.



Signing of Executive Order 19-12 on January 10, 2019.



Gov. DeSantis signs Senate Bill 712.



Dr. Mark Rains, Chief Science Officer.



Dr. Wes Brooks, Chief Resilience Officer.

Recap – FDEP Funding Considerations

➤ Project funding considerations

- Provides regional benefits
- Benefits MFL water bodies
- Dual benefits to water supply and water quality
- Benefits environment, resource, and community
- Readiness to proceed (“shovel-ready” and partner funding available)
- Capital costs per 1,000 gallons and return on investment

Recap – Additional District Considerations

➤ Alternative Water Supply

- Supports goals and objectives of regional water supply plan
- Reduces dependence on traditional sources
- Supports ocean outfall legislation
- Contributes to AWS development in resource-limited area



Reverse osmosis
membranes

➤ Water Conservation

- Water source being conserved
- Quantity of water saved
- Cost effectiveness
- Quality and detail of project proposal
- Environmental/community benefits
- Past performance



Agricultural irrigation
system retrofit

Recap – Governing Board Priorities

- Current considerations and eligibility:
 - Must be within the District boundaries or provide benefits to the District
 - Must be an AWS or water conservation project
 - Construction/implementation only
 - Supports mission of the District and/or approved plan
 - Prioritize regional projects based on resource areas
 - Year-round irrigation ordinance status
 - Water Supply Facilities Work Plan status



Irrigation system retrofit

Fiscal Year 2024-2025 FDEP AWS Funding

- Two Zoom webinars in January
- SFWMD application
 - December 4, 2023 – February 26, 2024
 - 30 applications received
 - 22 Alternate Water Supply
 - 8 Water Conservation
 - Phase Construction/Project Costs ~\$121.5 million

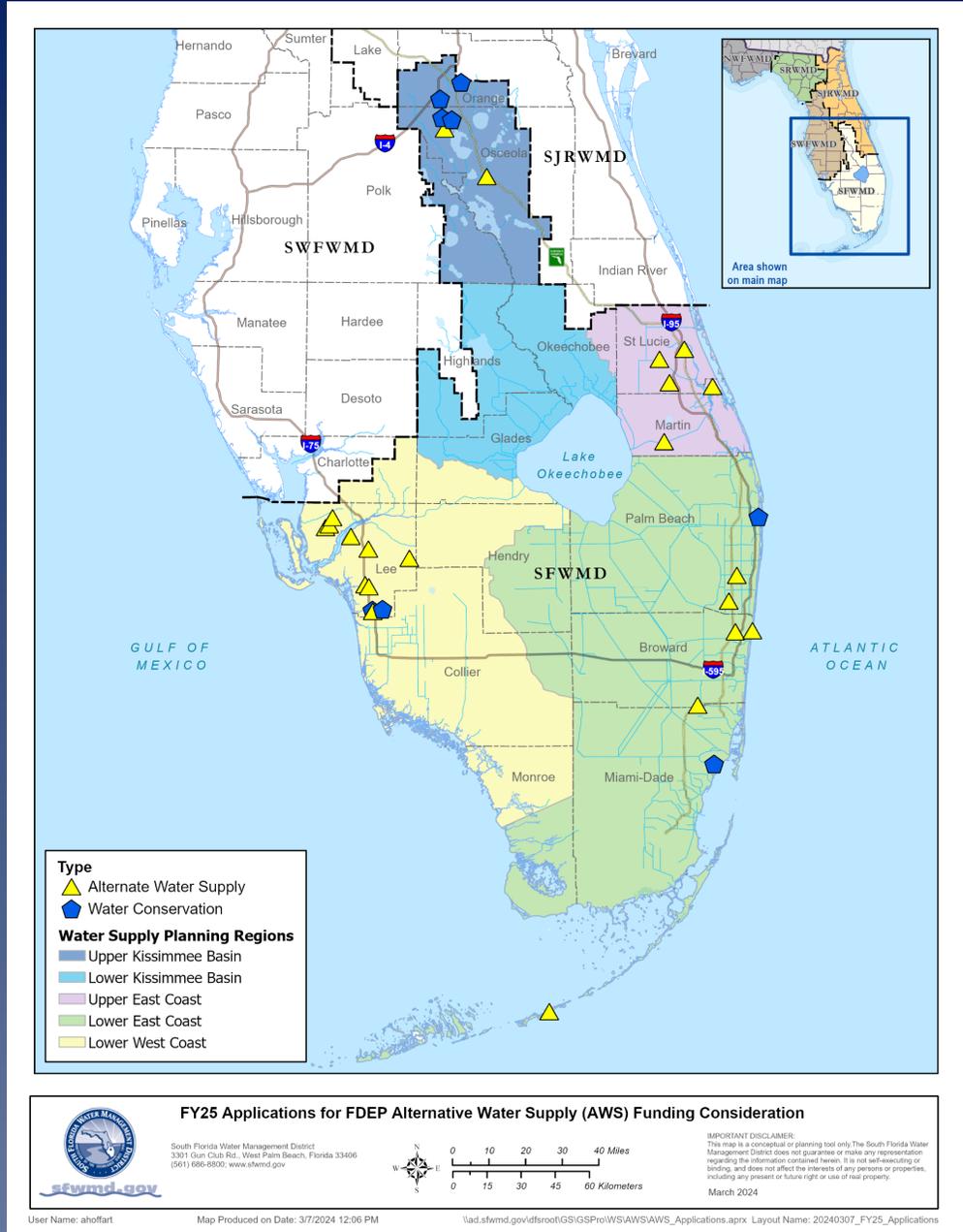


Exhibit A

Cooperating Entity	Project Name	County	Project Type	Phase Construction/ Project Cost	FDEP AWS Funding Request
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Toho Water Authority	Residential Weather-based Irrigation Controller Rebate	Osceola	Irrigation	\$116,000	\$58,000
Miami-Dade Water & Sewer Department	Landscape Irrigation Rebate Project FY2024-2025	Miami-Dade	Irrigation	\$52,450	\$26,225
Toho Water Authority	HET Rebate Program	Osceola	Indoor Plumbing	\$120,000	\$60,000
EastGroup Properties, LP	Commercial Building Irrigation Controller Retrofit Program	Osceola	Irrigation	\$195,930	\$97,965
Bonita Springs Utilities, Inc.	Residential Irrigation Controller Rebate Program	Lee	Irrigation	\$15,750	\$7,875
West Palm Beach, City of	Community Water Conservation Strategies Phase XI - HET Rebate Program	Palm Beach	Indoor Plumbing	\$37,500	\$18,750
Bonita Springs Utilities, Inc.	HET Rebate Program	Lee	Indoor Plumbing	\$15,080	\$7,540
Orange County Utilities	Soil Amendment Rebate Program	Orange	Irrigation	\$77,000	\$38,500

mgd = million gallons per day

UFA = Upper Floridan aquifer

RO WTP = Reverse Osmosis Water Treatment Plant HET = High Efficiency Toilet

Exhibit A

Cooperating Entity	Project Name	County	Project Type	Phase Construction/ Project Cost	FDEP AWS Funding Request
Toho Water Authority	Cypress Lake Wellfield: Construct two (2) Brackish FAS Wells and Raw Water Piping	Osceola	Brackish	\$18,527,000	\$9,263,500
Pompano Beach Utilities, City of	Lighthouse Point Phase IV Reclaimed Water Extension bordering the Intracoastal Waterway	Broward	Reclaimed	\$1,903,733	\$761,400
Broward County Board of County Commissioners	Broward-Pompano Beach Interconnect Pipeline for Water Reuse	Broward	Reclaimed	\$18,750,000	\$6,250,000
Fort Myers, City of	Reclaimed Water Extension to Pelican Preserve	Lee	Reclaimed	\$1,500,000	\$600,000
Palm Beach County Water Utilities Department	Green Cay Wetlands 2 mgd Indirect Potable Reuse Project - Water Purification Treatment Plant, 2.3 miles Purified Water Pipeline, and 4 Surficial Aquifer Wells, Phase 2b	Palm Beach	Reclaimed	\$9,481,034	\$3,792,400
Indiantown, Village of	1.5 mgd RO WTP Phase 1: FAS Test/Production Well	Martin	Brackish	\$2,500,000	\$1,875,000
Martin County Utilities	North Jensen RO WTP: Construct one (1) UFA Well and Raw Water Piping	Martin	Brackish	\$6,095,000	\$3,047,500
Cape Coral, City of	North RO WTP: Construct five (5) UFA Wells	Lee	Brackish	\$9,900,000	\$4,950,000
Florida Keys Aqueduct Authority	Crawl Key RO WTP Phase 1: Site work, Injection Well, and 5 mg Storage Tank	Monroe	Brackish	\$10,000,000	\$5,000,000
Fort Myers, City of	1.0 mgd RO WTP Expansion: Install two (2) RO trains	Lee	Brackish	\$2,350,000	\$1,175,000
Toho Water Authority	Toho Reservoir Reuse Supplemental Water Main Extension from NeoVation Way and Neptune Road to Macy Island Road and Southbury Drive	Osceola	Stormwater	\$9,560,000	\$3,430,000

mgd = million gallons per day UFA = Upper Floridan aquifer RO WTP = Reverse Osmosis Water Treatment Plant HET = High Efficiency Toilet

Exhibit A

Cooperating Entity	Project Name	County	Project Type	Phase Construction/ Project Cost	FDEP AWS Funding Request
St. Lucie County Utilities	2.0 mgd new Central County ROWTP Phase 1: RO Site Clearing, Construct four (4) UFA Wells, Raw Water Pipeline, Chemical Buildings	St. Lucie	Brackish	\$17,000,000	\$5,000,000
Totals for Resolution A and B – eligible for state appropriations				\$121,507,830	\$50,834,055
Palm Beach County Water Utilities	Palm Beach-Broward Interconnect Phase 1B: South Reclaimed Water Transmission and System Extension in southern Palm Beach County	Palm Beach	Reclaimed	\$7,570,974	\$0
Fort Pierce Utilities Authority	8 mgd Regional Water Reclamation Facility, Phase 2b	St. Lucie	Reclaimed	\$5,381,000	\$0
Port St. Lucie, City of	Rangeline New 10 mgd RO WTP Phase 1a: Construct one (1) UFA Well	St. Lucie	Brackish	\$5,600,000	\$0
Estero, Village of	Estero Parkway Reclaimed Water Main Extension Phase I outside Rookery Pointe HOA	Lee	Reclaimed	\$1,671,250	\$0
Rookery Pointe Homeowners Association	Estero Parkway Reclaimed Water Main Extension Phase II within Rookery Pointe HOA	Lee	Reclaimed	\$542,870	\$0
Miramar, City of	West RO WTP 2.5 mgd Expansion Phase 1a: RO membranes and associated upgrades	Broward	Brackish	\$6,794,500	\$0
Bonita Springs Utilities, Inc.	Deep Injection Well #2 for concentrate/effluent disposal from the RO WTP and East WRF	Lee	Brackish	\$14,000,000	\$0
Total of projects not eligible for state appropriations				\$41,560,594	\$0

mgd = million gallons per day

UFA = Upper Floridan aquifer

RO WTP = Reverse Osmosis Water Treatment Plant HET = High Efficiency Toilet

HOA = Homeowners Association

Resolution A

A Resolution of the Governing Board of the South Florida Water Management District to approve and authorize submittal of the final project list to the Florida Department of Environmental Protection for the purpose of funding consideration for projects for the DEP Alternative Water Supply Grant Program in dedicated state appropriations from the 2024 State General Appropriations Act.

Public Comment

If you would like to comment,
please fill out a comment card and
give to a meeting attendant

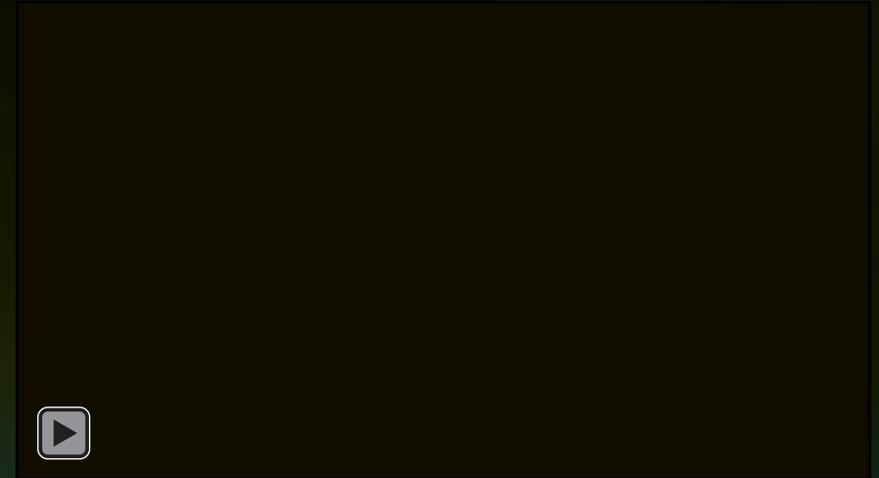


Resolution B

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into agreement(s) with cooperating entities for alternative water supply and water conservation projects with dedicated state appropriations from the 2024 General Appropriations and delegating authority to the Executive Director to execute the agreement(s) for identified projects that receive state appropriations.

Public Comment

If you would like to comment,
please fill out a comment card and
give to a meeting attendant



Thank You



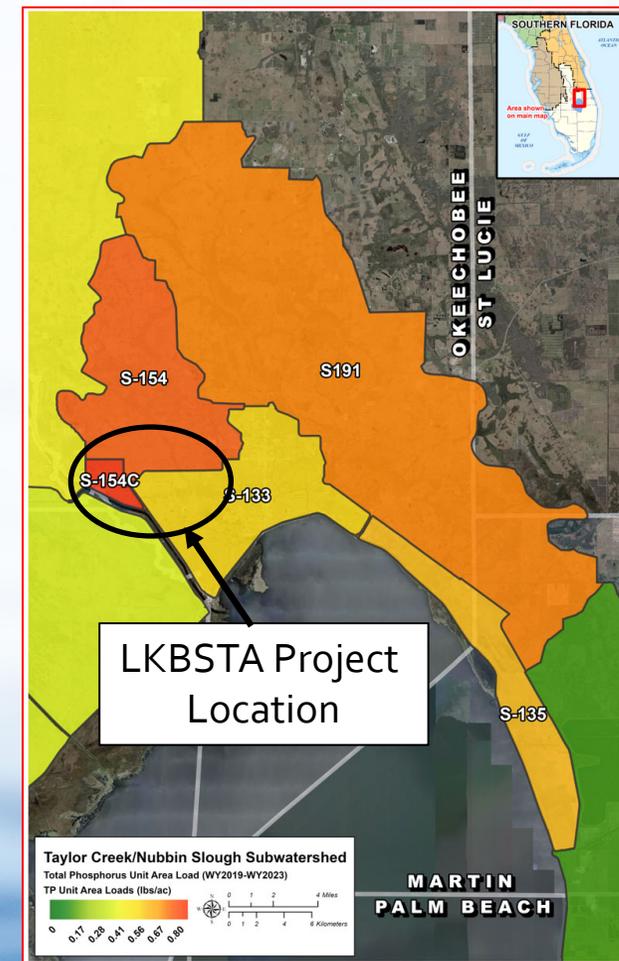
Lower Kissimmee Basin Stormwater Treatment Area Contract Amendment

Jennifer Reynolds, Director
Ecosystem Restoration Division
South Florida Water Management District
Governing Board Meeting
May 9, 2024



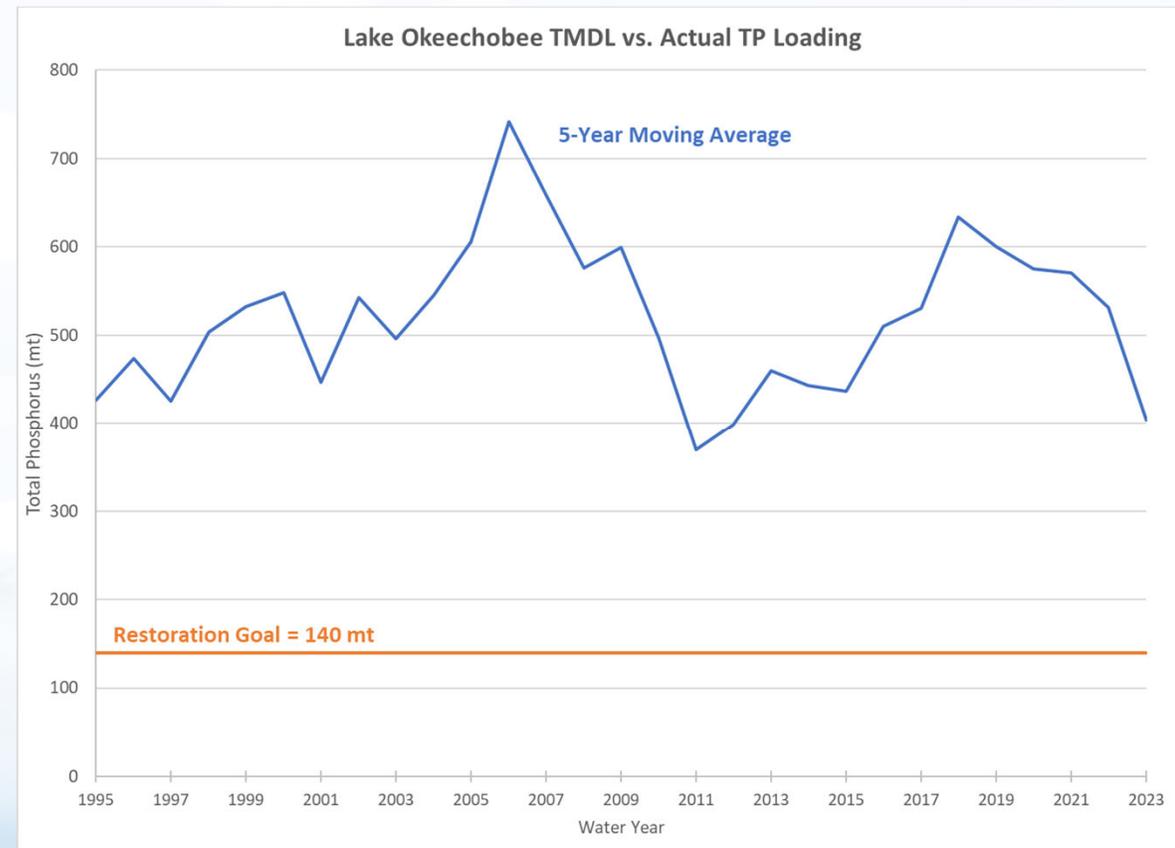
Project Background

- LKBSTA is a water quality improvement project intended to reduce TP loads from priority basins in the Lake Okeechobee watershed
- In May 2021, the Board authorized entering into a performance-based contract with EIP to design, construct, and operate the LKBSTA
 - Phase One: Preliminary Design
 - Phase Two: Final Design, Land Transfer, Construction, Operations



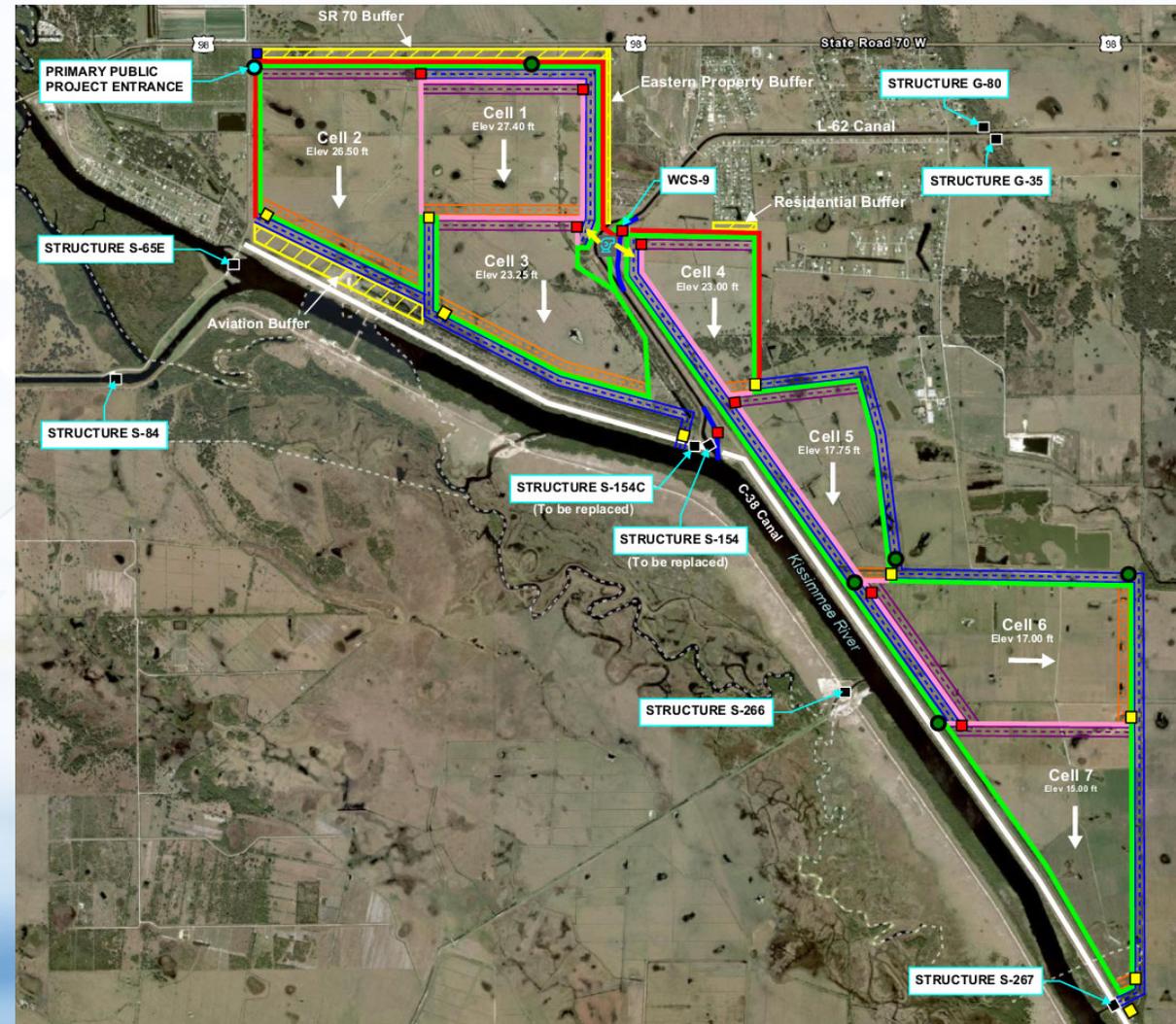
Project Need

- The TMDL target for the Lake Okeechobee watershed is 140 metric tons per year (mt/yr)
- In Water Years (WY) 2019-2023, the five-year average total TP load to Lake Okeechobee was 402 mt/y
- This exceeds the TMDL by **262 mt/yr**



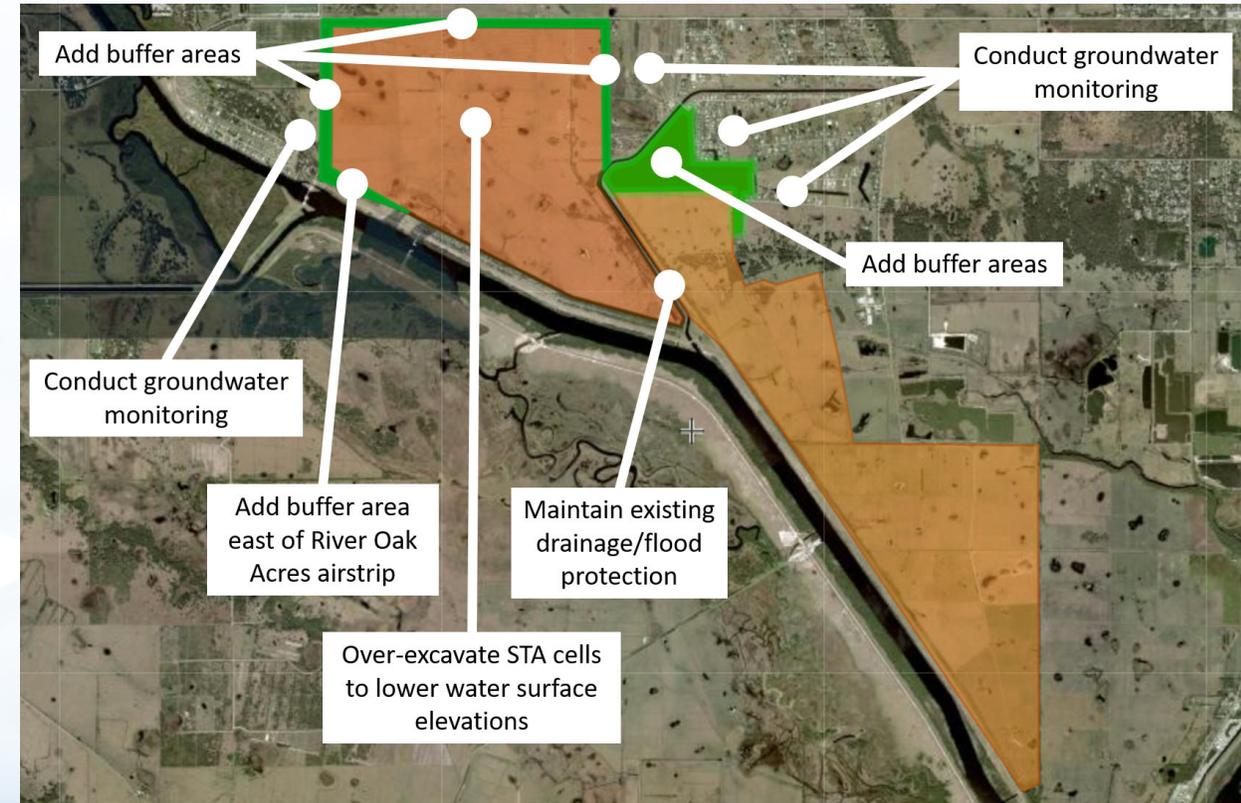
Project Concept

- Expanded Preliminary Design
 - Holistic design – will include all 4,800 acres
 - Will incorporate feedback received from stakeholders
- Updated Project Concept
 - Total area: 4,800 acres
 - Estimated TP reduction: 20-22 mt/yr



Design Changes and Stakeholder Input

- Proposed design changes based on stakeholder input
 - Add buffer areas between project and residential communities
 - Remove open water areas (no FEB)
 - Maintain existing flood control and FEMA flood zones
 - Manage and monitor seepage to maintain existing groundwater levels



What's Next?

➤ Today's Resolution

■ Expanded Preliminary Design

- \$13M for holistic design of expanded footprint that will address stakeholder comments

➤ Summer 2025

■ Staff to present Expanded Preliminary Design

- Will better understand project benefits
- Ensure all stakeholder comments are addressed

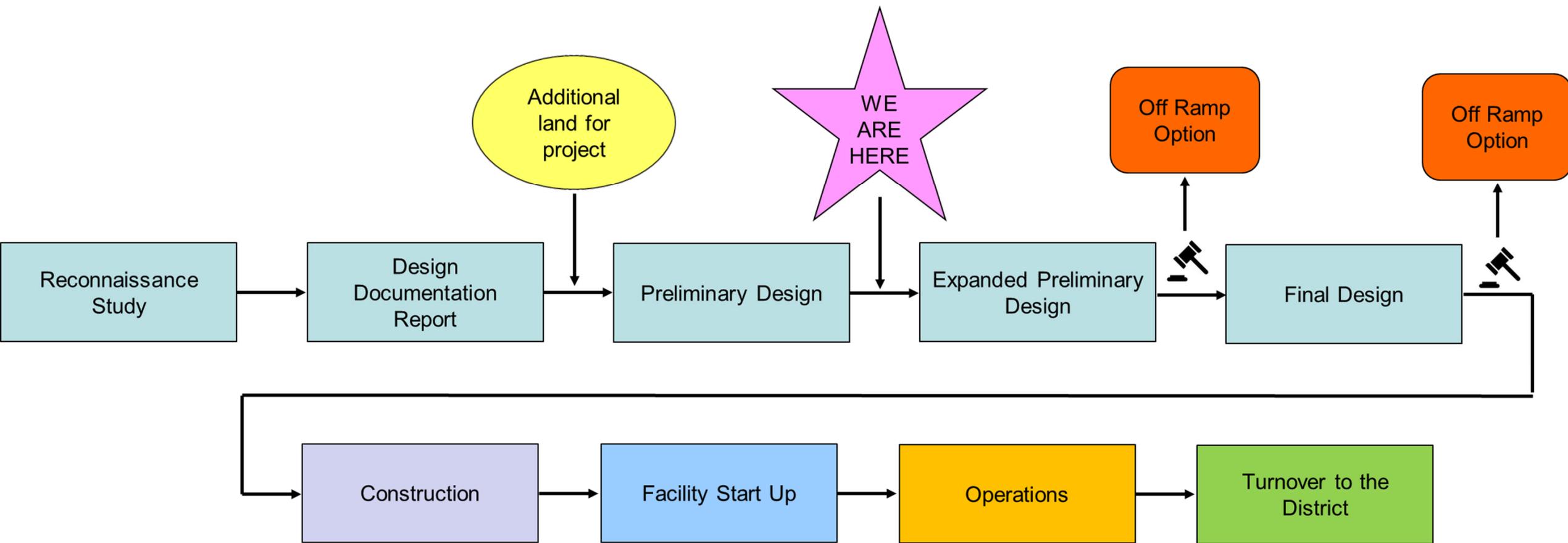
■ Governing Board to consider options:

- Stipulated Price Proposal and Final Design
- Off ramp options in the process

Project Costs

- Total Authorized Contract Amount NTE: \$300M
- Existing contract price for Phase One: \$12.6M
- Expenditures paid to date on Phase One : \$10.6M
- Contract amendment to expand Preliminary Design deliverable in Phase One: \$13M

Updated Project Schedule



Governing Board meeting

Resolution

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into an amended Project Agreement with Ecosystem Investment Partners Florida Water Quality, LLC, for the revised design of the Lower Kissimmee Basin Stormwater Treatment Area (LKBSTA) Project; entering into an amended DEP grant funding agreement for the expansion of the LKBSTA Project; providing an effective date. (Contract No. 4600004527)

Public Comment

Want to comment?

Please fill out a comment card and give to a meeting attendant



Questions?

Water and Ecological Conditions Summary

South Florida Water Management District Governing Board Meeting May 9, 2024



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



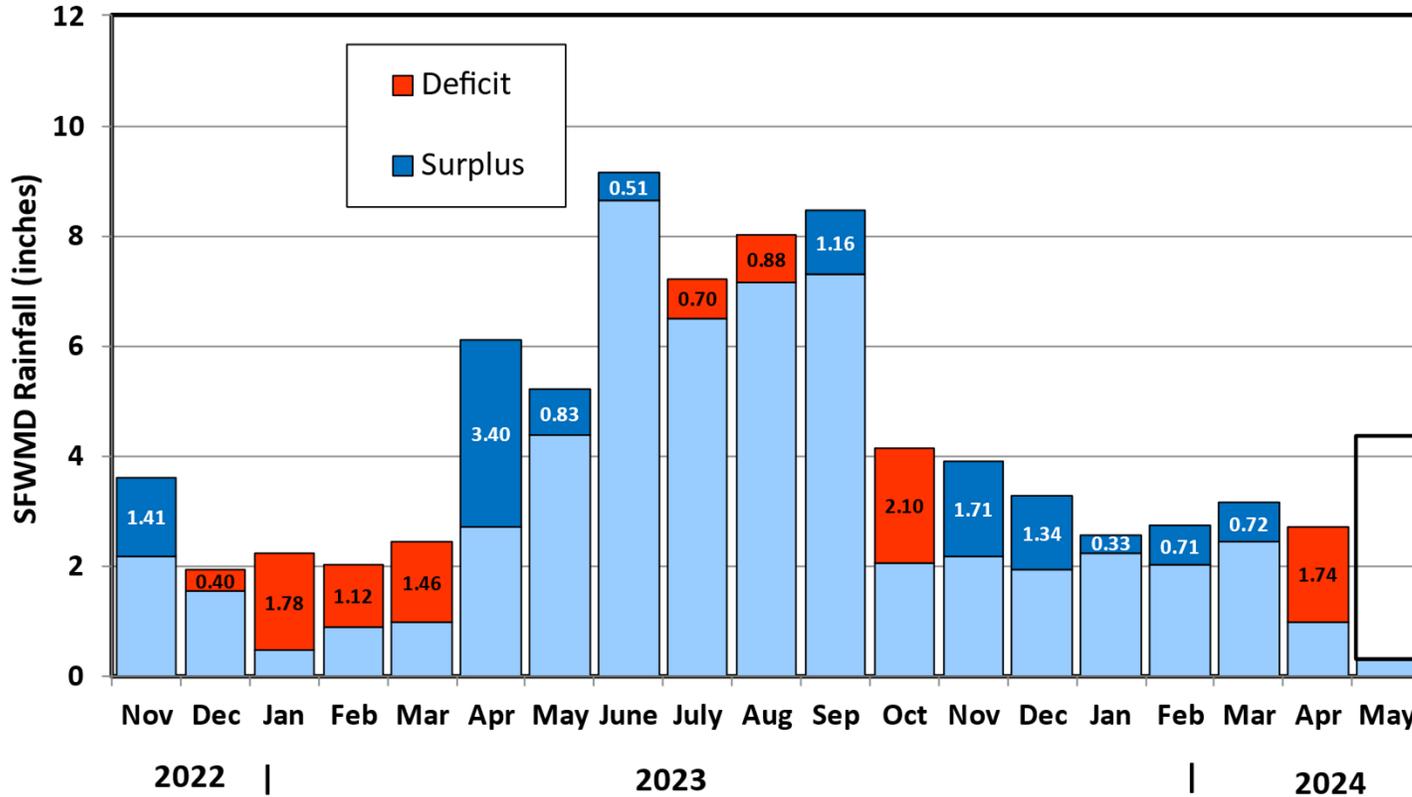
Lawrence Glenn
Division Director
Water Resources

SFWMD Rainfall Distribution Comparison (November 2022 - May 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

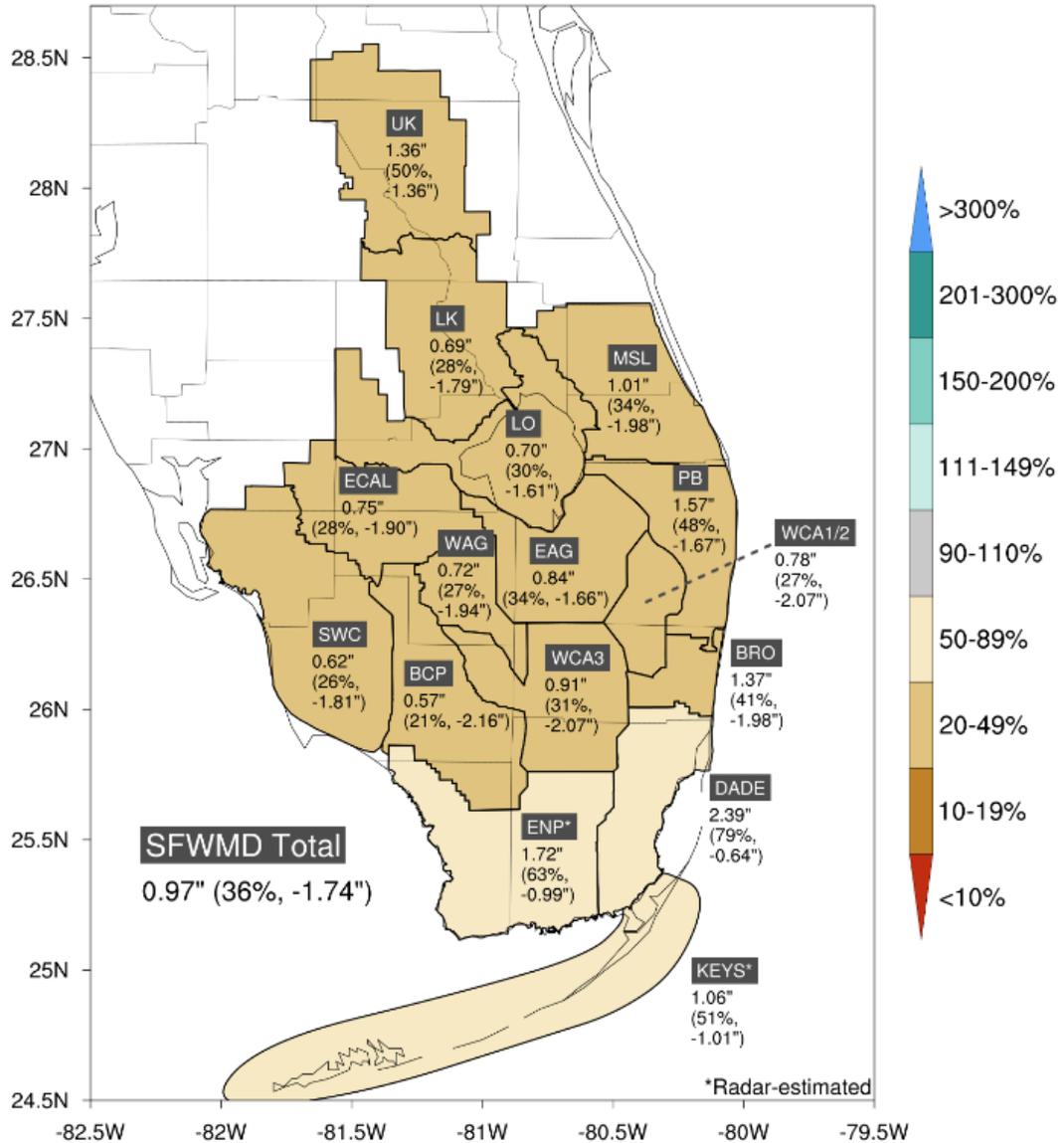
2023 WET SEASON

- 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

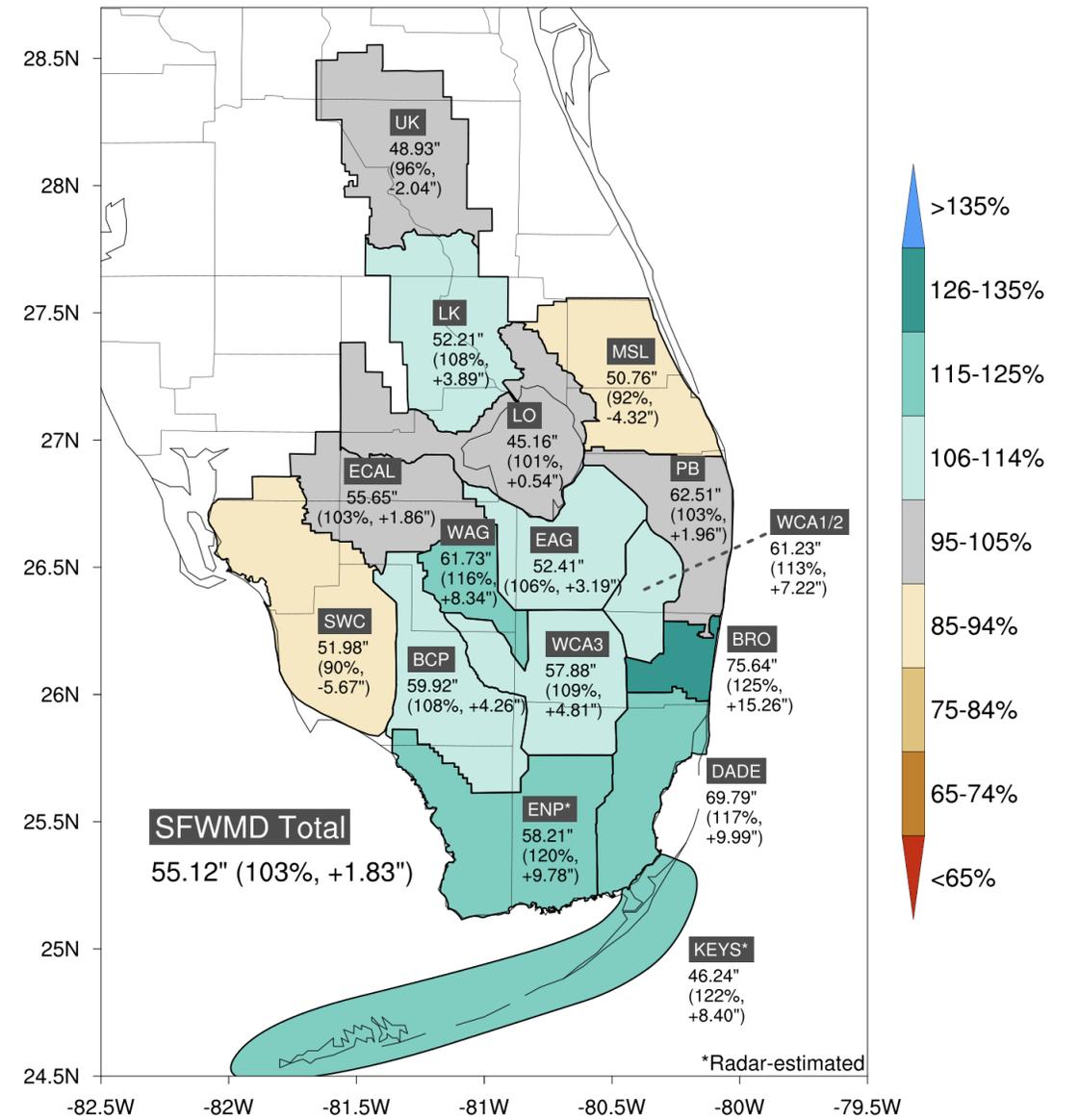
2023-2024 DRY SEASON

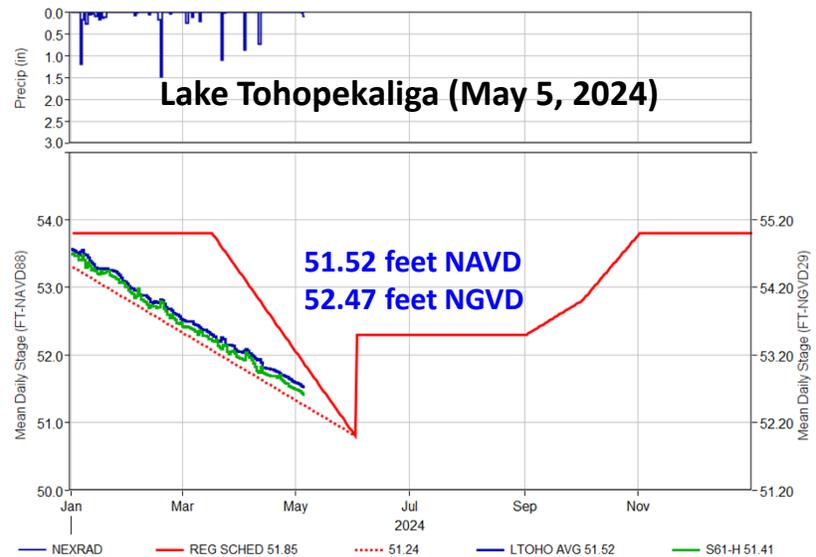
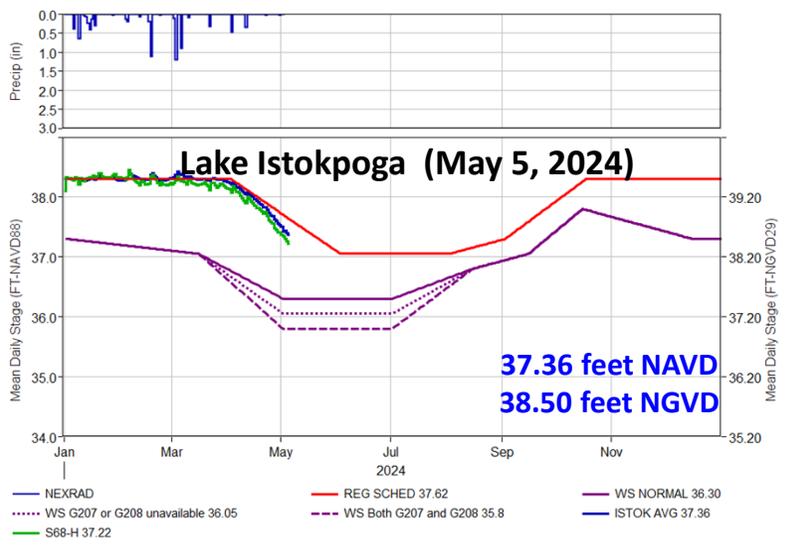
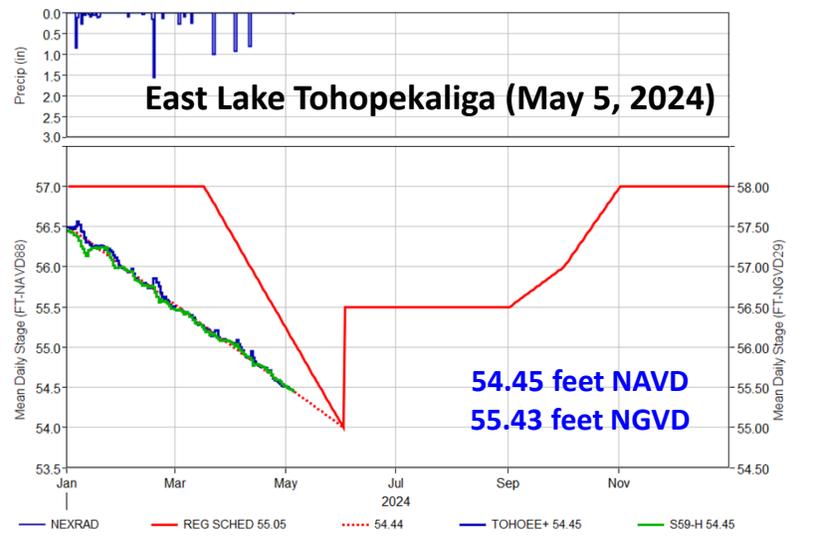
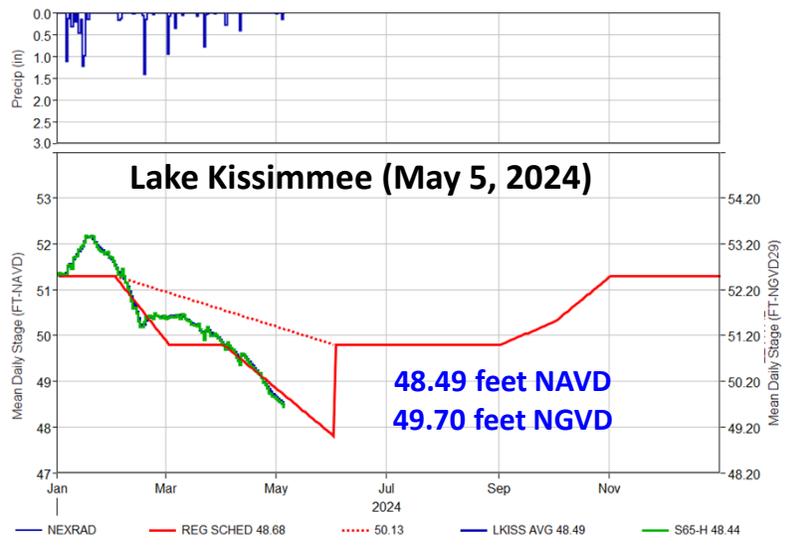
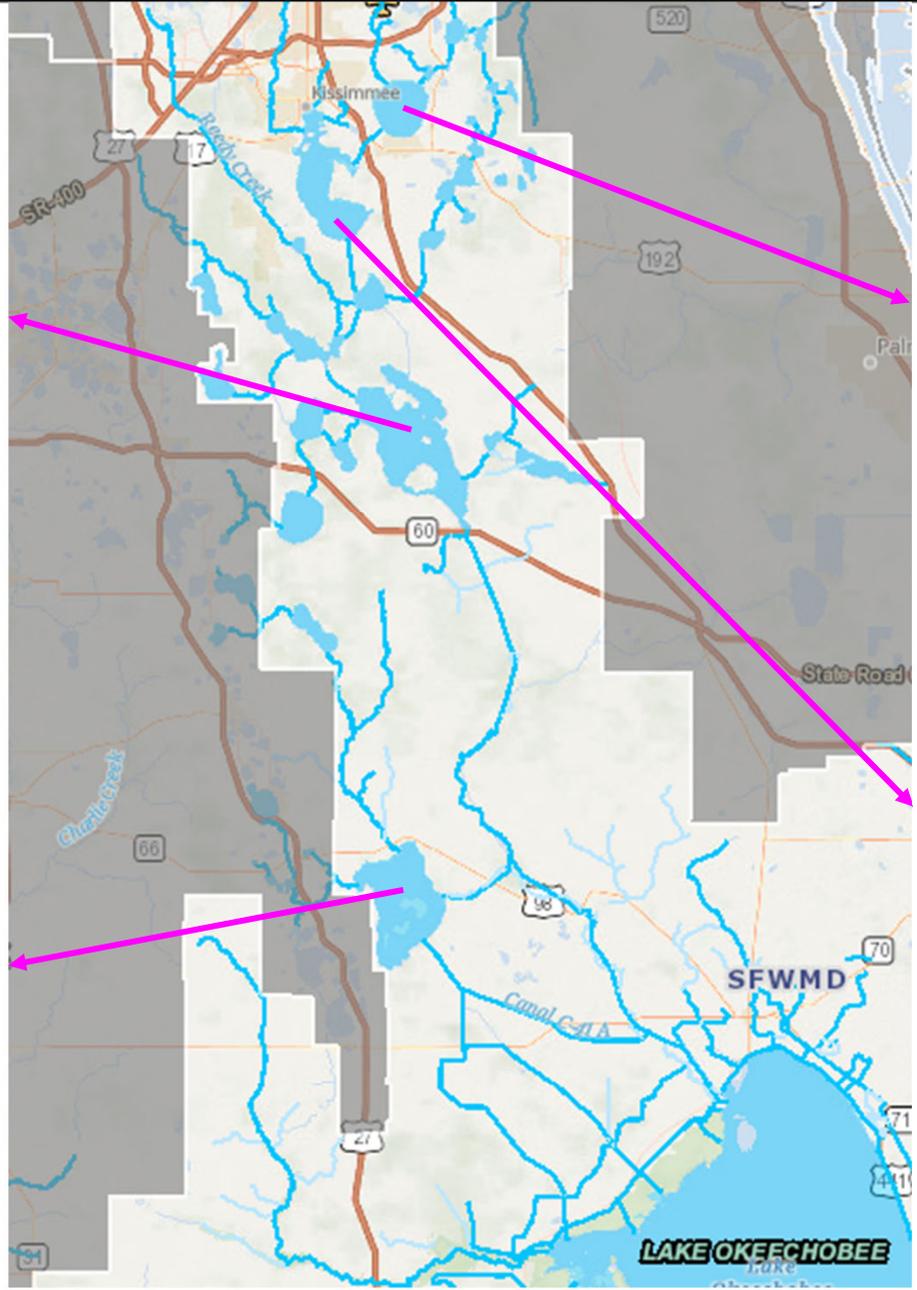
- Started 10/01/2023
- October 2023 and April 2024 were extremely dry
- Large isolated rainfall events November to March
- November 2023 through March 2024 above normal

April 2024
 Rainfall, Percent of Normal, and Departures

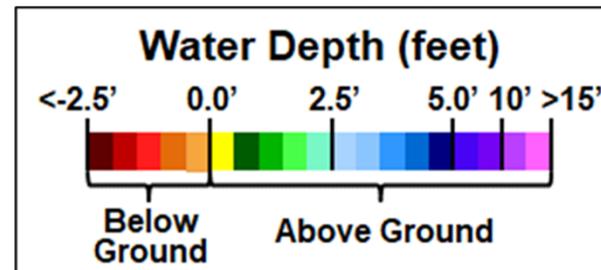
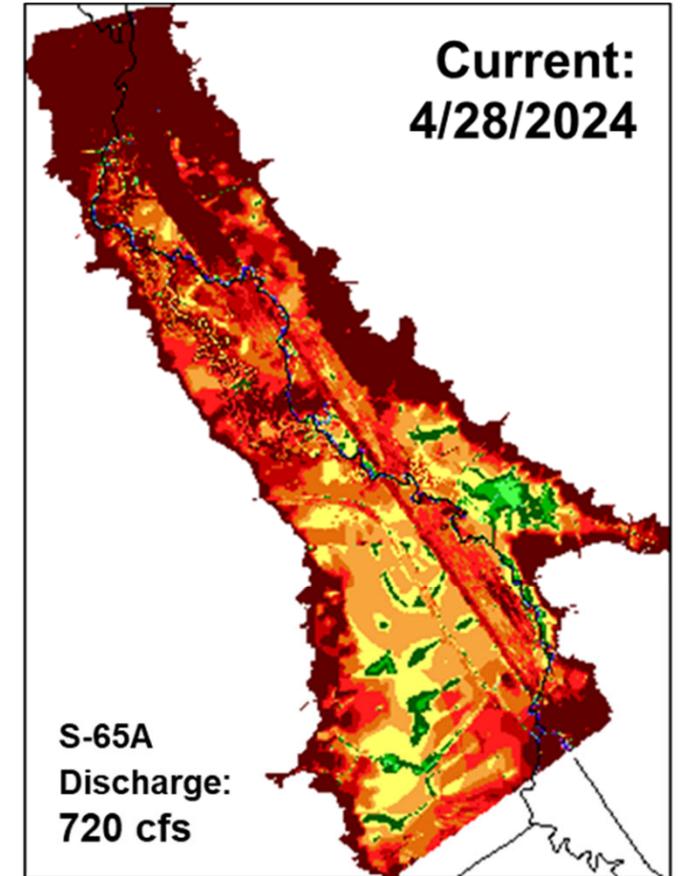
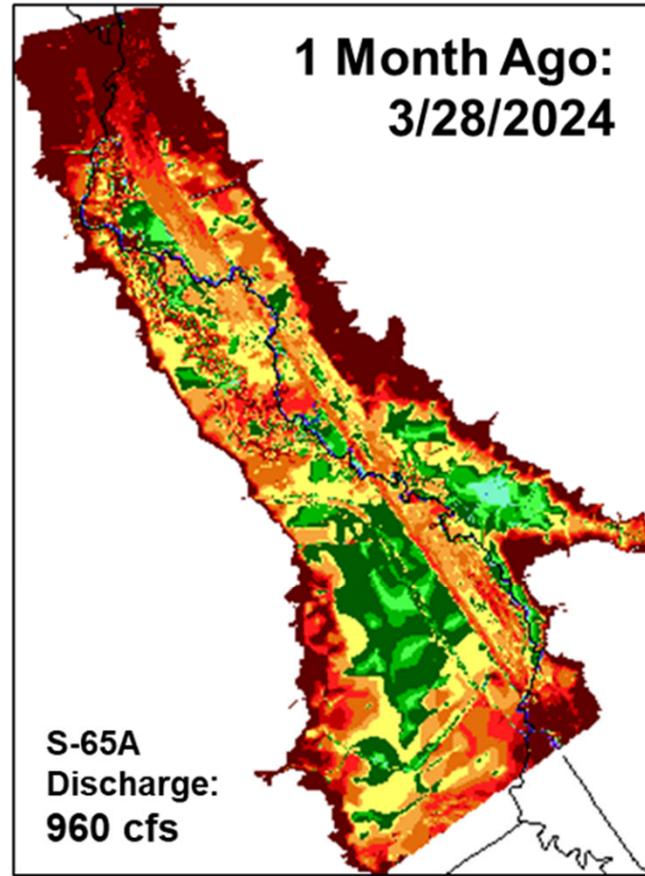
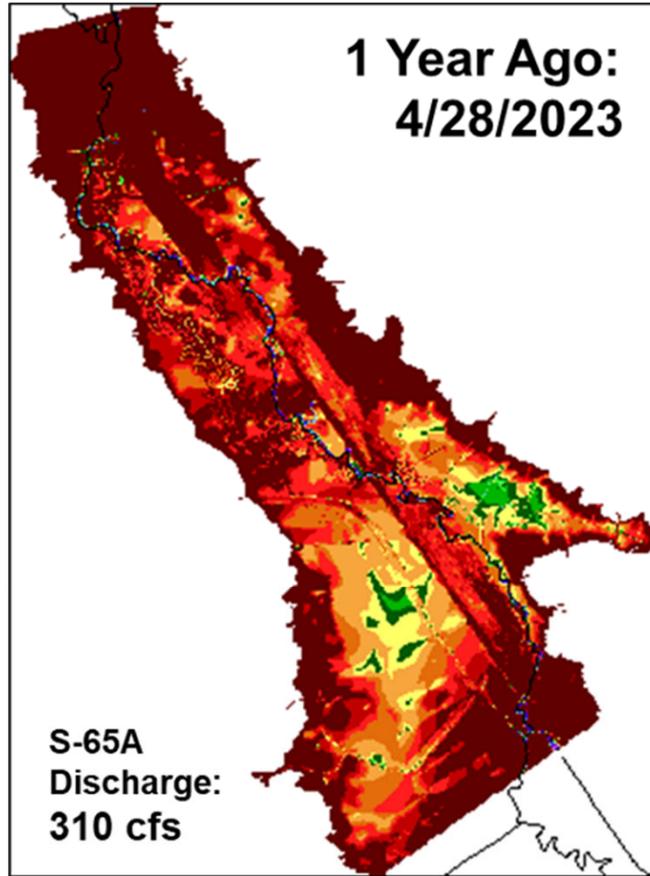


2023-2024 Water Year (5/1/23 to 4/30/24)
 Rainfall, Percent of Normal, and Departures

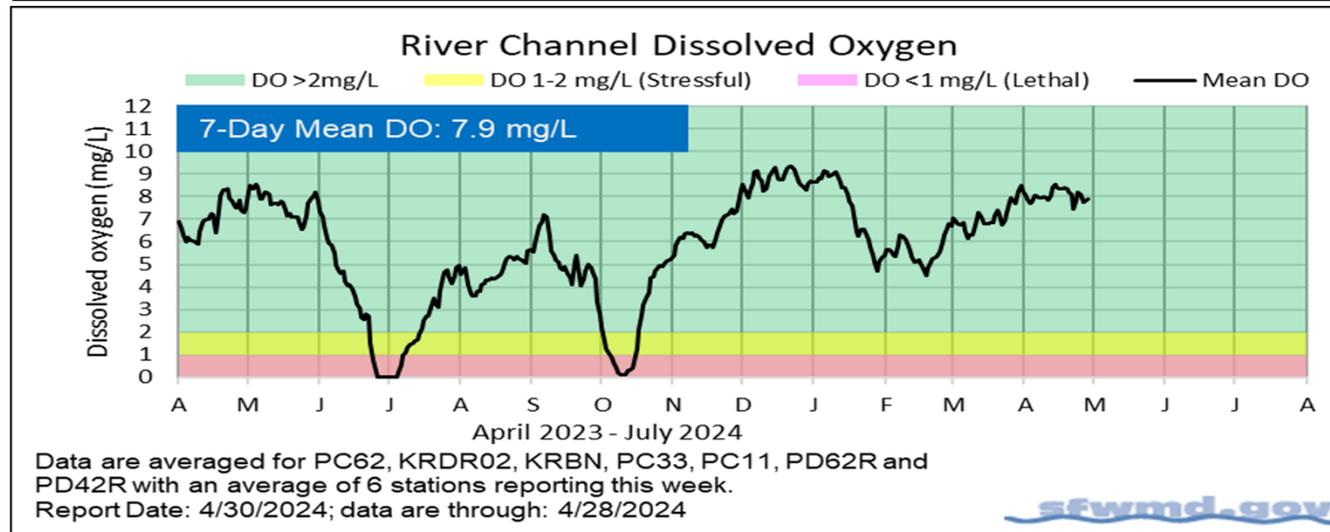
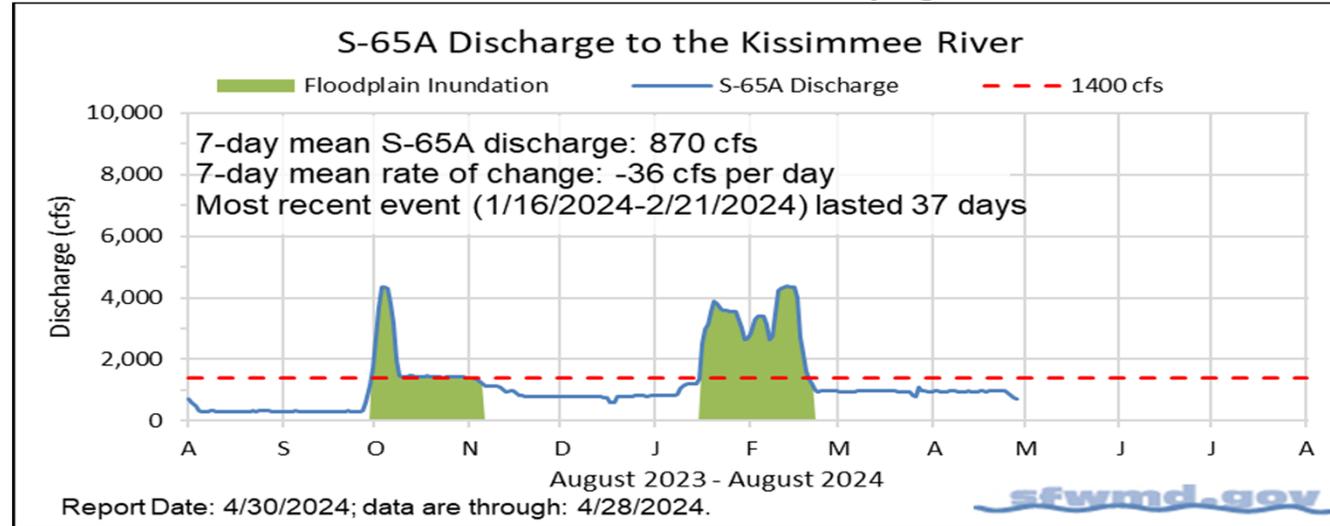




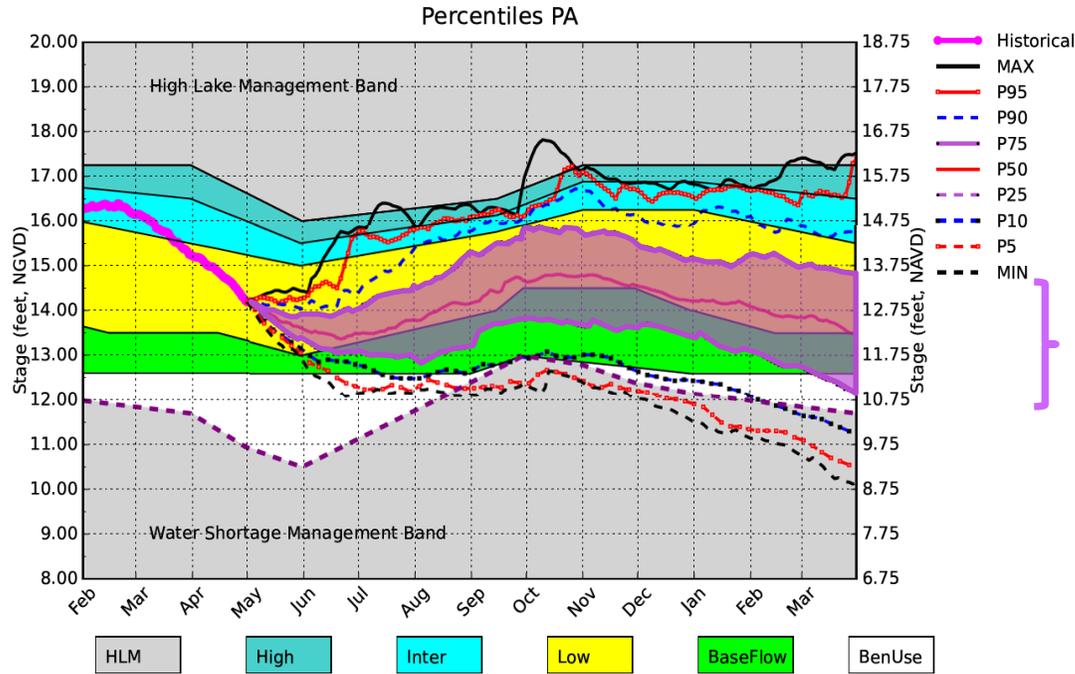
Kissimmee River Floodplain Inundation



Kissimmee River Discharge and Dissolved Oxygen



Lake Okeechobee SFWMM May 2024 Position Analysis

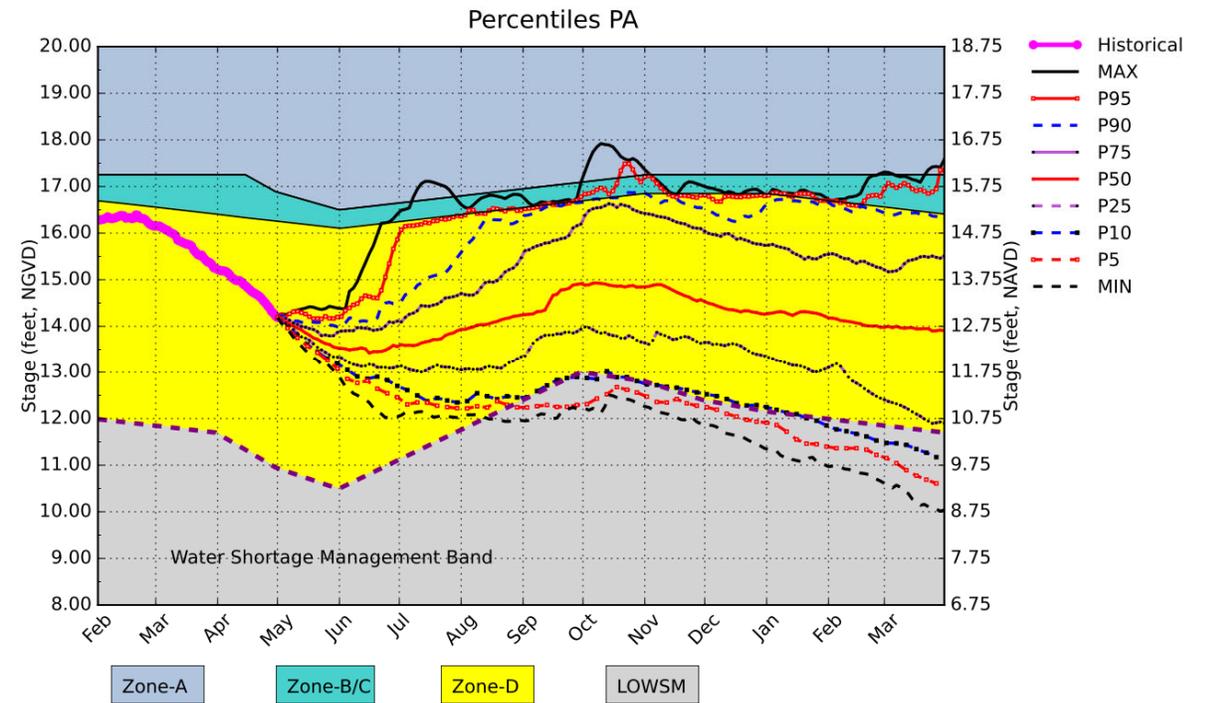


05/06/24 10:50:55 (See assumptions on the Position Analysis Results website)

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



Lake Okeechobee SFWMM May 2024 Position Analysis



05/07/24 08:59:01 (See assumptions on the Position Analysis Results website)

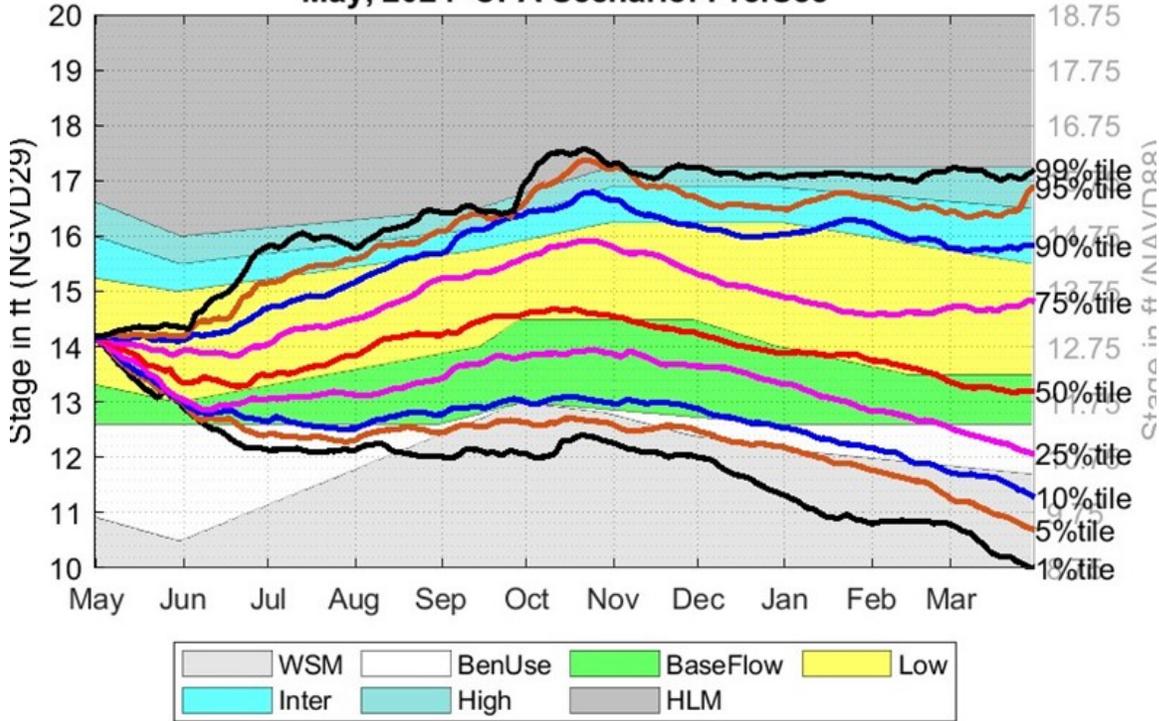
Current Lake Okeechobee Regulation Schedule (LORS2008)



50% chance stage falls in the purple-shaded region

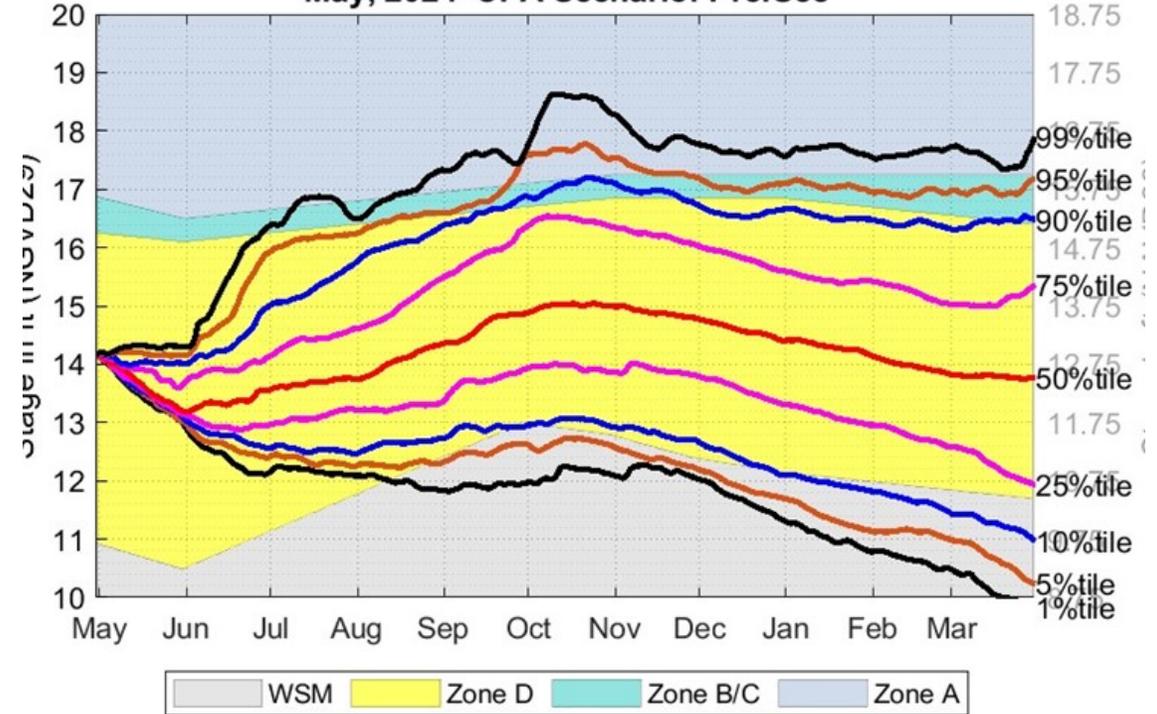
Conditional Position Analysis (CPA)

May, 2024 CPA Scenario: PrefSce



Current Lake Okeechobee Regulation Schedule (LORS2008)

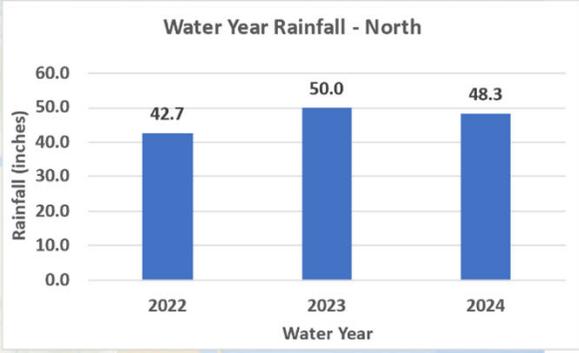
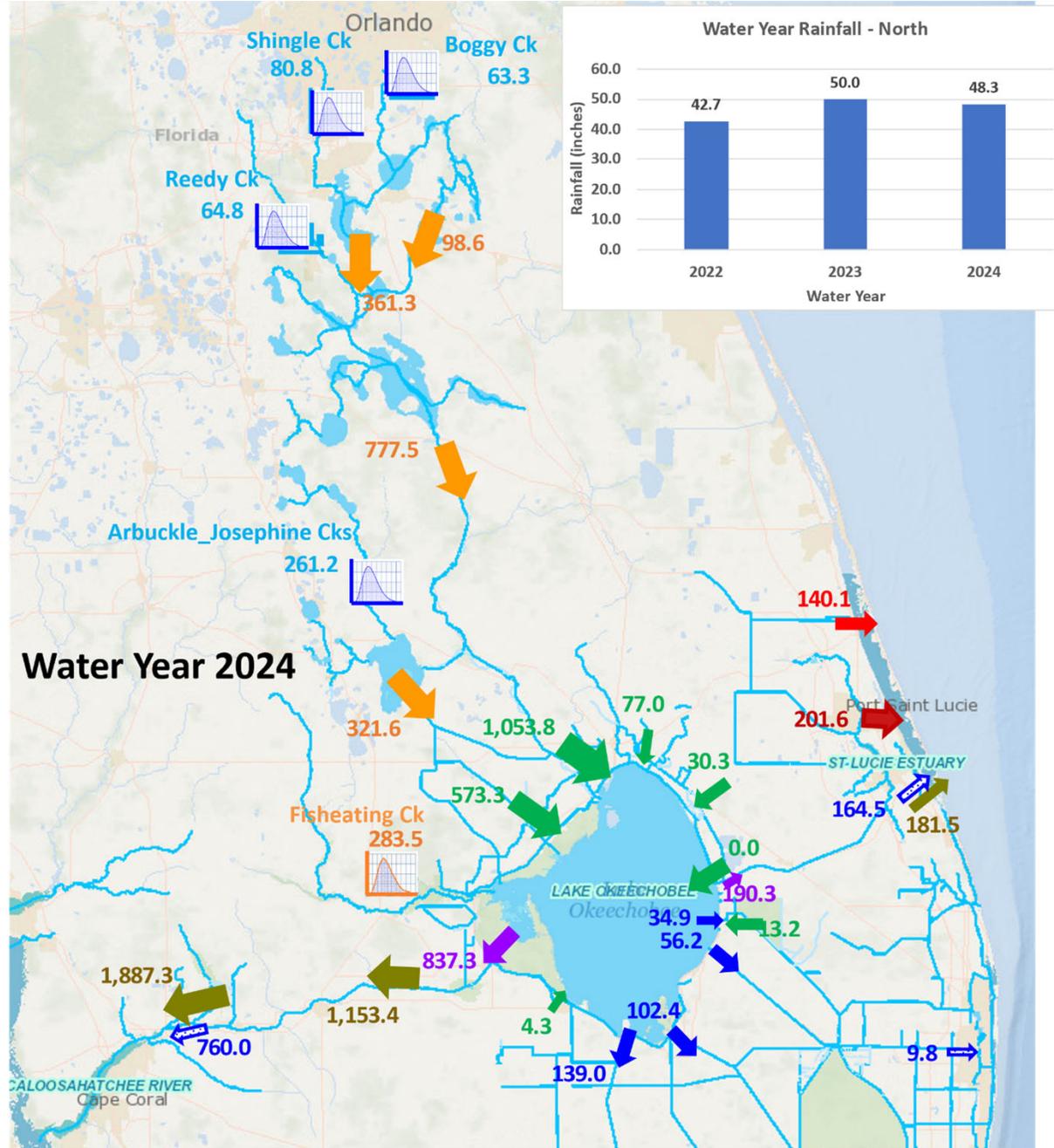
May, 2024 CPA Scenario: PrefSce



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 Water Years 2022, 2023 and 2024
 (volumes in 1,000 acre-feet)
 (Water Year is May 1 through April 30)



Symbol	Description	Volume (1,000 acre-feet)		
		WYR 2022	WYR 2023	WYR 2024
	Upper Kissimmee to Lower Kissimmee	703.5	1,375.4	777.5
	Inflows to Lake Okeechobee (including Fisheating Creek)	1,523.3	2,150.3	2,035.4
	Lake Releases and Basin Runoff	1,609.6	1,651.4	2,068.8
	Lake Releases East and West	807.6	628.3	1,027.6
	Lake Flood Control to Estuaries	570.2	478.5	924.5
	Total Lake Releases South	569.0	443.9	332.6
	Releases to Indian River Lagoon	102.8	115.5	140.1
	Upper East Coast discharges to St. Lucie Estuary	251.7	188.9	201.6
	Uncontrolled flows - Creeks (does not include Fisheating Creek)	461.3	702.9	470.2

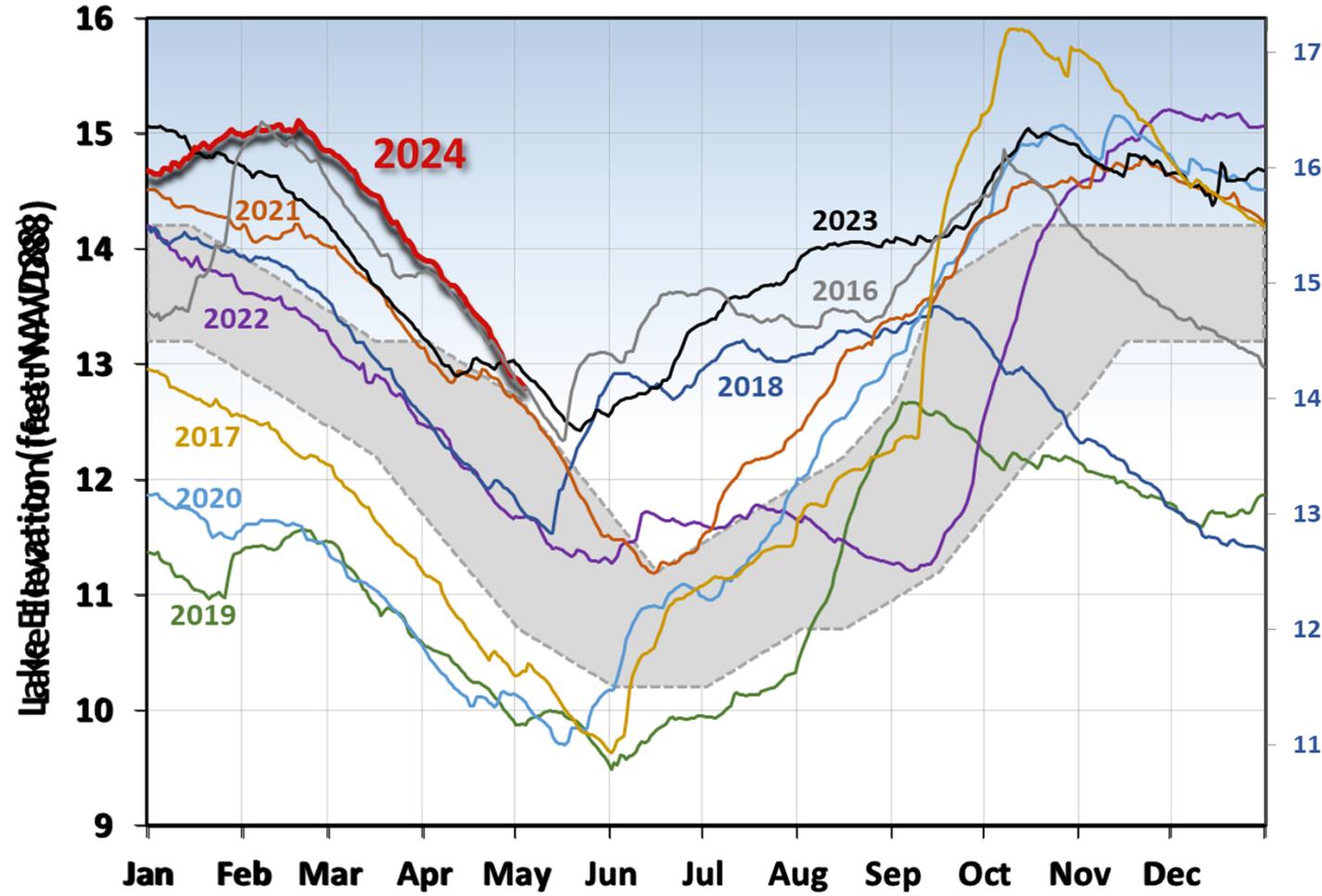
1,000 acre-feet = 325.9 Million Gallons

District-wide Rainfall

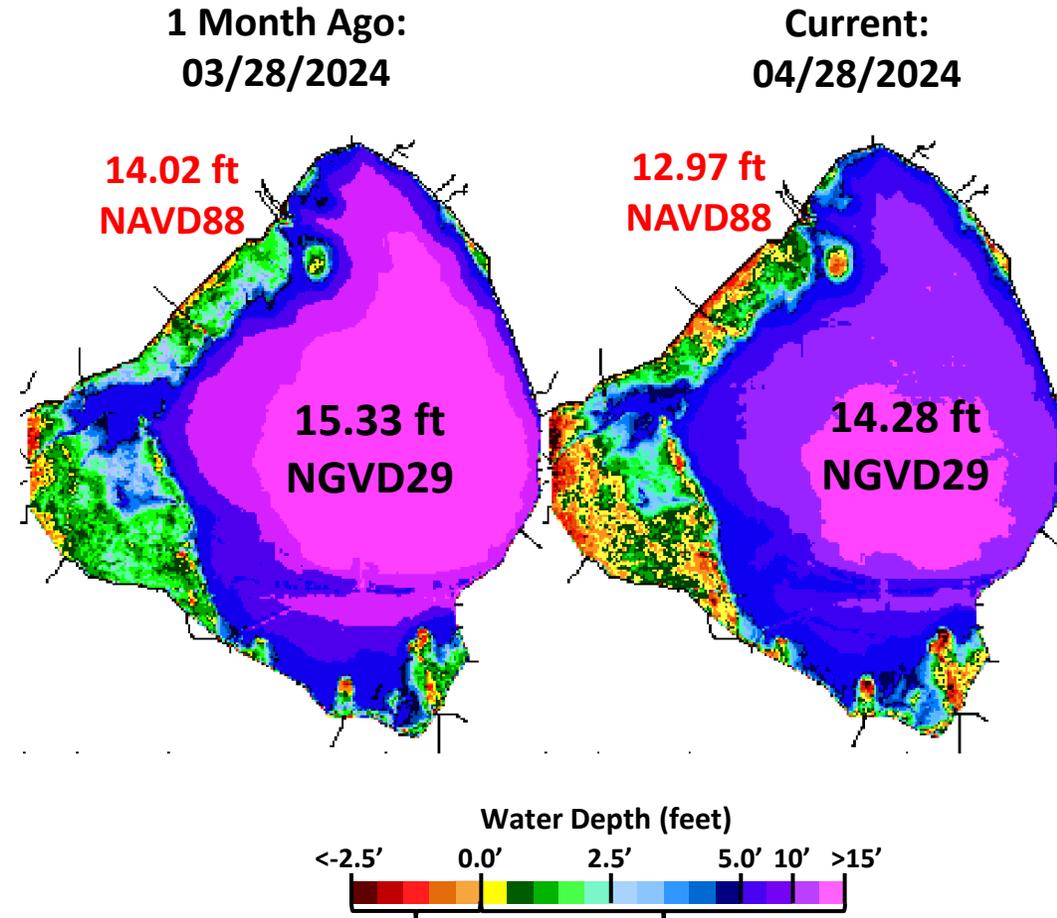
Water Year	Rainfall (inches)	Compared to Normal
2022	47.9	Below
2023	55.3	Above
2024	55.1	Above

Ecological Envelope and Water Depths

Lake Okechobee Stage vs Ecological Envelope



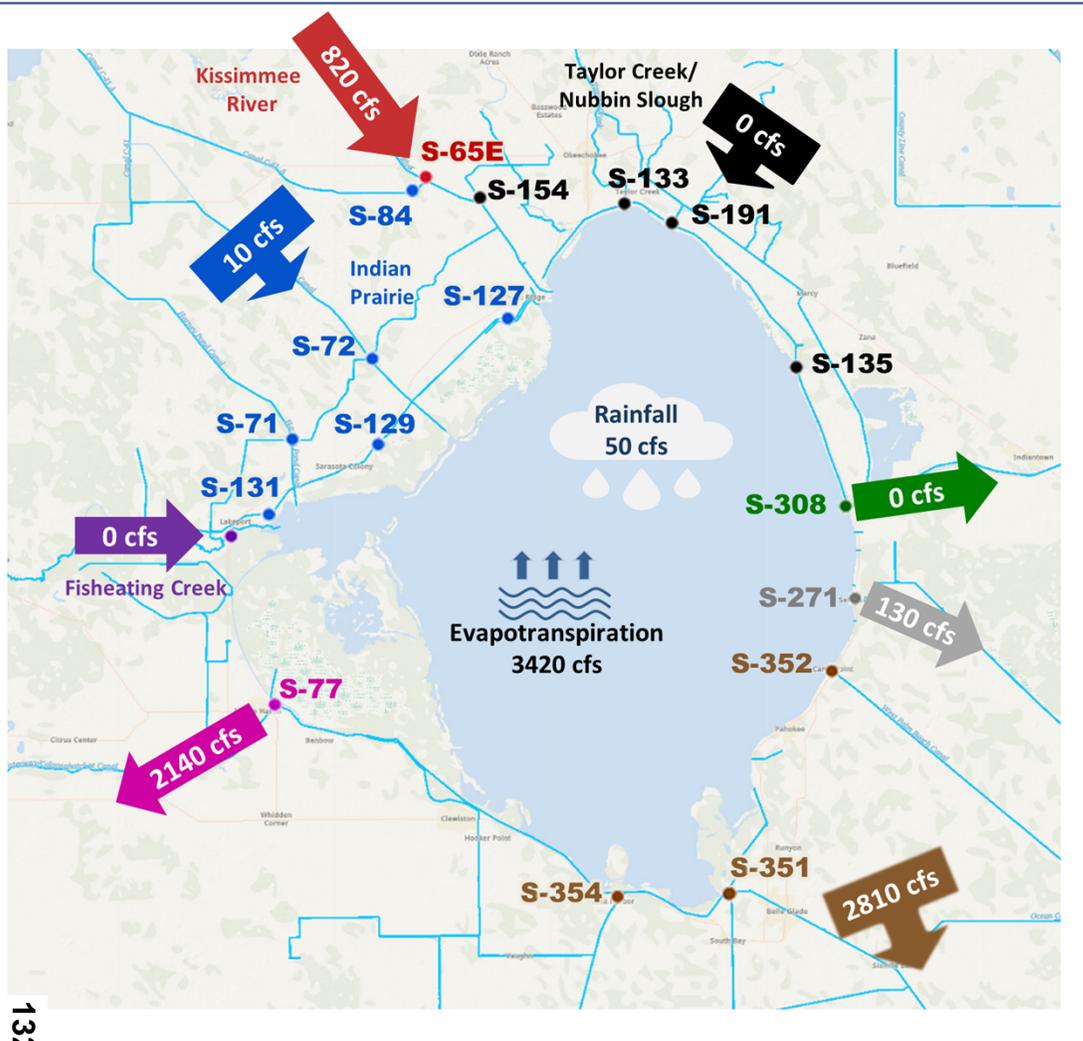
Changes in Water Depth



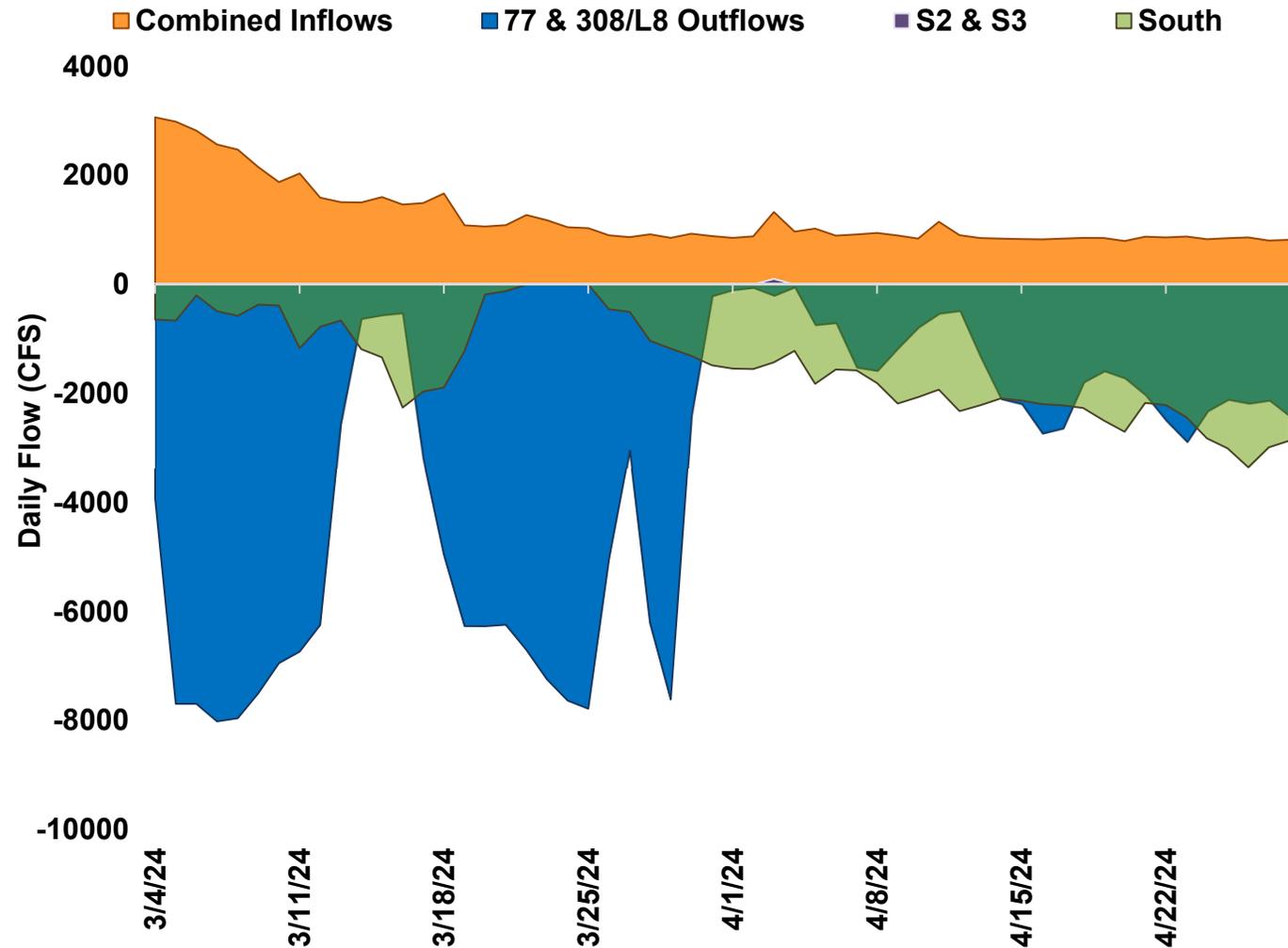
Lake Okeechobee Hydrology

(*Provisional Data)

Apr 22- 28, 2024 Inflows and Outflows



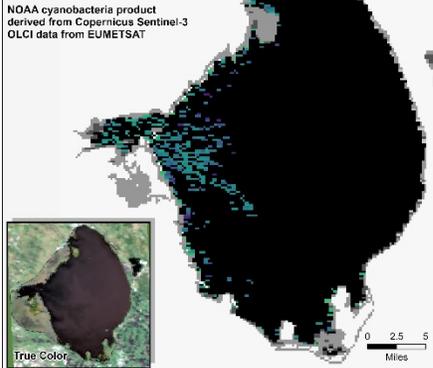
Prior 8 Weeks Inflows and Outflows



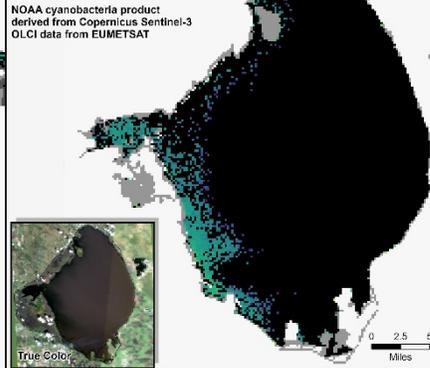
Lake Okeechobee

Cyanobacteria Bloom Distribution and Intensity

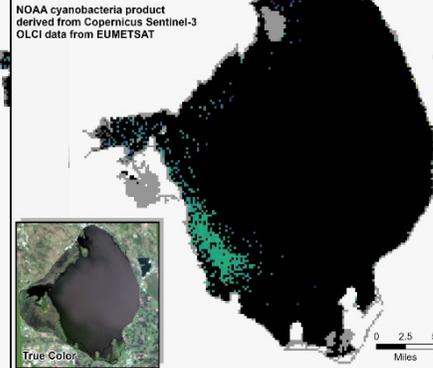
Lake Okeechobee
December 18, 2023



Lake Okeechobee
January 01, 2024

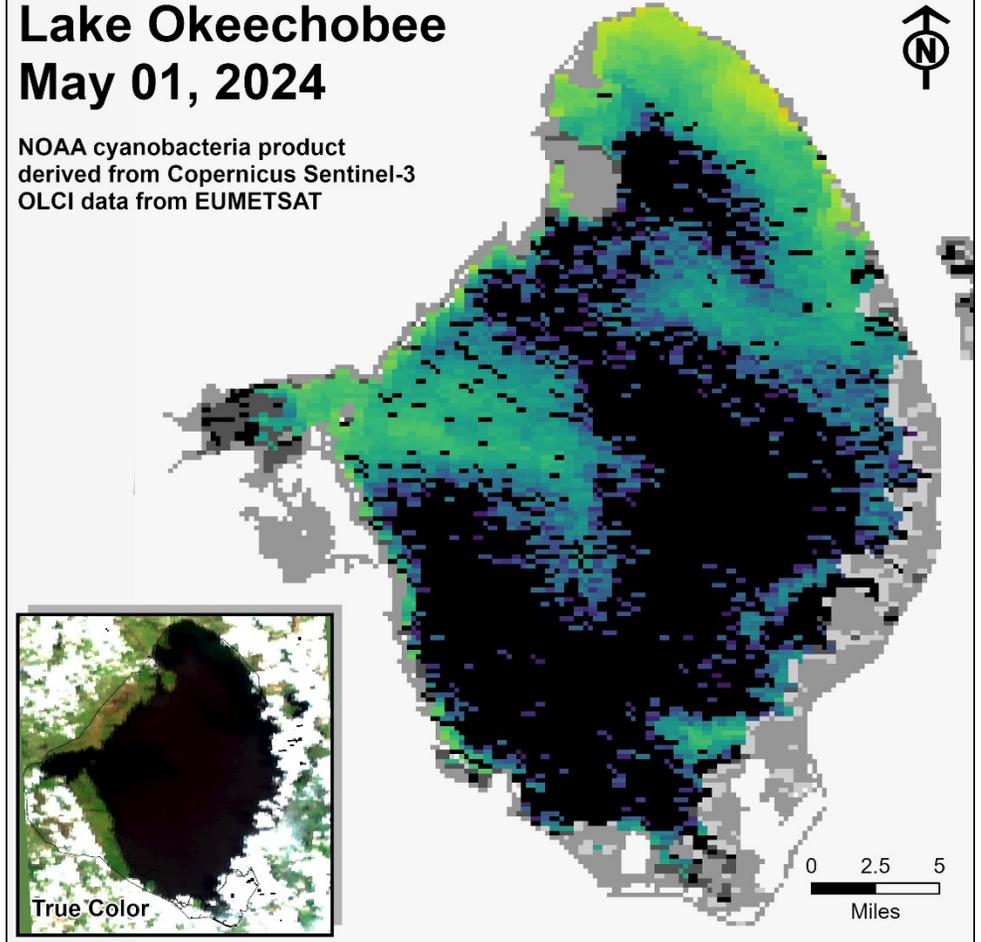


Lake Okeechobee
February 03, 2024

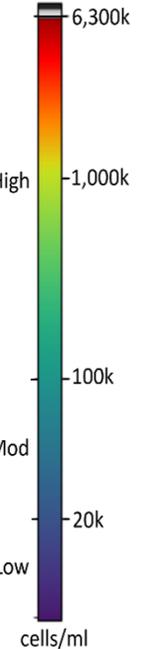


Lake Okeechobee
May 01, 2024

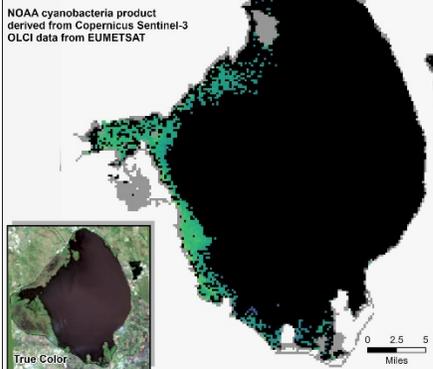
NOAA cyanobacteria product
derived from Copernicus Sentinel-3
OLCI data from EUMETSAT



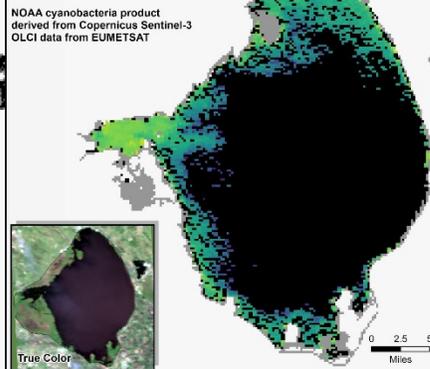
Cyanobacteria
Index



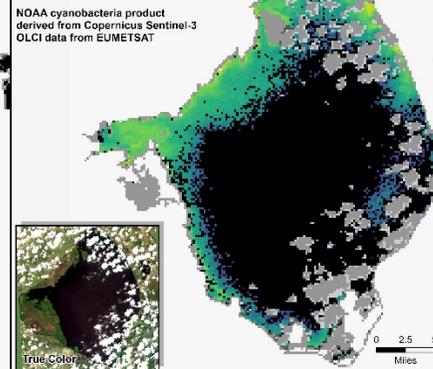
Lake Okeechobee
March 11, 2024



Lake Okeechobee
April 06, 2024



Lake Okeechobee
April 26, 2024



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

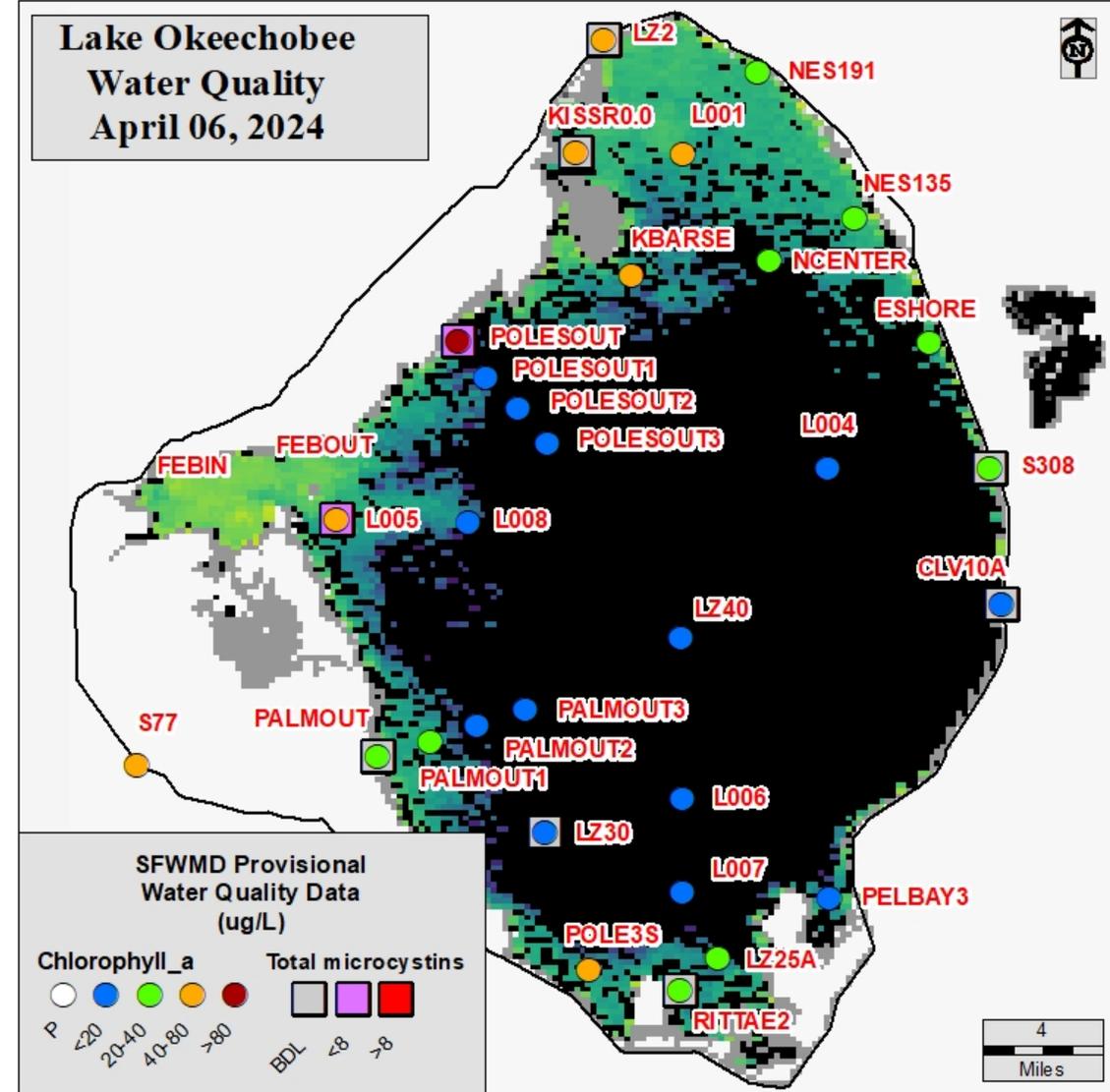
Lake Okeechobee

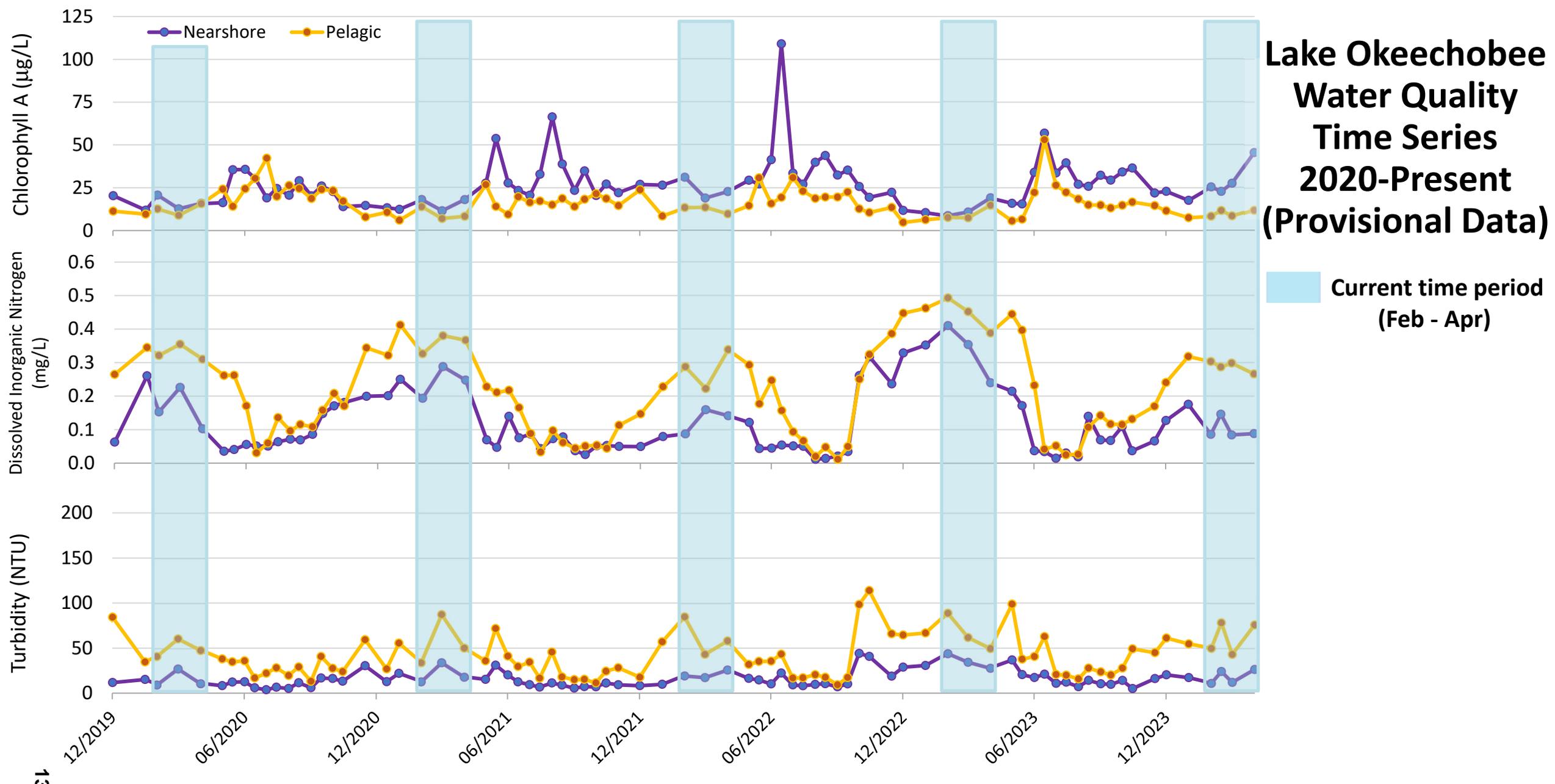
Chlorophyll *a*, Total Microcystins, and Dominant Taxa

Collection Date: April 01-08, 2024

Station	CHLa (ug/L)	TOXIN (ug/L)	TAXA	Station	CHLa (ug/L)	TOXIN (ug/L)	TAXA
FEBIN	NS			L001	41.1		
FEBOUT	NS			L004	10.8		
KISSR0.0	58.8	BDL	<i>Microcys</i>	L006	7.1		
L005	60.6	0.3	<i>Micro/Dolic</i>	L007	5.7		
LZ2	57.5	BDL	<i>Micro/Dolic</i>	L008	9.2		
KBARSE	43.2			LZ30	6.2	BDL	<i>Microcys</i>
RITTAE2	37.6	BDL	<i>Microcys</i>	LZ40	7.7		
PELBAY3	13.0			CLV10A	9.0	BDL	<i>Microcys</i>
POLE3S	40.7			NCENTER	30.4		
LZ25A	20.4						
PALMOUT	37.8	BDL	<i>Microcys</i>	S308C	26.3	BDL	<i>Microcys</i>
PALMOUT1	39.1			S77	59.4		
PALMOUT2	19.2						
PALMOUT3	9.6						
POLESOUT	84.3	0.4	<i>Micro/Dolic</i>				
POLESOUT1	14.1						
POLESOUT2	11.5						
POLESOUT3	10.6						
EASTSHORE	22.4						
NES135	28.2						
NES191	39.4						

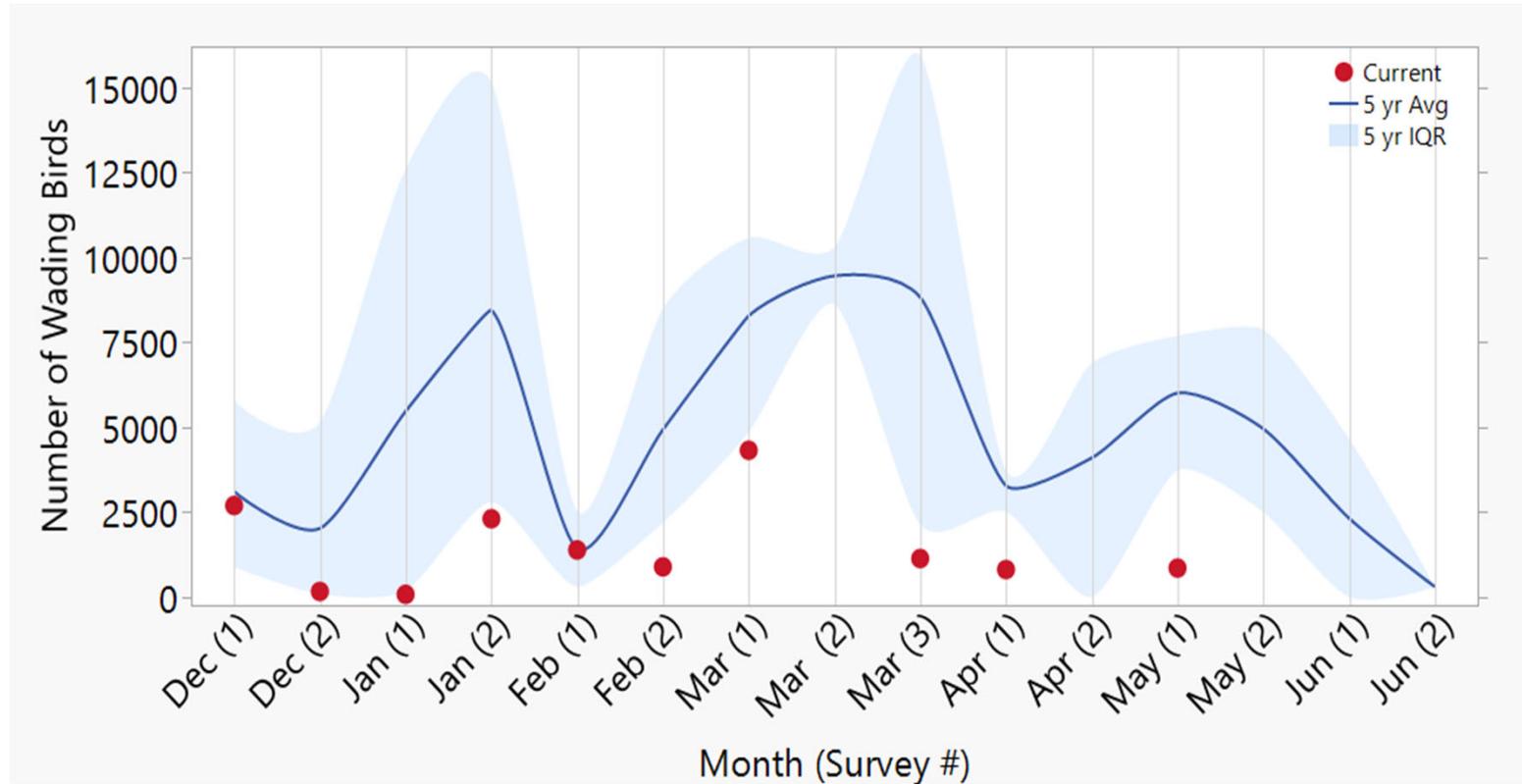
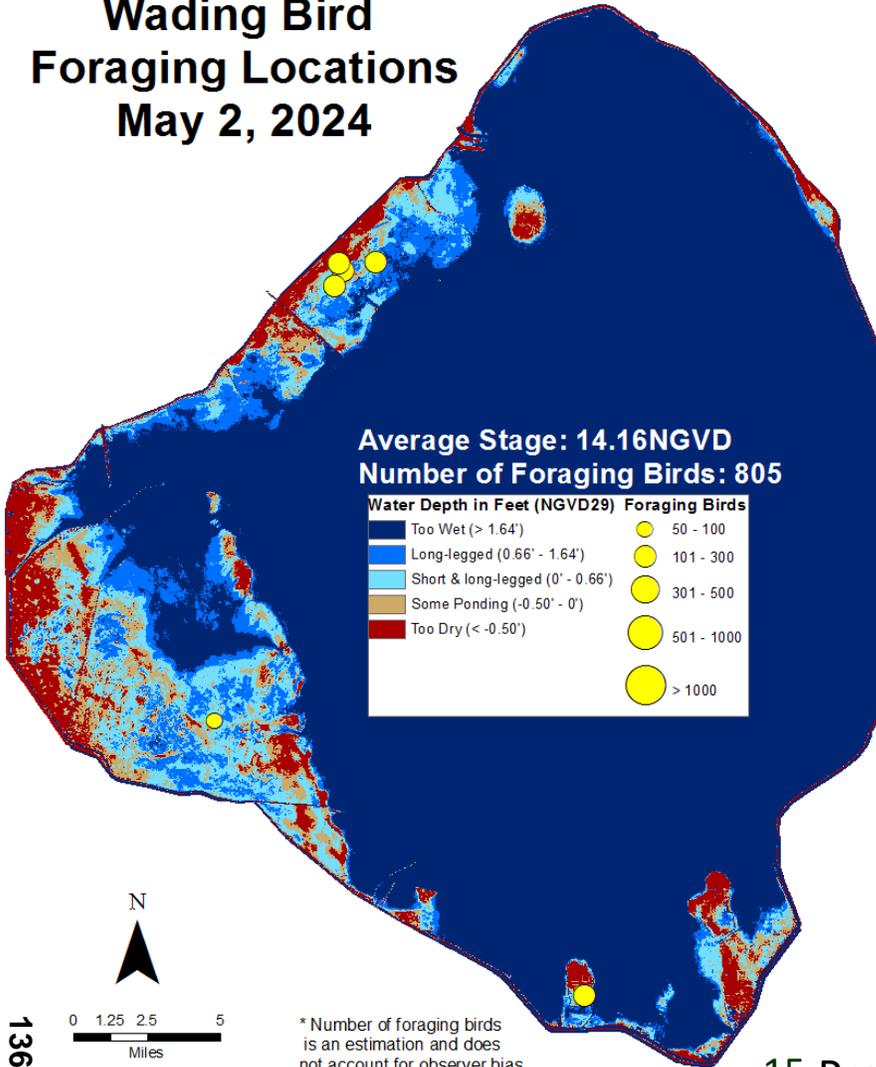
- SFWMD considers >40 µg/L Chlorophyll *a* (Chla) an algal bloom
 - BDL – Below Detectable Limit of 0.25 µg/L
 - ND – No Dominant taxa
 - P – Pending (white squares)
 - NS – Not Sampled
 - Station bold font – crew observed possible BGA
 - Chlorophyll *a* analyzed by SFWMD
 - Toxin and Taxa analyzed by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



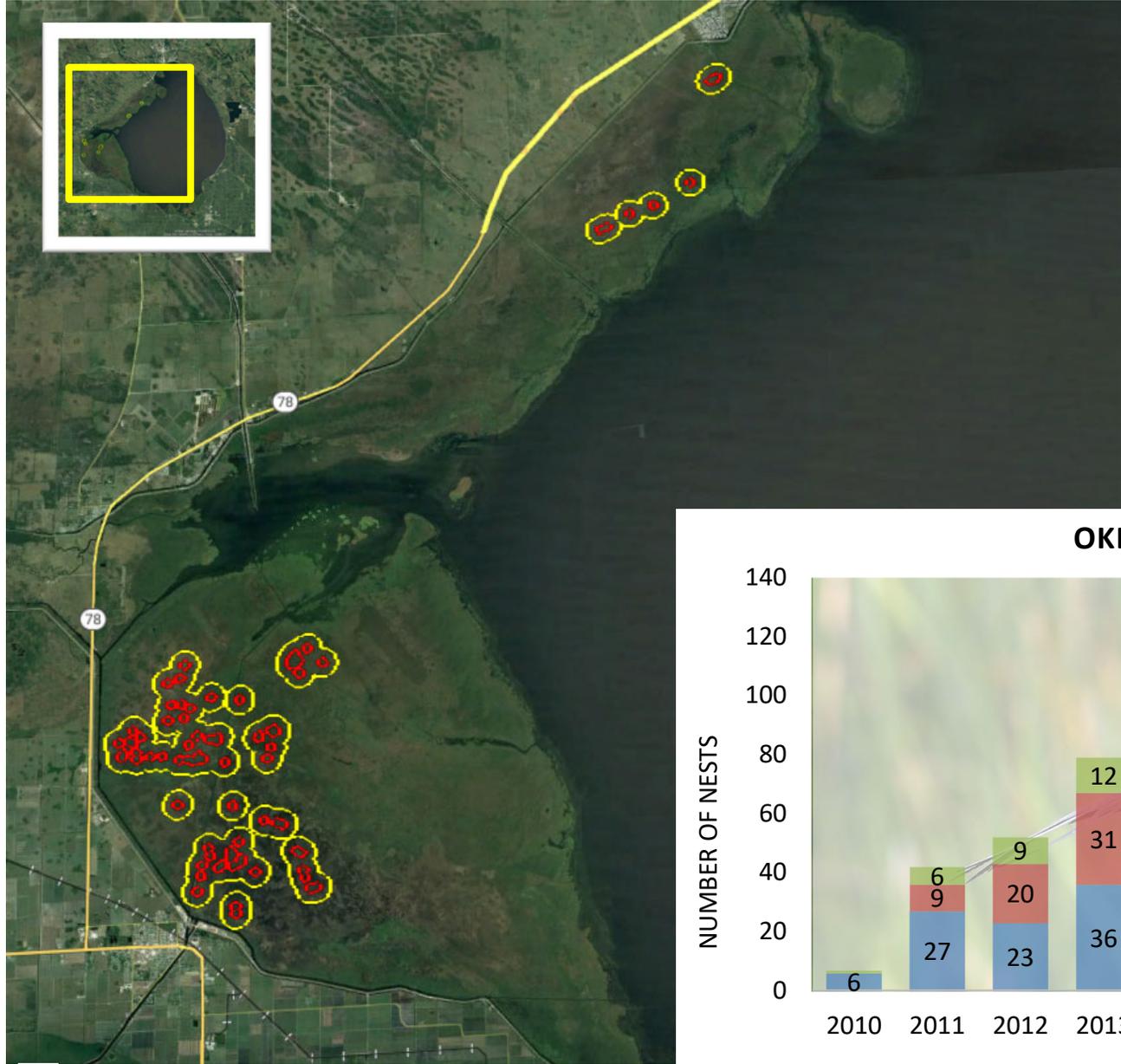


Lake Okeechobee Foraging Wading Birds

Wading Bird
Foraging Locations
May 2, 2024

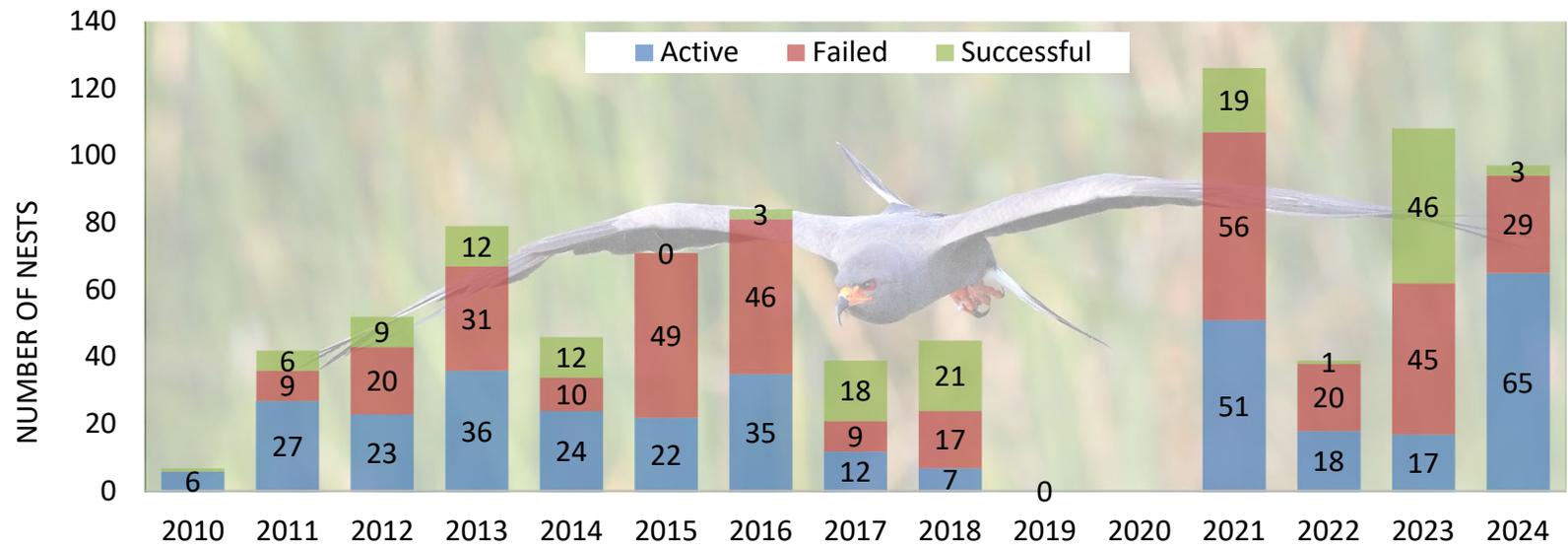


* Number of foraging birds is an estimation and does not account for observer bias

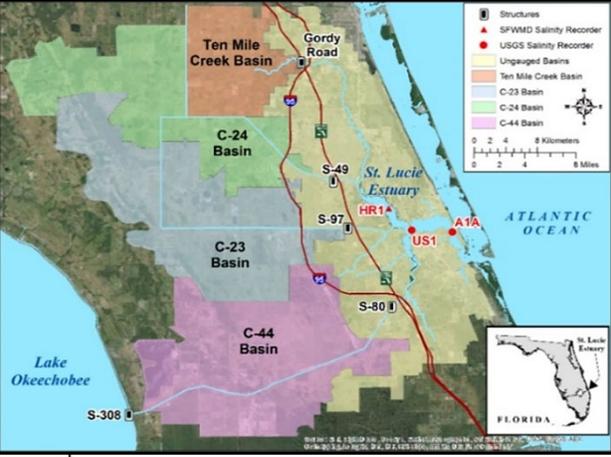


Lake Okeechobee Snail Kite Nesting

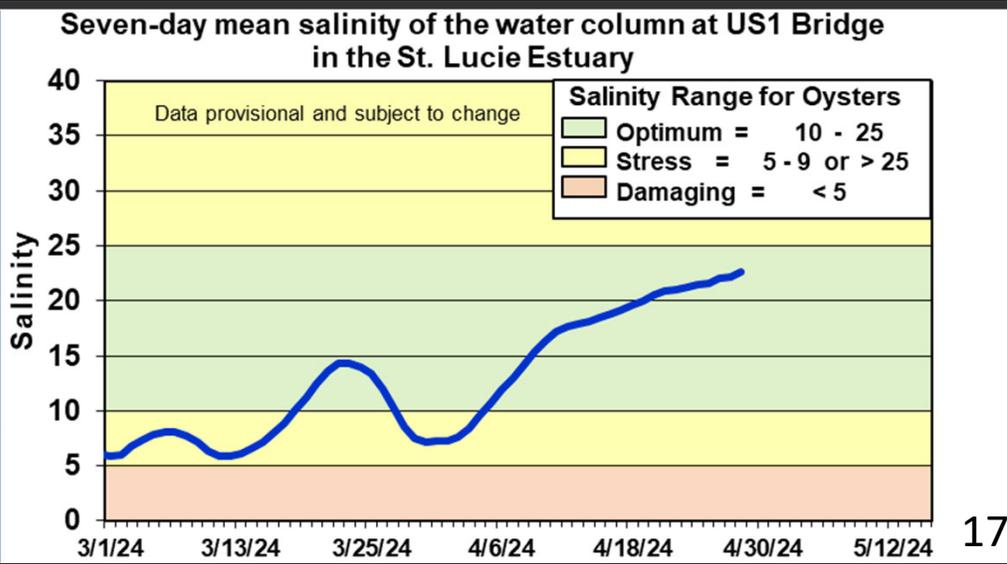
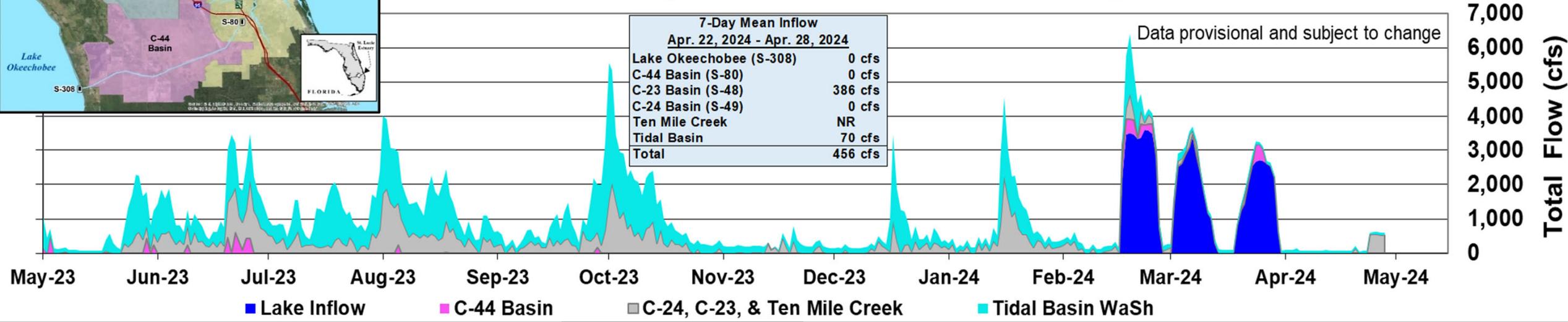
OKEECHOBEE SNAIL KITE NESTING LATE APRIL



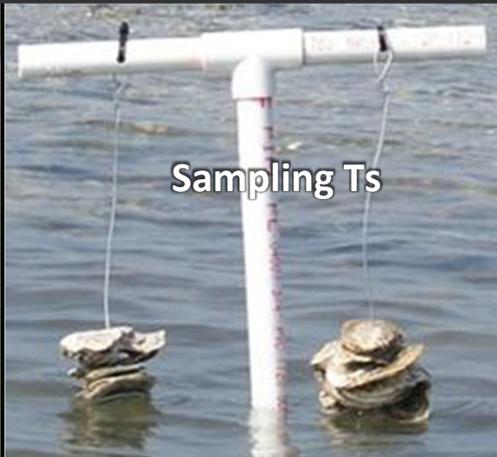
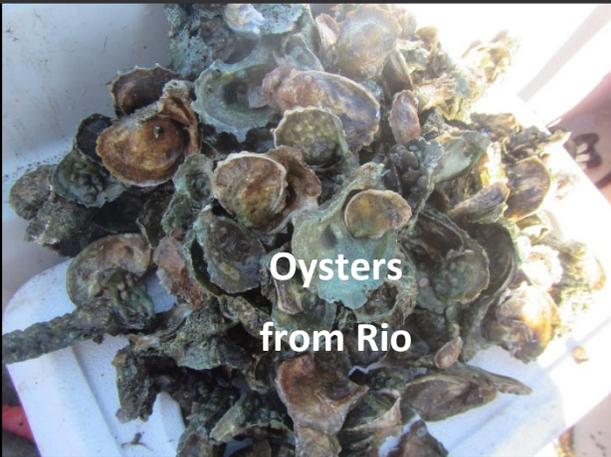
St. Lucie Inflows and Salinity Conditions



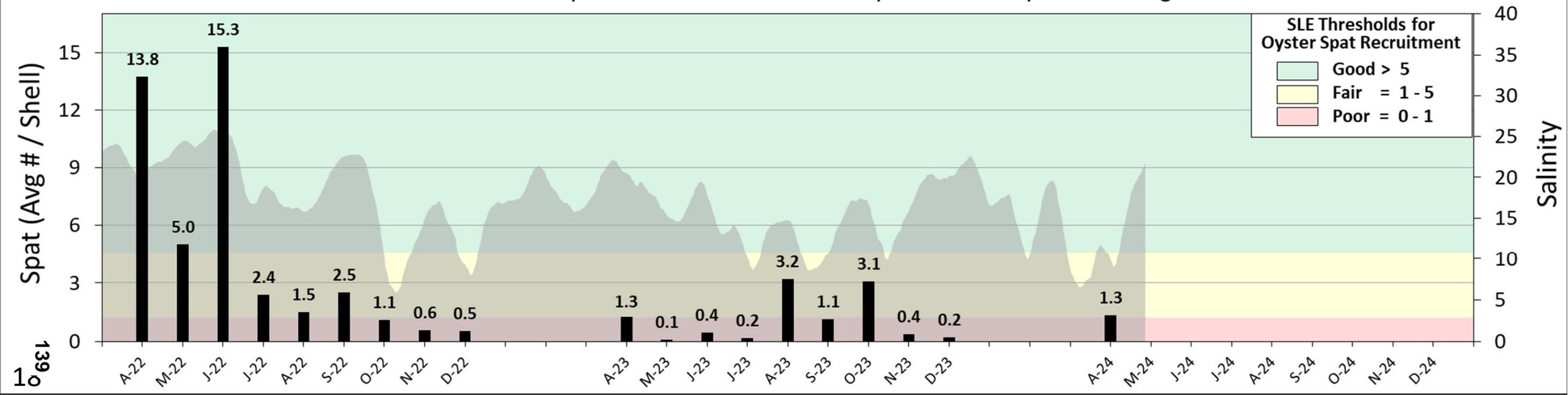
Total Daily Inflow into the St. Lucie Estuary



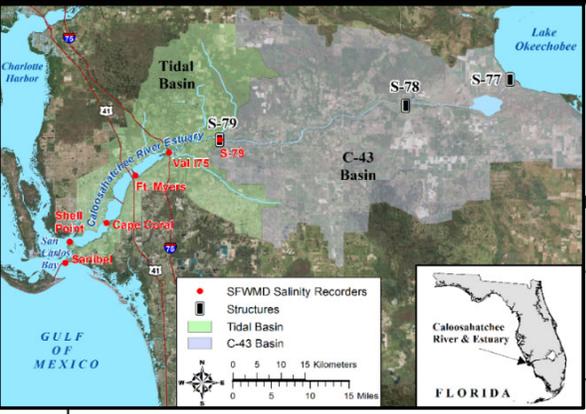
St. Lucie Estuary – Oyster Recruitment



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



Caloosahatchee Inflows and Salinity Conditions

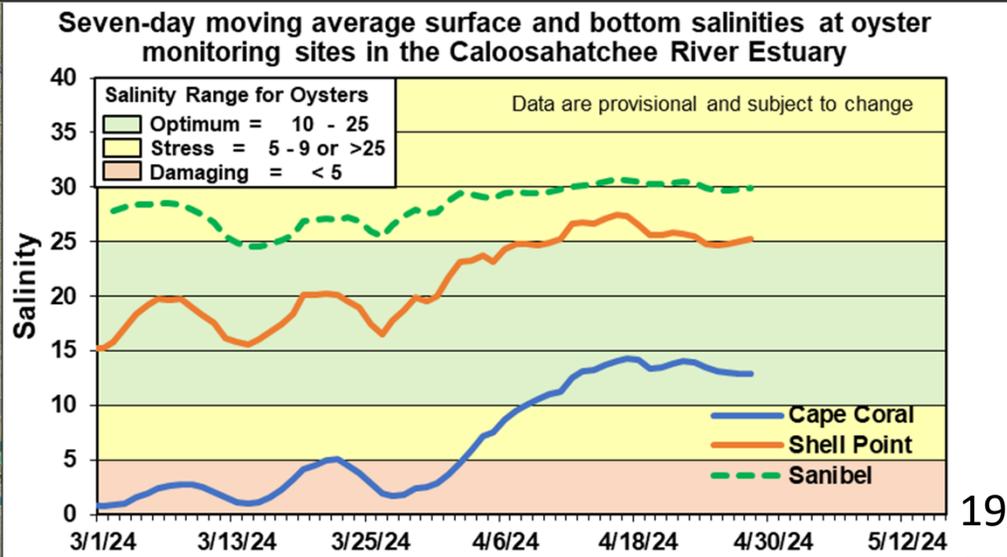
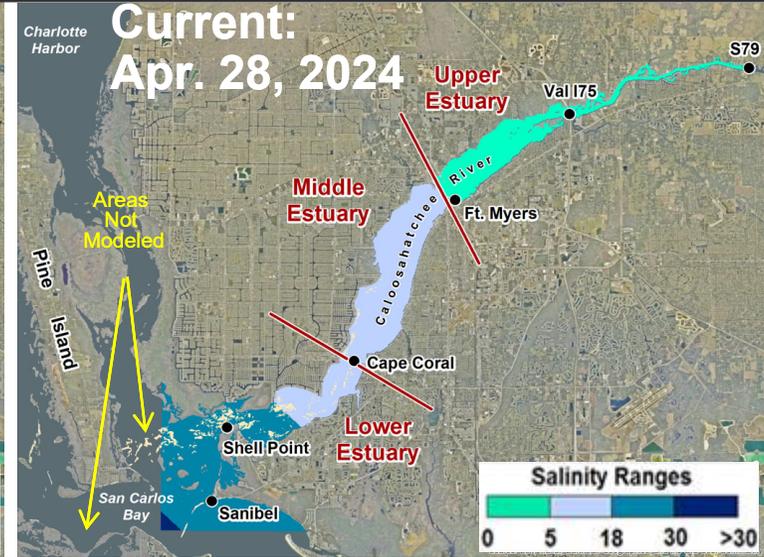
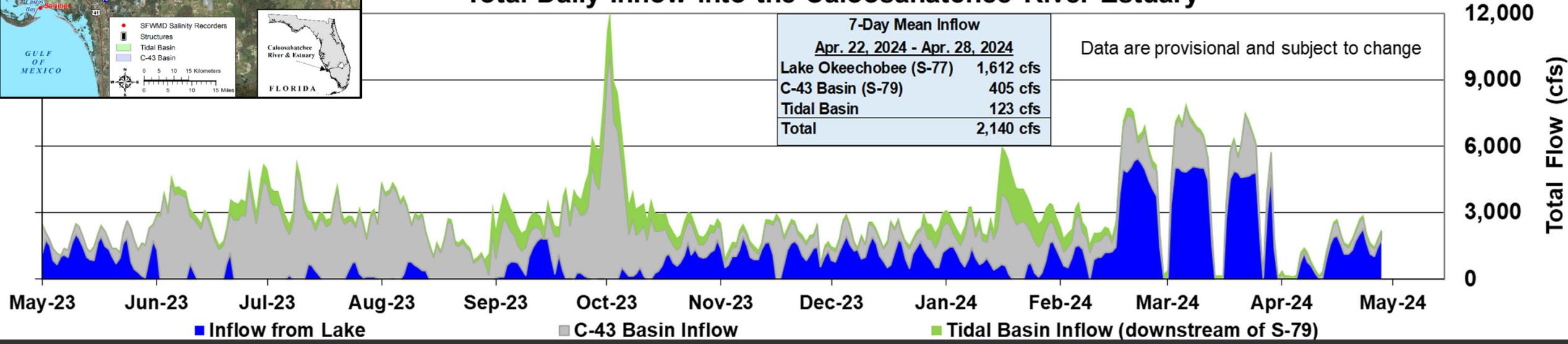


Total Daily Inflow into the Caloosahatchee River Estuary

7-Day Mean Inflow
Apr. 22, 2024 - Apr. 28, 2024

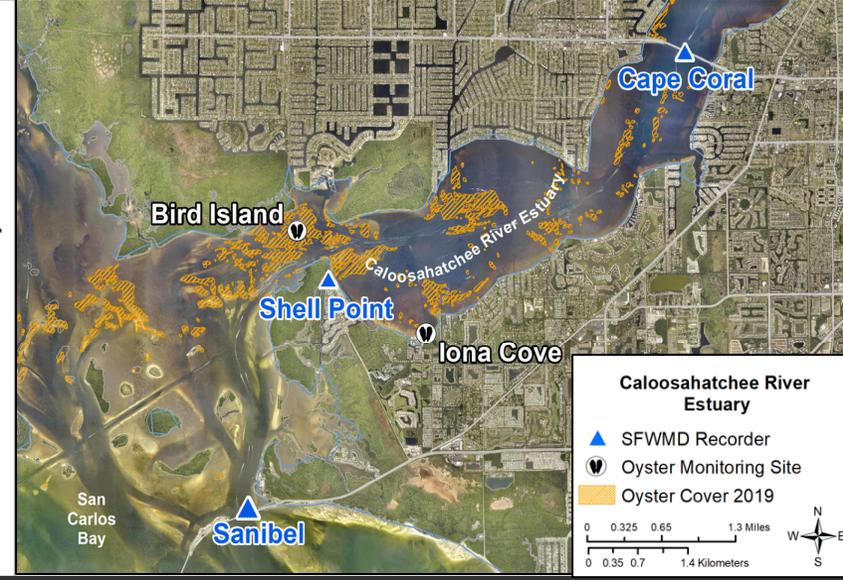
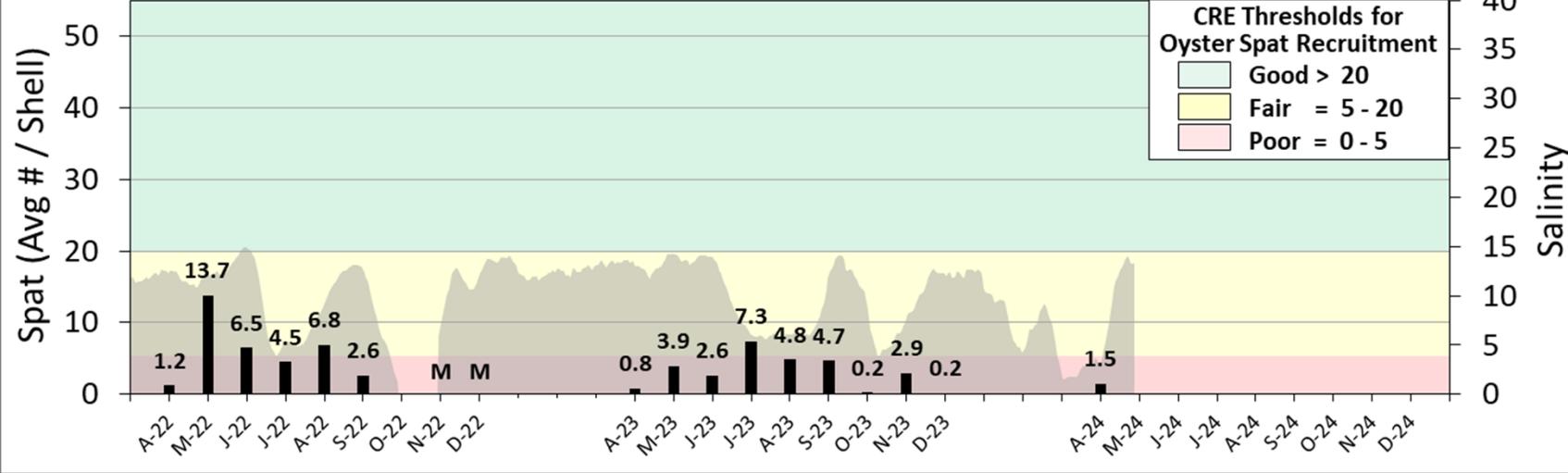
Lake Okeechobee (S-77)	1,612 cfs
C-43 Basin (S-79)	405 cfs
Tidal Basin	123 cfs
Total	2,140 cfs

Data are provisional and subject to change

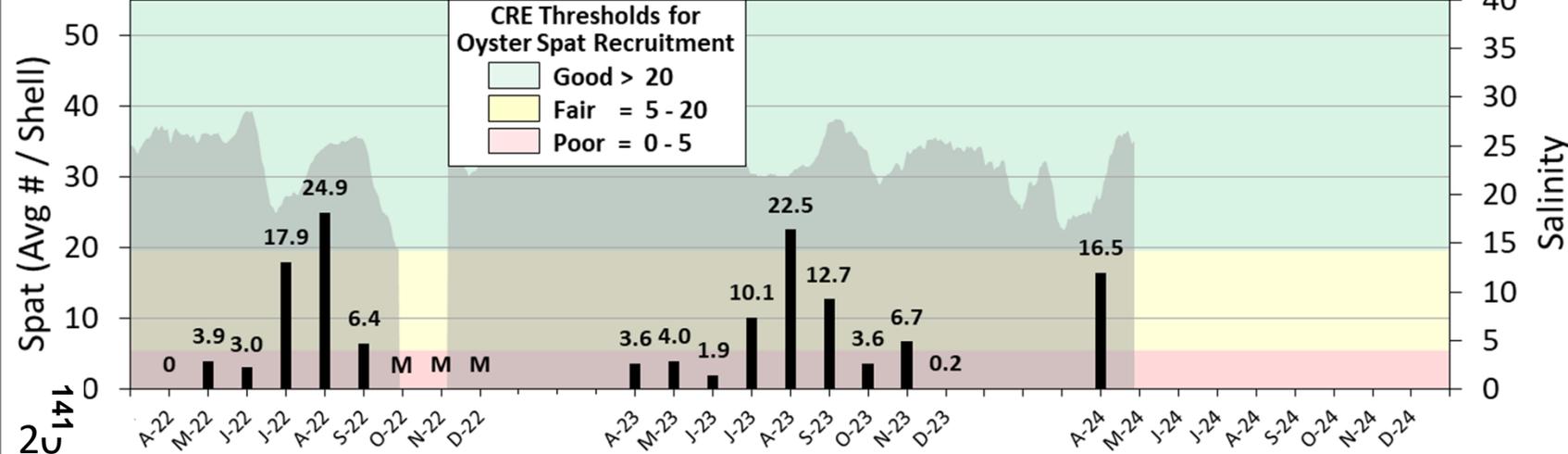


Caloosahatchee River Estuary – Oyster Recruitment

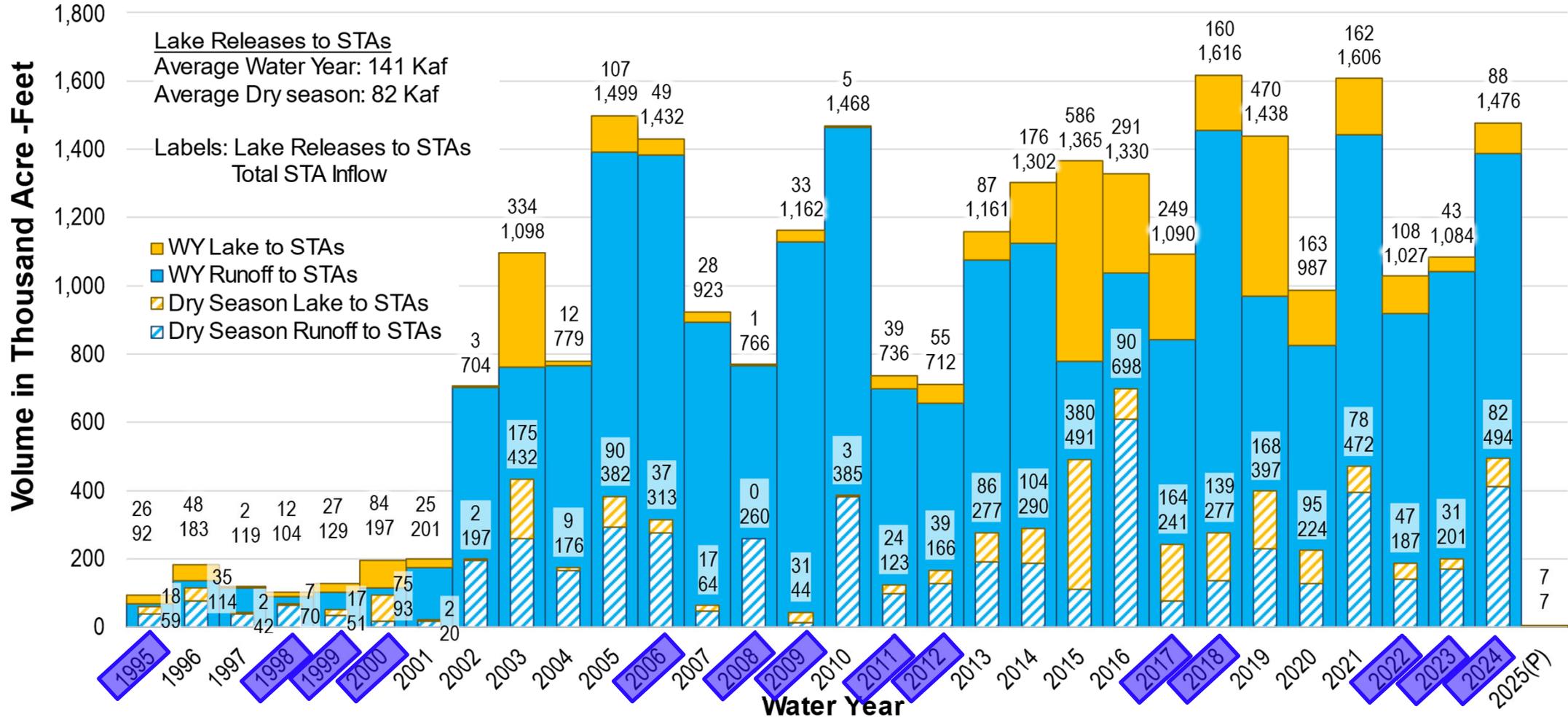
2022 - 2024 Iona Cove Oyster Recruitment and 14-Day Mean Salinity at Cape Coral



2022 - 2024 Bird Island Oyster Recruitment and 14-Day Mean Salinity at Shell Point



Total STA Inflow and Lake Releases to STAs

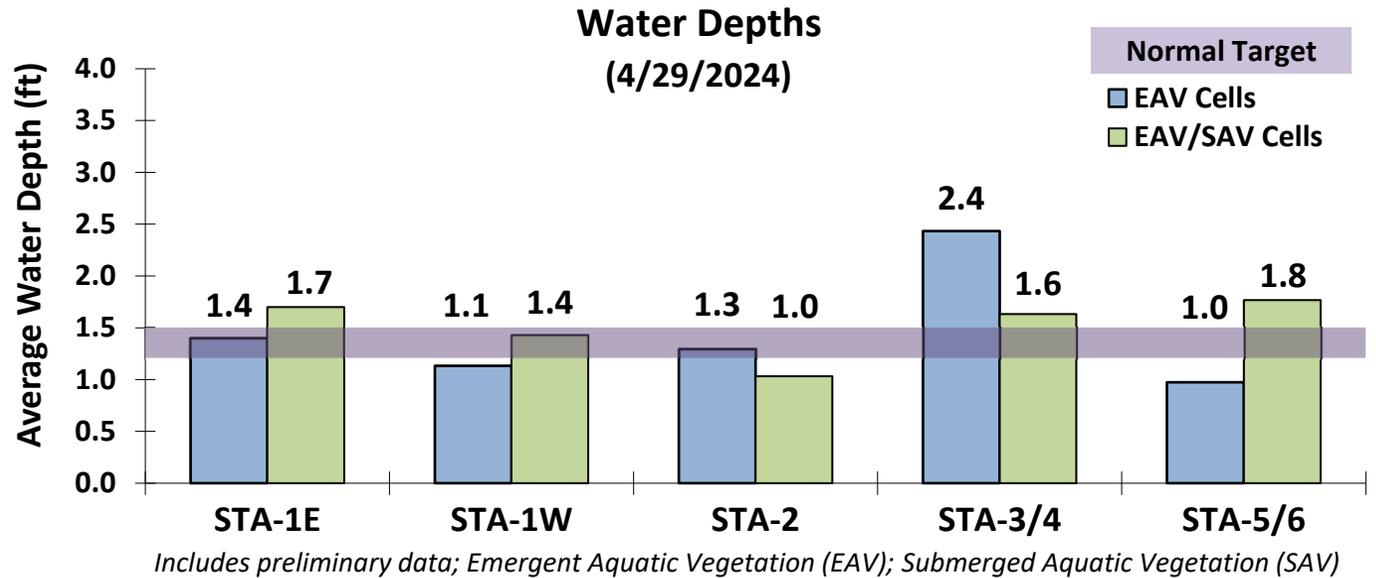
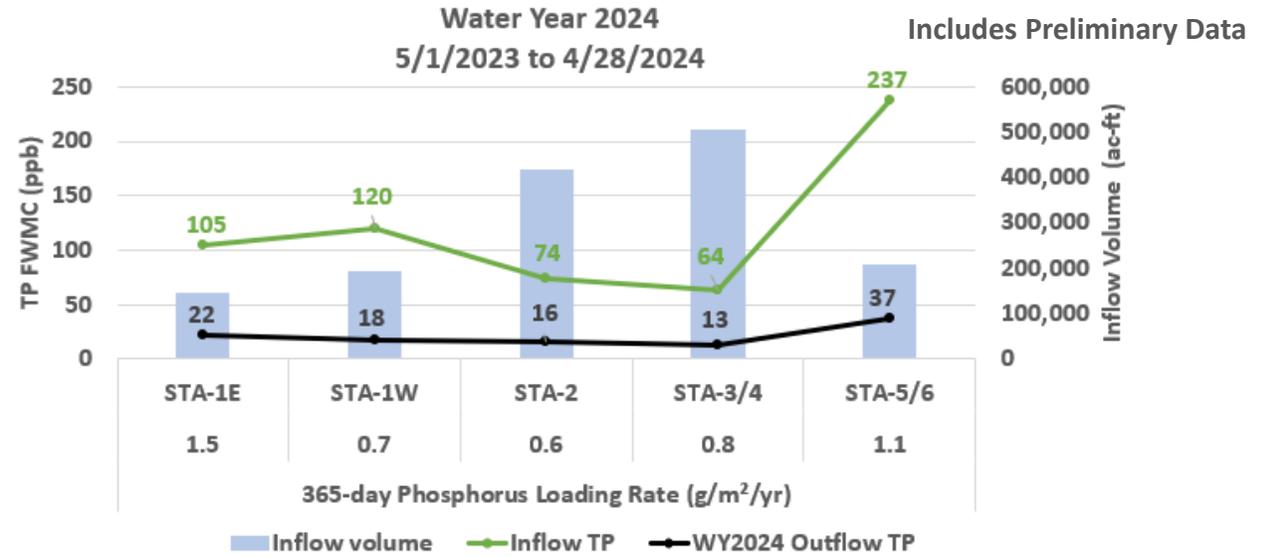


2025(p): Data from May 1, 2024 to May 5, 2024. Total STA Inflow includes inflows to STA -1E, STA-1W, STA-2, STA-3/4, and STA-5/6.

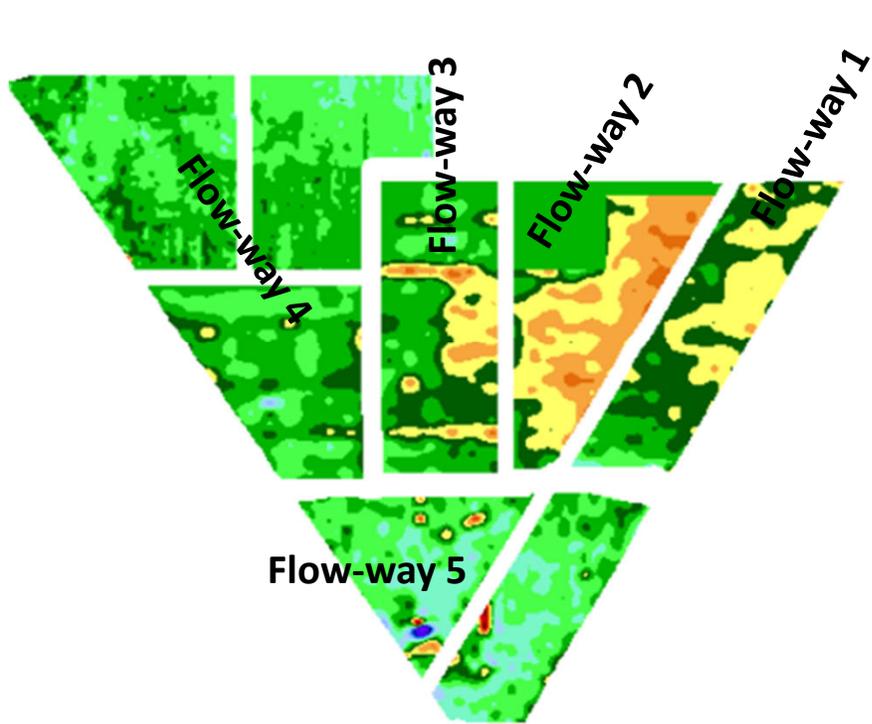
La Niña Water Years

Everglades Stormwater Treatment Areas - STAs

- STAs treated basin runoff and Lake Okeechobee releases in April
 - Total WY2024 inflows to STAs (5/1/2023 to 4/28/2024): ~1,473,000 ac-ft
 - Lake Okeechobee releases to FEBs/STAs in WY2024: ~82,000 ac-ft
- Extensive vegetation management activities underway to address stressed and highly stressed vegetation in EAV cells
- Most treatment cells are at or near target water depth

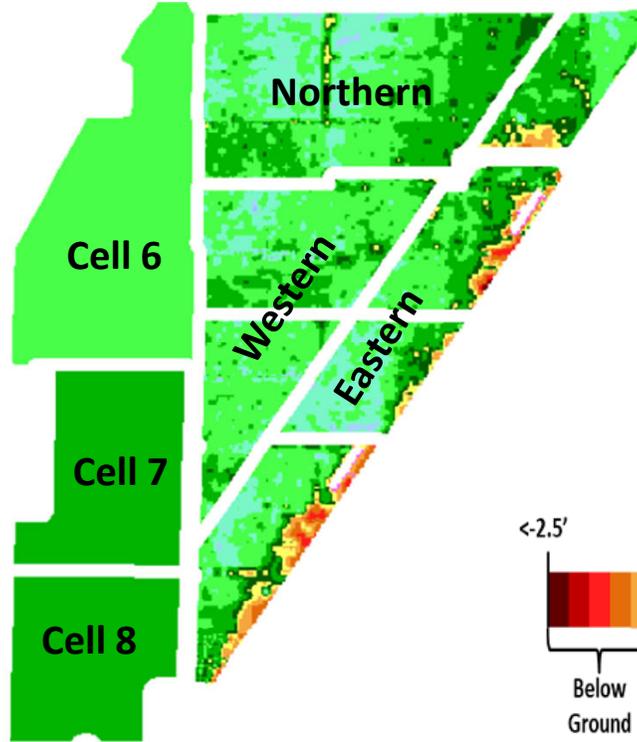


Stormwater Treatment Areas Water Depths



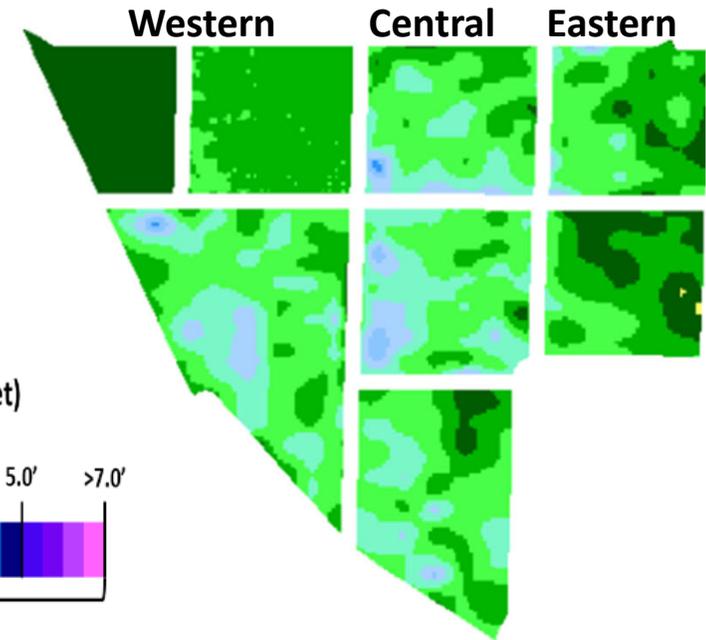
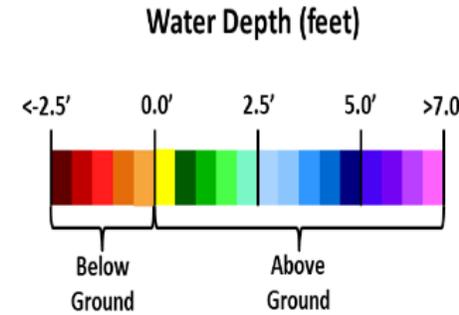
Flow-Way	Restrictions
1	On-line; upstream nuisance vegetation control; stage restriction for topographic survey; MBTA nesting
2	On-line; vegetation management; upstream nuisance vegetation control
3	On-line; upstream nuisance vegetation control
4	On-line; vegetation management; upstream nuisance vegetation control
5	On-line; upstream nuisance vegetation control

STA-2



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

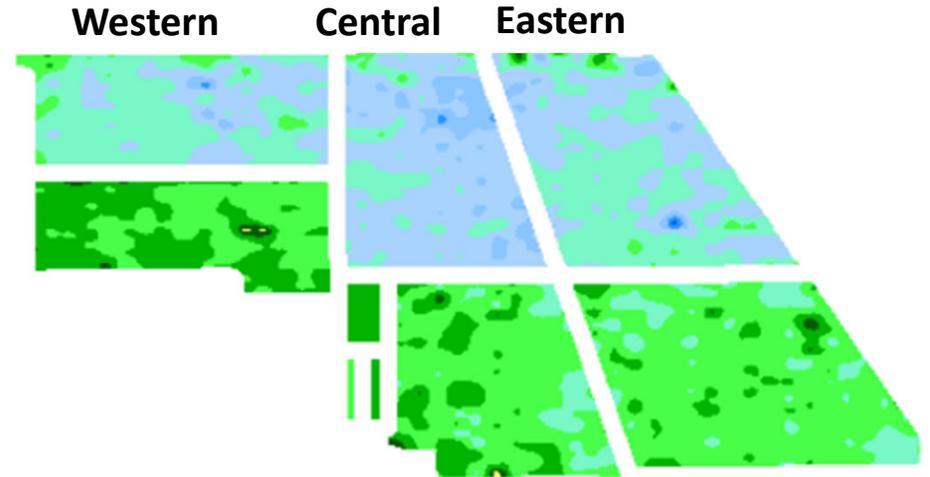
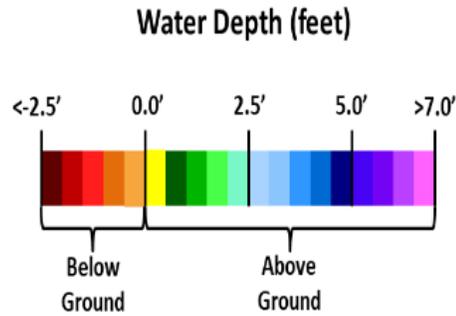
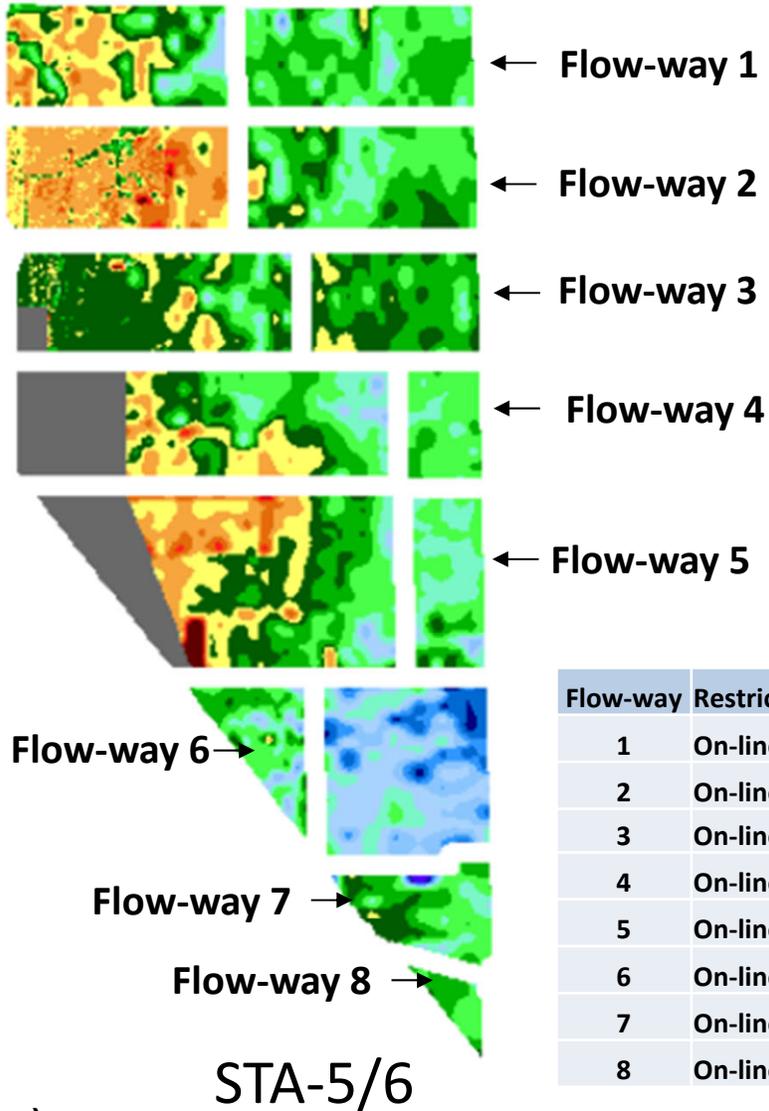
STA-1W



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



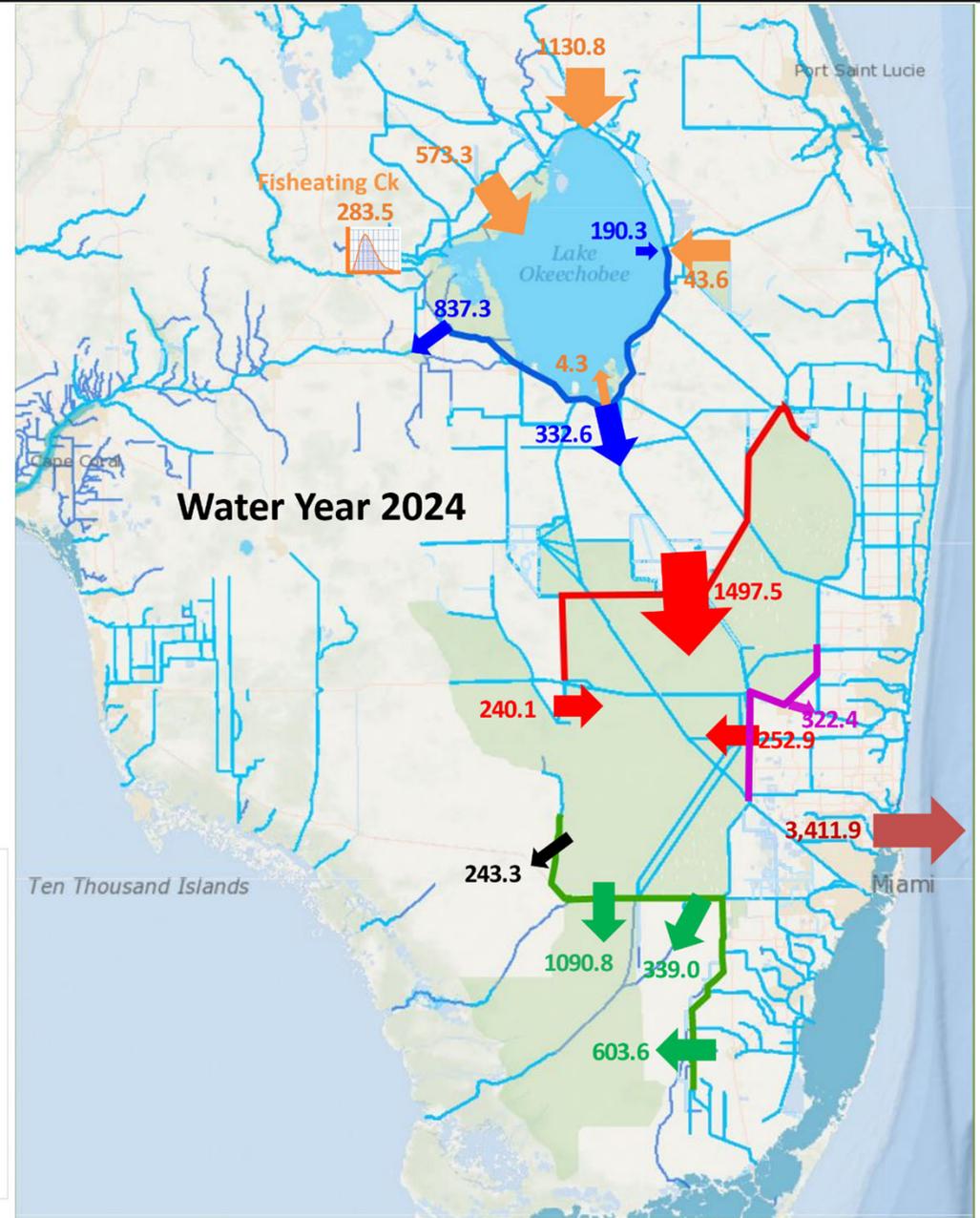
Flow-way	Restrictions
1	On-line
2	On-line
3	On-line
4	On-line
5	On-line
6	On-line
7	On-line
8	On-line

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

STA-3/4

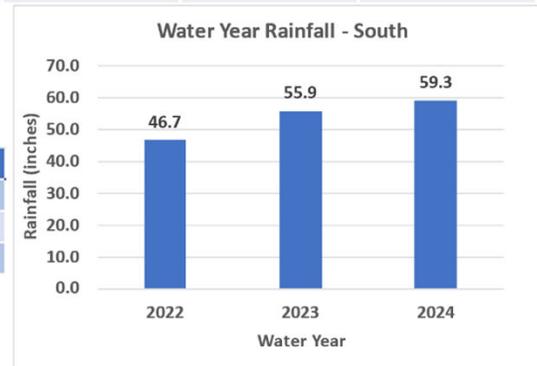
**SFWMD –Volumes Flowing
Down the System
for Water Years 2022, 2023 and 2024**
(volumes in 1,000 acre-feet)
(Water Year is May 1 through April 30)

Symbol	Description	Volume (1,000 acre-feet)		
		WYR 2022	WYR 2023	WYR 2024
	Lake Okeechobee Inflows	1523.3	2150.3	2035.4
	Lake Okeechobee Outflows	1376.6	1072.2	1360.2
	WCAs Inflows	1301.7	1468.6	1990.5
	ENP / Detention Cell Inflows	1471.1	1569.4	2033.4
	WCAs to East	26.9	29.6	322.4
	Flows to Intracoastal	1723.5	2610.1	3411.9

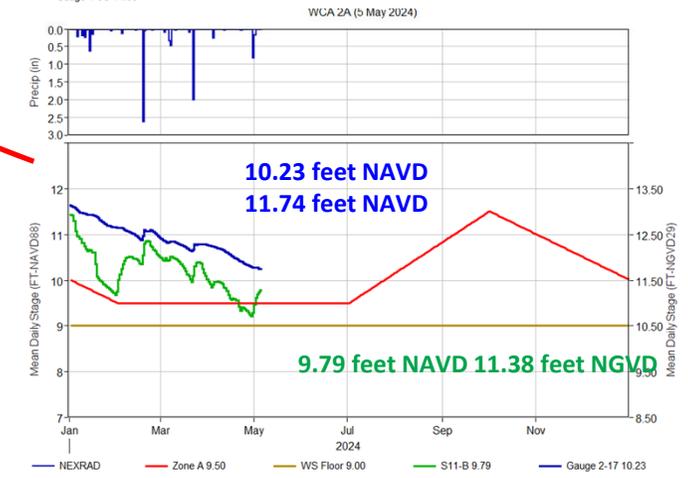
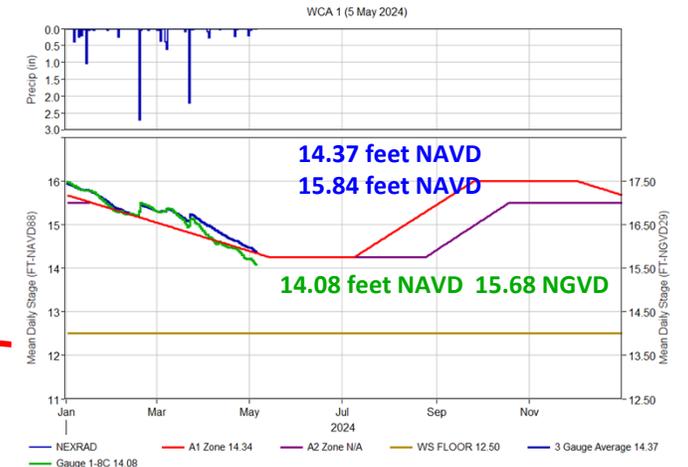
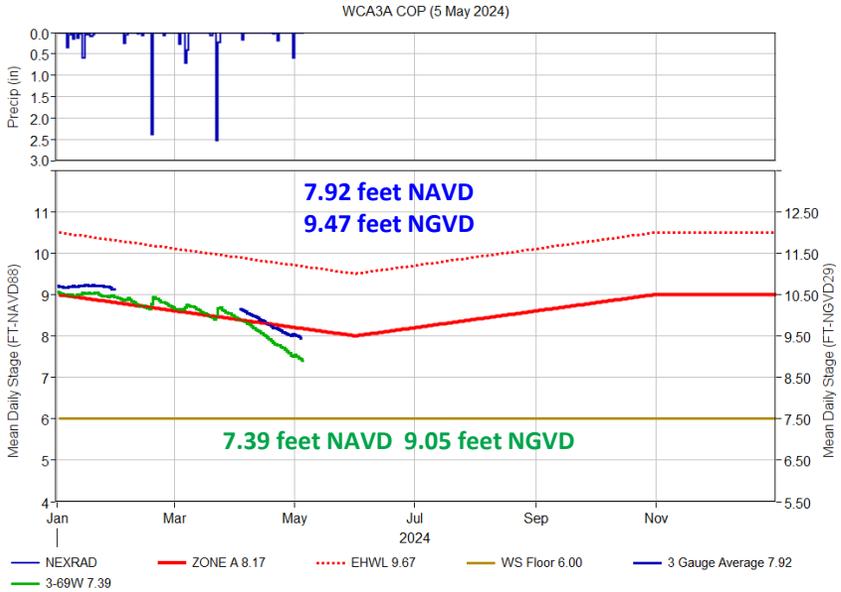
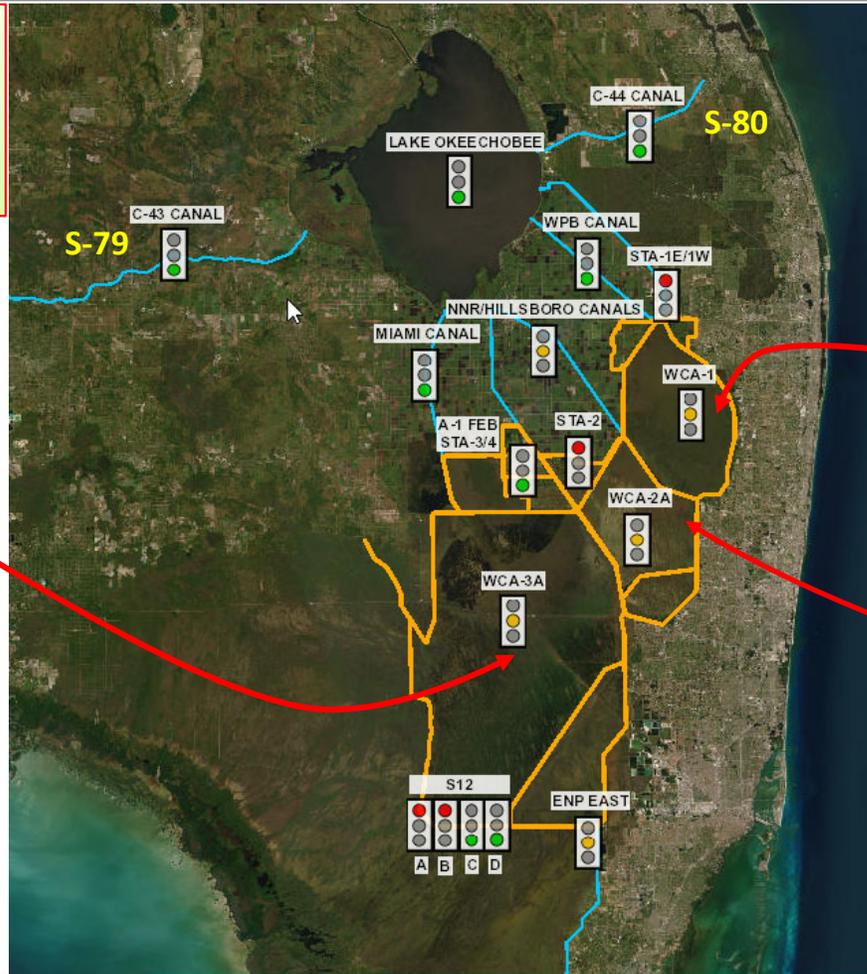


District-wide Rainfall

Water Year	Rainfall (inches)	Compared to Normal
2022	47.9	Below
2023	55.3	Above
2024	55.1	Above



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.

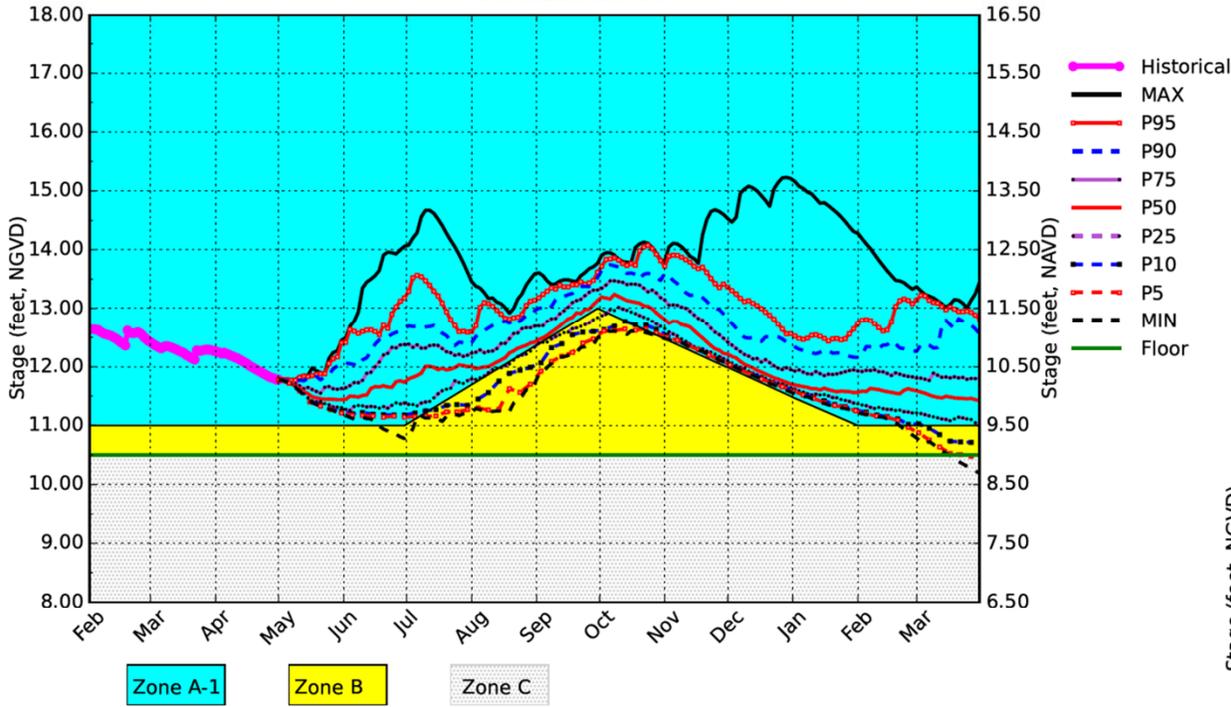


For this week, the Tamiami Trail Flow Formula calls for 1219 cfs releases from WCA-3A to NESRS. Current L-29 stage constraint is at 6.8 feet NAVD (8.3 feet NGVD). South Dade Conveyance System is stable. S-335 and S-338 are open. S-356 is pumping as needed. G-211 is open. S-332B and D are pumping as needed. S-176 is closed and S-177 is open. S-18C is open and S-197 is closed. LPG-2 stage at 8.5 SMA is below ground. S-357 is pumping as needed to maintain stages in the C-357 canal. S-199 and S-200 are secured due to CSSS constraints.

WCA-1 stage is below regulation schedule; WCA-2A stage is above regulation schedule; WCA-3A stage is below regulation schedule in Zone B. The WCA3A temporary operational planned deviation ended March 31. S-10s are closed. S11s are closed. S12A/B are closed, and S12C/D are open ~ 350 cfs. S-333 and S-333N are passing ~ 800 cfs. S-343 A and B closed. Interior structures to WCA-3A S-339 and S-340 are closed. WCA-1 releases to tide S-39 through Hillsboro Canal ended April 9th. WCA-2A reg releases through C-14 (S-38 and NNR (S-34E) ended around April 20th. WCA-3A to tide via S-151, S-31 into the C-6 canal and then S-26 also ended. South Miami-Dade agricultural drawdown was completed (S21A, S20F and S179 operations back to normal stage ranges).

WCA2A SFWMM May 2024 Position Analysis

Percentiles PA

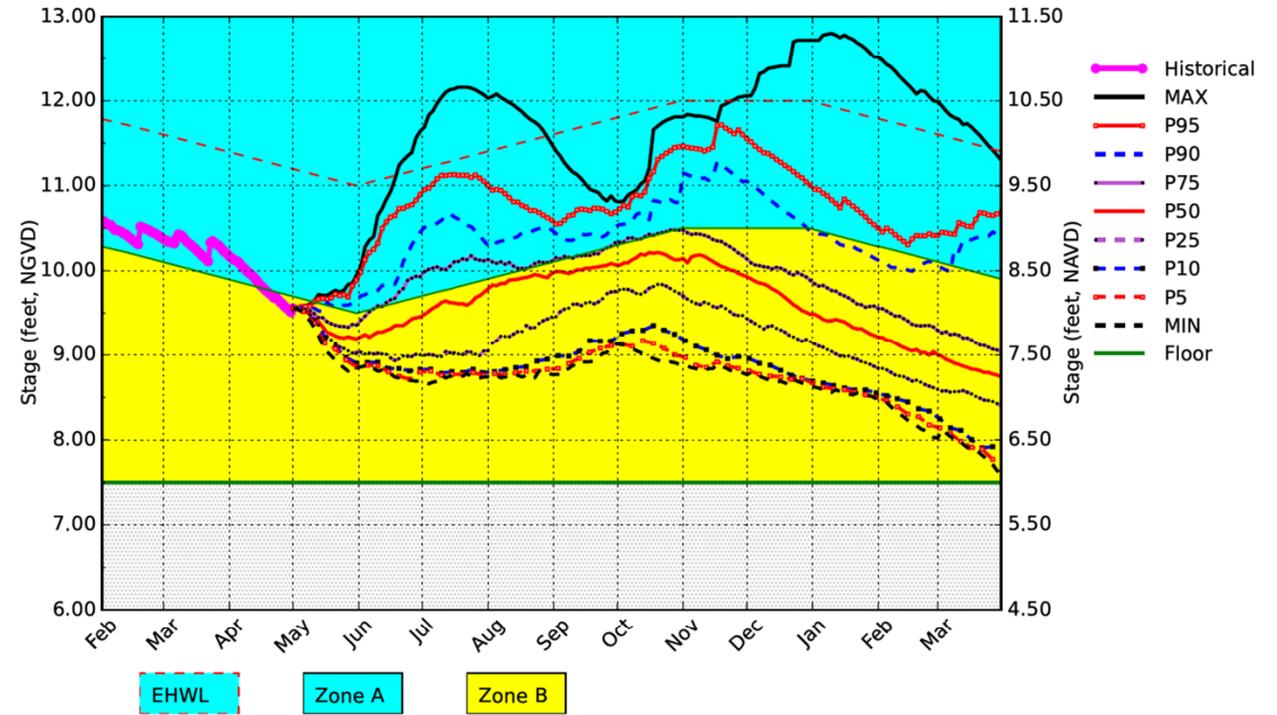


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(See assumptions on the Position Analysis Results website)

WCA3A SFWMM May 2024 Position Analysis

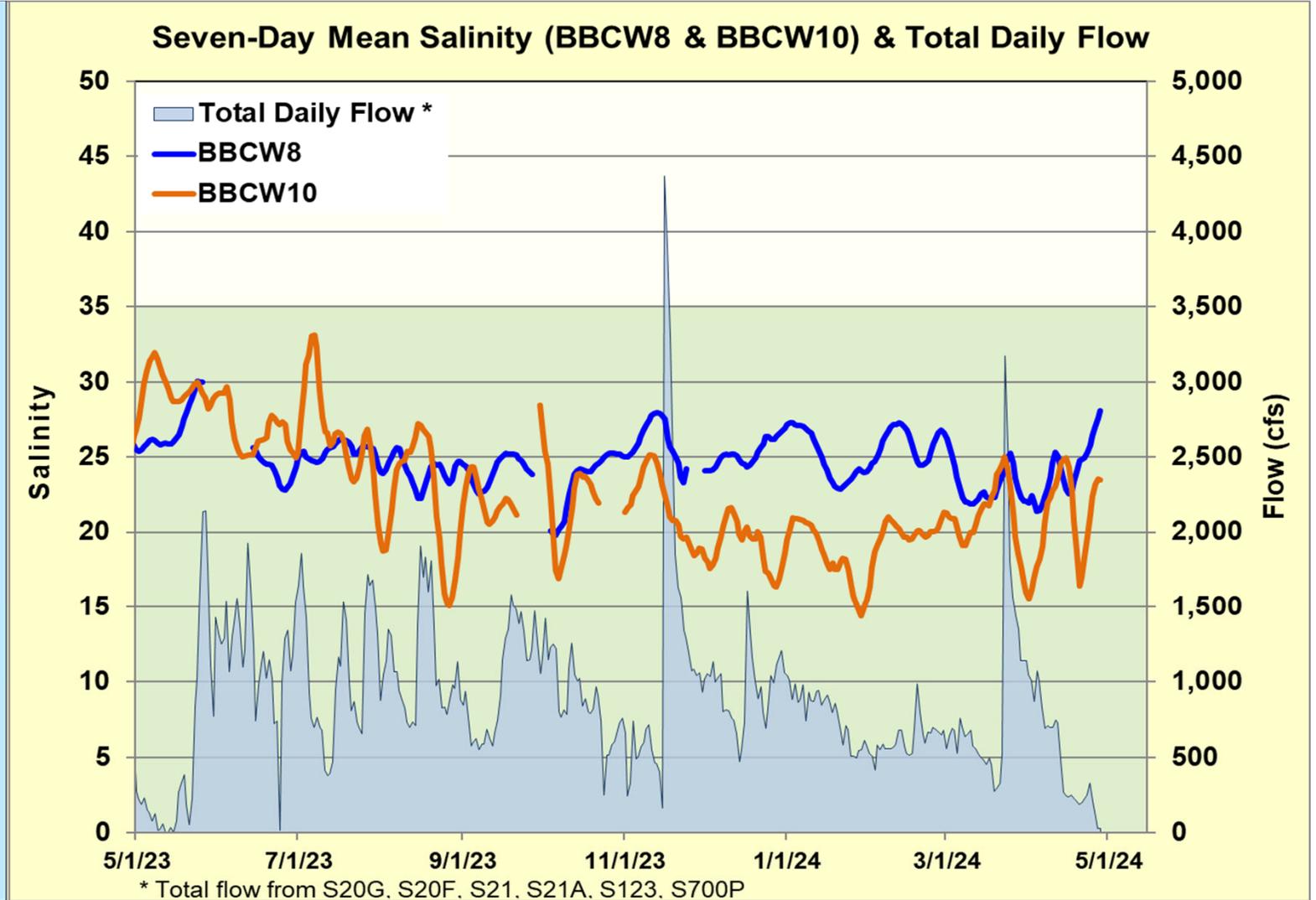
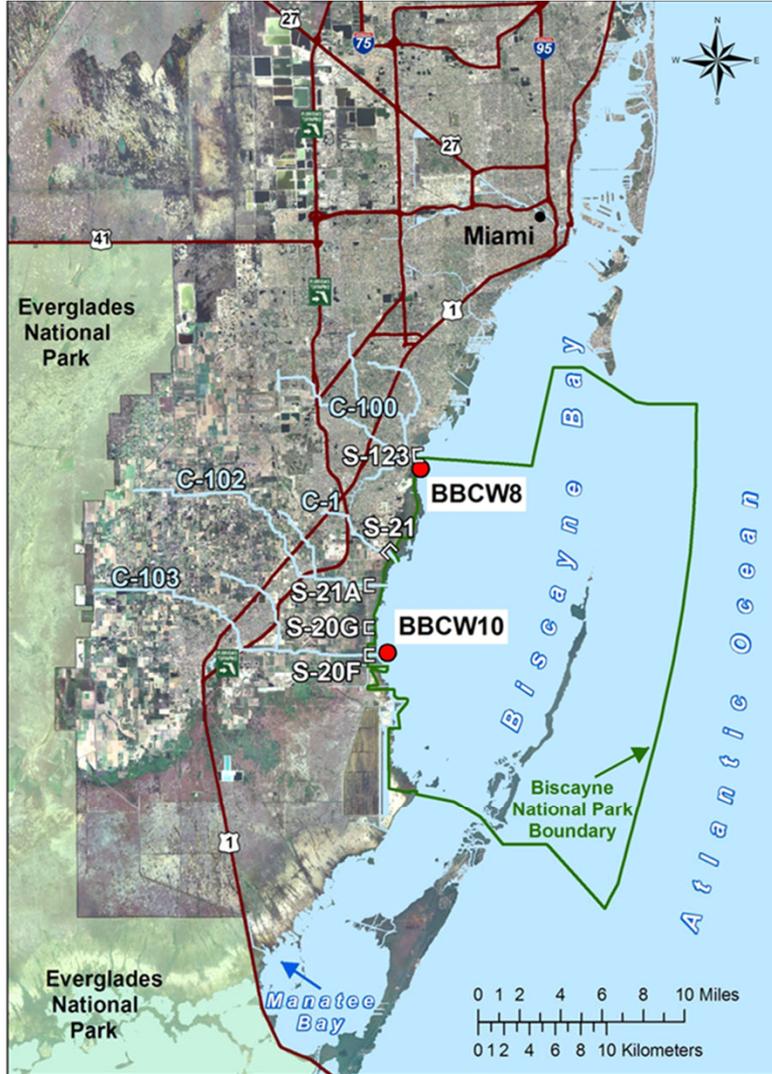
Percentiles PA



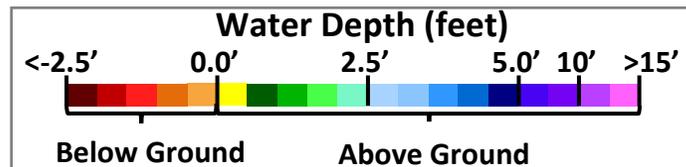
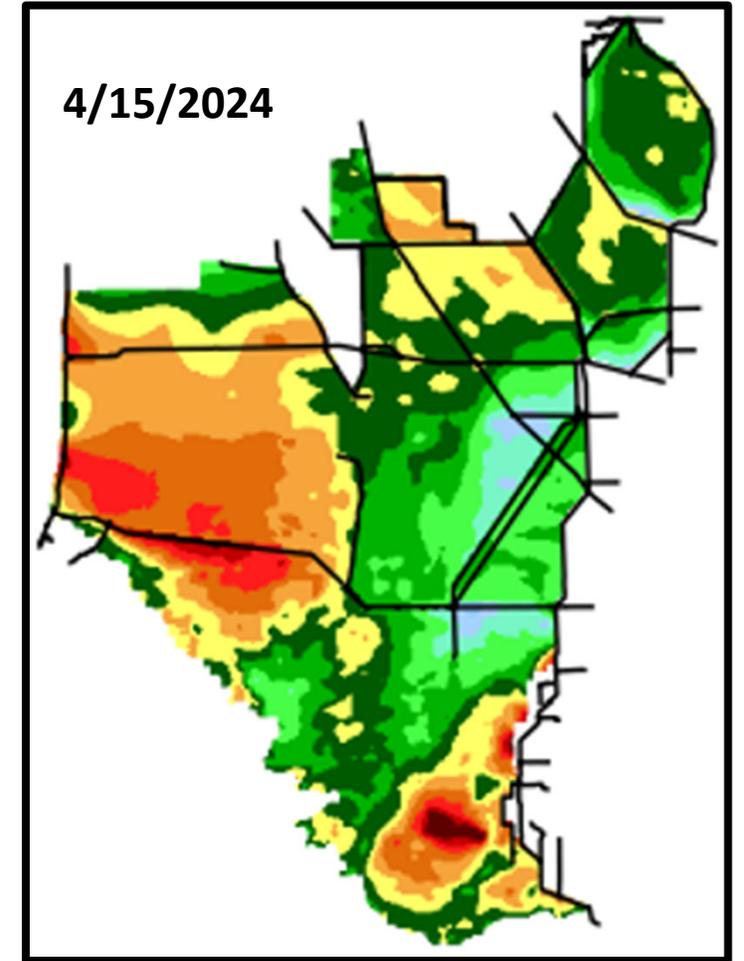
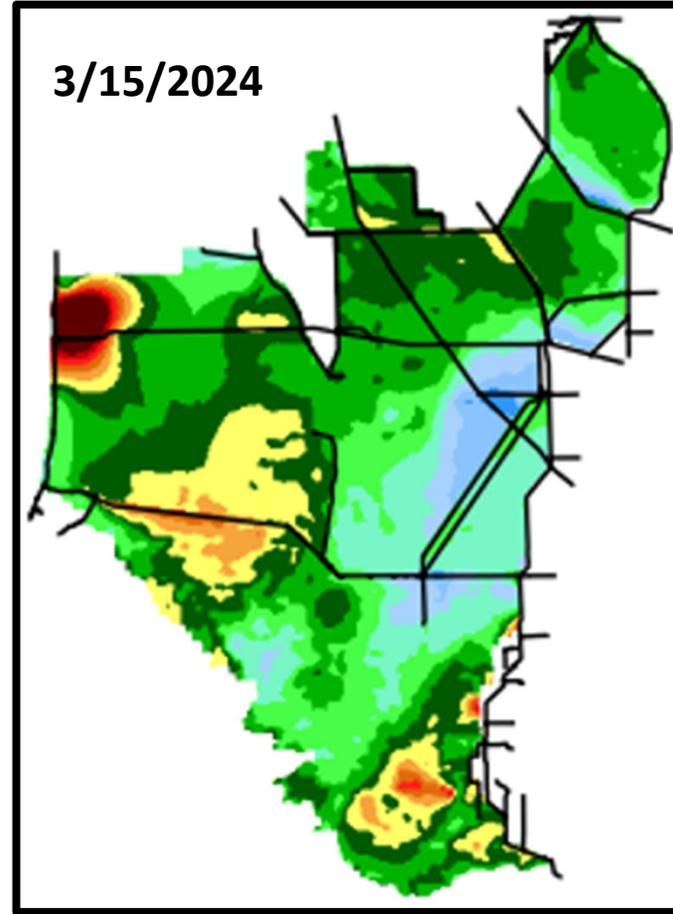
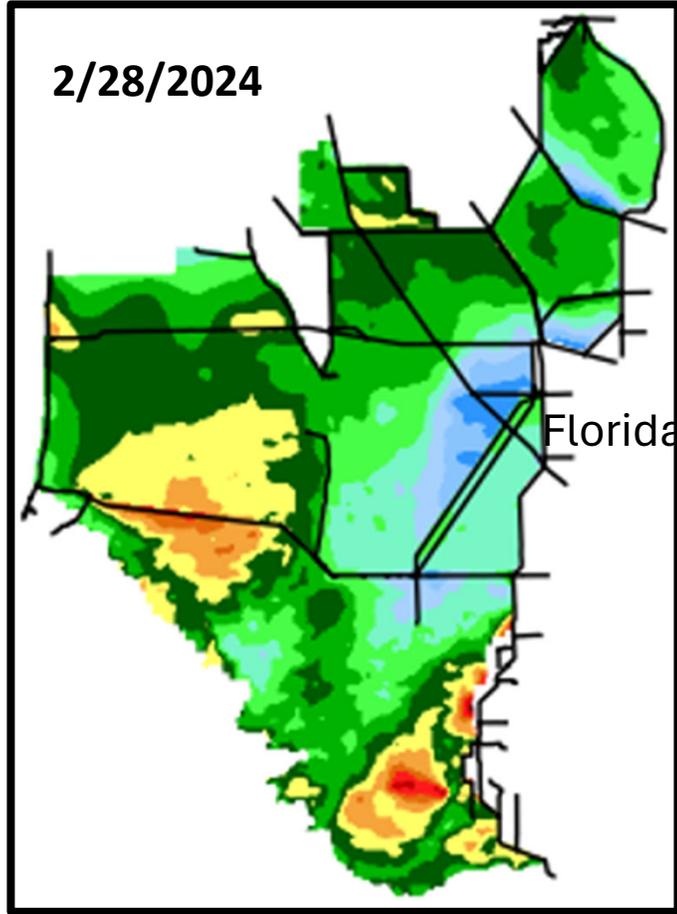
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(See assumptions on the Position Analysis Results website)

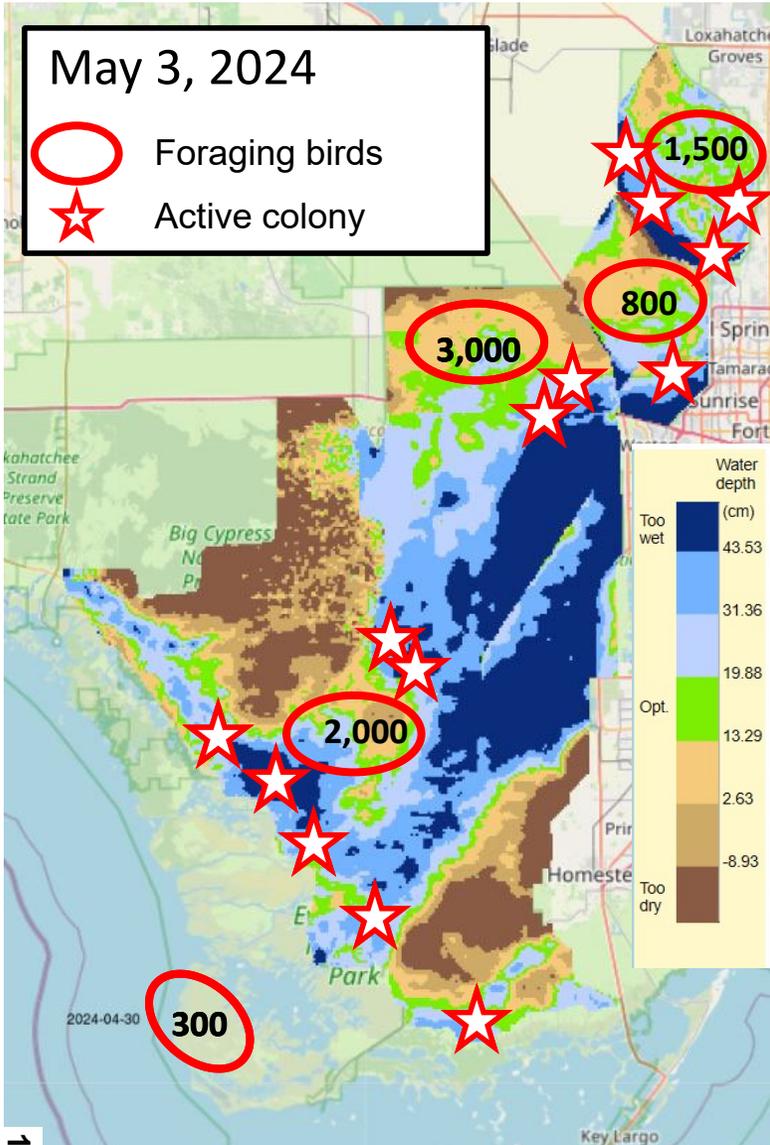
Biscayne Bay Salinity Conditions



Everglades Water Depths

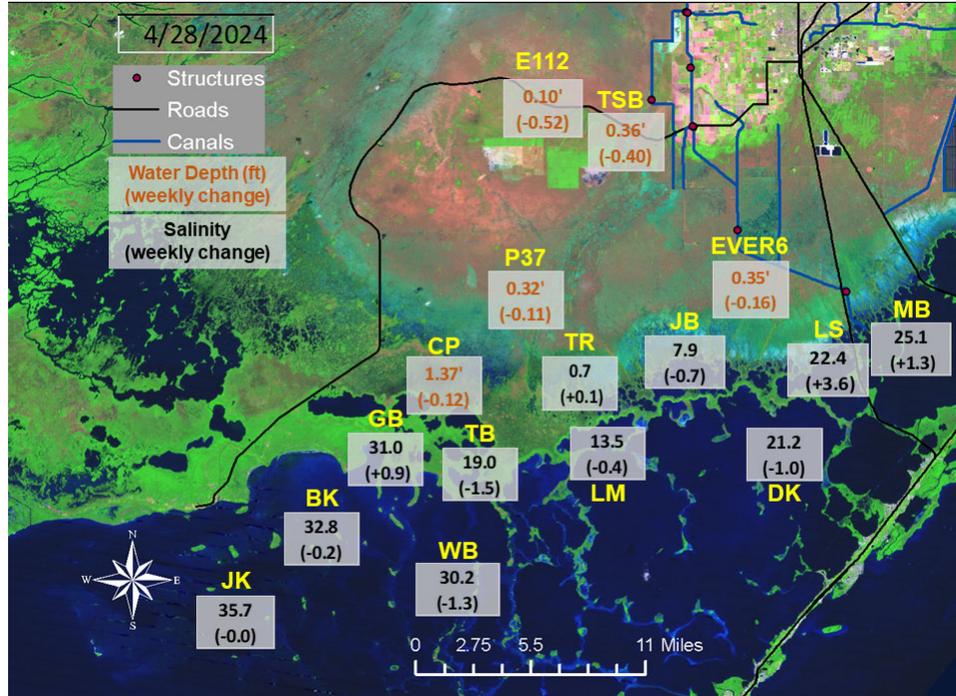


Wading Bird Foraging & Nesting



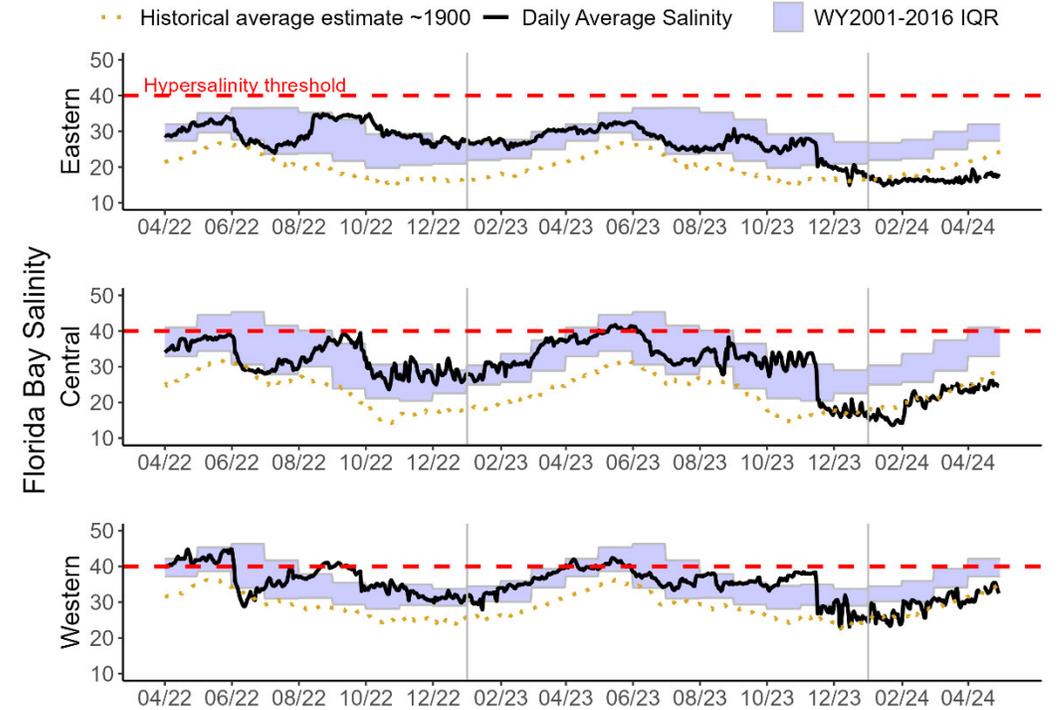
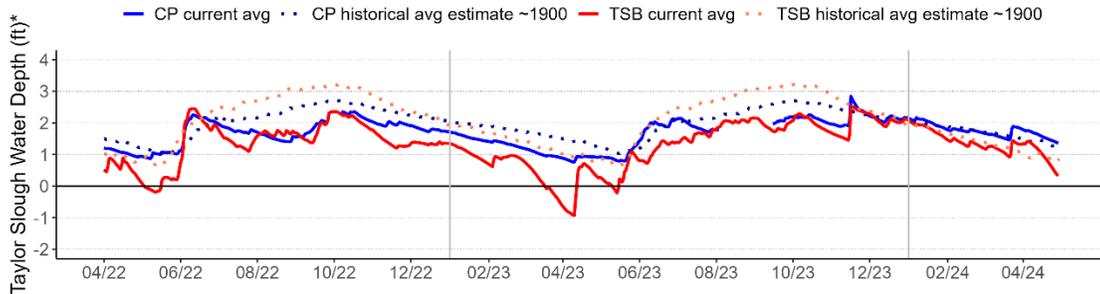
1. Nesting effort in general is limited. Currently ~10,000 White Ibis nests (10-year average: 32,000 nests)
2. Feeding conditions are gradually improving as water levels decline.
3. Following last month's abandonments, Wood Storks have re-nested (160 nests); however, these nests are likely to fail given it's so late in the season.
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 and could trigger a banner nesting event in 2025.

Florida Bay Salinity

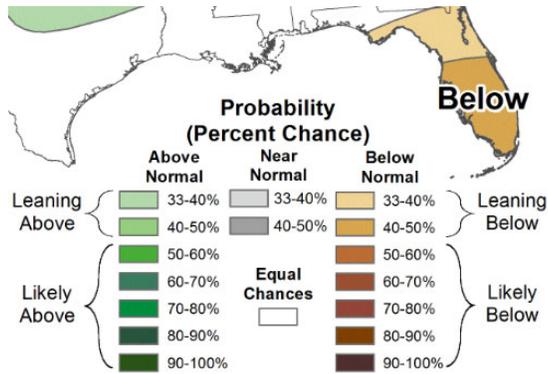


Taylor Slough Water Depths

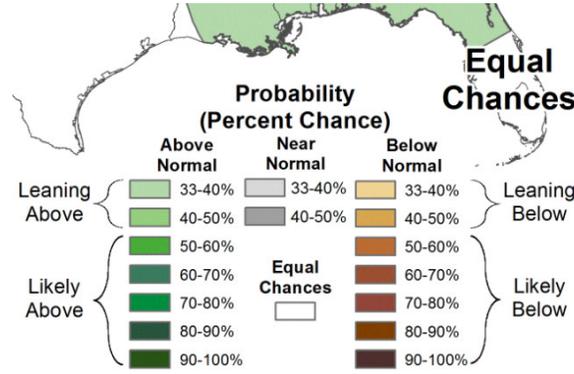
*note: calculated using ground surface elevations values (NAVD88) from EDEN



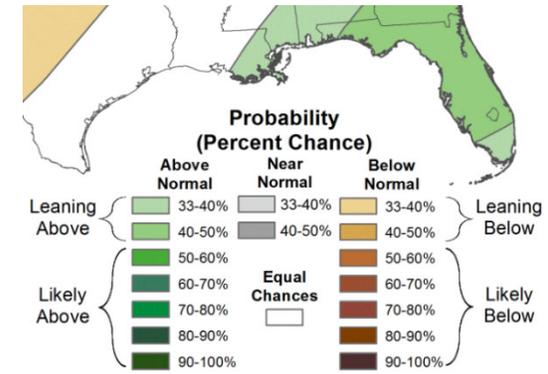
CPC Precipitation Outlook for South Florida



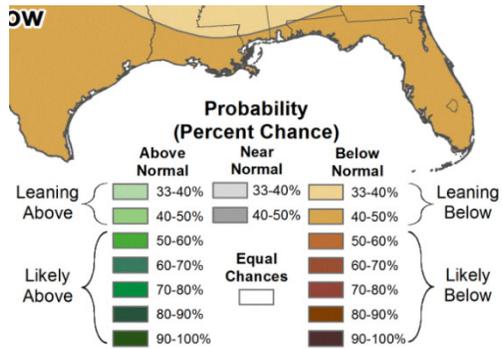
May 2024



May 2024 – Jul 2024



Aug 2024 – Oct 2024



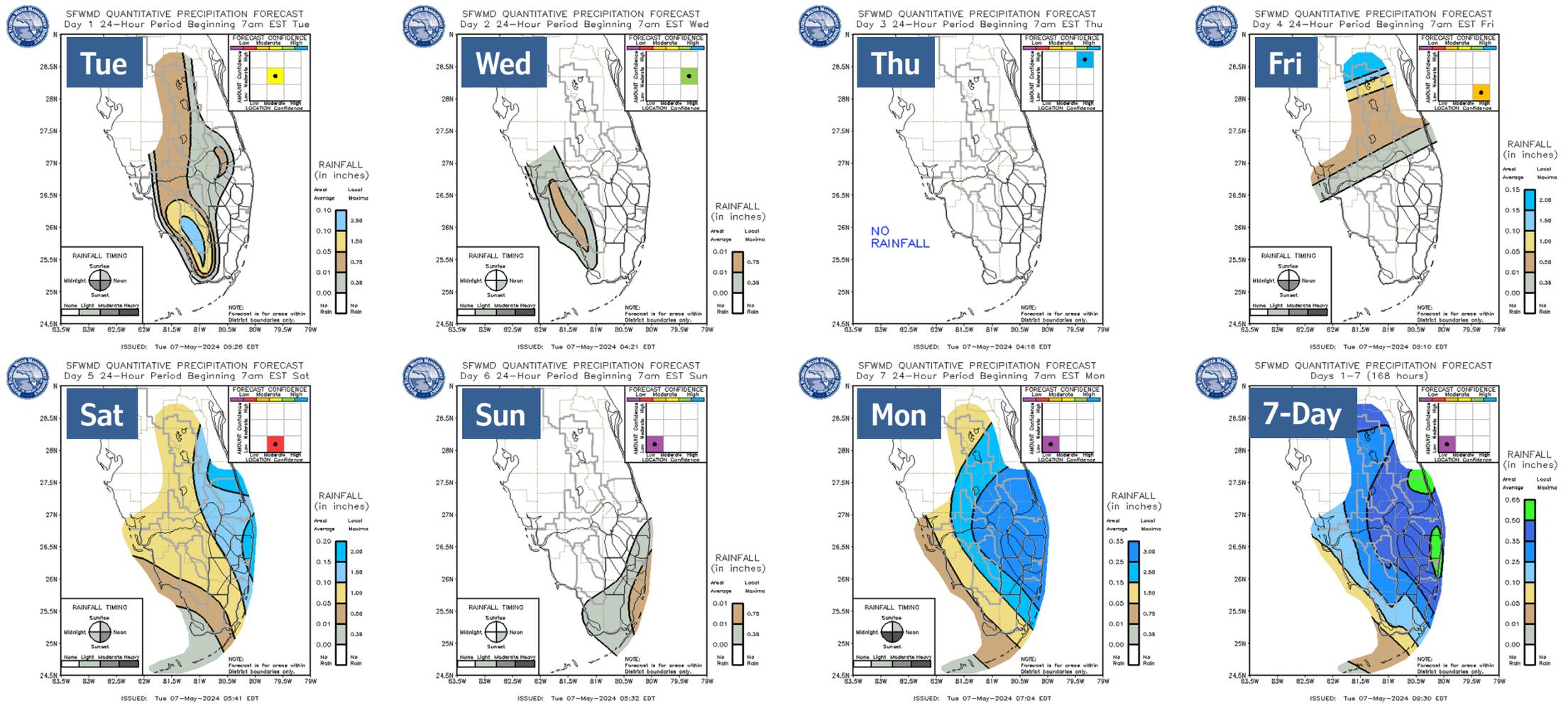
Jan 2025 – Mar 2025

Updated April 30, 2024

- The most recent CPC precipitation outlook for May 2024 is for increased chances (40-50%) of below normal rainfall.
- The 3-month window of May 2024 – Jul 2024 is for equal chances of below, normal, and above normal rainfall (EC).
- The 3-month window of Jun 2024 - Aug 2024 shows slightly increased chances (33-40%) of above Normal rainfall for the Kissimmee River and north, and equal chances (EC) for the remainder 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 remainder areas of the District.
- The transition into the 2024 – 2025 Dry Season, the 3-month window of Sep 2024 – Nov 2024, has equal chances of below, normal, and above normal (EC) for south Florida.
- The 3-month windows Oct 2024 – Dec2024 and Feb 2025 – Apr 2025 show outlooks for increased chances (40-50%) of below normal rainfall for Lake Okeechobee and areas north and slightly increased chances of below normal for the EAA and south.
- The outlooks for the 3-month windows from Nov 2024 – Jan 2025 to Jan 2025 – Mar 2025 indicate increased chances (40-50%) of below normal rainfall for the entire District. The transition not the 2025 wet season shows equal chances (EC) for Florida.

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

Short-, Medium-, & Extended-Range Outlooks



Weekly Summary

Week 1 (Historical Avg: 0.59"): Below normal (near-normal at best)
 Week 2 (Historical Avg: 0.98"): Above or much above normal



CEPP New Water Seepage Barrier Wall Site "Wet Side" at Completion.

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 Notice to Proceed on February 12, 2024.

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 May 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 has been postponed and will be rescheduled while pump station is awaiting permanent power solution from FPL.

- Contract 5C – Pump Stations S-710 and S-711, Seepage Canal C-711W: Seepage canal berm and spreader canal construction are substantially complete. S-711 Control Building is complete. Permanent power from FPL is in final design stages.

Biscayne Bay and Southeastern Everglades Ecosystem Restoration (BBSEER)

Lead Agency: USACE

Anticipated Completion Year: TBD

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 evaluating round three alternatives and will identify the final array of alternatives prior to selecting a plan for TSP assurances modeling.

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 Q1 FY 2026.
- 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: Bridge approach slabs, cattleguards and guardrails are in progress, concrete work at S-471 within 90 CY of completion, soil cement (buttress) 19 of 22 miles completed, soil cement (slope) 5 of 22 miles completed, Townsend Canal sheet pile installation north of power lines 60% completed, Phase II Soil Bentonite Wall “re-dig” Cell 1 and Cell 2 completed (all work completed on 4/29/24). M3 embankment completed except for vehicle access gap, perimeter canal and intake canal work continue, wave wall production commenced – expect first delivery in two weeks, sand column relief manifold (north reach) has commenced, S470 discharge structure has saxophone discharge piping installed and 4 of 6 lifts of concrete are poured and piezometer wells are 20% completed.

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, proposals were received April 9, 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 52% 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 23% complete.

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

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: Complete - Ceremonial Ribbon Cutting was held on April 24, 2024.



CEPP New Water Seepage Barrier Wall Ceremonial Ribbon Cutting, April 24, 2024.

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 construction contract advertisement scheduled for May 2024 but may be delayed due to Corps Senior Contracting Official needing to amend the FDOT construction agreement. Contract award forecasted for September 2024 but may be delayed with this agreement issue.
- 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 pending conclusion of Corps review. The construction contract advertisement is delayed to August 2024. Contract award is delayed to January 2025.
- 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 construction is 12% 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 of the canal and structure construction contract was approved by the SFWMD Governing Board in April 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. A recreation plan is now being developed.

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 Army Corps of Engineers Jacksonville District is finalizing the Environmental Impact Statement (EIS) for state and agency reviews by end of May 2024. Targeting July 2024 to submit the Final EIS and Water Control Plan (WCP) to Army Corp's South Atlantic Division for review and signing. The Final WCP will be released when the Final EIS is complete and will go into effect once reviewed and signed by USACE South Atlantic Division.

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 was completed April 15, 2024. The final PIR and EIS will undergo Agency Technical Review (ATR) beginning on April 29, 2024. 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, geotechnical work ongoing and design commenced for 11-Mile Road, US-41 and Loop Road Culverts.



Northern Everglades and Estuaries Protection Program (NEEPP)

Progress Update – May 2024

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) PROGRESS UPDATE

The S-191 Basin Surface Runoff Phosphorus Removal Project is designed to use a cost-effective, innovative treatment technology on a new 28-acre facility on SFWMD-owned land. Situated just upstream of the S-191 structure in the high-priority S-191 Basin in the Lake Okeechobee Watershed, this novel project will remove total phosphorus (TP) from the C-59 canal and help reduce nutrient loading to Lake Okeechobee. Operations were launched in April 2024 and are planned to continue for the next 2.5 years until September 2026. This water quality treatment project is expected to remove an estimated 3.5 metrics tons of TP per year.



S-191 Basin Surface Runoff Phosphorus Removal Facility: intake area (top left), outflow area (top right) and treatment facility (bottom). 3/27/2024

INTERAGENCY SPOTLIGHT

As of May 1, 2024, the Coordinating Agencies kicked off the NEEPP Annual Progress Report for the *Draft 2025 South Florida Environmental Report (SFER) – Volume I, Chapter 8A*. Notably, this year’s NEEPP reporting will include the Watershed Protection Plan (WPP) 2025 Updates for the Lake Okeechobee, St. Lucie River, and Caloosahatchee River Watersheds (Volume I, Chapters 8B-8C-8D), highlighting progress made over the past five years across the Northern Everglades.

The 2025 WPPs will also cover SFWMD updates to the Northern Everglades Regional Simulation Model as a basis for updating water quantity storage goals to achieve the desired Lake Okeechobee range of lake levels and inflow volumes to the Caloosahatchee and St. Lucie estuaries while meeting the other water-related needs of the region, including water supply and flood protection. The Draft 2025 SFER will be published in October for public and peer review ([SFWMD.gov/SFER](https://www.sfwmd.gov/SFER)).

A LOOK AHEAD

Summer 2024

DEP plans to hold one-on-one meetings with NEEPP stakeholders over the summer months to discuss elements of the 2025 BMAP updates in more detail.



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) PROGRESS UPDATE

In April, DEP worked closely with the Coordinating Agencies to present the annual BMAP meetings for the Caloosahatchee River and Estuary/Everglades West Coast (April 2), St. Lucie River and Estuary (April 3), and Lake Okeechobee (April 4). 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](#)

As part of the Clean Waterways Act, local governments are required to develop wastewater and onsite sewage and treatment disposal systems (OSTDS) remediation plans to be incorporated into the BMAP updates that must be adopted by July 1, 2025. DEP has reviewed and sent feedback to local governments on their draft remediation plans, and the final remediation plans are due from local governments by August 1, 2024. The latest updates on this progress can be viewed on DEP's website at floridadep.gov/bmaps.

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

As of April 1, 2024, FDACS has completed 87% of required implementation verifications (IVs) for agricultural operations within the NEEPP boundary. FDACS continues to collect and retain required nutrient application records as IVs are conducted.

Recent construction advancements on Northern Everglades storage and nutrient retention projects: El Maximo Ranch in the LOW (top two images), and C-43 Water Quality Treatment and Testing Facility, Test Cells in the CRW (bottom two images).

