



Caloosahatchee River and Estuary Basin Management Action Plan (BMAP) Annual Meeting

Via Webinar

Webinar Registration Link:

<https://attendee.gotowebinar.com/register/2505574148548458839>

*April 28, 2025
1 PM EDT*

Agenda

- Caloosahatchee River and Estuary Basin Management Action Plan (BMAP) Background.
- Statewide Annual Report and Reduction Progress for Caloosahatchee River and Estuary BMAP.
- Programmatic Updates.
- Questions/Comments.
- Technical Updates.
- Look Ahead and Resources.
- Questions/Comments.

Please note the site for documents relating to the Caloosahatchee River and Estuary BMAP:

[BMAP Public Meetings | Florida Department of Environmental Protection](#)

For more information on the Caloosahatchee River and Estuary BMAP, contact: Tony Tomalewski, 850-245-8683.

Anthony.Tomalewski@FloridaDEP.gov



WEBINAR HOUSEKEEPING

Attendee Participation

Open your control panel.

Join audio:

- Choose Computer Audio **or**
- Choose Phone Call and dial using the information provided with your registration.

Attendee audio will automatically be muted.

Submit questions and comments via the **Questions** panel.

If viewing this webinar as a group, please provide a list of attendees via the **Questions** panel.

Note: Today's presentation is being recorded and will be provided on the file transfer protocol (FTP) site after the webinar.

A screenshot of the webinar control panel. The top section is titled "Audio" and includes a "Sound Check" indicator. Below this, there are two radio button options: "Computer audio" (unselected) and "Phone call" (selected, indicated by a red arrow). A microphone icon is shown with the word "MUTED" in orange. Below the microphone, there are dropdown menus for "Transmit (Plantronics Savi 7xx-M)" and "Receive (Plantronics Savi 7xx-M)". A volume bar is visible. The bottom section is titled "Questions" and contains a text input field with the placeholder "[Enter a question for staff]". A red box highlights the "Phone call" option and the "Questions" section. At the bottom of the panel, it says "Webinar Housekeeping" with "Webinar ID: 608-865-371" and the "GoToWebinar" logo.



CALOOSAHATCHEE RIVER AND ESTUARY BASIN MANAGEMENT ACTION PLAN (BMAP) ANNUAL MEETING

Anthony Tomalewski

Water Quality Restoration Program

Division of Environmental Assessment and Restoration

Florida Department of Environmental Protection

GoToWebinar | April 28, 2026



ANNUAL MEETING AGENDA

Agenda

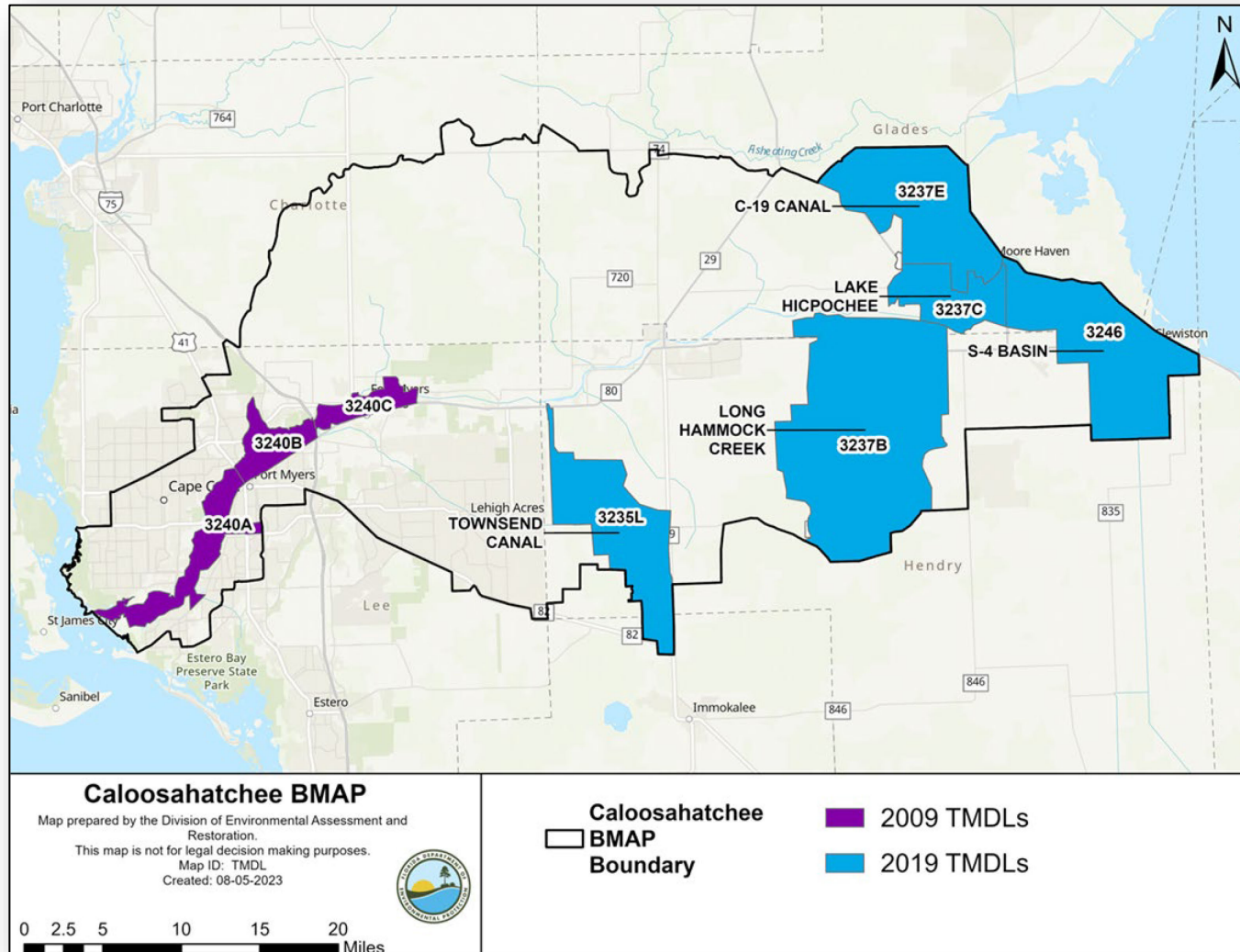
- Preliminary Statewide Annual Report (STAR) 2025.
- Florida Department of Environmental Protection (DEP) Year in Review.
- Stakeholder Project Highlight.
- Florida Department of Agriculture and Consumer Services (DACS) Updates.
- South Florida Water Management District (SFWMD) Updates.
- Water Quality Analysis Results.
- Allocation Approach.
- Looking Ahead.



Photo Credit: SFWMD



CALOOSAHATCHEE RIVER & ESTUARY BMAP BACKGROUND



Tidal BMAP:

- Developed in 2012 to address Total Nitrogen (TN) in the estuary.

Current BMAP:

- Developed in 2020 to encompass complete watershed and include new Tributary Total Maximum Daily Loads (TMDLs)
- Updated in 2025 to include legislative updates.



CALOOSAHATCHEE RIVER AND ESTUARY BMAP

STAKEHOLDERS

Type of Organization/Entity	Name
<p>Responsible Entities</p>	<p>Agriculture Charlotte County Collier County Glades County Hendry County Lee County City of Cape Coral City of Clewiston City of Fort Myers City of LaBelle City of Moore Haven Lucaya Community Development District (CDD) Moody River Estates CDD Port LaBelle CDD Portico CDD</p> <p>River Hall CDD Sail Harbour CDD Verandah East CDD Verandah West CDD Barron Water Control District Clewiston Water Control District Collins Slough Water Control District County Line Drainage District Cow Slough Water Control District Devil’s Garden Water Control District Disston Island Conservancy District Flaghole Drainage District Gerber Groves Water Control District Hendry-Hilliard Water Control District Lehigh Acres Municipal Services District Sugarland Drainage District</p>
<p>Responsible Agencies</p>	<p>County Health Departments DACS Florida Department of Environmental Protection (DEP) Florida Department of Transportation (DOT) District 1 SFWMD</p>



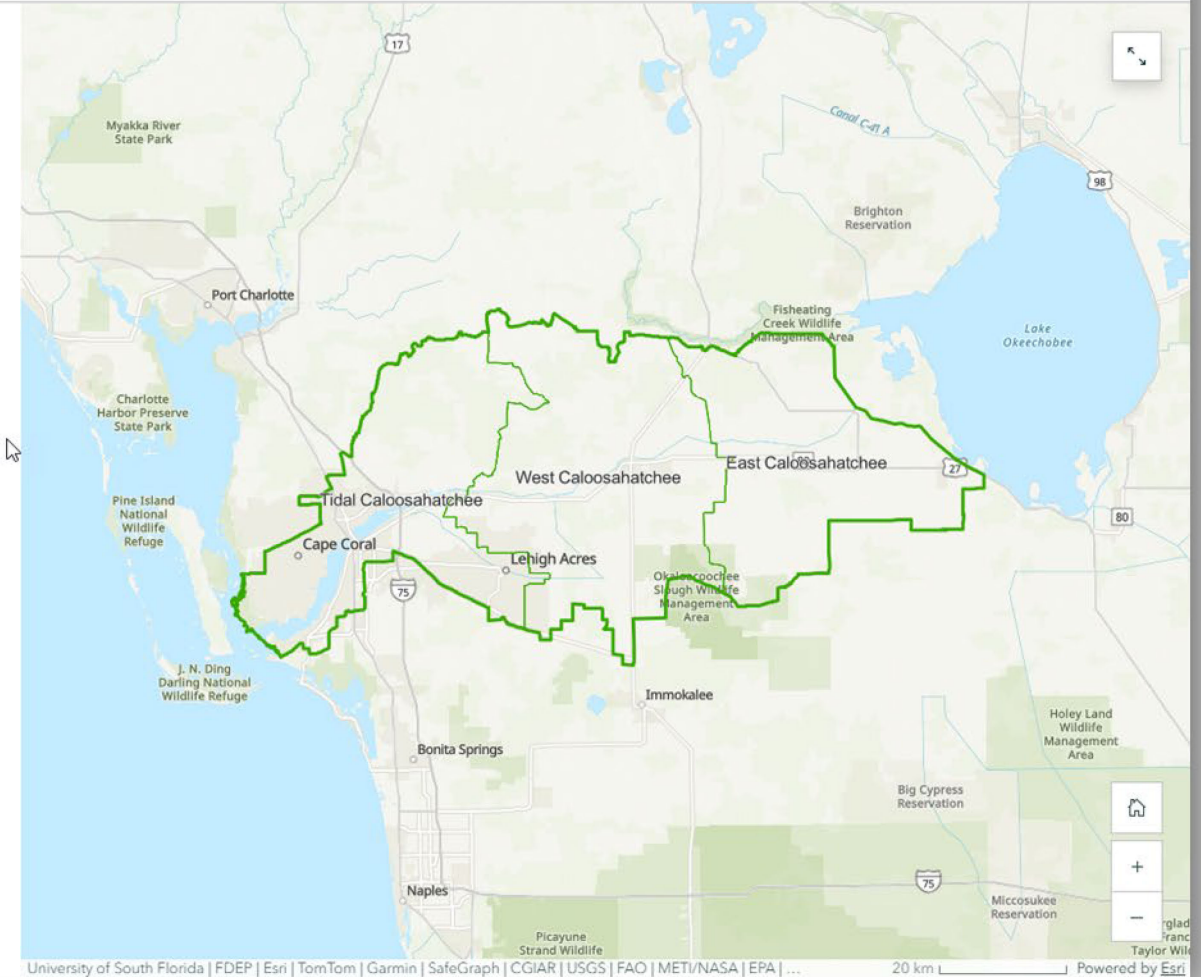
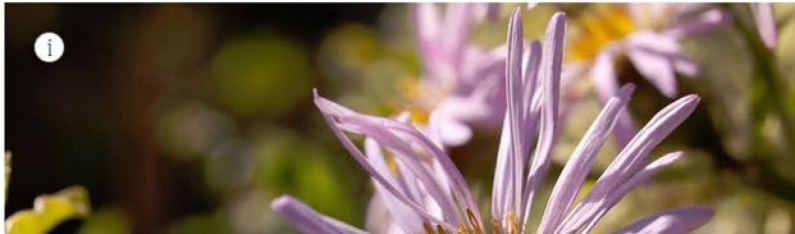
CALOOSAHATCHEE RIVER AND ESTUARY BMAP STORYMAP

[Overview](#) [Summary of BMAP Requirements](#) [Projects](#) [Water Quality](#) [Milestones/Required Reductions](#) [Progress](#) [TN Trend Results](#) [TP Trend Results](#) [Deadlines](#) [Contacts and More Information](#)

Overview

The Caloosahatchee Estuary BMAP was first adopted in November 2012 to implement the total nitrogen (TN) TMDL in the watershed. Executive Order 19-12 required an update to this BMAP in 2020. The updated [Caloosahatchee River and Estuary BMAP](#), adopted in February 2020, replaced the original BMAP, incorporated new TMDLs for tributaries to the Caloosahatchee River, and included components that were recommended in the 2017 5-Year Review.

In 2023, House Bill 1379 added the additional requirement that BMAPs be assessed and updated every five years. The most recent 5-Year Review, completed in 2023, informed the latest BMAP update adopted on June 27, 2025. The BMAP includes management strategies or projects to be implemented by the responsible stakeholders that aim to reduce elevated levels of nitrogen and phosphorus in the estuary.



University of South Florida | FDEP | Esri | TomTom | Garmin | SafeGraph | CGIAR | USGS | FAO | METI/NASA | EPA | ... 20 km | Powered by Esri

[Caloosahatchee Basin Management Action Plan](#)



STAR

STATEWIDE ANNUAL REPORT

The Statewide Annual Report 2024

The state of Florida is prioritizing the protection and restoration of our waterways by implementing sound, science-based solutions to current and future environmental challenges. Under the leadership of Governor Ron DeSantis, the Florida Department of Environmental Protection (DEP) is working with local, state and federal partners on short- and long-term strategies to protect water quality and quantity, including investment in long-term restoration projects. DEP has prepared the 2024 Statewide Annual Report (STAR) to detail the status of many of these strategies in an interactive application format, which is best viewed on a desktop computer screen using Google Chrome or Microsoft Edge. This application does not scale well on mobile devices and is optimized for viewing on larger format screens.



As required by section 403.0675, Florida Statutes, and to report on additional restoration efforts, this report updates the status of protection and restoration actions through total maximum daily loads (TMDLs); basin

Total Maximum Daily Loads	Basin Management Action Plans	Alternative Restoration Plans	Minimum Flows and Water Levels	Recovery and Prevention Strategies	Contacts and Project Data
					

<https://floridadep.gov/STAR>



STAR STATEWIDE ANNUAL REPORT

Florida Department of Environmental Protection Statewide Annual Report 2024
Basin Management Action Plans

Introduction	Total Maximum Daily Loads	Basin Management Action Plans	Alternative Restoration Plans	Minimum Flows & Water Levels	Recovery & Prevention Strategies	Contacts & Project Data
How to Use This Report	What Is the STAR?	Reductions & Legislation	What Are Nutrients?	What Are FIB?	What Are BMAP Projects?	
Nutrient BMAPs		Fecal Indicator Bacteria BMAPs		BMAP Projects		Project Table

Caloosahatchee River and Estuary Management Action Plan

Waters in the Caloosahatchee River and Estuary Management Action Plan (BMAP) are impaired for total nitrogen (TN) and total phosphorus (TP). Progress is primarily assessed by project implementation to reduce sources of the impairment parameter(s).

As of December 31, 2024, verified projects in the BMAP have reduced 863,121 lbs/yr of total nitrogen towards the 910,676 lbs/yr target and have also reduced 95,789 lb/yr of total phosphorus. Additionally, projects currently planned or underway are not included in the above reduction figure but are viewable in the appended project table.

To advance progress on the BMAP, the following actions would improve water quality in the basin:

- Implement source reduction and best management practices for existing and new urban development and agricultural sources to prevent excess nutrient input into impaired waters.
- For existing onsite sewage treatment and disposal systems

For More Info., See Our StoryMap

- Report will be published by July 1, 2026, to update reporting through Dec. 31, 2025.
- Summarizes accomplishments in the BMAPs statewide.
- Reports on restoration projects and management strategies.
- Data download available.



STAR BMAP PORTAL FOR PROJECT COLLECTION

Notify your BMAP coordinator if changes in access to the portal are needed.

A screenshot of the DEAR Restoration Project Collection Portal interface. The page has a blue header with the "DEP BUSINESS PORTAL" logo and title on the left, and "DEAR RESTORATION PROJECT COLLECTION PORTAL" and "Division of Environmental Assessment and Restoration" on the right. Below the header is a navigation menu with "Workflow", "Data Services", "Module Administration", and "Source Tables". A user greeting "Welcome, Anthony Tomalewski [Roles: Coordinator]" and a session timeout notice "Your Session will time out in 060 minutes." are visible, along with a "Sign Out" button. A "Home" button is in the top right corner. The main content area displays the message "Welcome to the DEAR Restoration Project Collection Portal".

DEP BUSINESS PORTAL

DEAR RESTORATION PROJECT COLLECTION PORTAL
Division of Environmental Assessment and Restoration

Welcome, **Anthony Tomalewski** [Roles: Coordinator]
Your Session will time out in **060** minutes. [Sign Out](#)

[Workflow](#) [Data Services](#) [Module Administration](#) [Source Tables](#)

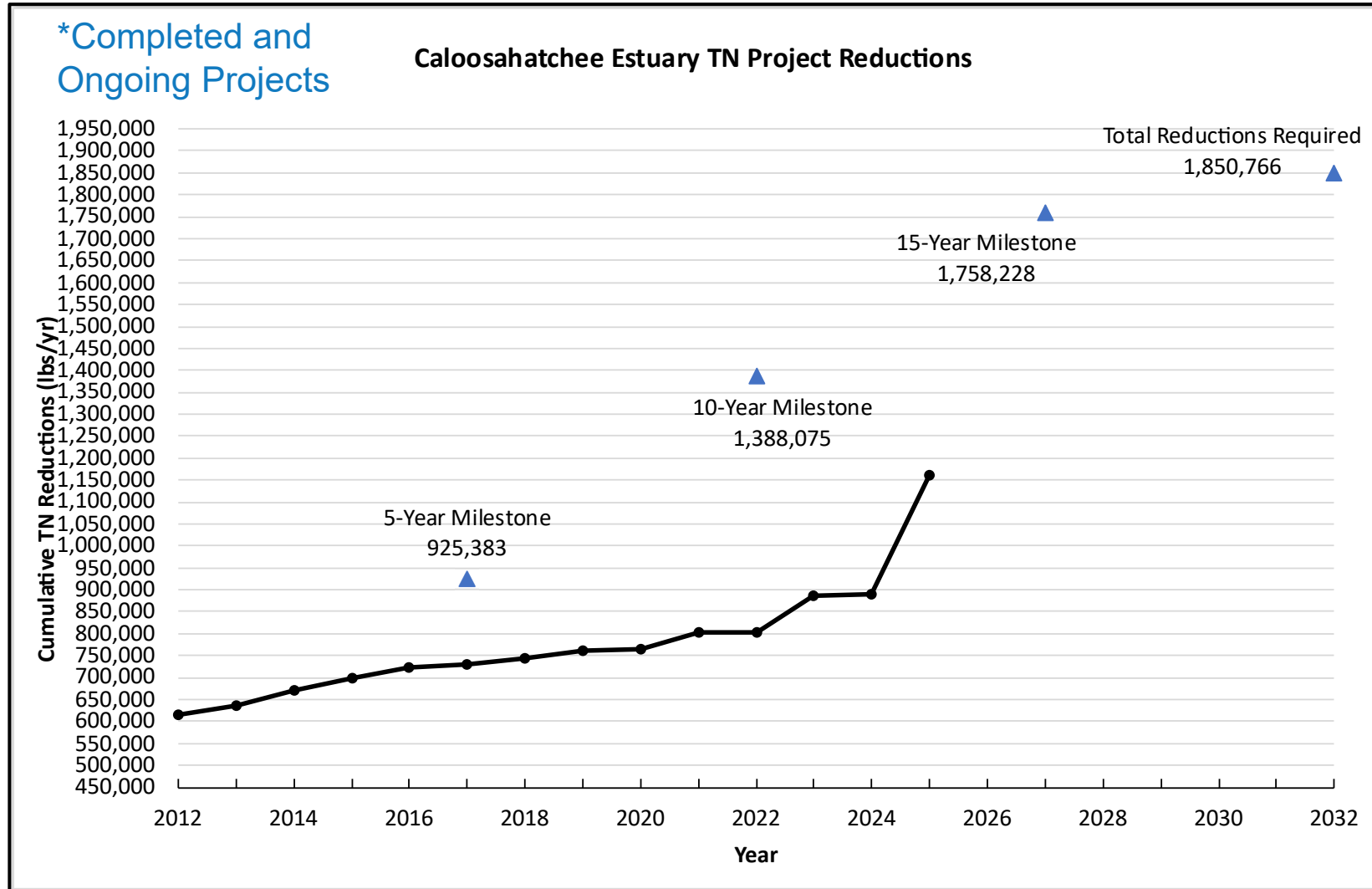
[Home](#)

Welcome to the DEAR Restoration Project Collection Portal



CALOOSAHATCHEE RIVER & ESTUARY BMAP

***PRELIMINARY** 2025 STAR UPDATE – ESTUARY

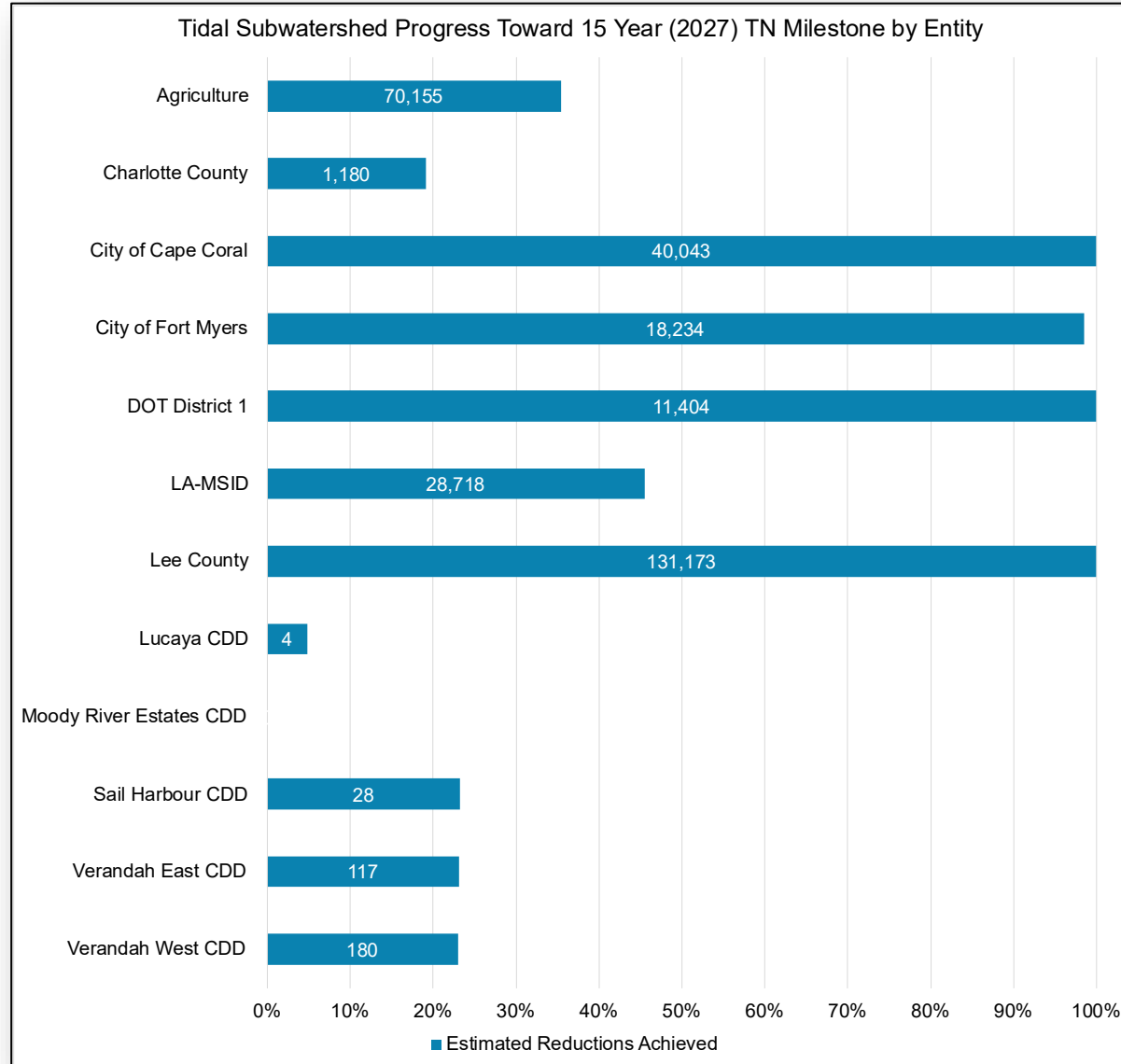


lbs/yr = pounds/year



CALOOSAHATCHEE RIVER & ESTUARY BMAP

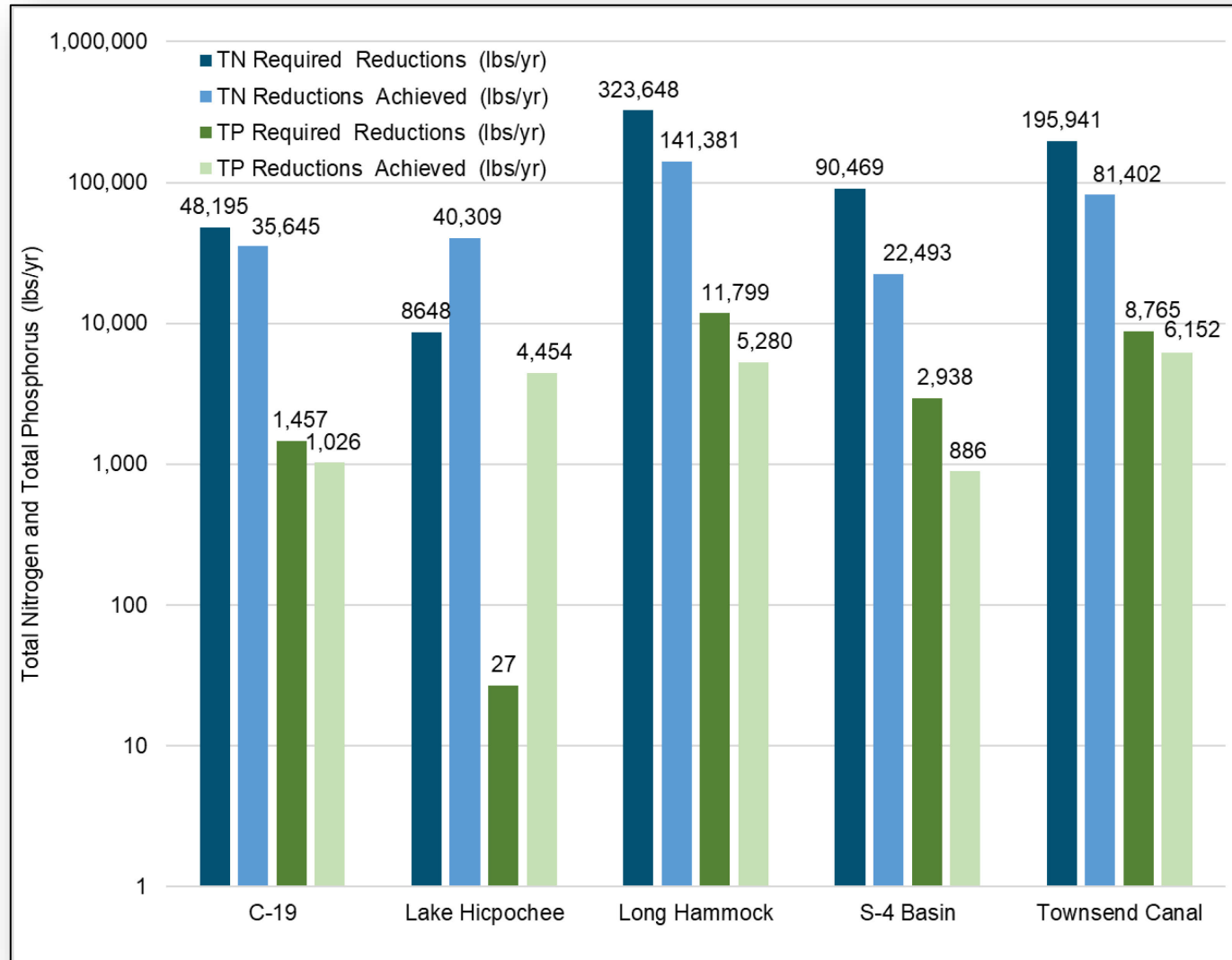
***PRELIMINARY** 2025 STAR UPDATE – TIDAL SUBWATERSHED





CALOOSA HATCHEE RIVER & ESTUARY BMAP

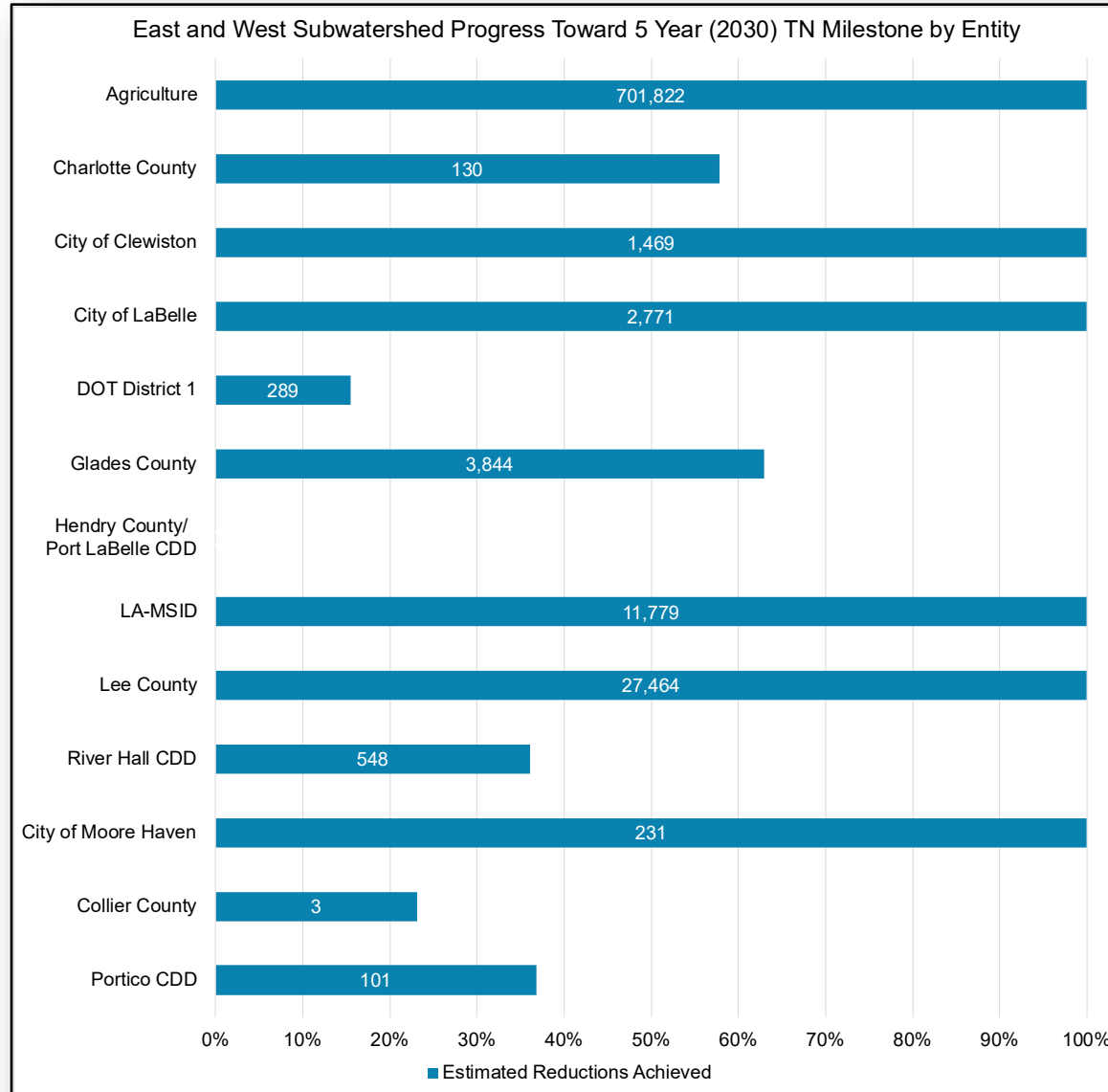
***PRELIMINARY** 2025 STAR UPDATE – TRIBUTARIES





CALOOSAHATCHEE RIVER & ESTUARY BMAP

***PRELIMINARY** 2025 STAR UPDATE – TRIBUTARIES





BMAP UPDATES COMPLETED AND ONGOING EFFORTS

- Water quality data evaluation.
- Water quality trend analyses.
- Hotspot analysis.
- Evaluation of the monitoring network.
- Planning and development of regional projects with partner agencies.
- Identification of projects for BMAP milestones.
- Increased outreach to local governments, special districts and industry.
- Incorporation of Clean Waterways Act requirements.
- Incorporation of House Bill (HB) 1379 and HB 1557 requirements.

The screenshot shows the Florida Department of Environmental Protection website. The main heading is "Northern Everglades and Estuaries Protection Program (NNEPP) BMAPS". Below the heading is a table with three columns: "Waterbodies", "BMAP Documents", and "Contact".

Waterbodies	BMAP Documents	Contact
St. Lucie River and Estuary	<ul style="list-style-type: none"> 2025 St. Lucie River & Estuary BMAP 2025 Final Order Effective date: Nov. 25, 2025 St. Lucie River & Estuary 5-Year Review: 2023 St. Lucie River & Estuary 5-Year Review: 2018 	Tony Tomalewski
Caloosahatchee River and Estuary	<ul style="list-style-type: none"> 2025 Caloosahatchee River and Estuary BMAP 2025 Final Order Effective date: Nov. 25, 2025 Caloosahatchee Estuary BMAP 5-Year Review (2022) Caloosahatchee Estuary BMAP 5-Year Review (2017) 	Tony Tomalewski
Lake Okeechobee	<ul style="list-style-type: none"> 2025 Lake Okeechobee BMAP 2025 Final Order Effective date: Feb. 6, 2026 Lake Okeechobee BMAP 5-Year Review (2024) 	Chandler Keenan



POLICY AND REPORTING REMINDERS

<u>Source</u>	<u>Topic</u>	<u>Requirement</u>
Wastewater	Wastewater Effluent Limits	Where the law does not provide effluent limits or a compliance timeframe, new effluent standards will take effect at the time of permit renewal or no later than five years after BMAP adoption , whichever is sooner. Tables 15 and 16 in the BMAP document.
Wastewater	Connection to Sewer	Beginning February 2026 and every two years thereafter , utilities with sewer lines in BMAPs must provide DEP a list of properties with existing OSTDS where sewer is available (as defined in 381.0065, F.S.) but have not connected.
Agriculture	Concentrated animal feeding operations (CAFOs) - Dairies	To minimize infiltration of liquid manure, if a dairy uses a clay liner or some other type of engineered waste storage pond system, within two years of BMAP adoption , the dairy must submit to DEP an evaluation identifying the environmental, technical, and economic feasibility of upgrading to a concrete or geosynthetic liner.



GOLF COURSE REQUIREMENTS

Date	Requirement for <u>Public</u> Golf Courses	Requirement for <u>Private</u> Golf Courses
Nov. 27, 2026	Draft Nutrient Management Plan (NMP) Due	Draft NMP Due
Dec. 31, 2026	Superintendents must have completed their University of Florida Institute of Food and Agricultural Sciences (UF/IFAS) Golf Course Best Management Practices Program Certification	-
Nov. 27, 2027	Final NMP Due	Final NMP Due
Mid-November to Mid-January Annually	Annual reporting during STAR. Beginning November 2028.	Annual reporting during STAR. Beginning November 2028.



BMAP UPDATES COMPLETED AND ONGOING EFFORTS

- Stakeholder meetings held:
 - Four (4) public meetings/workshops.
 - Twelve (12) individual entity meetings.
- New stakeholder group added to the BMAP: Golf Courses.
 - Required creation of a golf course database, which did not exist prior to 2025.
 - One informational webinar held in 2025, one planned for May 2026.
 - Outreach ongoing.
- Caloosahatchee Hydrological Simulation Program – FORTRAN (HSPF) model updates and ArcNLET model development completed.

Limpkin seen on a South Florida golf course during site visit.



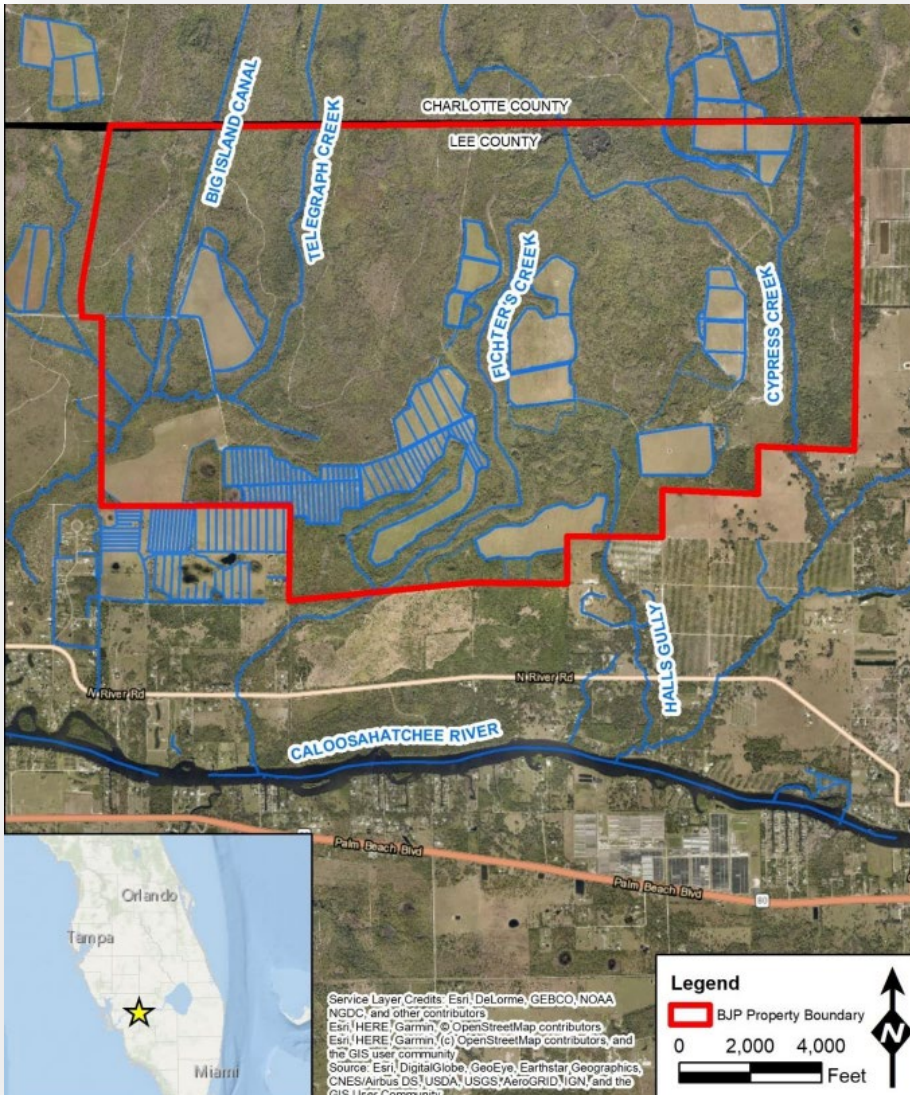
In person technical meeting with responsible entities in Fort Myers.





BMAP STAKEHOLDER SPOTLIGHT

LEE COUNTY'S BOB JANES RESTORATION PROJECT



- Project Benefits:**
- Reducing water discharge by 55 ac/ft
 - 1,439 lbs/yr of TN reductions
 - 225 lbs/yr of TP reductions

ac/ft = acre-foot

Caloosahatchee River & Estuary BMAP Annual Meeting

April 28, 2026

Jennifer Thera

Florida Department of Agriculture and Consumer Services

Office of Agricultural Water Policy



Florida Department of Agriculture and Consumer Services

Office of Agricultural Water Policy (OAWP) Team



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Staff Director

Jessica.Ferris@FDACS.gov



OAWP Team: Policy Planning and Coordination



Yesenia Escribano

Bureau Chief

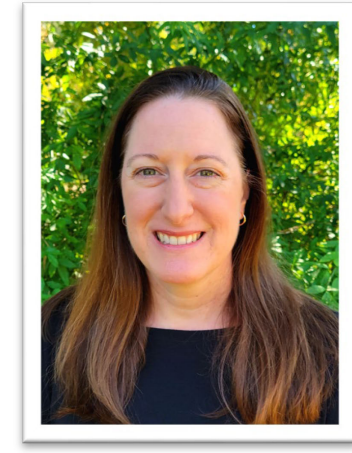
Yesenia.Escribano@FDACS.gov



Maddy Hart

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Madeline.Hart@fdacs.gov



Jennifer Thera

NEPP Coordinator

Jennifer.Thera@FDACS.gov



Mission

Implement strategies that protect Florida's water resources while promoting the sustainability of agriculture.



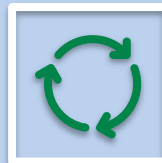
Strategic Goals



Expand and enhance agricultural Best Management Practice (BMP) implementation.



Ensure the availability of an adequate and sustainable agricultural water supply.



Manage cost share programs that support agricultural non-point source BMP implementation and water resource protection projects.

BMP Manuals

OAWP recently updated 9 manuals and adopted a 10th, new manual for Small Farms and Specialty Livestock



Manual	Last Updated	Stage	Dates
Sod	2008	Rule Effective	November 12, 2024
Cattle	2009	Rule Effective	December 22, 2024
Procedures	2021	Rule Effective	October 30, 2024
Small Farms and Specialty Livestock	New!	Rule Effective	February 23, 2025
Specialty Fruit and Nut	2011	Rule Effective	February 24, 2025
Citrus	2013	Rule Effective	March 4, 2025
Nursery	2014	Rule Effective	March 12, 2025
Vegetable and Agronomic Crop	2015	Rule Effective	February 27, 2025
Poultry	2016	Rule Effective	February 13, 2025
Dairy	2016	Rule Effective	March 5, 2025
Equine	2012	Rule Effective	March 12, 2025

<https://www.fdacs.gov/Divisions-Offices/Agricultural-Water-Policy/Rule-Development-Activities>

Producer Options in BMAP Areas

1. Enroll in our BMP Program and properly implement applicable BMPs for presumption of compliance, OR
2. Follow an FDEP or WMD-prescribed water quality monitoring plan at a producer's expense



Enrollments within the Caloosahatchee BMAP

Subwatershed	Total Ag Acres	Enrolled Ag Acres	% Enrolled	Irrigated Acres	Enrolled Irrigated Acres	% Enrolled
Tidal Caloosahatchee	53,442	43,307	81%	2,068	1,863	90%
West Caloosahatchee	178,048	149,093	84%	29,770	27,184	91%
East Caloosahatchee	190,472	171,814	90%	107,249	101,968	95%

FDACS BMP Program enrollment as of Dec 2025 and the Draft 13th [FSAID](#) Geodatabase



Enrollments within the Caloosahatchee Tributaries BMAP

Tributary	Total Ag Acres	Enrolled Ag Acres	% Enrolled	Irrigated Acres	Enrolled Irrigated Acres	% Enrolled
Townsend Canal	28,091	26,376	94%	8,130	7,992	98%
C-19	24,457	23,335	95%	12,808	12,056	94%
Lake Hicpochee	5,037	4,541	90%	3,212	3,203	100%
Long Hammock Creek	66,206	55,368	84%	31,392	29,759	95%
S-4	29,024	27,308	94%	27,480	26,295	96%

FDACS BMP Program enrollment as of Dec 2025 and the Draft 13th [FSAID](#) Geodatabase



Agricultural Acres Enrolled within Caloosahatchee BMAP

BMP Manual	Acres
Cattle	83,899
Citrus	16,871
Conservation Plan	39,895
Dairy	141
Equine	31
Multiple Commodities	157,583
Nursery	834
Poultry	40
Specialty Fruit & Nut	152
Sod	132
Temporarily Inactive	1,740
Vegetable & Agronomic Crop	62,896
TOTAL	364,213



BMP Cost Share within NEEPP

Since 2024



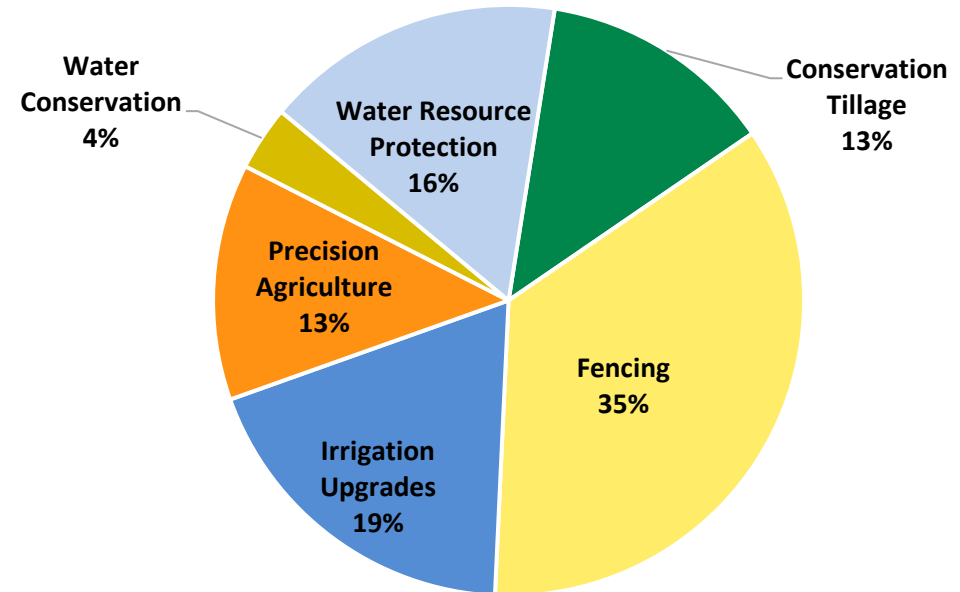
Project Count: 89



Reimbursement: \$4,046,090



Producers: 71



Category	Examples of Information Collected
Fencing	Grazing schedule; Map of fence cost-share; Map of resource concerns on site; Stocking rate (greater/less than threshold depending on species and property size); Sensitive features on the property; Purpose of fencing (e.g., rotational grazing)
Irrigation Upgrades (often automated)	Mobile Irrigation Lab (MIL) data; Irrigated acres; Irrigation frequency; Whether fertigating; Nitrogen and phosphorus rates from fertigation; Prior irrigation type; Whether irrigation systems are automated; Number of automated vs. non-automated systems
Alternative Water for Livestock	GPS location; Sensitive features on the property; Whether rotational grazing will be used year-round; Presence of cross-fencing; Top three benefits for the operation
Culverts	Volume; Whether a nutrient reduction has been calculated (and whether one could be calculated to support funding); Active time of year; Presence of open culverts (if applicable)



Agricultural Regional Projects

Floating Aquatic Vegetative Tilling (FAVT)

- East Caloosahatchee (1)
- Arbuckle Creek (5)*
- Fisheating Creek (6)

Hybrid Wetland Treatment Technology (HWTT)

- Bessey Creek (2)
- Danforth Creek (3)
- Grassy Island (7)
- Ideal Holding (4)
- Lemkin Creek (8)/Wolff Ditch (9)
- Nubbin Slough (10)
- Mosquito Creek (11)
- Taylor Creek/Nubbin Slough (18)*

Other Projects

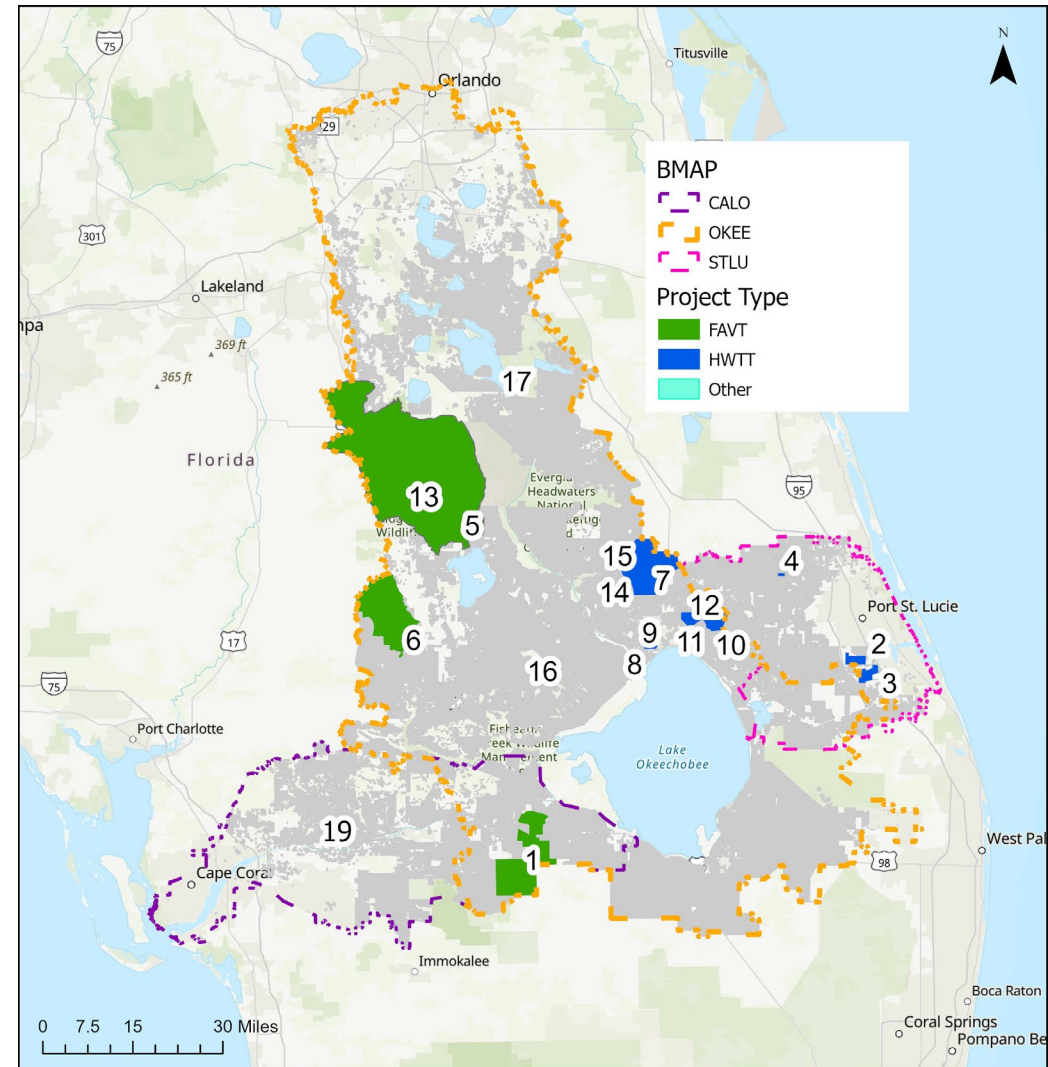
- Larson Dairy (12)*
- Triple G Dairy (13)*
- Milking R Dairy (14)*
- Bassett Grove Water Storage & Treatment (15)*
- Lykes Brothers - Harney Pond (16)
- Cypress Chapter (17)*
- Four Corners (19)

*New projects that have not been completed

Caloosahatchee:

Total TN Reductions: 36,284 lbs/yr

Total TP Reductions: 5,522 lbs/yr



2025 FDACS Legislative Annual Report – Available July 1

<http://www.fdacs.gov/Divisions-Offices/Agricultural-Water-Policy>



Florida Department of Agriculture and Consumer Services
Office of Agricultural Water Policy



Status of Implementation of Agricultural Nonpoint Source Best Management Practices

July 1, 2026

Report to the Governor, the President of the Senate, and the Speaker of the House
Pursuant to Section 403.0675(2), F.S.

Publication No: FDACS-P-01924 Rev. 07/26

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Thank You!

<http://www.fdacs.gov/Divisions-Offices/Agricultural-Water-Policy>

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SFWMD Update

Caloosahatchee River Watershed Construction Project

Stacey Ollis, PMP

Principal State Policy Analyst

Everglades and Estuaries Protection Bureau

Caloosahatchee River and Estuary BMAP Annual Meeting

April 28, 2026

SFWMD Update

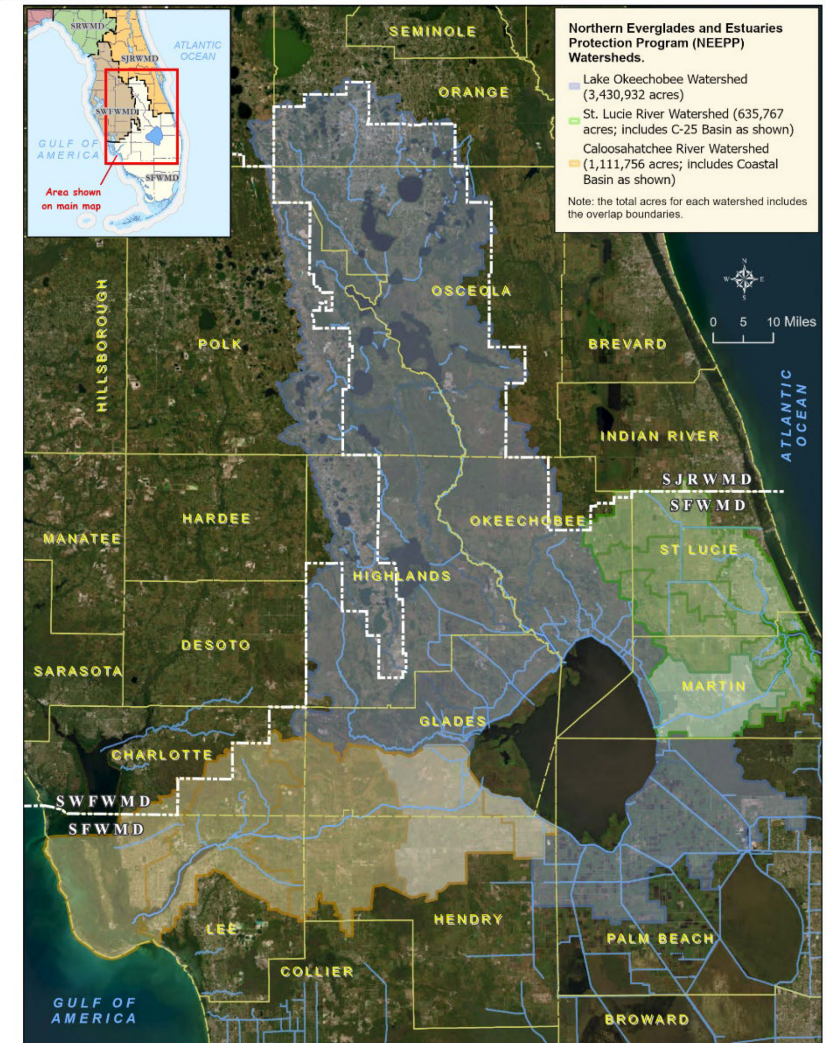


*Caloosahatchee Estuary
oyster reef*

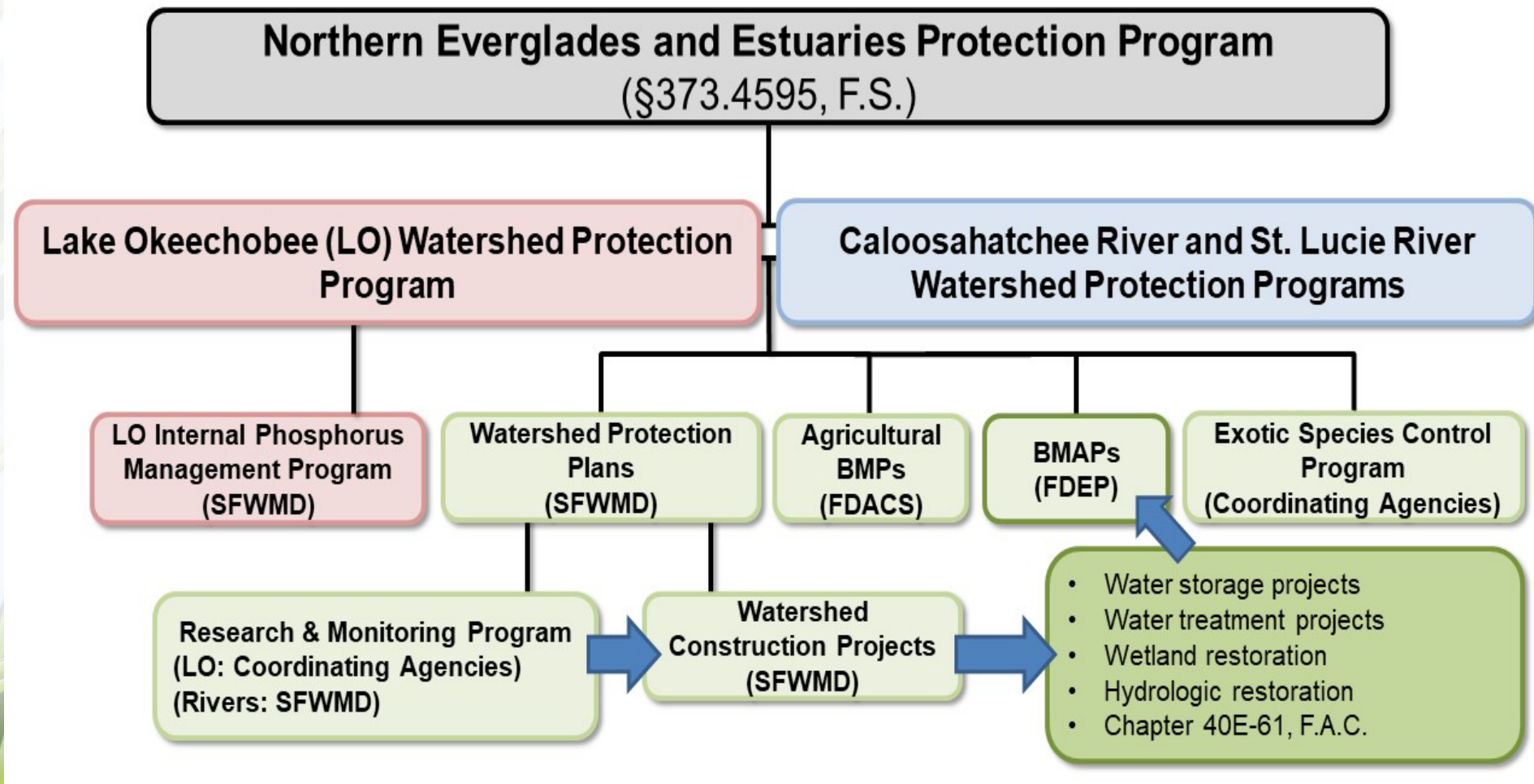
- Northern Everglades Program Overview
- 2026 Caloosahatchee River Watershed Construction Project Review
 - Project Spotlights
 - Water Storage Benefits
- Watershed Protection Plan Reporting

Northern Everglades and Estuaries Protection Program (NEEPP)

- Purpose: Protect and restore surface water resources by improving hydrology and water quality for the Northern Everglades ecosystem (§373.4595, Florida Statutes)
- Goal: Improve Water Quality
 - Lake Okeechobee: Total Phosphorus (TP)
 - Caloosahatchee Estuary: Total Nitrogen (TN)
 - St. Lucie Estuary: TP and TN
- Goal: Manage Water Quantity
 - Increase water storage north of Lake Okeechobee and in Caloosahatchee and St. Lucie River Watersheds



NEEPP: Coordinating Agencies Roles



Caloosahatchee River Watershed Construction Project Review

- Since 2020, SFWMD completed annual Caloosahatchee River Watershed Construction Project (CRWCP) reviews, as part of the Watershed Protection Plan (WPP) reviews
- Annual reviews are important to:
 - Maintain transparency and accountability in BMAP process
 - Assist to progressively move toward achieving state's TMDLs
 - Consolidate into NEEPP annual progress reporting (South Florida Environmental Report, or SFER) per §373.4595(6), F.S.
 - ***Develop and update WPPs required every five years***
- 2026 CRWCP Review
 - Project performance – Water Year (WY) 2025 (Apr. 1, 2024–May 30, 2025)
 - Key accomplishments – Fiscal Year (FY) 2025 (Oct. 1, 2024–Sept. 30, 2025)
 - Final 2026 SFER – Volume I, Chapter 8D (March 1, 2026) at [SFWMD.gov/SFER](https://www.sfwmd.gov/SFER)

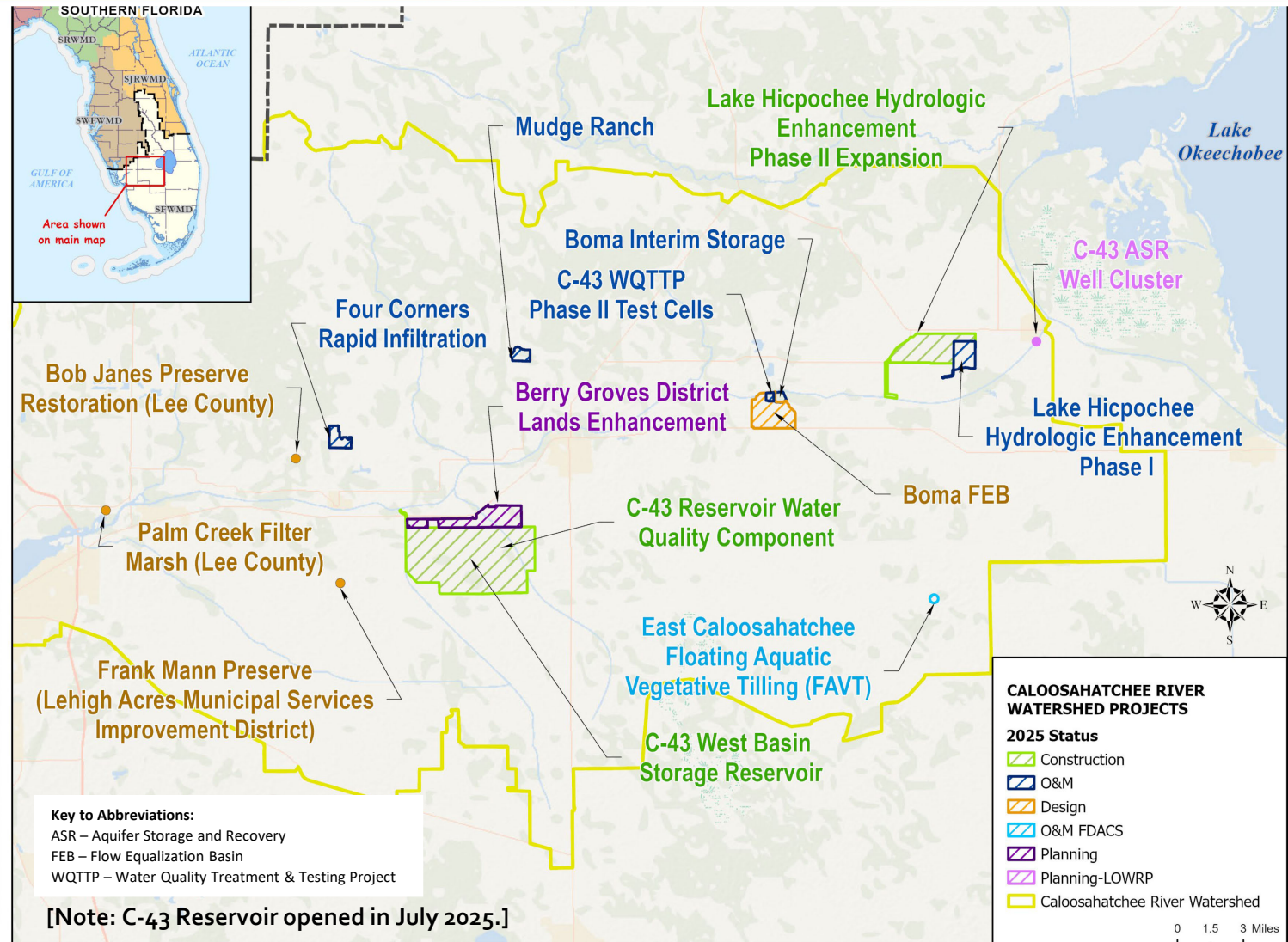
Project Progress

➤ 2025 CRWCP Status:

- 2 projects – planning/design
- 3 projects – construction
- 5 projects – operations



Mudge Ranch, Hendry County



Project Spotlights

- C-43 West Basin Storage Reservoir and Water Quality Component
- Berry Groves District Lands Enhancement
- Four Corners Rapid Infiltration
- Boma Flow Equalization Basin (FEB) and C-43 Water Quality Treatment & Testing Facility – Phase II, Test Cells
- Lake Hicpochee Hydrologic Enhancement – Phase II Expansion



*Caloosahatchee (C-43) Reservoir
Ribbon Cutting (July 15, 2025)*



US Army Corps
of Engineers®

C-43 West Basin Storage Reservoir

*Aerial view of C-43 Reservoir
(March 2026)*



C-43 Reservoir Water Quality Component



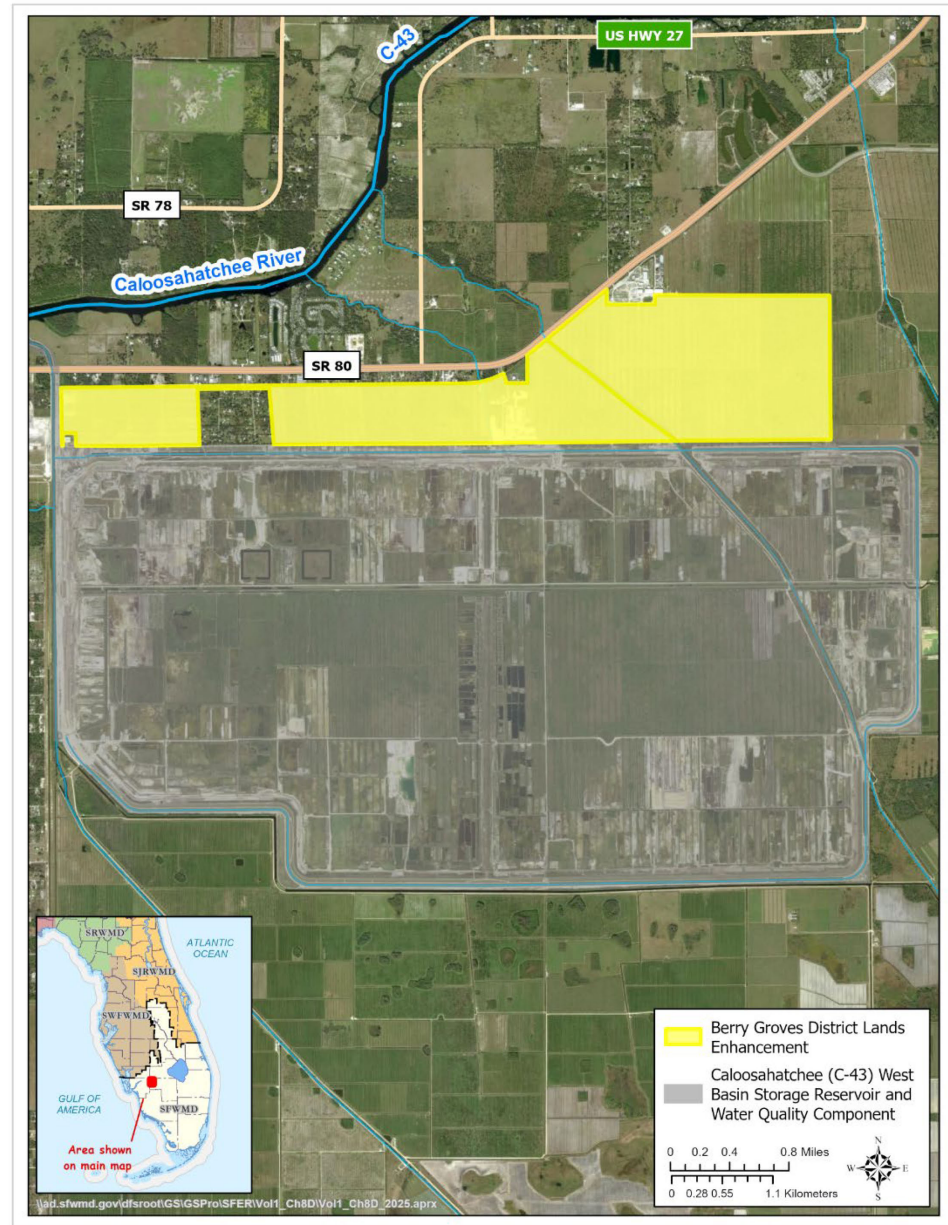
S-470 Pump Station

Alum Storage
Tank Building

Berry Groves District Lands Enhancement



Berry Groves Project Area,
Hendry County



Four Corners Rapid Infiltration



Four Corners Ribbon Cutting (May 2023)

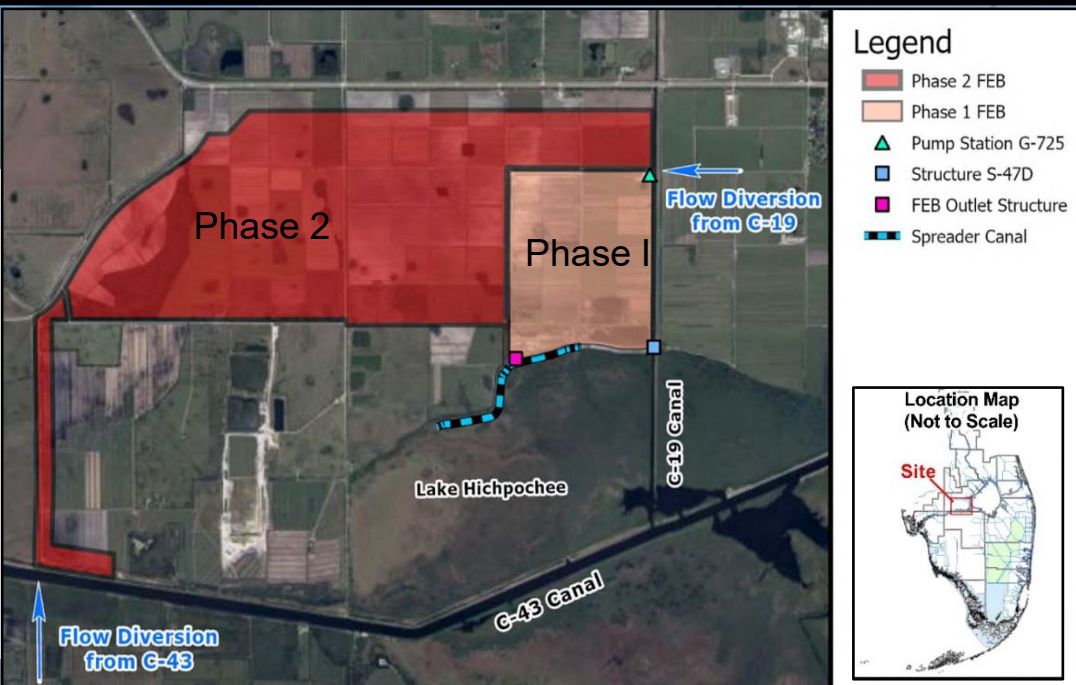


Project Inflow Pumps

Boma Flow Equalization Basin & C-43 Water Quality Treatment & Testing Facility



Lake Hicpochee Hydrologic Enhancement



Project Benefits

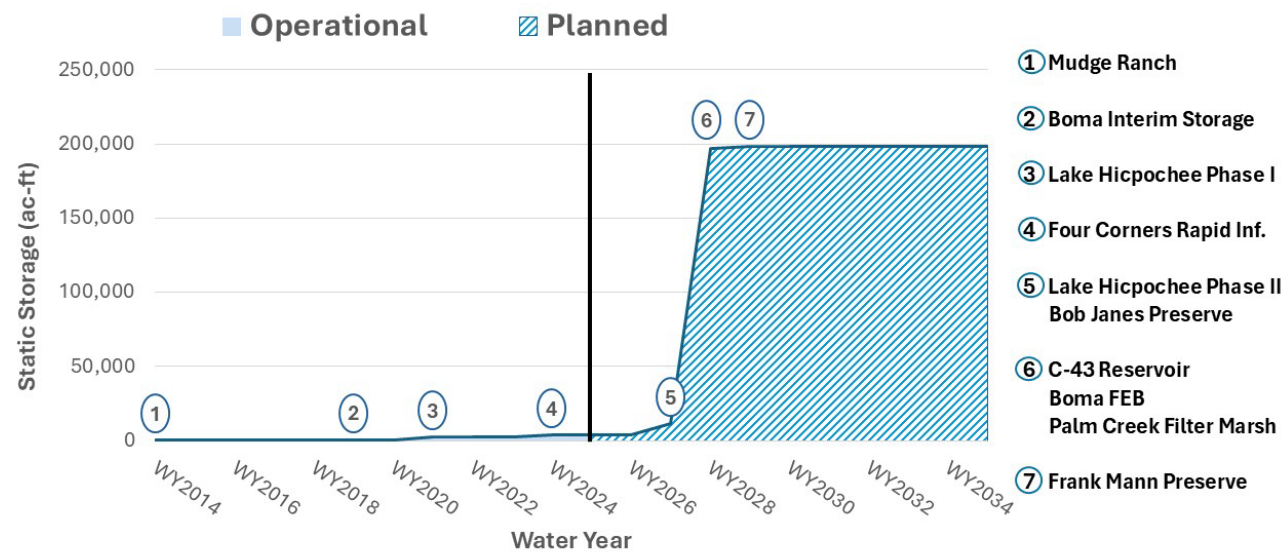
Progress Toward Water Quality and Storage Goals

- During 2025, operational projects provided over:
 - 53 metric tons of total nitrogen retention
 - 7 metric tons of total phosphorus retention
 - 26,000 acre-feet of dynamic storage
- Projects in the works to add even more storage capacity—totaling over half of the storage goal for the watershed

Dynamic Storage

The total volume of water held over a specific period of time. In the 2026 SFER, project performance was assessed during the WY2025 period.

Increasing Storage Capacity In the Caloosahatchee River Watershed



Static Storage

The volume of water retained at maximum capacity, usually up to the point of discharge. The static storage target for the Caloosahatchee River Watershed is 400,000 acre-feet.

Watershed Protection Plan Reporting

For more information, visit:

[SFWMD.gov/WPPs](https://www.sfwmd.gov/WPPs)

and

[SFWMD.gov/SFER](https://www.sfwmd.gov/SFER)

(Final 2026 SFER –
Volume I, Chapter 8D)

2026 SOUTH FLORIDA ENVIRONMENTAL REPORT
WATER YEAR 2025 (MAY 1, 2024-APRIL 30, 2025) FISCAL YEAR 2025 (OCTOBER 1, 2024-SEPTEMBER 30, 2025)
March 1, 2026

HIGHLIGHTS

The South Florida Environmental Report (SFER) documents an important year of restoration, scientific and engineering accomplishments at the Kissimmee River, Lake Okechobee, Deerlands and South Florida coastal areas. The report also provides extensive peer-reviewed research summaries, data analyses, financial updates and a searchable database of environmental projects. The report covers environmental information for water year 2025 (WY2025: May 1, 2024-April 30, 2025) and project temporary and construction information for the South Florida Water Management District (SFWMD) District for Fiscal Year 2025 (FY2025: October 1, 2024-September 30, 2025). This year's SFER Highlights also cover the many achievements and progress made over the past seven years in sustaining key water quality improvements and Okechobee restoration projects, in line with the Executive Order 19-11 Acknowledging More Flow for Florida's Environment, January 28, 2020, Executive Order 23-06 Acknowledging More Flow for Florida's Environment, January 2023, and the Landbank Agreement, July 2025. The full report is available at [SFWMD.gov/SFER](https://www.sfwmd.gov/SFER).



Contact Information

Stacey Ollis, PMP

Principal State Policy Analyst

Everglades & Estuaries Protection Bureau

South Florida Water Management District

sollis@sfwmd.gov; 561-682-2039



sfwmd.gov



QUESTION BREAK

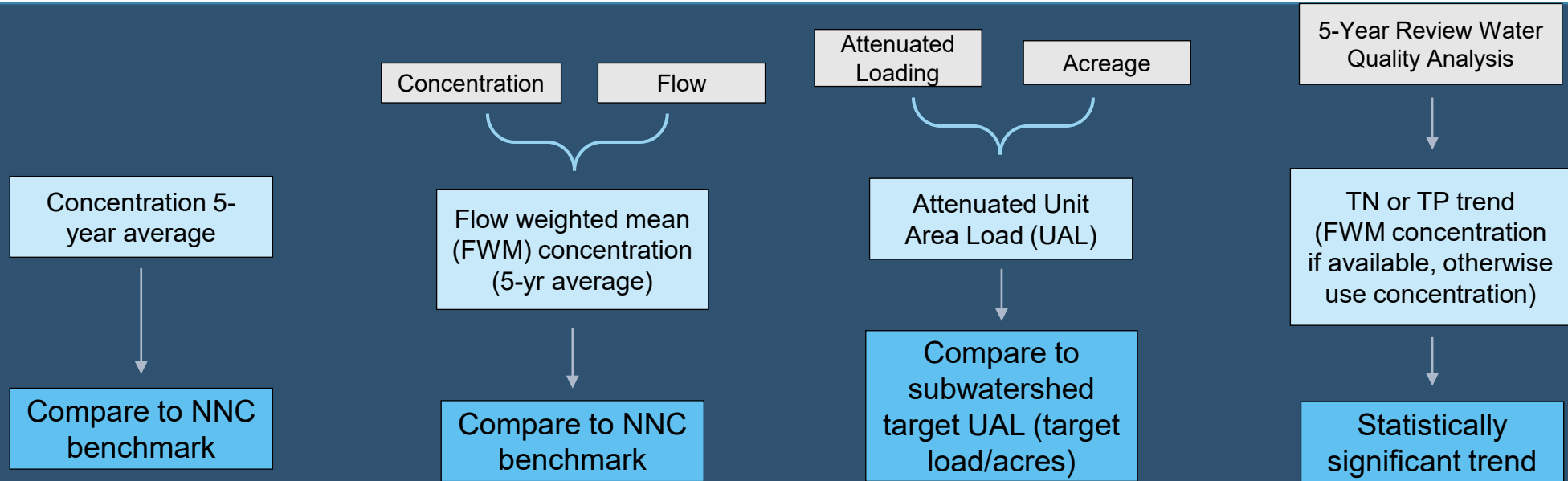
Questions

Please use the Questions panel to submit questions for Coordinating Agencies.





TARGETED RESTORATION AREA (TRA) EVALUATION APPROACH



Step 1

- Priority 1:** Greater than twice the benchmark
- Priority 2:** Greater than benchmark, but less than twice benchmark value
- Priority 3:** Equal to or less than benchmark

or

Step 2

- Priority 1:** Greater than twice the benchmark
- Priority 2:** Greater than benchmark, but less than twice benchmark value
- Priority 3:** Equal to or less than benchmark

.....>

Step 3

- Move up one priority:** Greater than 50% above subwatershed target UAL
- Maintain priority:** Less than 50% above watershed target UAL
- Move down one priority:** less than subwatershed target UAL

.....>

Step 4

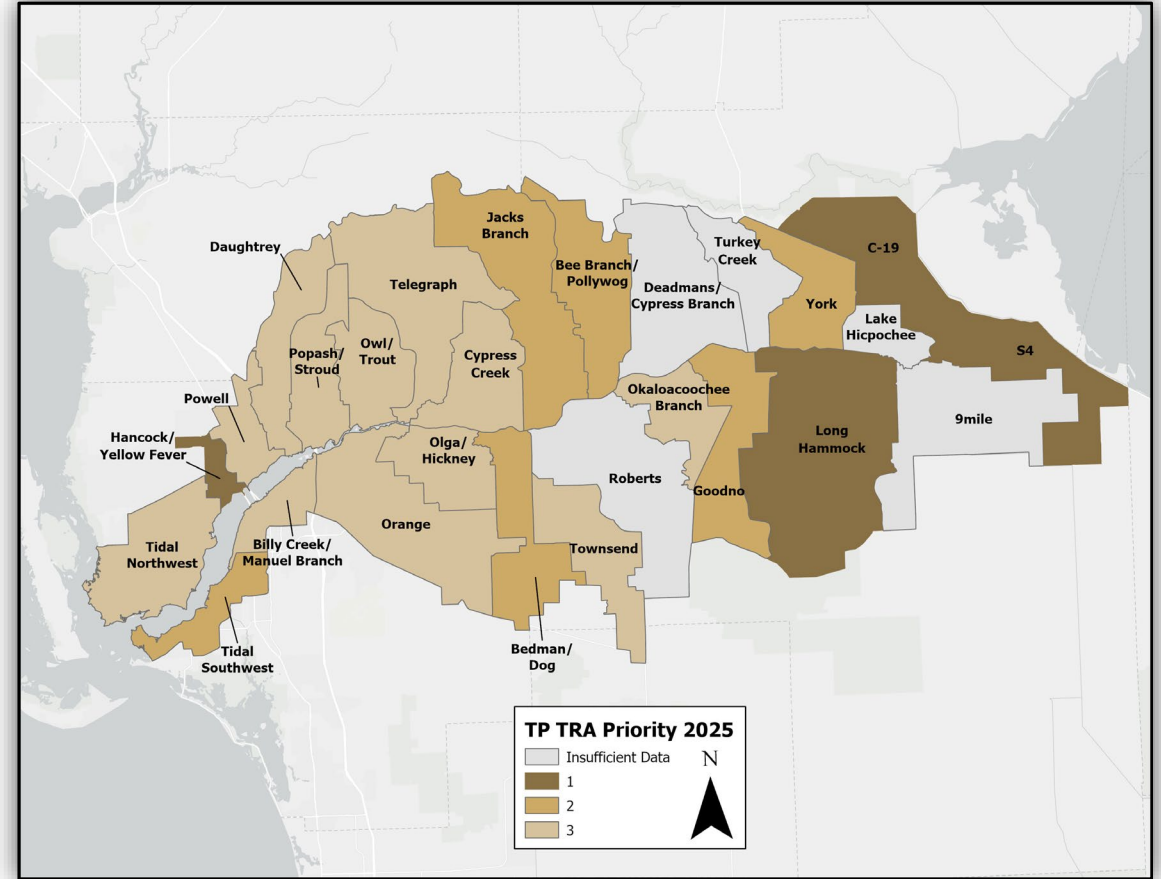
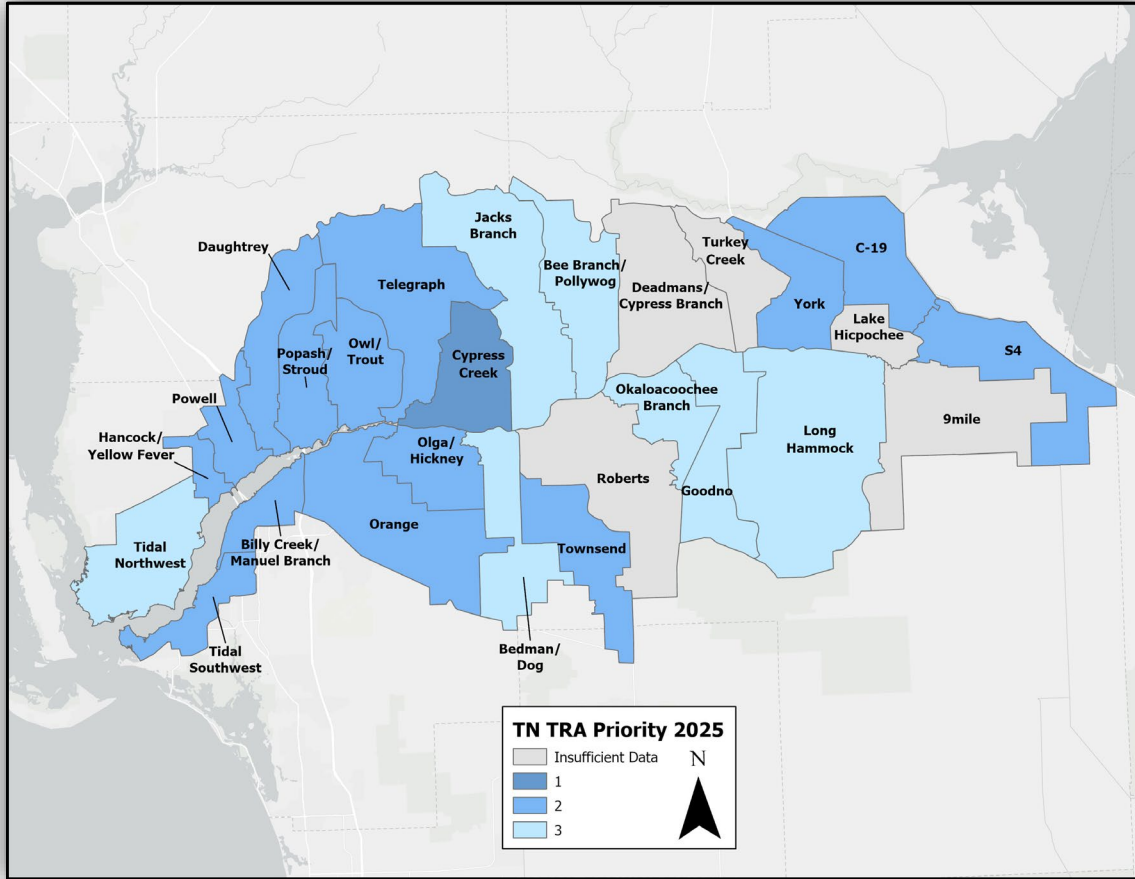
- Move up one priority:** Statistically significant increasing trend
- Maintain priority:** No statistically significant trend
- Move down one priority:** Statistically significant decreasing trend

NNC = Numeric Nutrient Criteria



TRA EVALUATION

2025 EVALUATION RESULTS



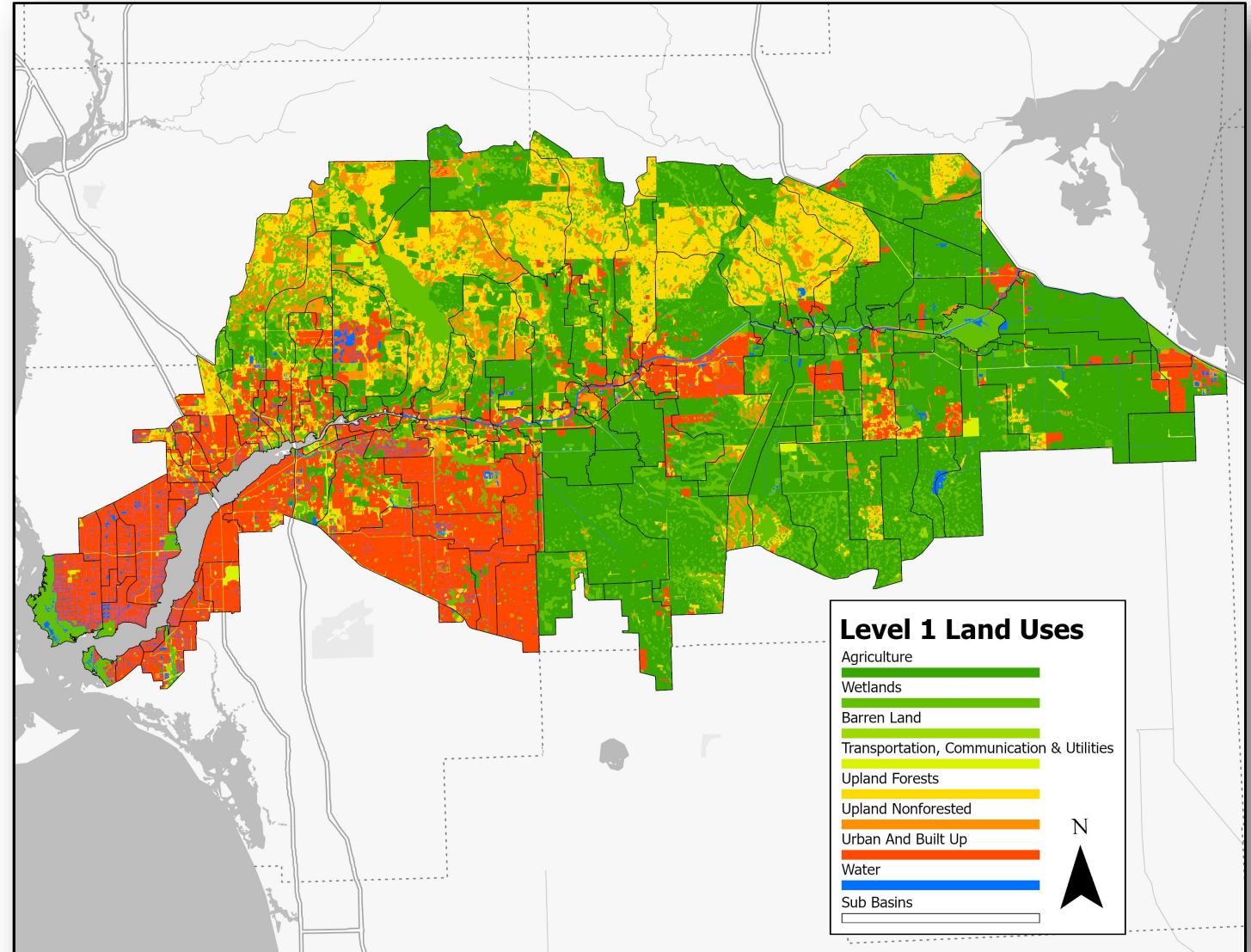


CALOOSAHATCHEE MODEL UPDATE

GENERAL OVERVIEW

Updates Completed!

- Updated data used in model:
 - Flow.
 - Water Quality.
 - Wastewater Facility and Onsite sewage treatment and disposal systems (OSTDS).
 - Land Use.
 - Project Data.
- Updating allocations in the coming months.
- Meeting with stakeholders to discuss next steps.

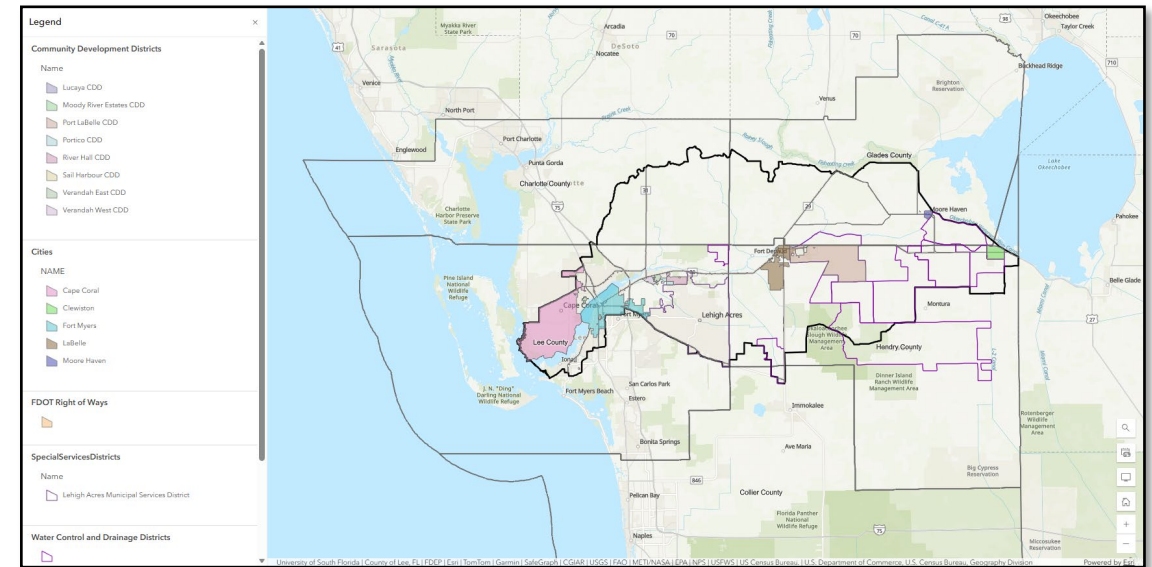




Allocation Approach

Allocations will be calculated in the following steps:

1. Calculate average annual TN and TP loads from model outputs to obtain stakeholder existing loads.
2. Sequentially clip out the following areas from the Load Estimation Tool (LET):
 1. Water management areas.
 2. FDOT roads and rights-of-way (ROW).
 3. Water control district canals and ROWs.
 4. Natural lands.
 5. Agricultural lands.
 6. CDDs.
 7. Cities.
 8. Remaining land to be split by county boundaries.
3. Sum attenuated TN and TP load for starting loads.
4. Calculate required reductions.
 1. Total reduction = TN load for the entire watershed minus the allowable load of 3,048,783 lbs/yr.
 2. Required reduction is assigned to stakeholders based on the percentage of each stakeholder's starting load.





Allocation Approach

Allocations will be calculated in the following steps:

5. For tributaries calculate average annual TN and TP loads from model outputs to obtain stakeholder existing loads by tributary.

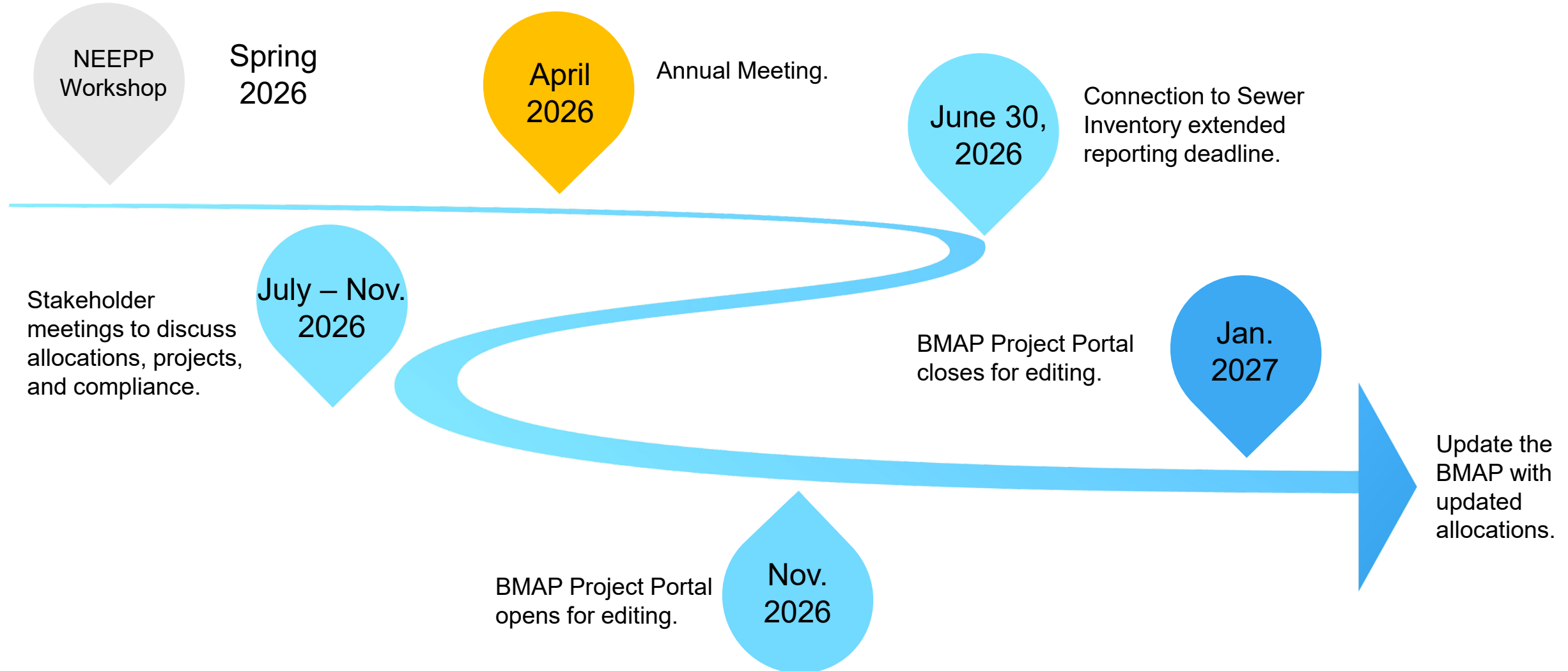
6. Calculate load reductions for tributaries by subtracting the allowable load from the starting loads:

- C-19 Canal — 31,327 lbs/yr of TN and 1,579 lbs/yr of TP.
- Lake Hicpochee — of 24,929 lbs/yr of TN and 1,348 lbs/yr of TP.
- Long Hammock — of 253,673 lbs/yr of TN and 16,295 lbs/yr of TP.
- S-4 — 111,935 lbs/yr of TN and 7,555 lbs/yr of TP.
- Townsend Canal — 160,314 lbs/yr of TN and 14,300 lbs/yr of TP.

7. The higher of the TN reductions for the estuary and tributaries will be assigned as the final TN required reduction.



LOOKING AHEAD





FUNDING OPPORTUNITIES



Florida Department of Environmental Protection
Funding Opportunities
[FloridaDEP.gov/Funding](https://www.floridadep.gov/Funding)





RESOURCES

Basin Management Action Plans (BMAPs)

[Home](#) » [Divisions](#) » [Division of Environmental Assessment and Restoration](#) » [Water Quality Restoration Program](#) » Basin Management Action Plans (BMAPs)

Water Quality Restoration Program Quick Links

[Basin Management Action Plans \(BMAPs\)](#)

[Statewide Annual Report](#)

[Water Quality Grant Opportunities 2024-25](#)

[BMAP Public Meetings](#)

[Impaired Waters, TMDLs and Basin Management Action Plans Interactive Map](#)

[Tools and Guidance for Calculating Total Nitrogen \(TN\) and Total Phosphorus \(TP\) Reductions](#)

[Florida Water Quality Credit Trading](#)

What is a Basin Management Action Plan?

A BMAP is a framework for water quality restoration that contains a comprehensive set of solutions to achieve the pollutant reductions established by a TMDL. Examples include permit limits on regulated facilities, urban and agricultural best management practices, wastewater and stormwater infrastructure, regional projects and conservation programs designed to achieve pollutant reductions established by a TMDL. A BMAP is developed with local stakeholders and relies on local input and commitment for successful implementation. BMAPs are adopted by Secretarial Order and are legally enforceable. BMAPs use an adaptive management approach that allows for incremental load reductions through the implementation of projects and management strategies, while simultaneously monitoring and conducting studies to better understand the water quality and hydrologic dynamics. Progress is tracked by assessing project implementation and water quality analyses. DEP continues to work with local and regional partners to identify additional projects necessary to meet reduction milestones to achieve the TMDLs and inform funding priorities.

What's New: Upcoming Meetings and BMAP Progress

July 1, 2025 BMAP Update Progress

As required by the Clean Waterways Act, DEP must prepare updates to its nutrient BMAPs by July 1, 2025. The [July 1, 2025 BMAP Update Progress](#) dashboard provides a visual representation of progress towards the completion of each of the required tasks and related sub-tasks leading up to the July 1, 2025 updates. Please visit the [BMAP Public Meeting Calendar](#) to find out about upcoming meetings and subscribe to meeting notices.

NEEPP BMAPs



The Northern Everglades watersheds include the Lake Okeechobee watershed and the Caloosahatchee and St. Lucie River watersheds and estuaries.



SUBSCRIBER PAGE

HOW TO CONTACT US



BMAPProgram@FloridaDEP.gov

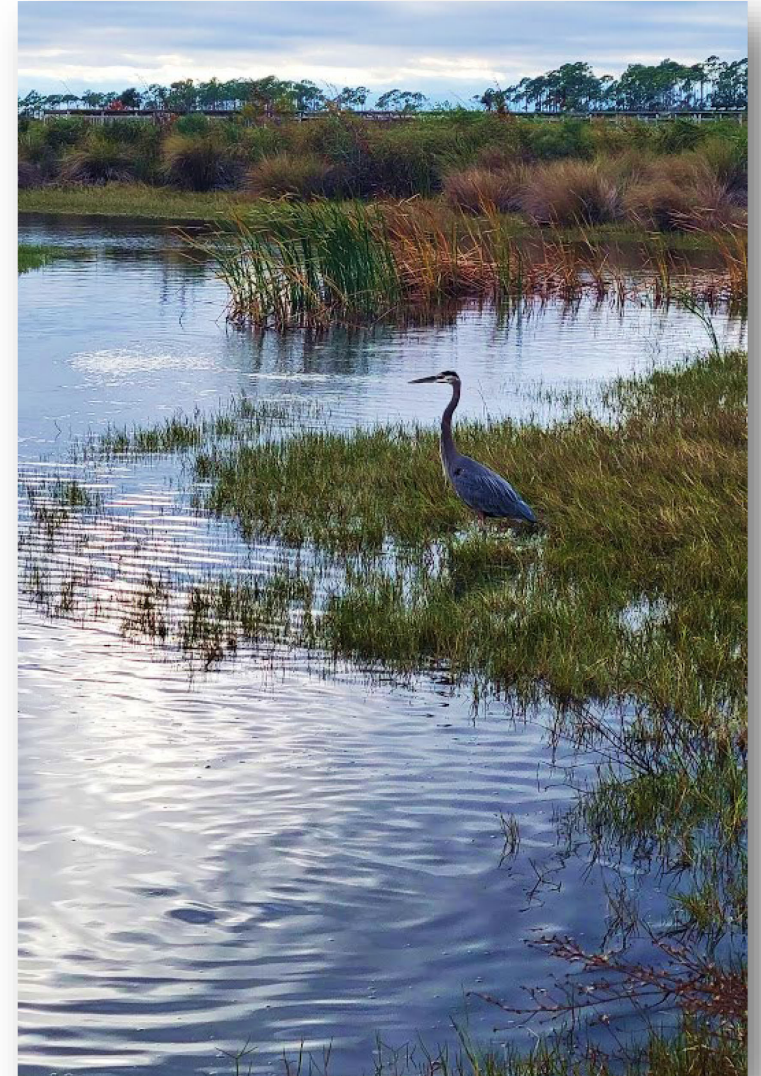


QUESTION BREAK

Questions

Please use the Question panel to submit questions.

Submit written comments concerning today's meeting to:
Anthony.Tomalewski@floridaDEP.gov.





THANK YOU

Tony Tomalewski

Contact Information:

Phone: 850-245-8683

Email: Anthony.Tomalewski@FloridaDEP.gov

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection

Caloosahatchee River and Estuary Basin Management Action Plan (BMAP) Annual Meeting
Webinar Summary
Tuesday, April 28, 2026
1:00 pm – 1:50 pm

Participants

Santiago Acevedo, SFWMD	Stan Ganthier, DEP
Miranda Anderson, DEP	McKee Gray, Audubon
Cora Aossey, DEP	Kathy Greenberg, Citizen
Tammy Ash, Conservancy of SW FL	Roxanne Groover, FOWA
Christian Avila, SFWMD	Sharon Guaderrama, SJRWMD
Taufiqul Aziz, DEP	Jewelene Harris, SFWMD
Bill Baker, MacVicar Consulting	Maddy Hart, FDACS
Lisa Bally, Geosyntec	Bob Himschoot, Crews Environmental
Ernie Barnett, FL Water & Land	Moira Homann, DEP
Terrie Bates, Citizen	Danielle Ivey, Audubon
Nathan Beals, Lee County	Hanna Joergens, Lee County
Evelyn Becerra, DEP	Christopher Johns, LLW Law
Tom Bishop, Citizen	Paul Julian, Everglades Foundation
Karen Bliss, Charlotte County	Chandler Keenan, DEP
Amanda Boone, Woodard & Curran	Sean Kelleher, Wells Street Partners
Maxwell Boone, Palmetto Pine	Steven Kelly, FDOT
Jennifer Briggs, Kimley Horn	Brianne Kenney, Troon
Felicia Burks, EPA	Travis Kirk, Seminole Tribe
Joseph Caruso, FGUA	Scott Knight, Wetlands Solutions
John Cassani, Citizen	Brandon Koester, Troon
Sarah Catala, Immokalee Water & Sewer	Natalie Kraft, FPL
Carolin Ciarlariello, DEP	Lisa Kreiger, Lee County
Susan Cooper, Citizen	Garrett Kusienski, Lee County
Kevin Coyne, AMP	Sarah Laboda, Apex
Veronica Dau, Lake County	Mitchell Latzman, Everglades Foundation
Letuzia De Oliveira, FDACS	Joseph Lineberry, Citizen
Dana Dettmar, Sanibel	Celeste Lyon, RES
Fernando Diaz, Gunster	Sherry McCorkle, SFWMD
Don Duke, FGCU	Jessica McPherson, Apex
R. M. Edenfield, RMEC	Sarah Menz, DEP
Kelli Edson, DEP	James Moir, Citizen
Bill Eggers, Evans	Charles Murphy, Glades Media
Kate English, Pavese Law Firm	Caitlin Newcamp, Audubon
Melissa Espinosa, Lee County	Alejandra Nirenberg, CRI
Marissa Figueroa, Audubon	Justin Nolte, SFWMD
Michael Filian, Wind River Environmental	Kevin O'Donnell, DEP
Phil Flood, SFWMD	Stacey Ollis, SFWMD
Jake Fojtik, FFBF	Steffany Olson, SFWMD
Marcy Frick, Tetra Tech	Roland Ottolini, Lee County
Aubrey Frye, SFWMD	Sara Ouly, SFWMD

Debra Paxton, Lee County
Allie Pecenka, SCCF
Mark Perry, Florida Oceanographic
Libby Pigman, SFWMD
Jason Pim, Sharkinetics
Nicolas Pisarello, ATM
Irene Quincey, Pavese Law
Maxwell Redan, DEP
Avery Renshaw, FWS
Rhonda Roff, Citizen
Mikayala Rogers, FFVA
Maria Romero, Lee County
Larry Scrabis, Citizen
Matthew Scriptor, Ecological Associates
Shimelis Setegn, SFWMD
Audrey Sferra, Applied Ecology

Lily Silva, Apex
Mailin Sotolongo- Lopez, DEP
Anthony St. Germain, Manatee County
Leyna Stemle, FDOT
The Florida Channel
Jennifer Thera, FDACS
Todd Thurlow, Thurlow & Thurlow
Tony Tomalewski, DEP
Kevin Tyre, Geosyntec
Jordan Varble, Apex
Jonathan Wadas, SFWMD
Youchao Wang, SFWMD
Rhonda Watkins, Collier County
Ken Weaver, DEP
Lori Wenkert-Lane, SFWMD
Amanda Zirzow, Citizen

The webinar recording and supporting materials are posted to the Florida Department of Environmental Protection (DEP) website at <https://floridadep.gov/dear/water-quality-restoration/content/bmap-documents-meeting-materials-and-recordings>.

Questions and Answers

Question: Has DEP conducted a 401 certification for the operational phase of the C-43 reservoir?

Answer (DEP): The C-43 Water Quality Component (Inline Alum Injection System) permit is expected to be issued by the end of May.

Question: Are there efforts underway in identifying the remaining 400,000 acre-feet of storage needed in the Caloosahatchee watershed?

Answer (South Florida Water Management District [SFWMD]): Slide 14 of the SFWMD presentation (slide 46 of the overall presentation) shows the storage capacity we have now and what is also in planning will attain a storage capacity of over 200,000 acre-feet per year, which is about half of the overall target. Other opportunities are being planned to help attain the goals for the additional storage. Interested stakeholders are welcome to stay tuned on our procurement website for more opportunities to come (SFWMD.gov/Procurement).

Question: How are all these SFWMD land uses reflected in the Caloosahatchee BMAP? Are they assigned a load/reduction target?

Answer (DEP): Last year DEP updated the model for the Caloosahatchee BMAP to include the latest land use coverage. We used literature values for calibration targets for the loading expected from different land use types as well as measured monitoring data. All of that information was used to update the estimated loading from the watershed using the latest available land uses.

Question: Are there any plans to change the “presumption of compliance” component for verification of compliance?

Answer (DEP): That would require a statutory change.

Question: How are stakeholder project achievements included in the model?

Answer (DEP): A lot of the local government projects are not explicitly included in the model. We are calibrating to the latest water quality data that would show the benefits of those projects. We did include the larger regional-scale projects that SFWMD and the Florida Department of Agriculture and Consumer Services have implemented. There are more details about which of those projects were explicitly modeled as part of the model report.

Question: Are these reservoirs dual purpose (for example, Headwaters Reservoir in Indian River County), which could serve as a fishing resource and economic boon to the region?

Answer (SFWMD): Many recreational features are planned at the Caloosahatchee (C-43) Reservoir site, including public boat ramps, a kayak and canoe launching area, an equestrian area, hiking, cycling and equestrian trails, informational kiosks, shelters and restrooms. As these areas are developed, information and maps will be placed on the SFWMD website on the recreation webpage here: [SFWMD.gov/Recreation](https://www.sfwmd.gov/Recreation).

Question: Are the models taking into account for land use change not just urbanization but row crops and citrus acres?

Answer (DEP): The models use the 2023 land use coverage, which was the latest available. That coverage reflects all the land uses (urban, agricultural, and natural) at that time. For more information about land uses for agricultural commodities, please refer to the Florida Statewide Agricultural Irrigation Demand Geodatabase (FSAID): <https://www.fdacs.gov/Agriculture-Industry/Water/Agricultural-Water-Supply-Planning>.

Question: Will you update the watershed nutrient budget, last analysis in 2010 estimated a net total phosphorus (TP) addition of about 4,500 metric tons (mt) to the watershed a year?

Answer (DEP): Both DEP and SFWMD have conducted various evaluations of the Caloosahatchee River and Estuary Watershed nutrient budget since 2010.