Lake Jesup Basin Management Action Plan (BMAP) Annual Meeting

Via Webinar
July 9, 2024
1:00 PM

Webinar Registration Link:
https://attendee.gotowebinar.com/register/4871138216340042591

Agenda

- Lake Jesup Basin Management Action Plan (BMAP) Overview.
- Annual Progress.
- St. Johns River Water Management District (SJRWMD) Update.
- Next Steps - BMAP Update.

Please note the FTP site for documents pertaining to the Lake Jesup BMAP:
https://publicfiles.dep.state.fl.us/DEAR/BMAP\MiddleStJohns\Lake_Jesup
For more information on the Lake Jesup BMAP, contact: Evelyn Becerra, 850-245-8547,
Evelyn.Becerra@FloridaDEP.gov

WEBINAR HOUSEKEEPING

Attendee Participation

Open your control panel.

Join audio:

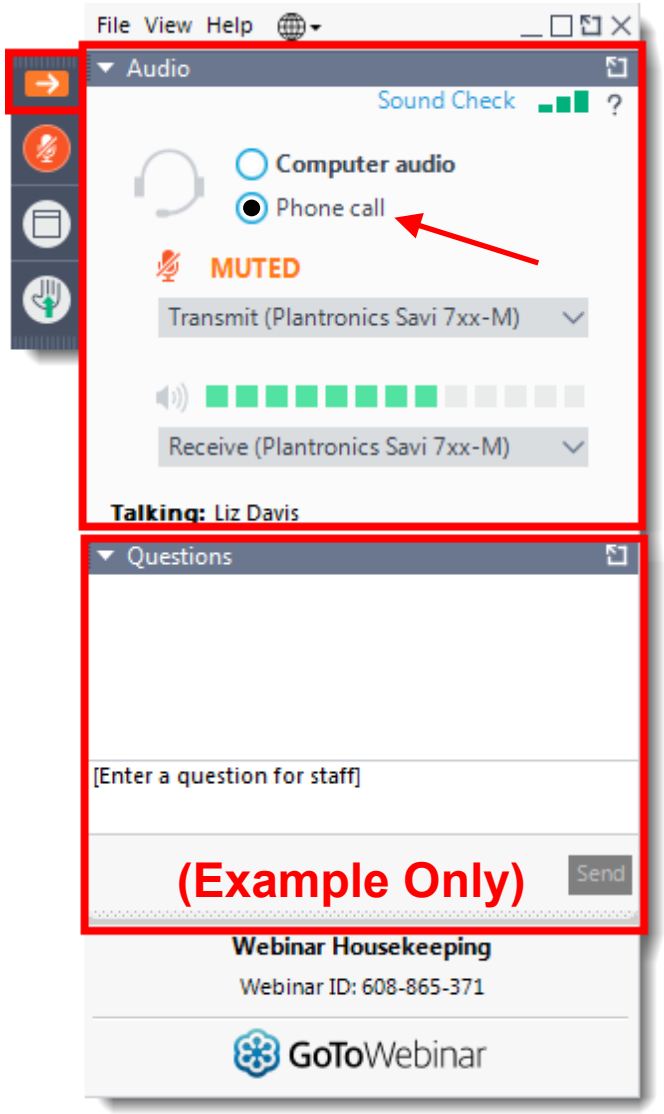
- Choose Computer Audio **or**
- Choose Phone Call and dial using the information provided with your registration.

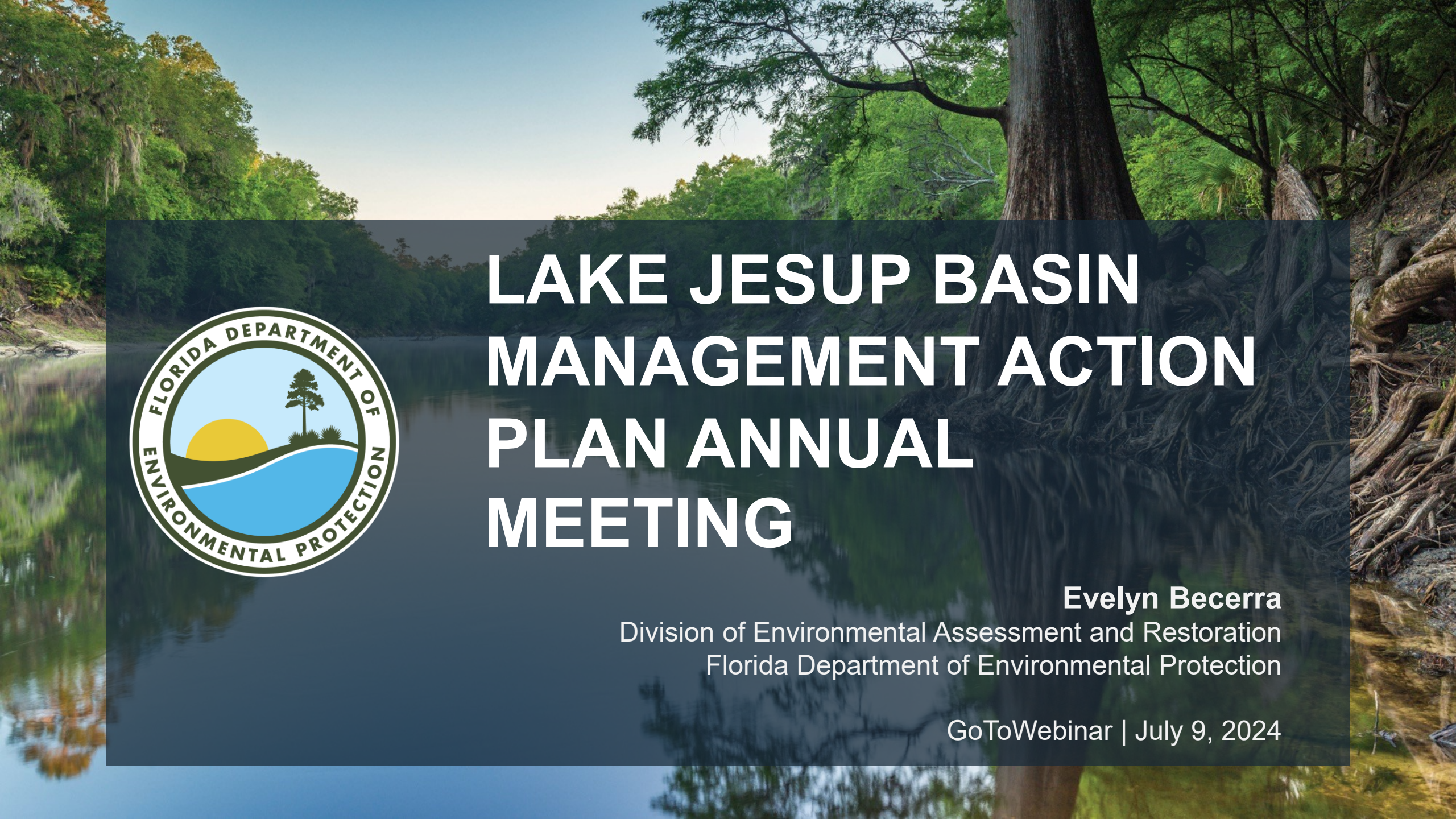
Attendee audio will automatically be muted.

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.





LAKE JESUP BASIN MANAGEMENT ACTION PLAN ANNUAL MEETING

Evelyn Becerra
Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection

GoToWebinar | July 9, 2024

AGENDA

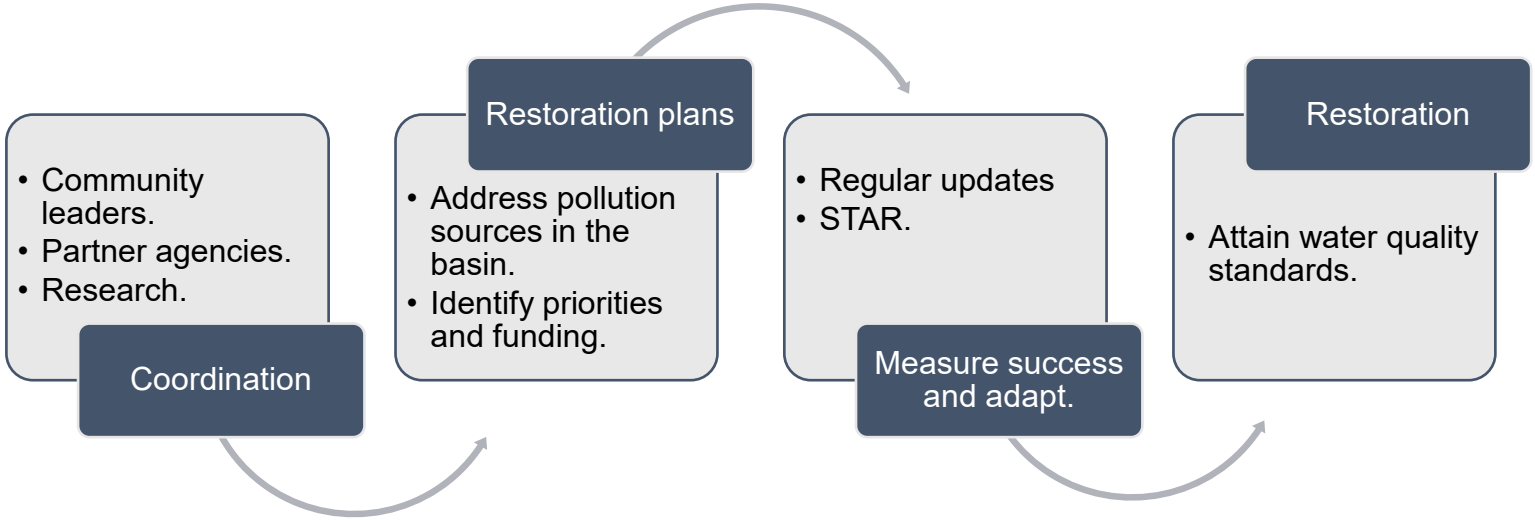
- Basin Management Action Plan (BMAP) Overview.
- Statewide Annual Report (STAR).
- Annual progress.
- St. Johns River Water Management District (SJRWMD) Update.
- Next steps- BMAP update:
  - Milestones.
  - Hot Spot analysis.
  - SJR Model.

BMAPS

One of DEP's methods for **restoring water quality** in an impaired waterbody.

BMAPs are:

- Developed with stakeholder input.
- Adopted by the Florida Department of Environmental Protection's (DEP) Secretarial Order.
- Enforceable.
- Implemented through a phased approach.
- Reported on annually.
- Updated regularly.



KEY BMAP COMPONENTS

- Total maximum daily loads (TMDLs) being addressed.
- Area addressed by the restoration plan.
- Identify sources.
- Phased implementation approach.
- Milestones.
- Projects and management strategies.
- Future growth impacts.

Projects to meet the TMDL:

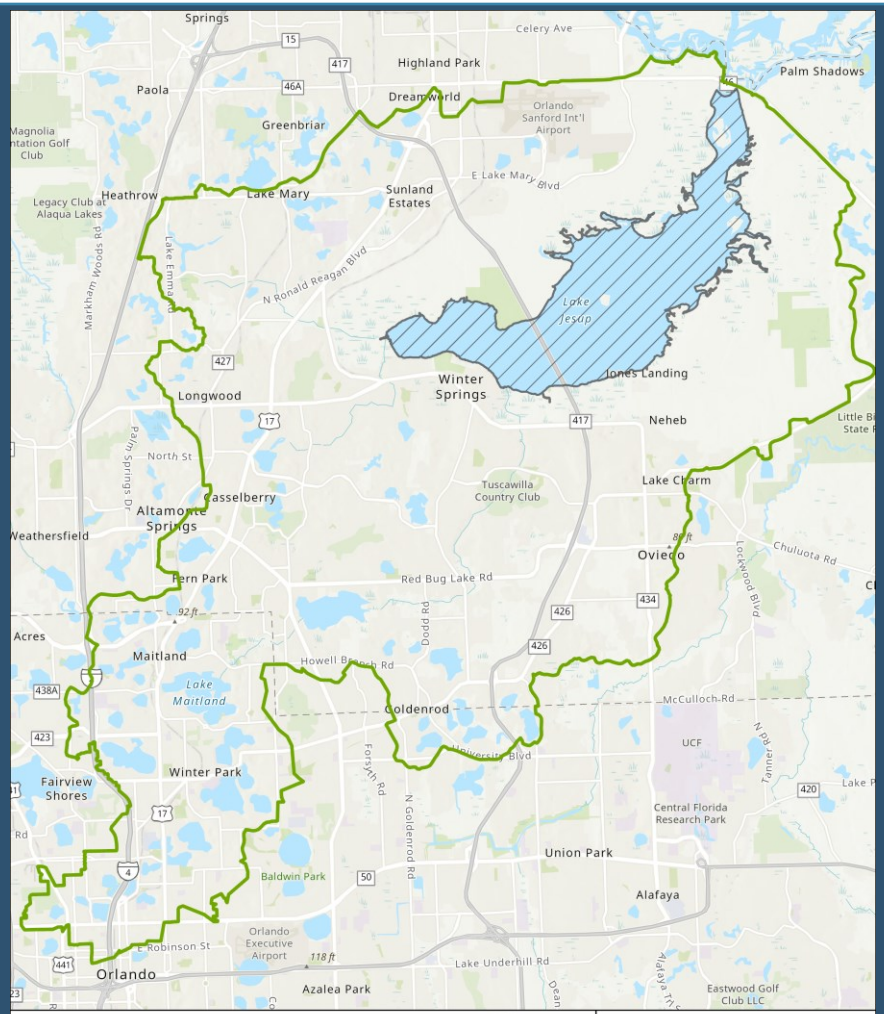
- Implementation timeline.
- Commitment to projects.
- Expected water quality improvement from projects and management strategies.

Process to assess progress toward achieving the TMDL:

- Monitoring plan.
- Project reporting.
- Periodic follow-up meetings.
- Water quality analyses.

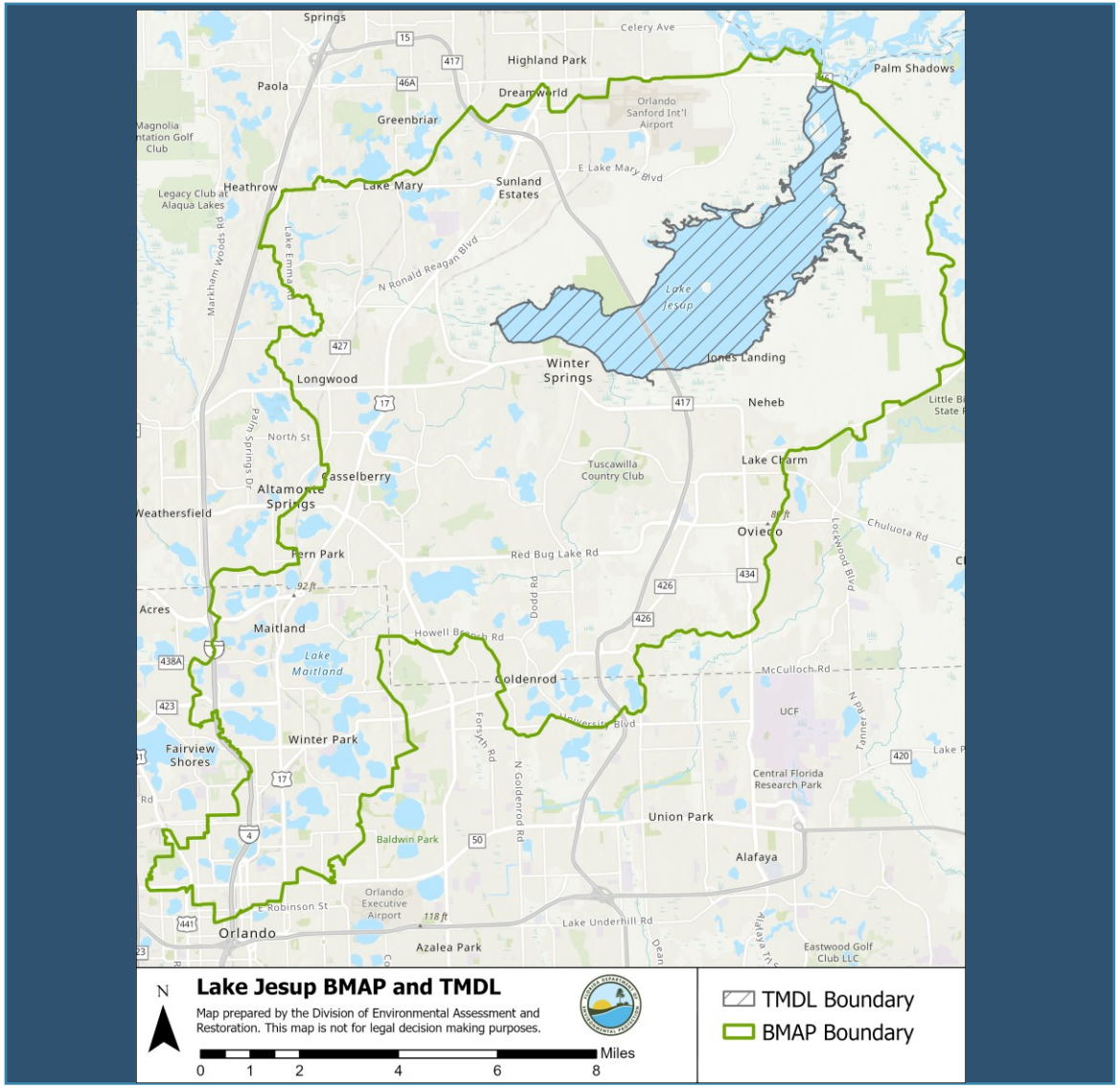
BACKGROUND

LAKE JESUP BMAP STAKEHOLDERS



Stakeholders
City of Altamonte Springs
City of Casselberry
City of Lake Mary
City of Longwood
City of Maitland
City of Orlando
City of Oviedo
City of Sanford
City of Winter Park
City of Winter Springs
Orange County
Seminole County
Site 10
Town of Eatonville
Turnpike Enterprise
Florida Department of Transportation (DOT), District 5
Florida Department of Agriculture and Consumer Services (DACS)
SJRWMD

BACKGROUND
LAKE JESUP BMAP



Lake Jesup TMDL:

- Adopted 2006 for total phosphorus (TP) and total nitrogen (TN).

Lake Jesup BMAP:

- Adopted April 2010 to implement the Lake Jesup TMDL.

BMAP Amendment:

- Adopted July 2019.
- Provides information on changes since the 2010 BMAP was adopted.

- Total required reductions:
  - 11,019 lbs./yr. TP.
  - 55,013 lbs./yr. TN.

CLEAN WATERWAYS ACT: TIMELINE

June 12, 2023

Final Order signed by the Secretary.

July 12, 2023

Deadline for written explanation of potential exemption to be submitted to the department.

Feb. 1, 2024

Deadline for submitting draft onsite sewage treatment and disposal systems (OSTDS) remediation and/or wastewater treatment plans for the department's review.

Aug. 1, 2024

Deadline for submitting complete OSTDS remediation and/or wastewater treatment plans to the department.

The nutrient BMAPs included in the Final Order require these plans.

HB 1379: ENVIRONMENTAL PROTECTION

Strengthen BMAPs:

- Requires a list of identified projects to achieve 5-year milestones.
- Requires a list of agricultural cooperative regional water quality improvement elements.

Improve Comprehensive Planning:

- Requires BMAP projects to be included in comprehensive plans to prioritize implementation.

Improve Domestic Wastewater:

- Requires more stringent wastewater treatment standards, if required to meet the TMDL.

Expand Grant Opportunities.

2024 DEP AGENCY BILL: HB 1557

Advances the protection of our environmental resources by:

Improving Treatment of Reclaimed Water

Ensures that reclaimed water is treated to meet advanced waste treatment (AWT) or a more stringent treatment standard in certain BMAP areas, while still promoting its use to eliminate surface water discharges and meet water supply challenges.

Expanding Wastewater Facility Plans

Supports the development of domestic wastewater treatment plans and OSTDS remediation plans within BMAP or other restoration areas by requiring facilities to provide information to the local entities developing these plans.

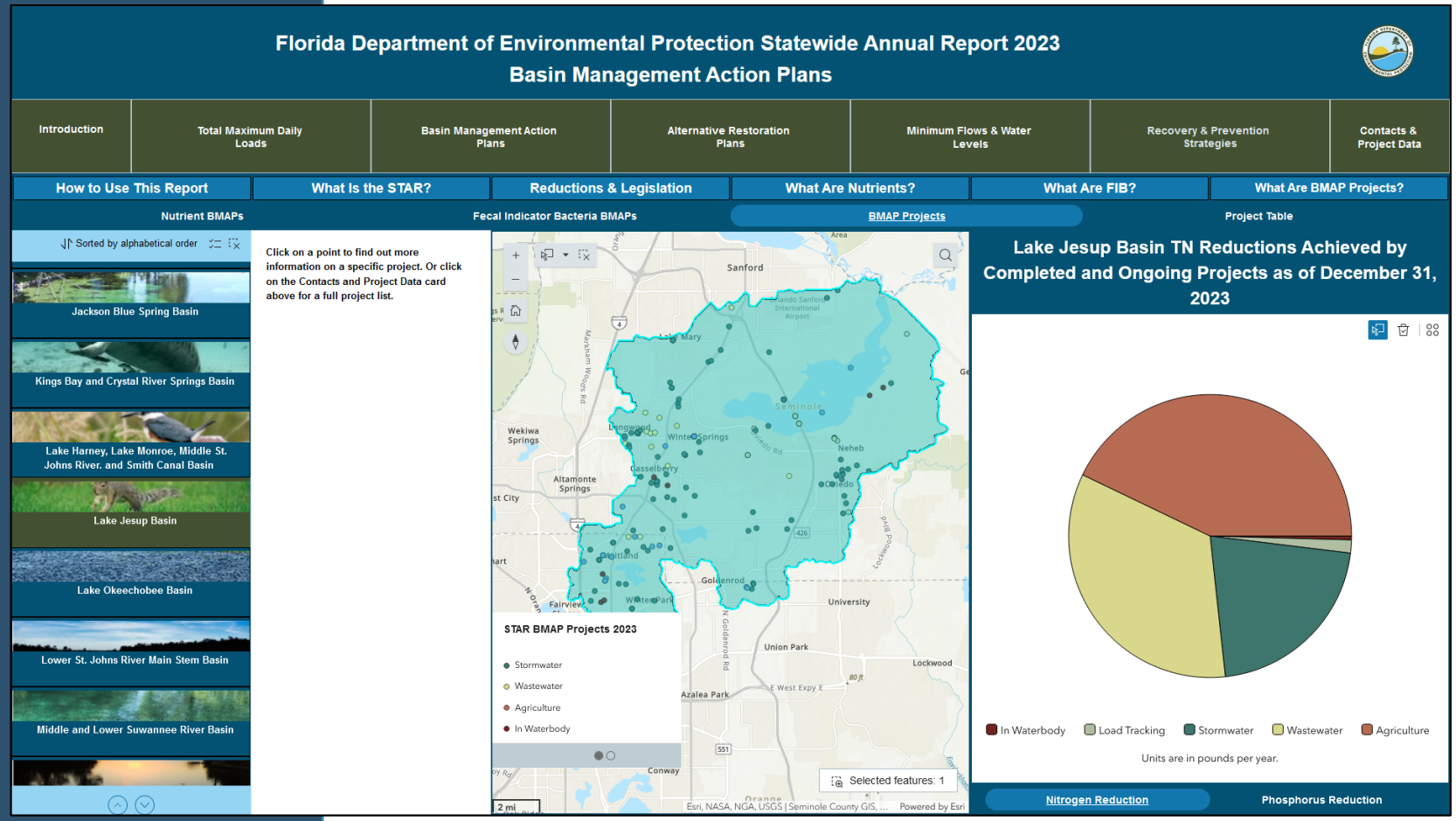
Investing in Innovative Technologies

Creates a program to expeditiously review new and innovative enhanced nutrient-reducing OSTDS to reduce the nutrients entering Florida's waterways.

STAR
PROJECT REPORTING

What is the STAR?

- Summarizes accomplishments in the BMAPs statewide.
- Reports on restoration projects and management strategies.
- Published July 1 of each year.
- STAR 2023 is now live.



https://floridadep.gov/STAR

PROGRESS

LAKE JESUP BMAP STATUS OF PROJECTS

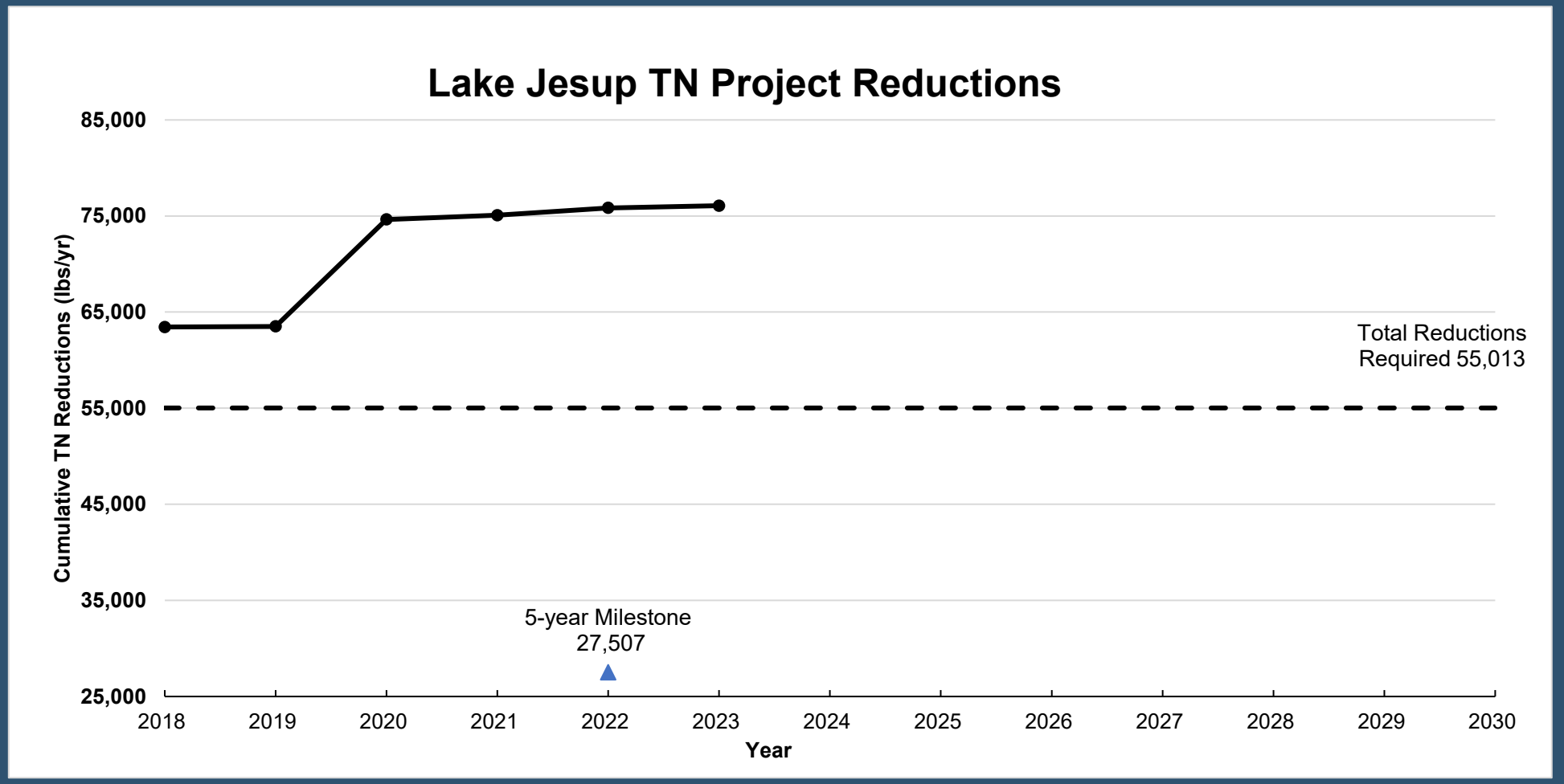
Projects through Dec. 31, 2023.

Lead Entity	Completed	Ongoing	Planned	Underway	Total
City of Altamonte Springs	2	3			**5**
City of Casselberry	10	4	5	2	**21**
City of Lake Mary	1	3			**4**
City of Longwood	15	6	2	2	**25**
City of Maitland	6	4	5	4	**19**
City of Orlando	7	4	3	1	**15**
City of Oviedo	5	4	11	1	**21**
City of Sanford	2	2	2		**6**
City of Winter Park	8	2	1	5	**16**
City of Winter Springs	7	8	1	2	**18**
DACS	1	1		1	**3**
DOT District 5	10	2		3	**15**
Orange County	4	4		1	**9**
Seminole County	10	4	2	4	**20**
Site 10	1				**1**
Town of Eatonville		2			**2**
Turnpike Enterprise	1	2			**3**
Grand Total	**90**	**55**	**32**	**26**	**203**

As of Dec. 31, 2023, verified projects in the Lake Jesup BMAP have reduced **76,067 lbs./yr. of TN** and **12,785 lbs./yr. of TP.**

PROGRESS

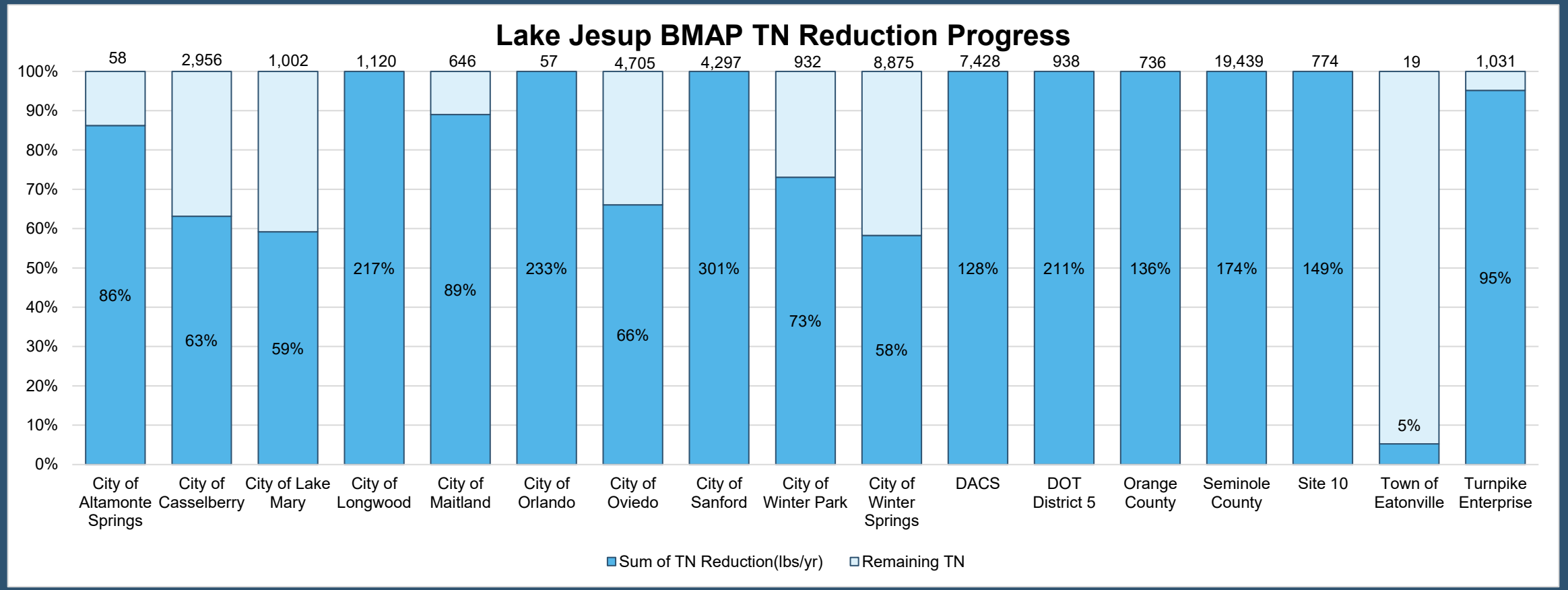
LAKE JESUP BMAP- TN



Completed and ongoing projects only.

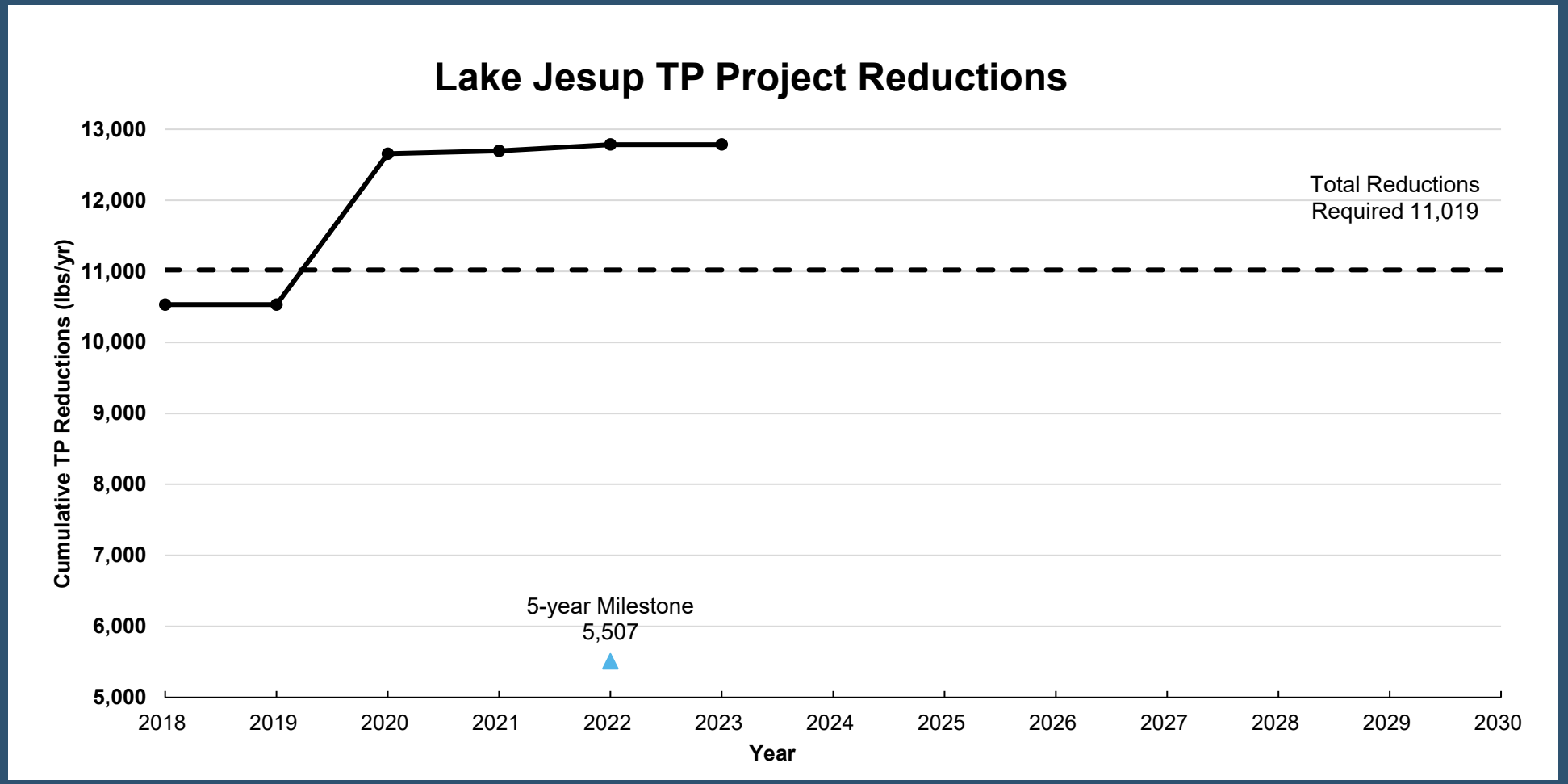
PROGRESS

ENTITY PROGRESS- TN



Completed and ongoing projects only.

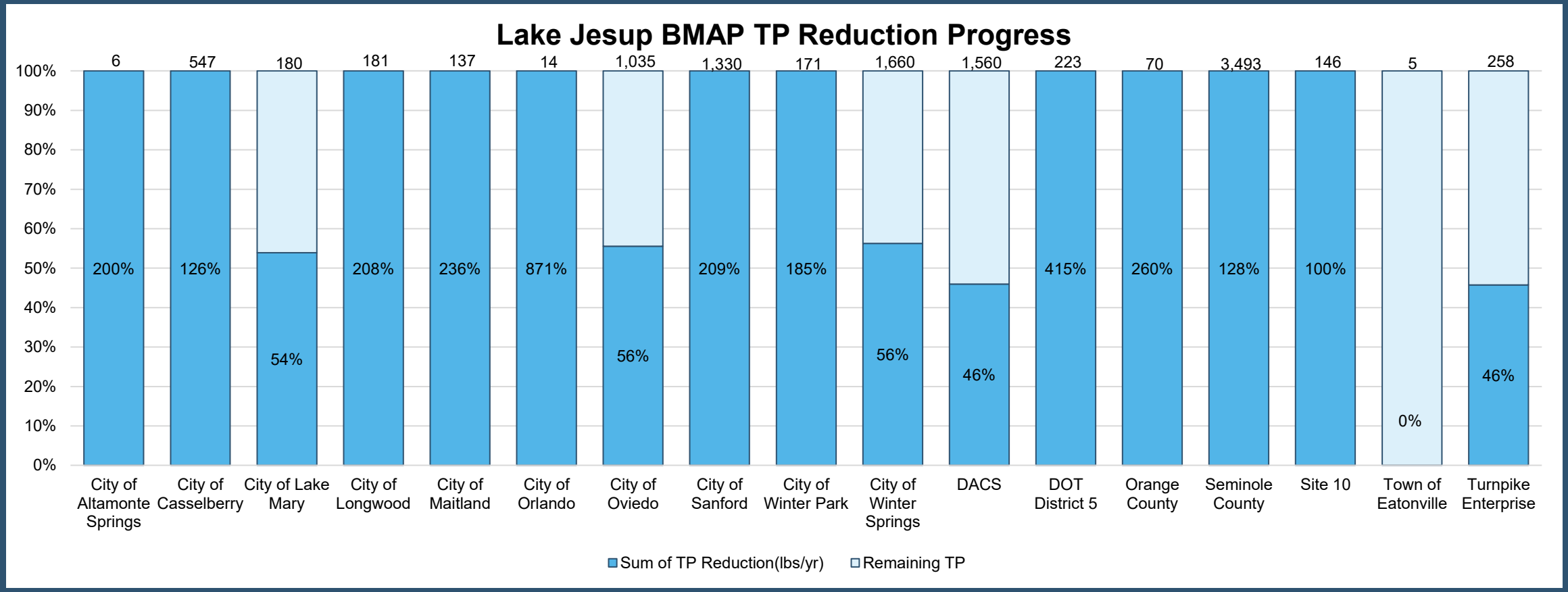
PROGRESS
LAKE JESUP BMAP- TP



Completed and ongoing projects only.

PROGRESS

ENTITY PROGRESS- TP



Completed and ongoing projects only.

DATA UPLOAD
WATERSHED INFORMATION NETWORK (WIN)

- Through both the WIN and Florida STORET (STOrage and RETrieval) data repositories, DEP implements Florida statutory requirements, DEP rule requirements and U.S. Environmental Protection Agency (EPA) funding requirements for management of environmental (non-regulatory) data for the state.

- Data from WIN are used by DEP for standards development, Impaired Waters Rule assessments, TMDL development, reasonable assurance plans, alternative restoration plans, **BMAP development and assessment** and for providing data as required to EPA and to the public.

- WIN data can be retrieved through the WIN Reports and Extracts menu at https://prodenv.dep.state.fl.us/DearWin/.

- Data providers to WIN and STORET include DEP entities, water management districts (WMDs), cities, counties, other state agencies, universities, private and volunteer organizations.

- If your entity is collecting ambient water quality data, please upload it to WIN.

WIN COORDINATORS

WIN Coordinator	DEP District Area or Role	Phone	Email
Justin Nelson	Northeast, Northwest, Southeast	850-245-8510	Justin.M.Nelson@FloridaDEP.gov
Casey Marston	South, Southwest	850-245-8049	Casey.Marston@FloridaDEP.gov
Jason Storrs	Central, Statewide	850-245-8467	Jason.Storrs@FloridaDEP.gov

Lake Jesup BMAP Update

Shannon Salvatori, SJRWMD

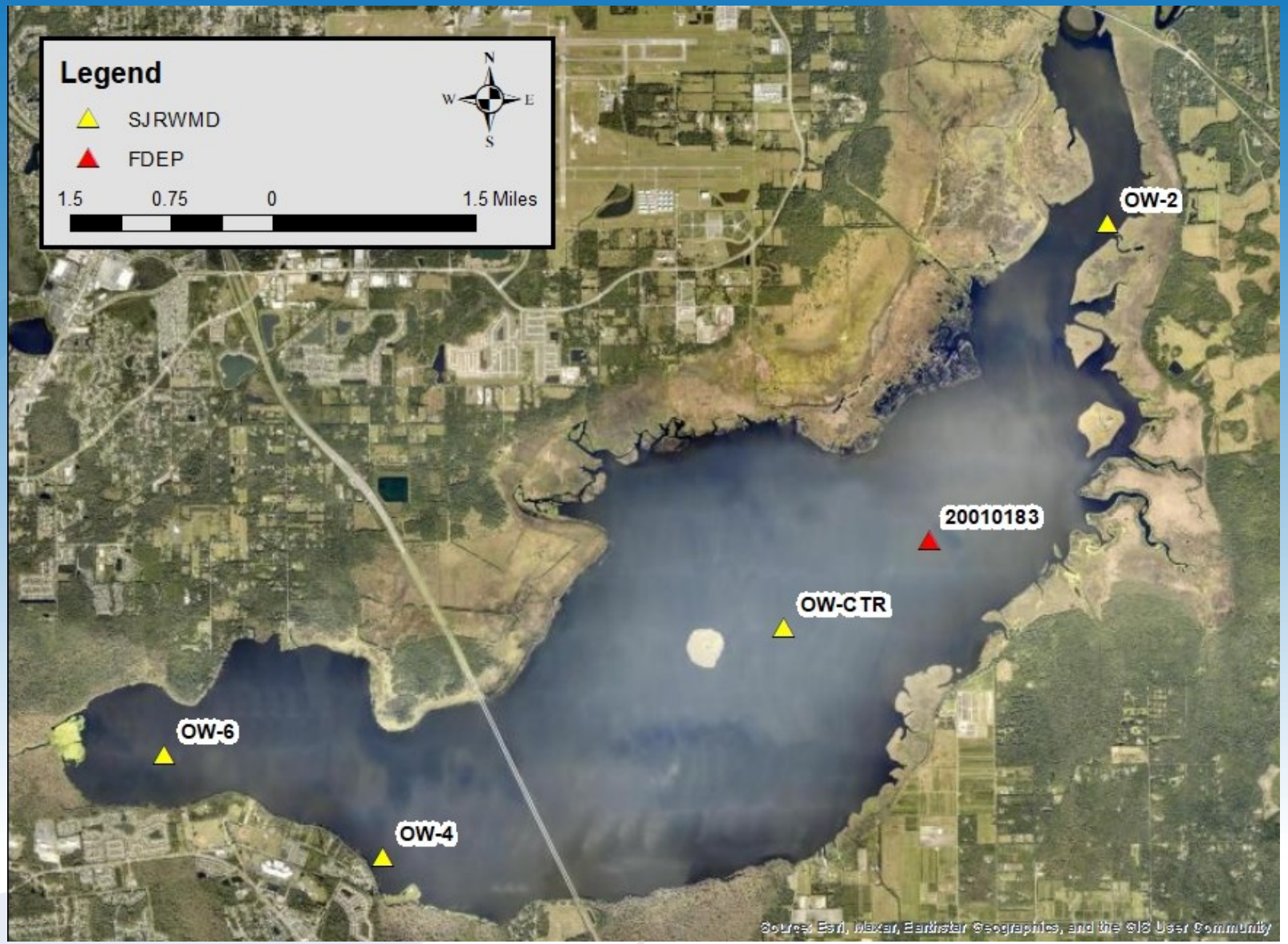
Anne Elise Wester, P.E., Ph.D., SJRWMD

St. Johns River
Water Management District

Water Quality Update

- Jesup impaired for total nitrogen (TN), total phosphorus (TP), and chlorophyll-*a* (Chl-*a*)
  - Target TN: **1.27 mg/L**
  - Target TP: **0.096 mg/L**
  - Target Chl-a: **31.2 mg/m^3**
- Water quality data obtained from St. Johns River Water Management District's Environmental database
- Harmful Algal Bloom (HAB) data obtained from Florida Department of Environmental Protection (DEP) HAB database

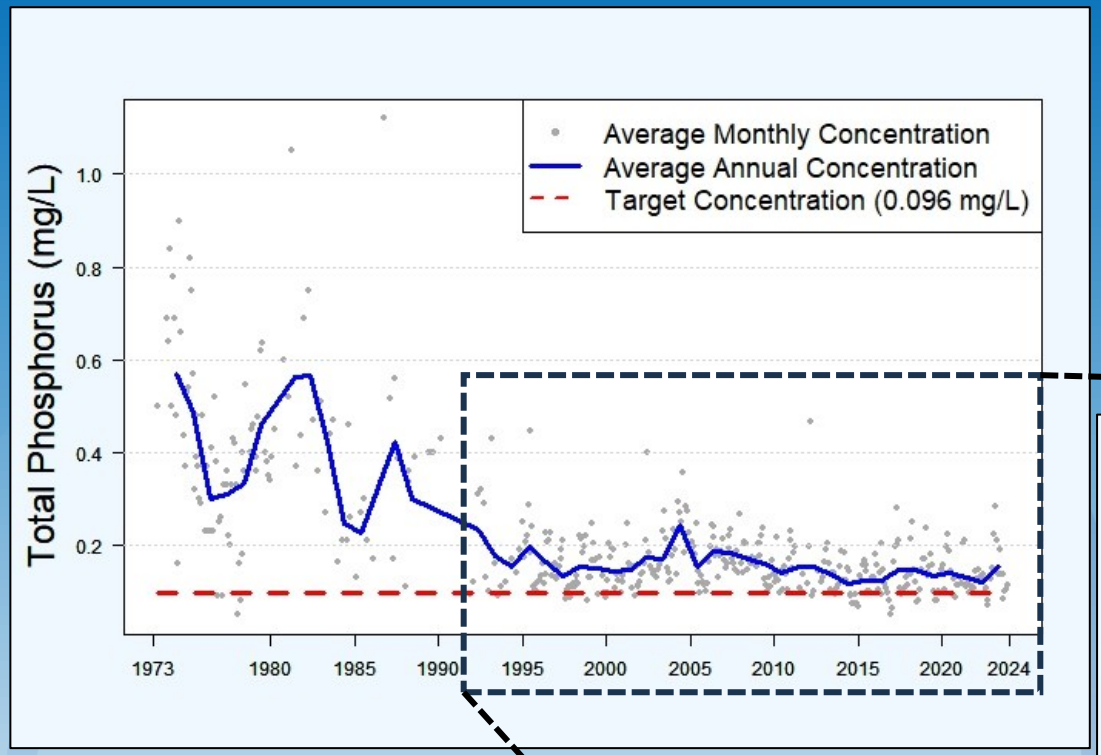
St. Johns River
Water Management District

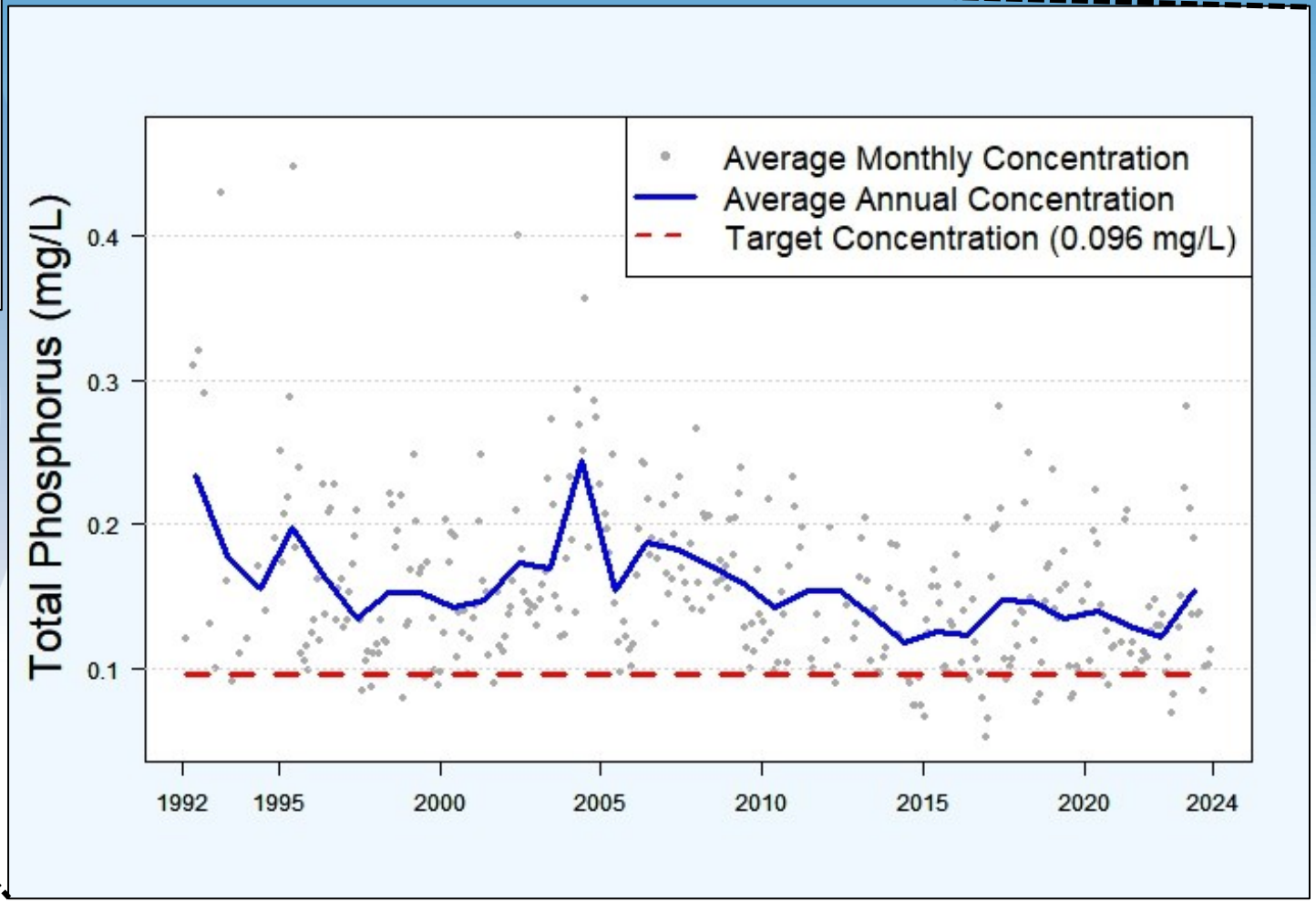


- Water quality stations in Lake Jesup from which data was used in time series plots in this presentation
- OW-CTR also is location of routine algal sampling

St. Johns River
Water Management District

Total Phosphorus





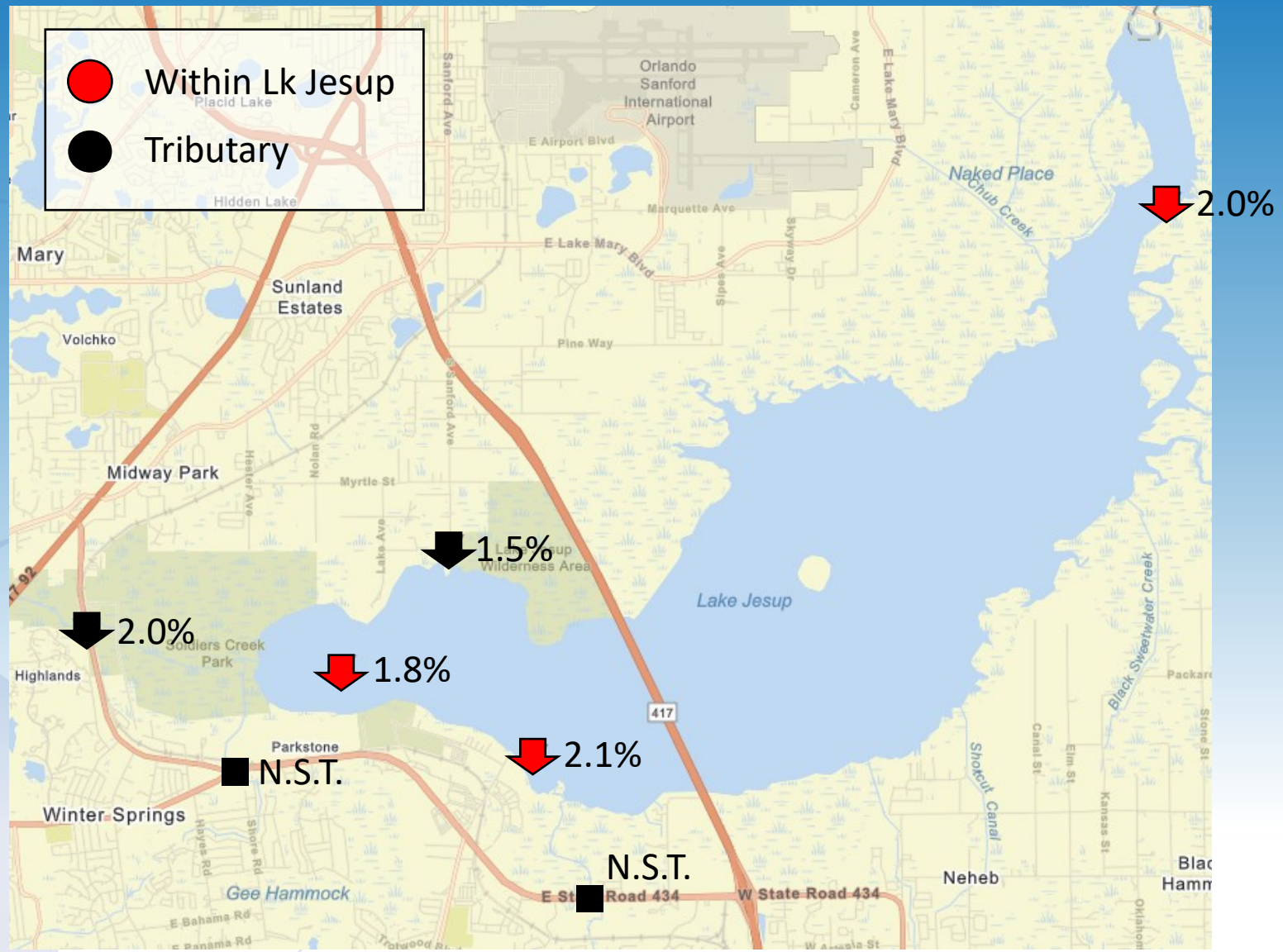
St. Johns River
Water Management District

SJRWMD's Long-Term Trend Report

Total Phosphorus

- 2008-2022 data
- All SJRWMD sites
- Report updated annually

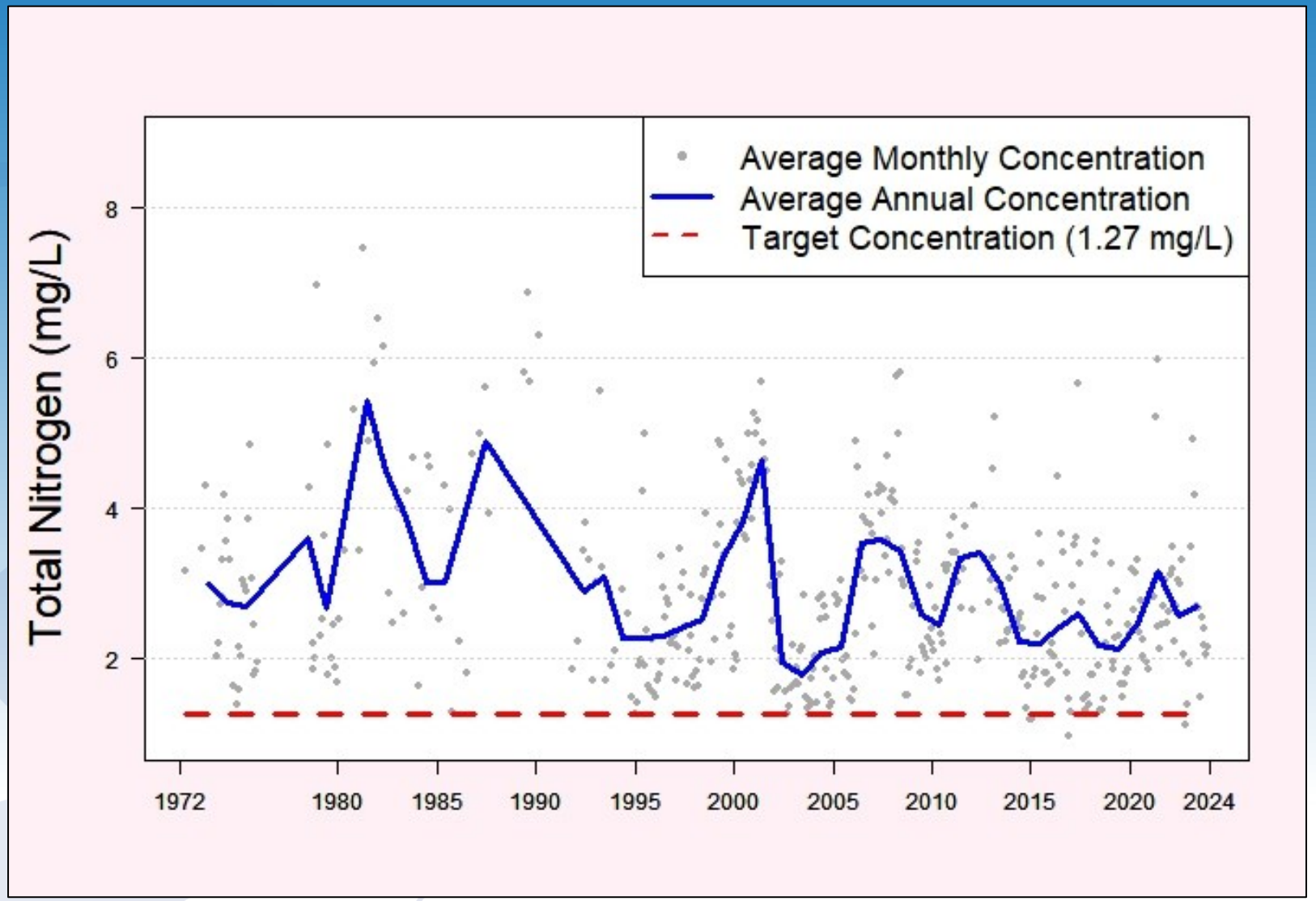
- **N.S.T.** = NO STATISTICAL TREND



St. Johns River Water Management District

SJRWMD Status and Trends reports:
www.sjrwmd.com/data/water-quality/#status-trends

Total Nitrogen



St. Johns River
Water Management District

SJRWMD's Long-Term Trend Report

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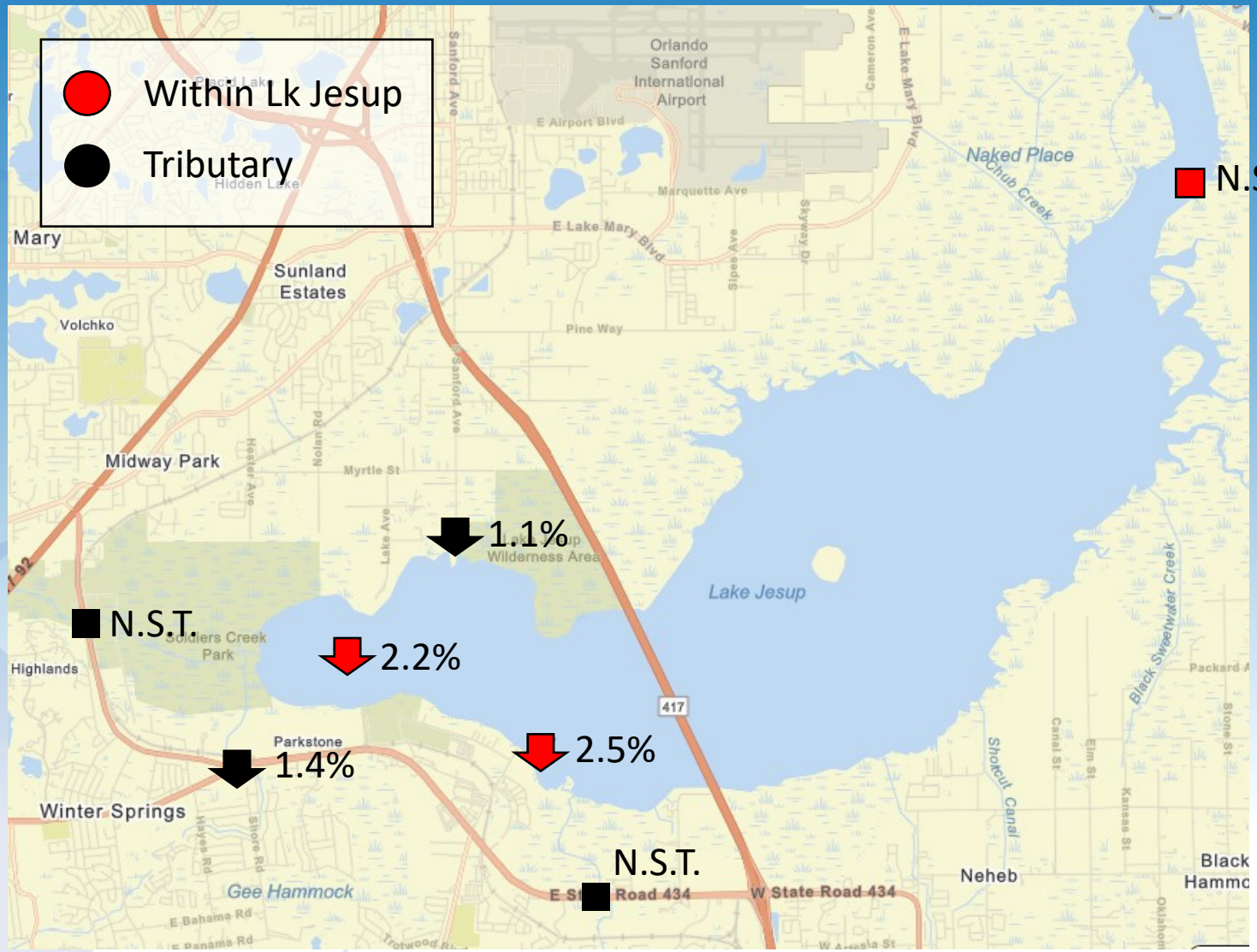

St. Johns River Water Management District

SJRWMD Status and Trends reports:
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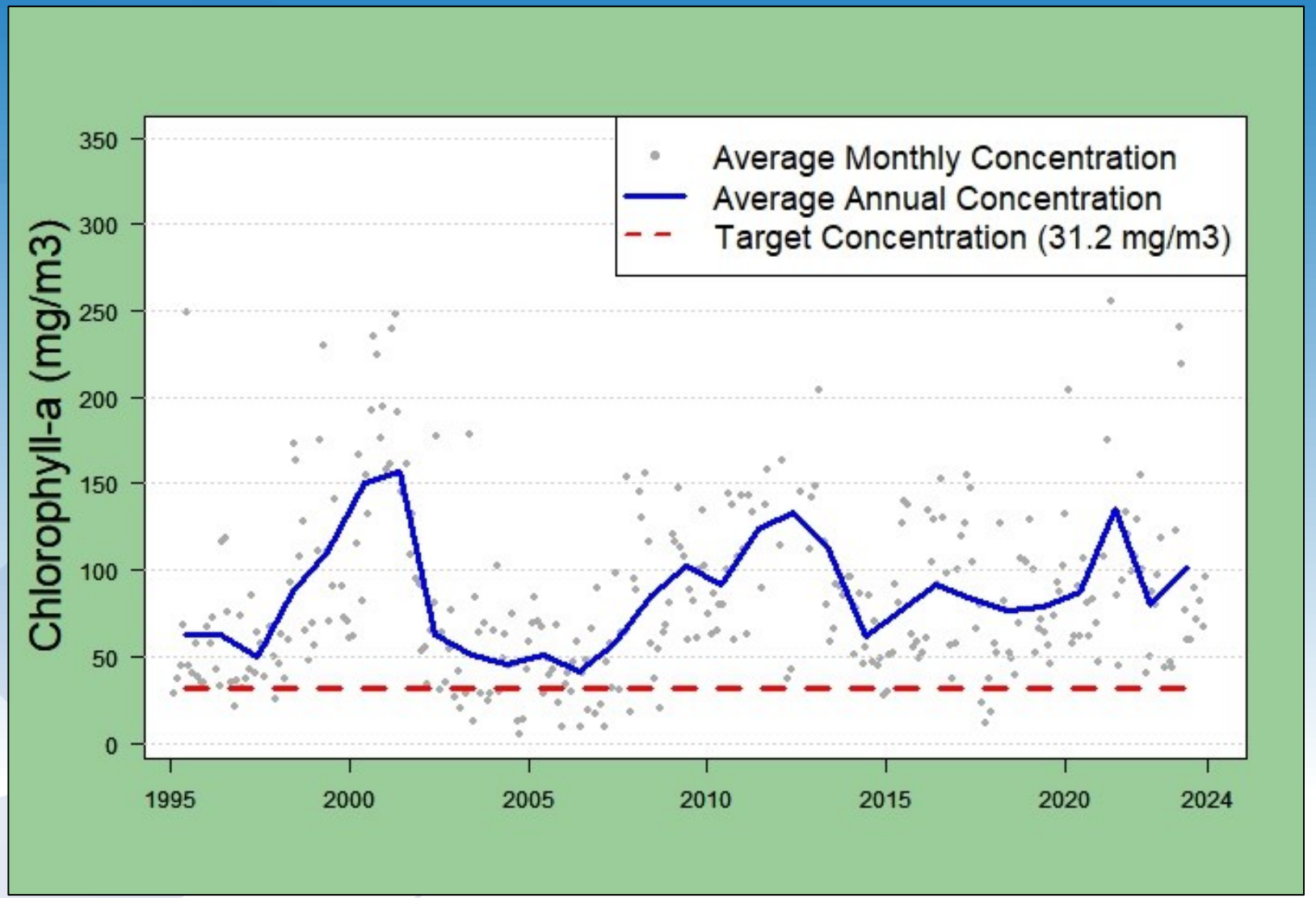
Chlorophyll-*a* (Chl-*a*)



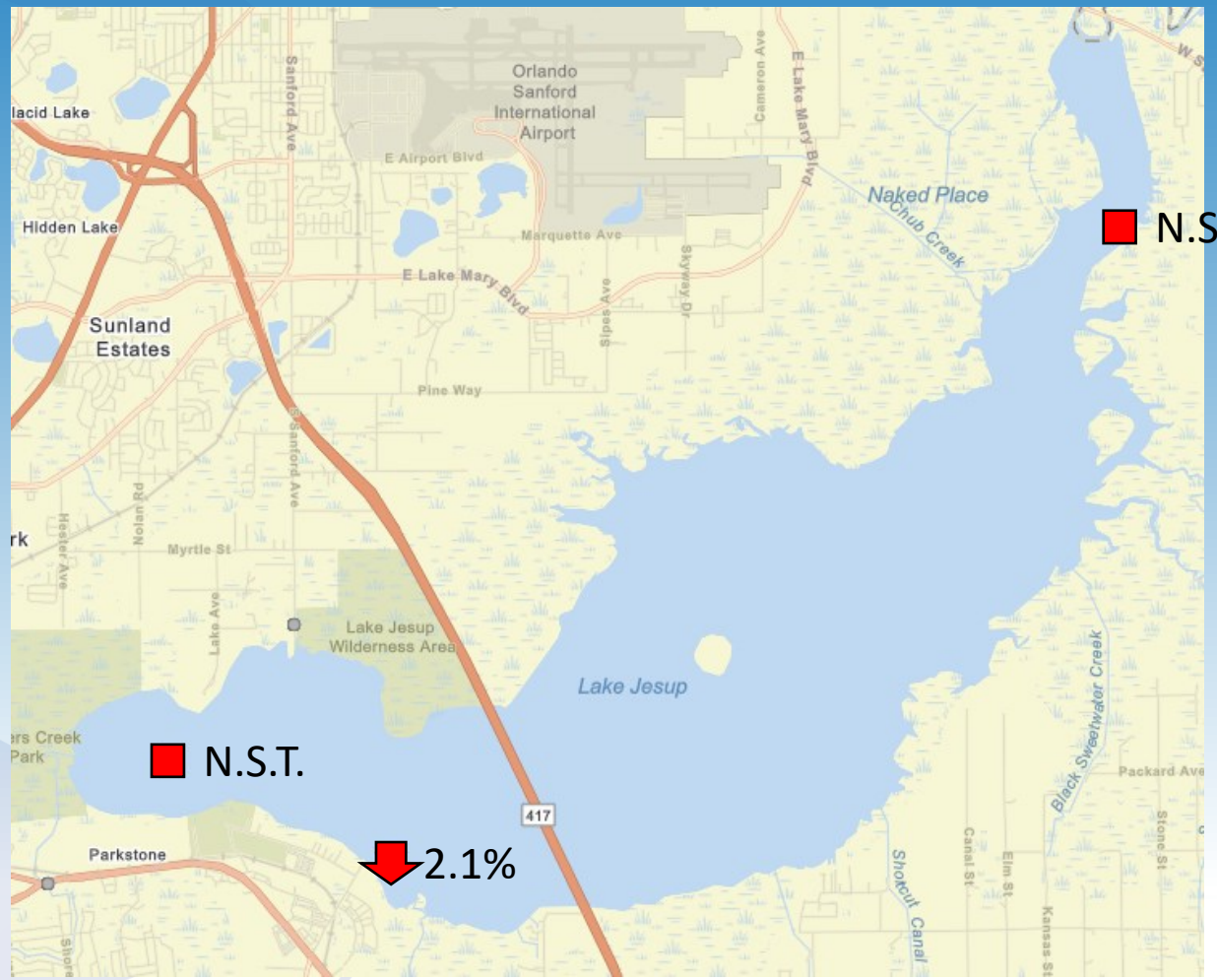
St. Johns River
Water Management District

SJRWMD's Long-Term Trend Report

Chlorophyll-*a*

- 2008-2022 data
- All SJRWMD sites
- Report updated annually

- **N.S.T.** = NO STATISTICAL TREND



St. Johns River Water Management District

SJRWMD Status and Trends reports:
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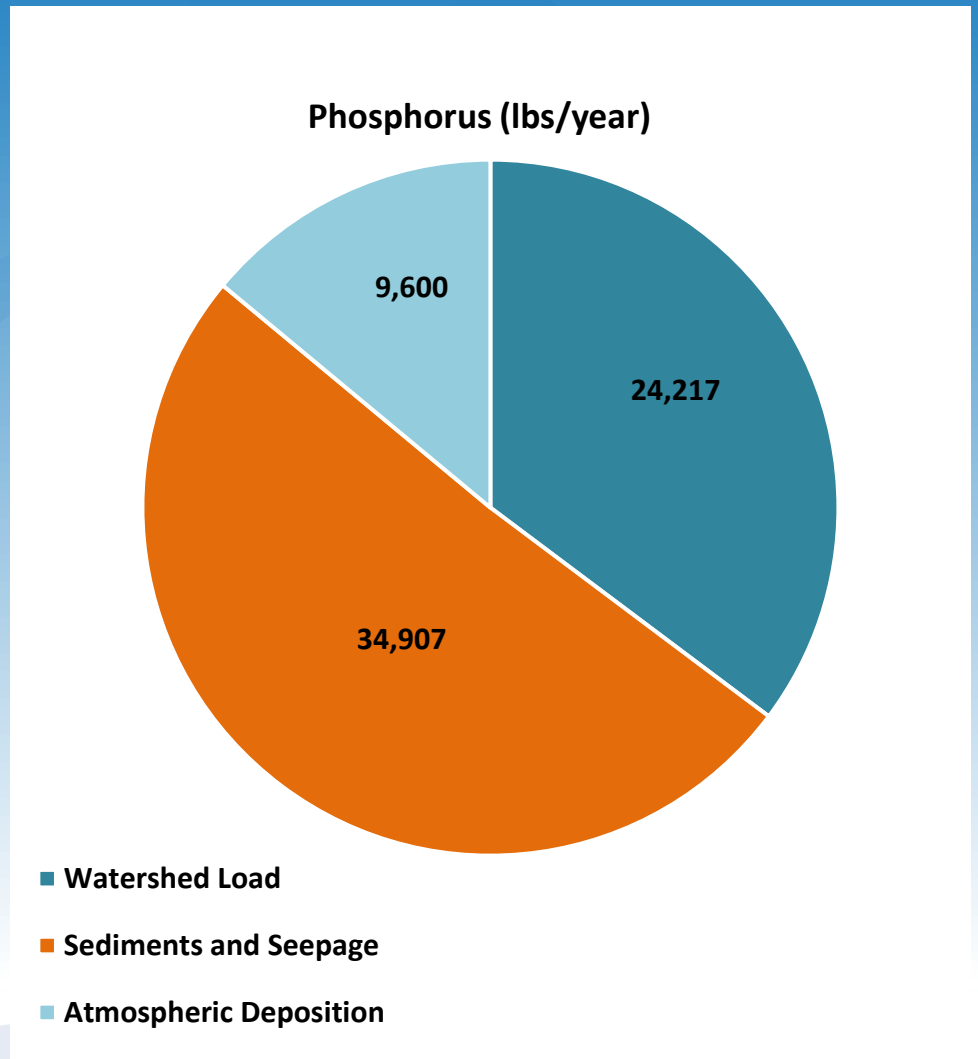
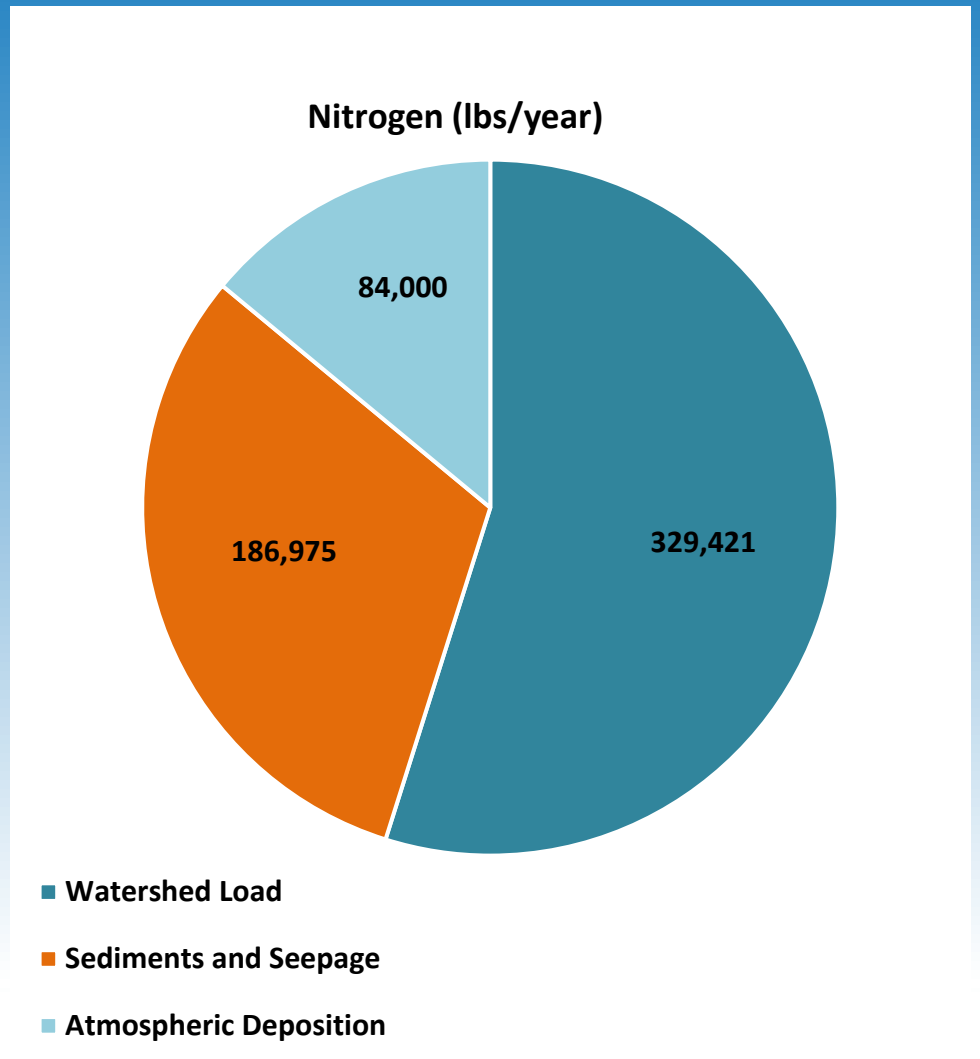
Nutrient Load Sources





St. Johns River Water Management District

Florida Department of Environmental Protection (2019) *Lake Jesup Basin Management Action Plan Amendment*, p.13

Harmful Algal Blooms

- 18 samples taken in total on Jesup in 2023
- 13 samples with toxin detection
  - Max Cylindrospermopsin = 0.70 µg/L
  - Max Microsystin = 1.40 µg/L
  - 1 Anatoxin detection = 0.52 µg/L
  - No Nodularin detections
- All reported toxin detections were below EPA's recommended recreational limits:
  - 8 µg/L for Microcystins
  - 15 µg/L for Cylindrospermopsin
- Most common taxa
  - *Microcystis aeruginosa*
  - *Raphidiopsis (Cylindrospermopsis) raciborskii*
  - *Planktolyngbya limnetica*
- DEP Algal Bloom Dashboard: https://floridadep.gov/AlgalBloom

Photo taken by samplers at OW-CTR on 4/27/2023

St. Johns River Water Management District

Upcoming Projects

- Nutrient reduction system
- Acquisition of the adjacent floodplain

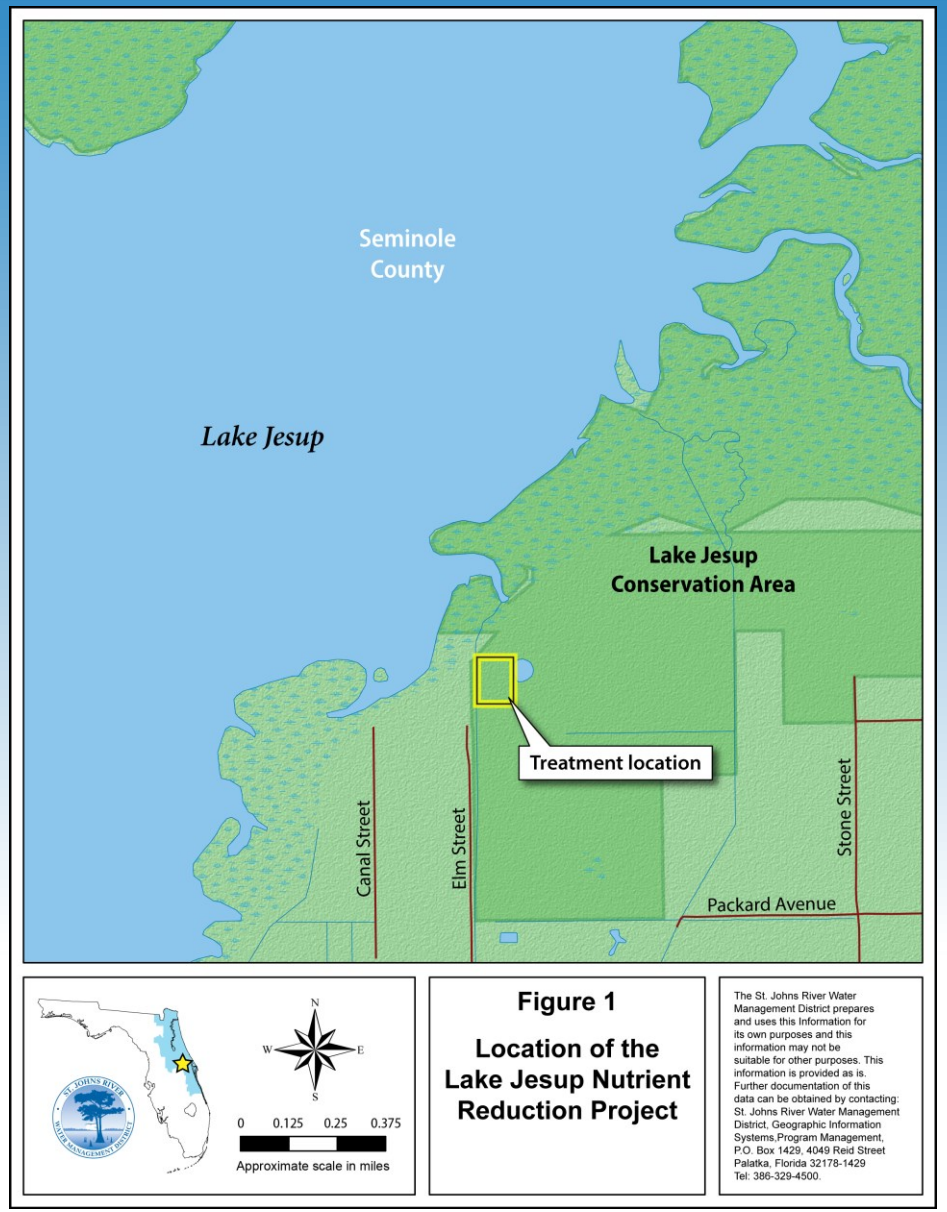
St. Johns River
Water Management District

Lake Jesup Nutrient Reduction System

- Development of a full-scale nutrient removal system
  - Pump raw water from Lake Jesup
  - Treat on the 9.7-acre upland District property

- Anticipated nutrient reduction from the lake
  - 50,000-80,000 lbs/year total nitrogen
  - 5,000-6,000 lbs/year total phosphorus

- In January 2024, the District went under contract with Tetra Tech for the design and permitting of the full-scale project.
  - Target completion date is September 2026
  - Includes a 12-month benchtop-scale pilot project

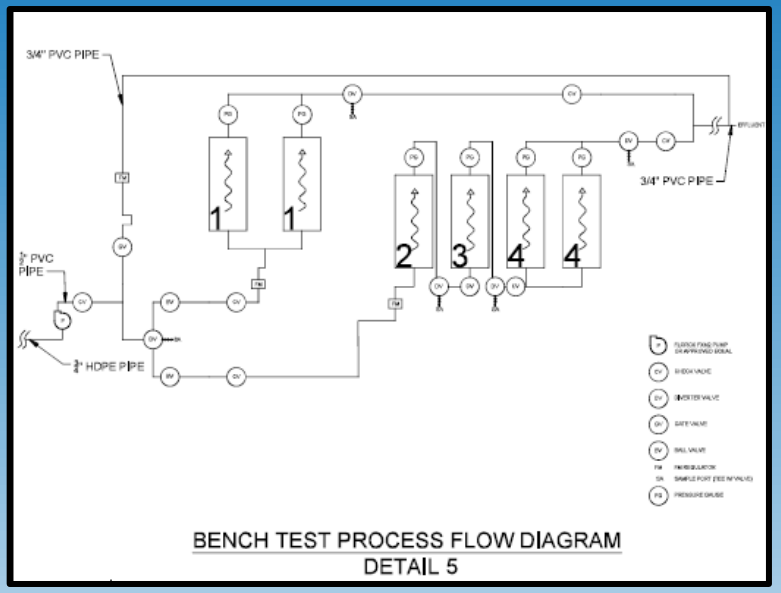


St. Johns River Water Management District

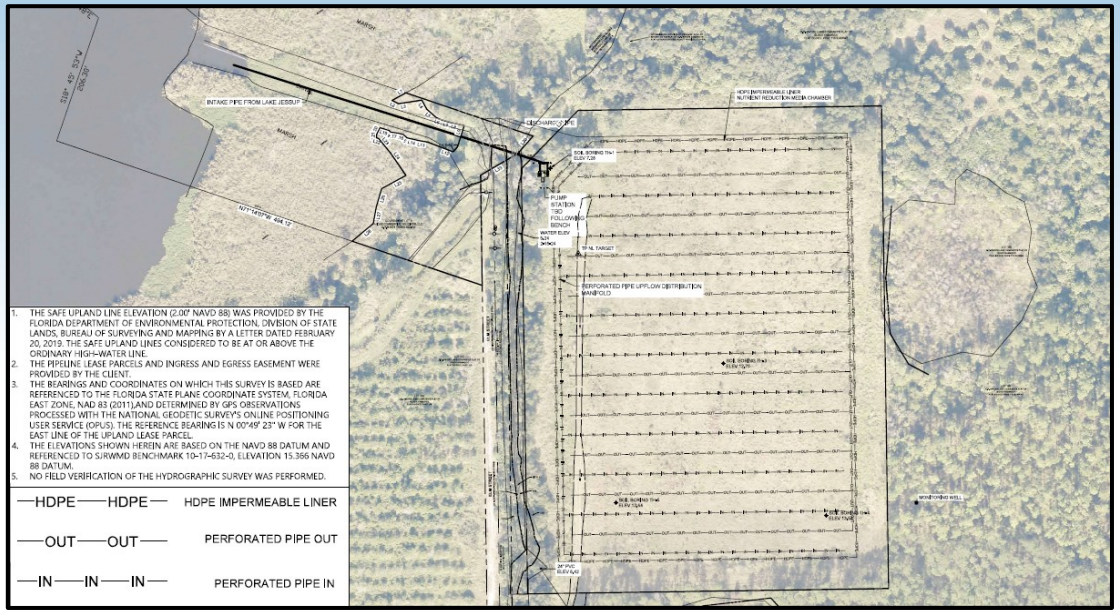
Project Status

- Pilot Project Status
  - Draft Benchtop-scale Design
  - Draft Nutrient Reduction Media Tech Memo
  - **12-month study is expected to begin in September**

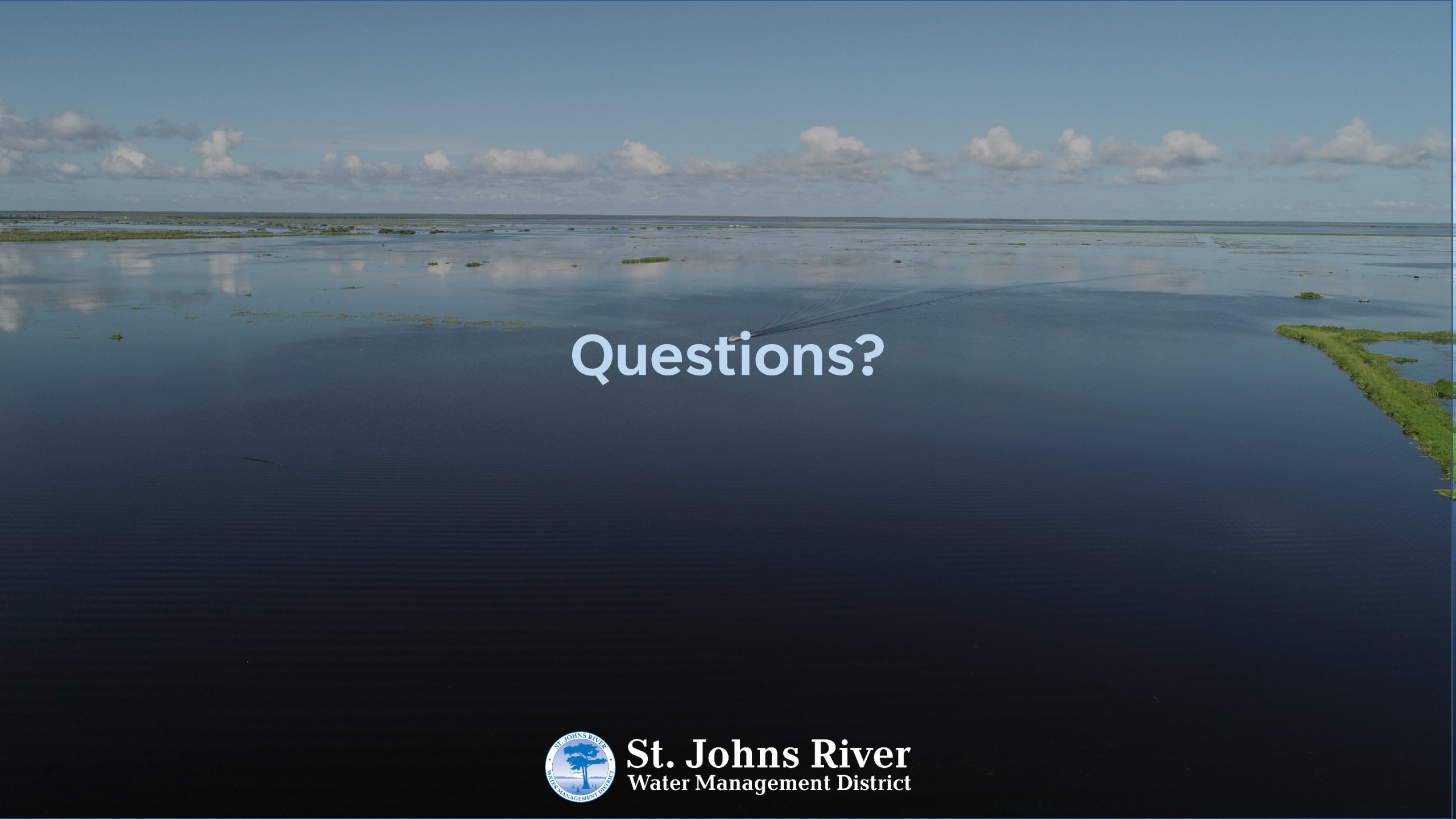
- Full-scale Project Design Status
  - Site Survey
  - Wetland and Biological Survey
  - Draft Conceptual Design
  - Geotechnical Evaluation



BENCH TEST PROCESS FLOW DIAGRAM
DETAIL 5



St. Johns River
Water Management District



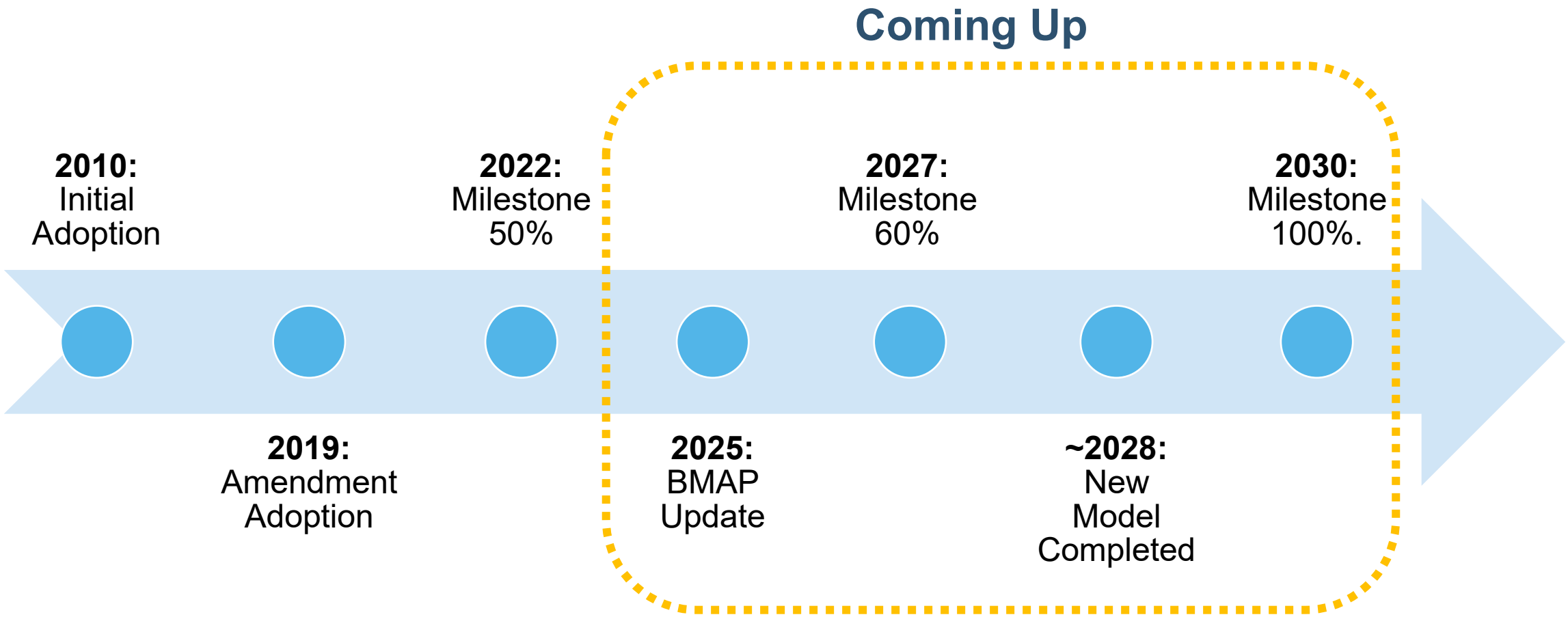
St. Johns River
Water Management District

UPCOMING

2025 BMAP UPDATE COMPONENTS

- Establish entity milestones.
- Wastewater effluent limits based on size of facility and effluent disposal method utilized.
- OSTDS requirements for new systems on lots one acre or less.
- Inclusion of a hot spot analysis.
- Evaluation of the monitoring network.
- Inclusion of regional projects.
- Addition of future growth estimates.
- Inclusion of the Clean Waterways Act requirements.

BMAP TIMELINE AND MILESTONES



HOT SPOT ANALYSIS DEVELOPMENT

OVERVIEW

Purpose:

- To find more specific areas to focus restoration activities.
- To highlight areas where projects might have stronger results.
- To highlight areas where more investigation is needed.

Analysis is NOT to determine BMAP or TMDL compliance.

HOT SPOT ANALYSIS DEVELOPMENT

COMPONENTS OF THE HOT SPOT INDEX

These four statistics calculated for the BMAP overall and used to compare against each station average:

- TN or TP concentration average.
- TN or TP 90th percentile.
- TN or TP Standard Deviation (SD).
- TN or TP Percent Frequency of Samples over Threshold.

BMAP Threshold:

- Lake Jesup Basin:
  - TN – 1.27 mg/L.
  - TP – 0.096 mg/L.

HOT SPOT ANALYSIS DEVELOPMENT

INDEX RANKING APPROACH

Station Concentration Average Rank

Compare to BMAP Threshold and overall BMAP average.

Rank 0: Station average below BMAP threshold.

Rank 1: Station average above threshold but below BMAP average.

Rank 2: Station average 2x above BMAP average.

Percentiles Rank

Compare to BMAP Threshold and 90th percentile for the whole BMAP.

Rank 0: Station average below BMAP threshold.

Rank 1: Station average above threshold but below 90th percentile.

Rank 2: Station average above 90th percentile.

SD Rank

Compare to overall BMAP SD.

Rank 0: Station average below BMAP average + 0.5 SD.

Rank 1: Station average at or above average + 0.5 SD but less than BMAP average + 1 SD.

Rank 2: Station average at or above BMAP average + 1 SD.

Frequency Rank

Compare to BMAP Threshold.

Rank 0: Station percent exceedance below 5% of samples.

Rank 1: Station exceedances between 5% and 49% of samples.

Rank 2: Station exceedances over 50% of samples.

HOT SPOT ANALYSIS DEVELOPMENT

FINAL OVERALL RANK

Average Rank
+
Percentile Rank
+
SD Rank
+
Frequency Rank

=

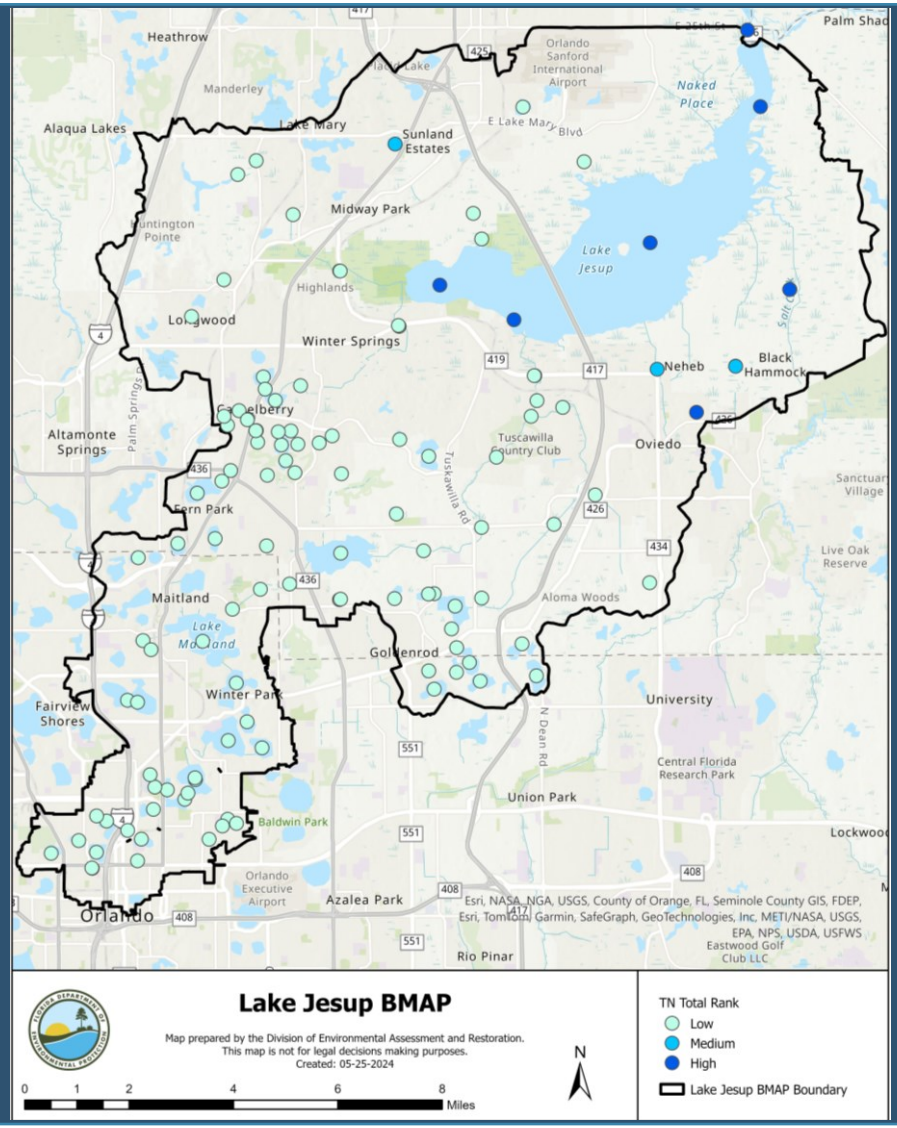
Total Index Rank

Rank 0 = Least Concern
Rank 8 = High Concern

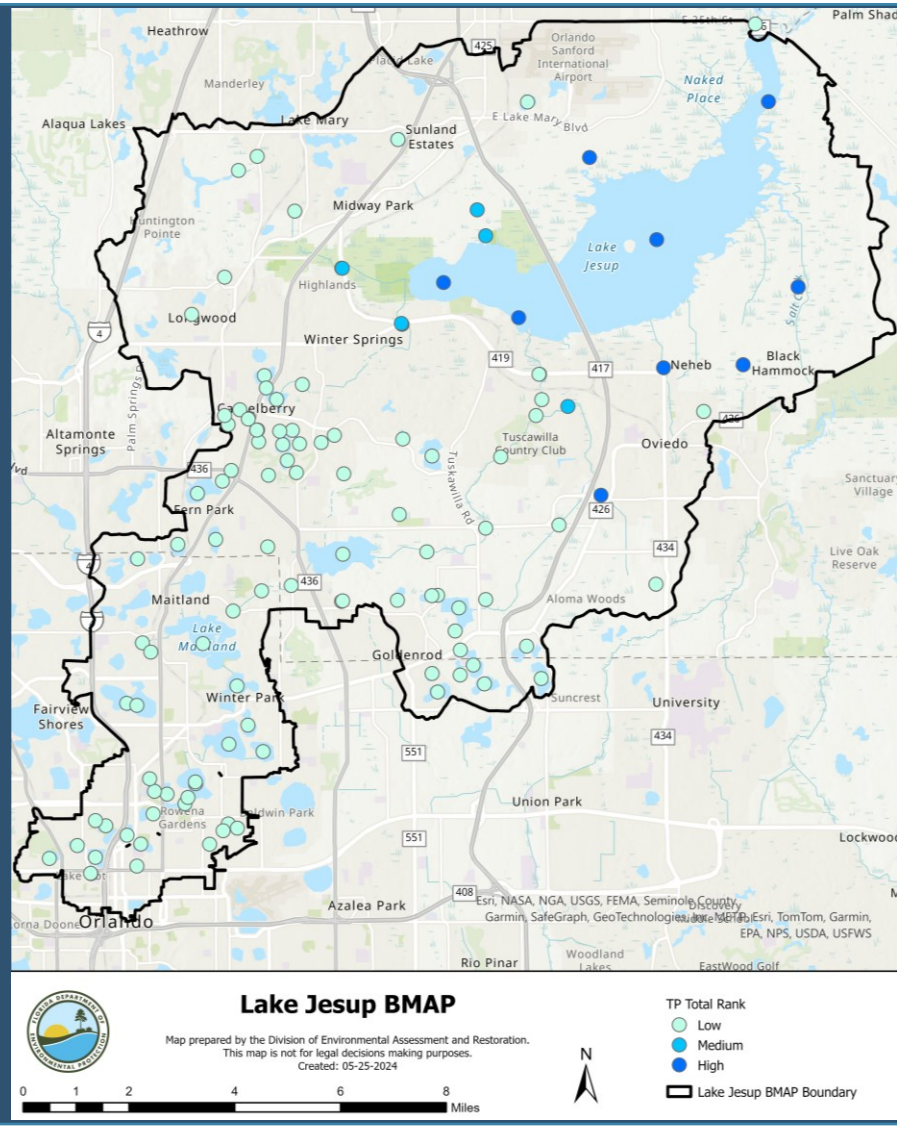
HOTSPOT ANALYSIS RESULTS DRAFT

LAKE JESUP BMAP

TN:



TP:



AGRICULTURAL COOPERATIVE ELEMENT (ACE)

- Cooperative Agricultural Regional Water Quality Improvement elements will establish a collaborative framework for identifying, prioritizing, and implementing regional projects that address nutrient loading from agricultural operations in Florida's waterways.
- These elements establish a structured framework efforts among key stakeholders, including:
  - DEP.
  - DACS.
  - Water management districts (WMDs).
  - Agricultural producers.
  - Local communities.

AGRICULTURAL COOPERATIVE ELEMENT (ACE)

- Engaging producers in the decision-making process is key to this element and ensures that projects are practical, feasible and tailored to the needs and realities of agricultural operations.

- Partner agencies work in annual cycles to provide technical support, regulatory guidance and funding opportunities, enhancing the implementation and success of regional water quality improvement initiatives.

FUTURE GROWTH

Domestic Wastewater Projections:

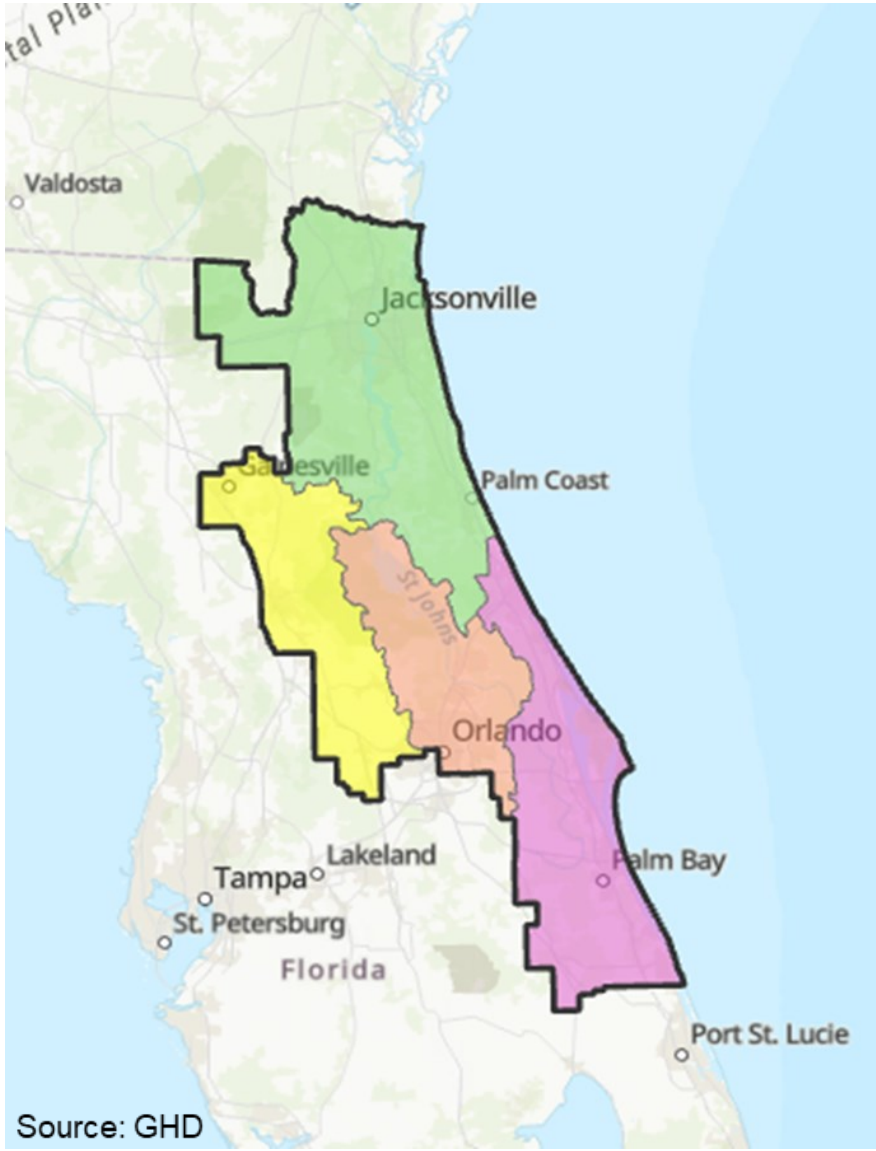
- Use wastewater to estimate future growth projections.
- Start with population growth for each county from Bureau of Economic and Business Research:
  - 2040 Medium Growth Projections.
- Proportion growth for each entity based on land area.
- Distinguish the future population expected to be served by sewer versus those with OSTDS based on the most recent Florida Water Management Inventory for each BMAP county.
- Use per person calculations to estimate future loads from wastewater treatment facility (WWTF) and OSTDS.

Agriculture Projections:

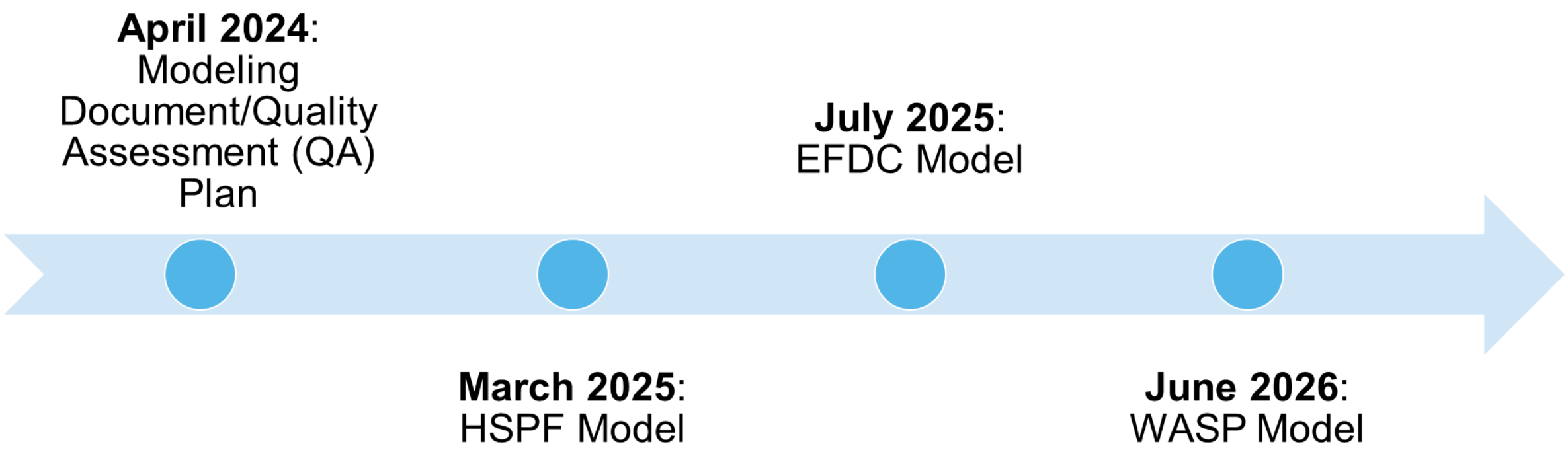
- Exploring different tools to estimate future changes in agricultural acreage in the BMAPs to estimate changes in agricultural loading.

SJR MODEL UPDATE

- Public meeting was held on March 12, 2024.
- Meeting materials are available at this link or the QR code below.



SJR MODEL UPDATE
PROJECT SCHEDULE



HSPF: Hydrologic Simulation Program FORTRAN
EFDC: Environmental Fluid Dynamics Code
WASP: Water Quality Analysis Simulation Program

SJR MODEL UPDATE
STAKEHOLDER COORDINATION

- Periodic project updates will be sent via email.
- The project email list will be used for sending updates.
- To be added to the project email list, send your contact information:
  - Admin@WildwoodConsulting.net.
  - Or visit the website (QR code below), go to the “Contact” tab and enter your contact information.

SJR MODEL UPDATE

DATA SHARING: OPPORTUNITIES TO ENGAGE

Source: Plexel

- Provide additional data for the EFDC Model by Aug. 1, 2024.
- To share data, questions or concerns, please contact StJohnsRiverData@ghd.com
- Data must:
  - Meet the requirements of DEP's Standard Operating Procedures (SOP).
  - When sharing data, please include:
    - Name.
    - Organization/Company.
    - Role.

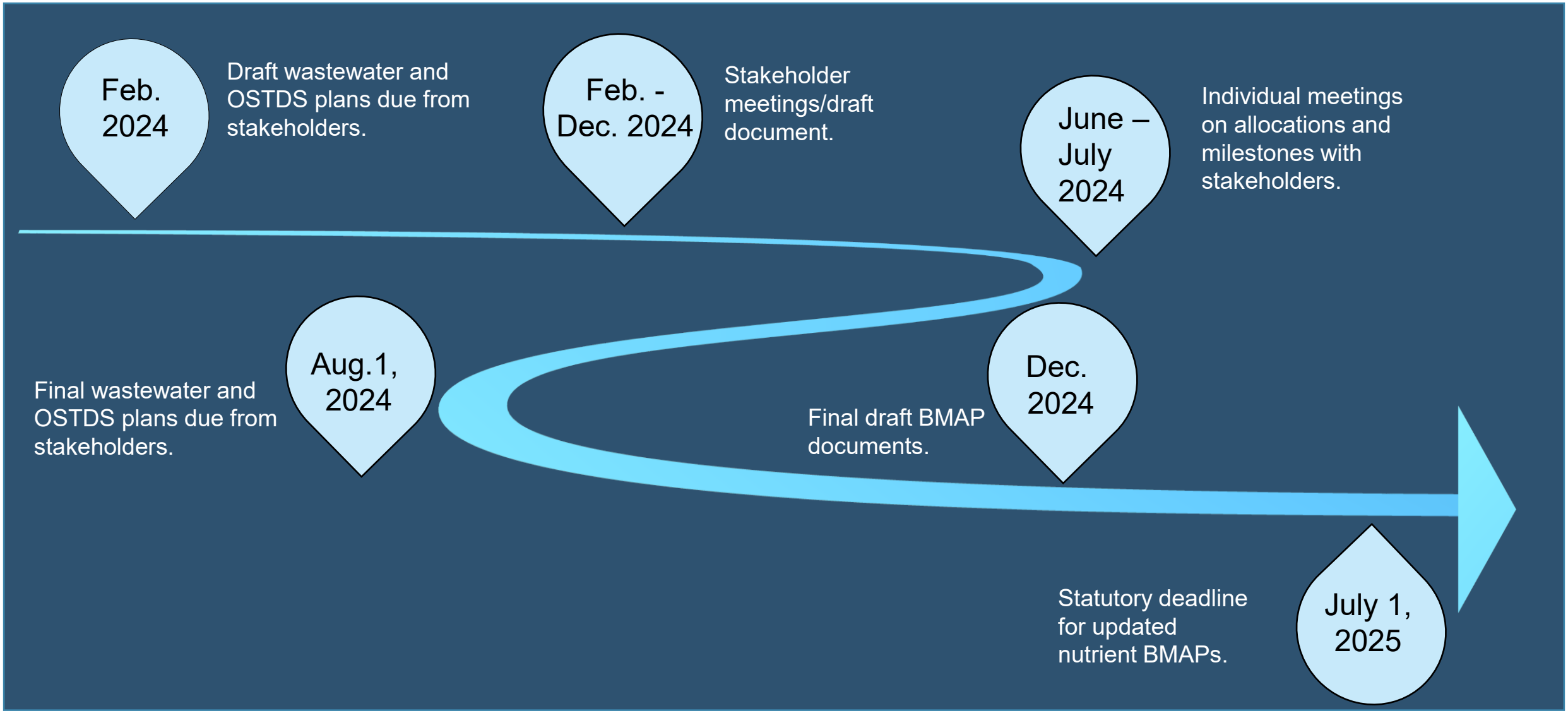
We will make every effort to include data which meet these standards. However, due to necessary consistency across districts and/or other concerns, not all provided data may be utilized.

SJR MODEL UPDATE
DATA INVENTORY

Land Cover	Florida Land Cover Classification System (FLUCCS) 2014
Meteorological	NCDC, NEXRAD, Rain Gages and other local data from SJRWMD
Boundaries (Planning Units, Subbasins, etc.)	SJRWMD Geospatial Open Data
Water Quality Ambient Data	Impaired Waters Rule (IWR) Database, Run 63
Flow Data	USGS, DEP and SJRWMD

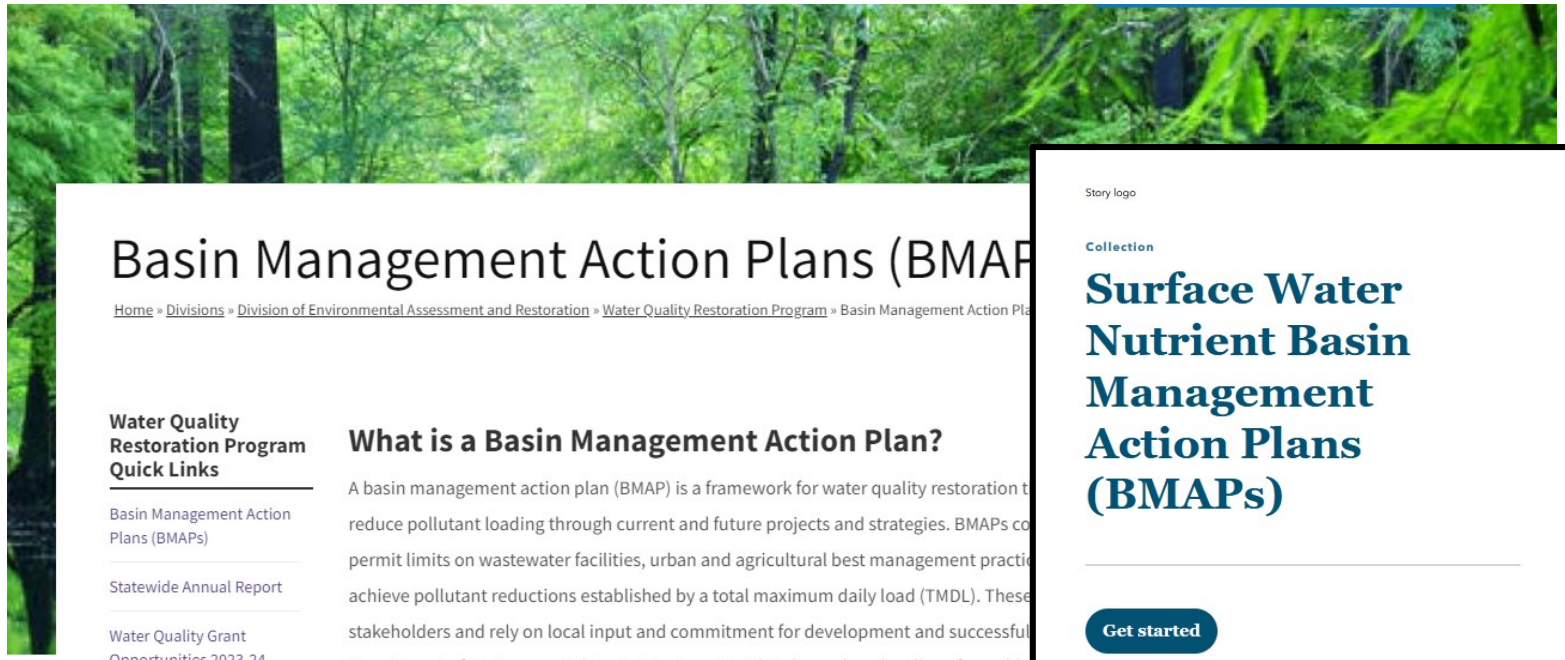
NCDC: National Climatic Data Center
NEXRAD: Next Generation Weather Radar
USGS: U.S. Geological Survey

UPCOMING SCHEDULE



RESOURCES

BMAP WEBSITE AND STORYMAP



Basin Management Action Plans (BMAP

Home » Divisions » Division of Environmental Assessment and Restoration » Water Quality Restoration Program » Basin Management Action Pla

Water Quality Restoration Program Quick Links

- Basin Management Action Plans (BMAPs)
- Statewide Annual Report
- Water Quality Grant Opportunities 2023-24
- BMAP Public Meetings
- Impaired Waters, TMDLs and Basin Management Action Plans Interactive Map
- Tools and Guidance for

What is a Basin Management Action Plan?

A basin management action plan (BMAP) is a framework for water quality restoration t
reduce pollutant loading through current and future projects and strategies. BMAPs co
permit limits on wastewater facilities, urban and agricultural best management practi
achieve pollutant reductions established by a total maximum daily load (TMDL). These
stakeholders and rely on local input and commitment for development and successful
Department of Environmental Protection Secretarial Order and are legally enforceable

Water Quality Protection Grant Portal for Fis

DEP has launched an online grant portal to provide eligible entities the opportunity to
programs. Eligible entities include local governments, academic institutions, and nonp
application portal opened July 5, 2023. Closing dates for individual grant programs va
the posted date f each grant program. Applicants are encouraged to submit proposa

Story logo

Collection

Surface Water Nutrient Basin Management Action Plans (BMAPs)

Get started

A basin management action plan (BMAP) is a framework for water quality restoration, containing local and state commitments to reduce pollutant loading through current and future projects and strategies. BMAPs contain a comprehensive set of solutions, such as permit limits on wastewater facilities, urban and agricultural best management practices, and conservation programs designed to achieve pollutant reduction established by a Total Maximum Daily Load (TMDL).

These broad-based plans are developed with local stakeholders and rely on local input and commitment for development and successful implementation. BMAPs are adopted by DEP Secretarial Order and are legally enforceable.

1 Legislative Requirements

2 Lake Harney, Lake Monroe, Middle St. Johns River and...

3 Everglades West Coast Basin Management Action Plan

4 Lake Jesup Basin Management Action Plan

5 Orange Creek Basin Management Action Plan

6 Lower St. Johns Main Stem Basin Management Action Plan

7 Wekiva River, Rock Springs Run, and Little Wekiva Canal...

8 Upper Ocklawaha Basin Management Action Plan

9 Long Branch Basin Management Action Plan

RESOURCES
FUNDING OPPORTUNITIES

SUBSCRIBER PAGE

HOW TO CONTACT US

BMAPProgram@FloridaDEP.gov

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THANK YOU

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Florida Department of Environmental Protection

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Lauren.Campbell@FloridaDEP.gov


FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

Lake Jesup Basin Management Action Plan (BMAP) Annual Meeting

July 9, 2024, via GoToWebinar

1:00 pm – 2:08 pm

Attendees

Jim Ailes, City of Deland
Suzanne Archer, SJRWMD
Lisa Bally, ATM
Evelyn Becerra, DEP
Connie Becker, DEP
Joel Bostic, BCC Engineering
Tiffany Busby, Wildwood Consulting
Thomas Calhoun, Seminole County
Lauren Campbell, DEP
Andy Canion, SJRWMD
Michael Cannon, City of Sanford
Jennifer Cappelleti, FDOT
Jiovani Charres, City of Casselberry
Steve Collins, Johnson, Mirmiran & Thompson
Miguel Conde, City of Lake Mary
Nick Cooper, City of Casselberry
Pete Coultas, A. Duda & Sons
Jane Dai, City of Casselberry
April Davis, City of Altamonte Springs
Susan Davis, SJRWMD
Cammie Dewey, SJRWMD
Dean Dobberfuhl, SJRWMD
Alyssa Eide-Cadle, City of Maitland
Yesenia Escribano, FDACS
Austin Evora, City of Maitland
Amanda Exposito-Ferree, AtkinsRealis
Eka Febrina, Seminole County
Jessica Fetgatter, DEP
James Fike, BCC Engineering
Randy Fink, SJRWMD
Jessica Frost, BlueGreen Water Technologies
Fred Gaines, FDOT
Samuel Hankinson, DEP
Kira Hansen, Kimley-Horn
Moira Homann, DEP
Laila Hudda, EPA
Julie Hughes, City of Deltona
Wei Jin, SJRWMD
Chandler Keenan, DEP
Danielle Koury, City of Lake Mary
Tara Lamoureux, City of Winter Park
Charles Legros, DEP
Heather Lindell, Orange County
Lisa Lotti, City of Orlando
Todd Lundell, BlueGreen Water Technologies
Celeste Lyon, RES
Erich Marzolf, SJRWMD
Hayden McCandless, Carollo Engineers
Lori McCloud, SJRWMD
Karen McCullen, City of Maitland
Gabrielle Milch, St Johns Riverkeeper
Jennifer Mitchell, SJRWMD
Shannon Monahan, City of Winter Park
Jessica Mostyn, DEP
Rocco Nasso, CPH
Joe Parish, Seminole County
Wayland Paxman, City of Winter Park
Timothy Perry, Gardner Bist
Nicolas Pisarello, ATM
Ray Pribble, ESA

Ellen Rogers, Florida Senate Committee on Environmental Preservation and Conservation
Terrilyn Rolle, City of Winter Springs
Leylah Saavedra, Pegasus Engineering
Shannon Salvatori, SJRWMD
Matt Scripter, Ecological Associates
Michelle Shelton, Seminole County
Stacey Simmons, FDACS
Tiffany Simpson, DEP
Victoria Steinnecker, Carollo Engineers
Connor Steven, City of Maitland
Unknown, The Florida Channel
Riley Timbs, SJRWMD
Scott A. Towler, Anser Advisory
Diana Turner, DEP
Jessica Vaccare, DB Environmental
Tim Waln, SJRWMD
Anne Elise Wester, SJRWMD
Shannon Wetzel, Seminole County
Erin Yao, FDOT
Paul Yeargain, City of Oviedo
Kelly Young, Volusia County
Hannah Yucht, City of Orlando

Questions and Answers (Q&A)

Q: The total nitrogen (TN) and total phosphorus (TP) reductions shown were annual amounts. How many years to the total maximum daily load (TMDL) endpoint? Reductions cannot be infinite.
A: In the current BMAP, the last milestone to meet the reductions outlined in the TMDL is the year 2032. The BMAPs are usually on a 20-year implementation timeframe and are updated regularly. The goal is to complete the reductions by 2032 but note that the TMDL and BMAP will continue beyond 2032. Through the adaptive management process, BMAP adjustments will be made, including possible changes to the allocations, based on the status of water quality restoration and changes in the sources and their loading over time.

Q: Will a list of participants be published with the webinar materials? This could facilitate local partnering.
A: The list of participants will be included in the meeting summary document. If you are a lead entity in the Lake Jesup BMAP and need more information about the point of contact at another lead entity organization, please contact Evelyn Becerra at Evelyn.Becerra@FloridaDEP.gov.

Q: Where can we access the project documents for Lake Jesup Nutrient Reduction Pilot Project?
A: There is a place on the St. Johns River Water Management District website where project information is posted. The district scientists will update the project information every few months over the course of the project to keep everyone apprised of progress. If anyone would like more specific details on the project, please contact Anne Elise Wester at awester@sjrwmd.com.

Q: The TN and TP thresholds used in the hotspot analysis, are they applied to each stakeholder or are the values average numbers?
A: The nutrient concentrations used in the hotspot analysis were compared to the measured water quality concentrations at the various monitoring stations. The hotspot analysis included selecting

monitoring stations with sufficient years of data and adequate monitoring frequency. So, the nutrient thresholds were compared to measured water quality data over time at various locations to compare the sites.