



MANATEE RIVER BASIN MANAGEMENT ACTION PLAN UPDATES

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Florida Department of Environmental Protection

Lakewood Ranch | Nov. 13, 2024



AGENDA

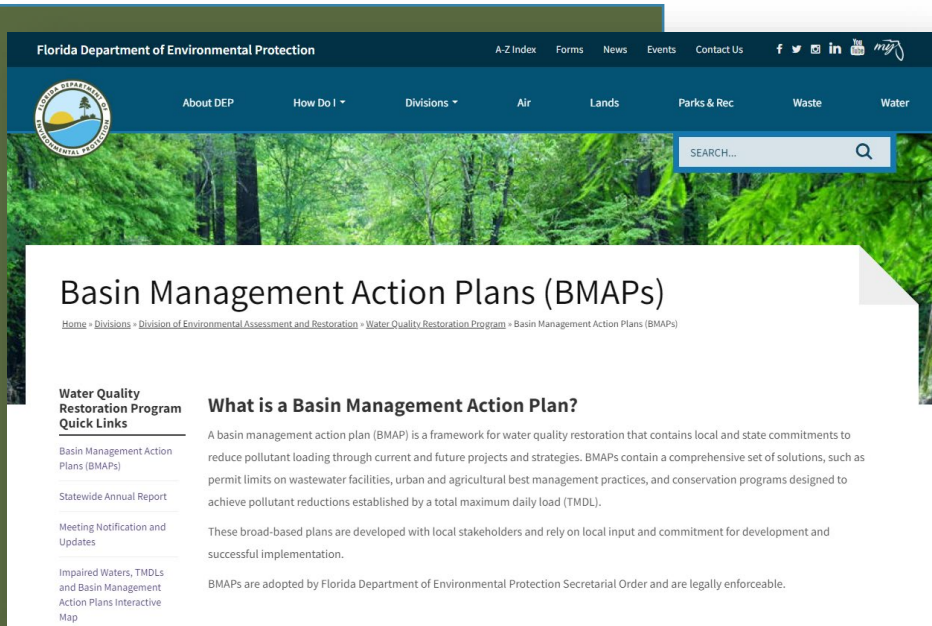
- Basin Management Action Plan (BMAP) Overview.
- Statute Overview.
- BMAP Update 2025.



Photo Credit: DEP



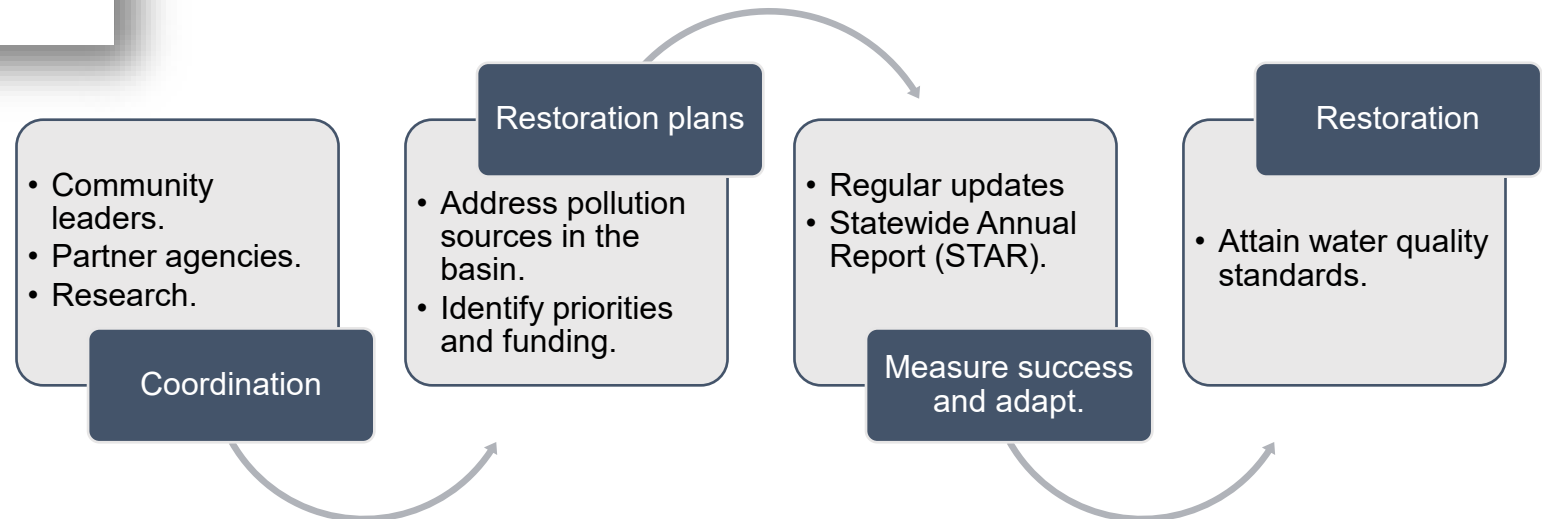
BMAPS



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.

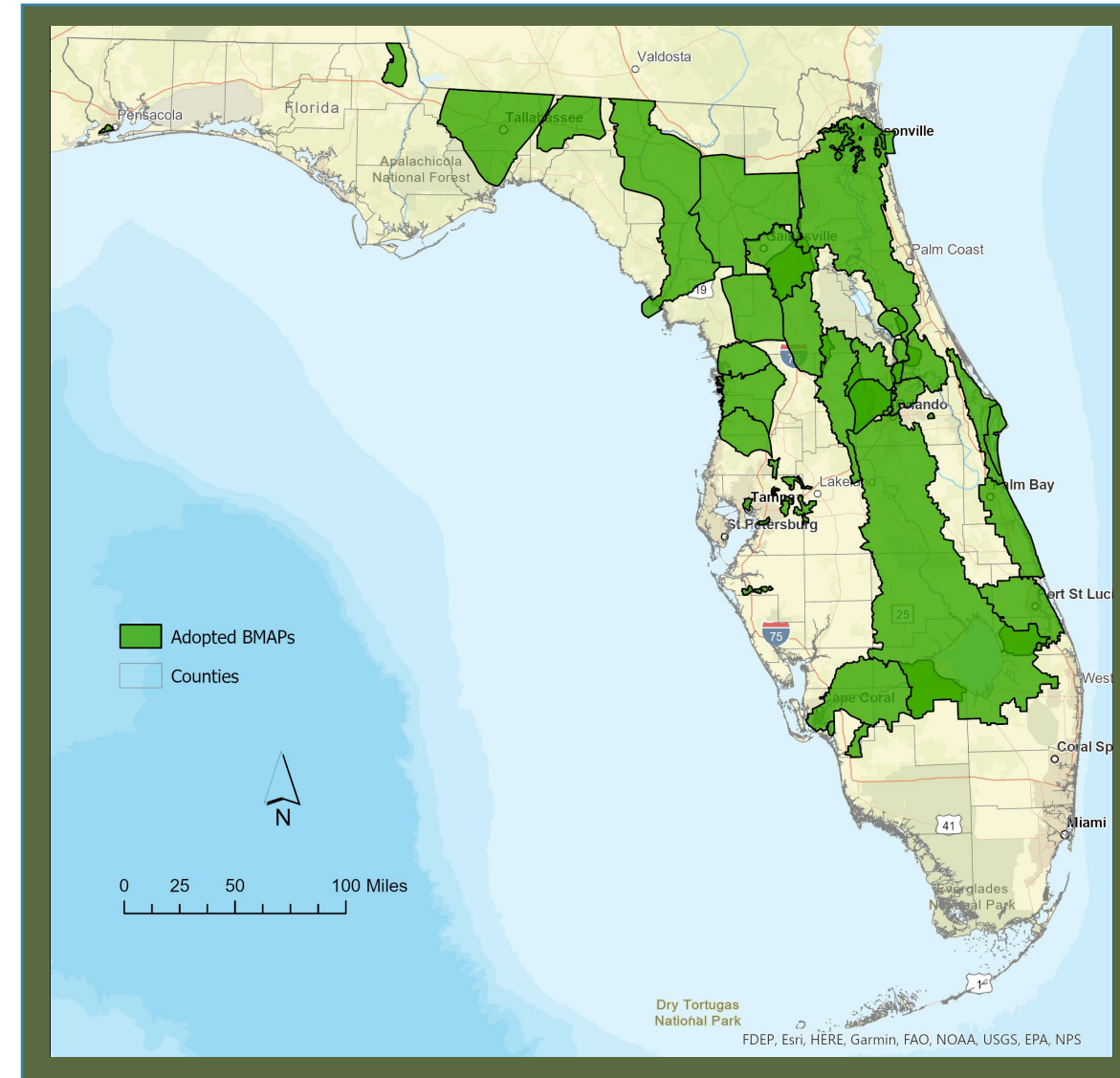




BMAPs ACROSS THE STATE

33 BMAPs:

- 14 Springs.
- 19 Surface Water:
 - Three Northern Everglades and Estuaries Protection Program (NEEPP).
 - Three Indian River Lagoon.
 - Seven Other nutrient.
 - Six Bacteria.





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.

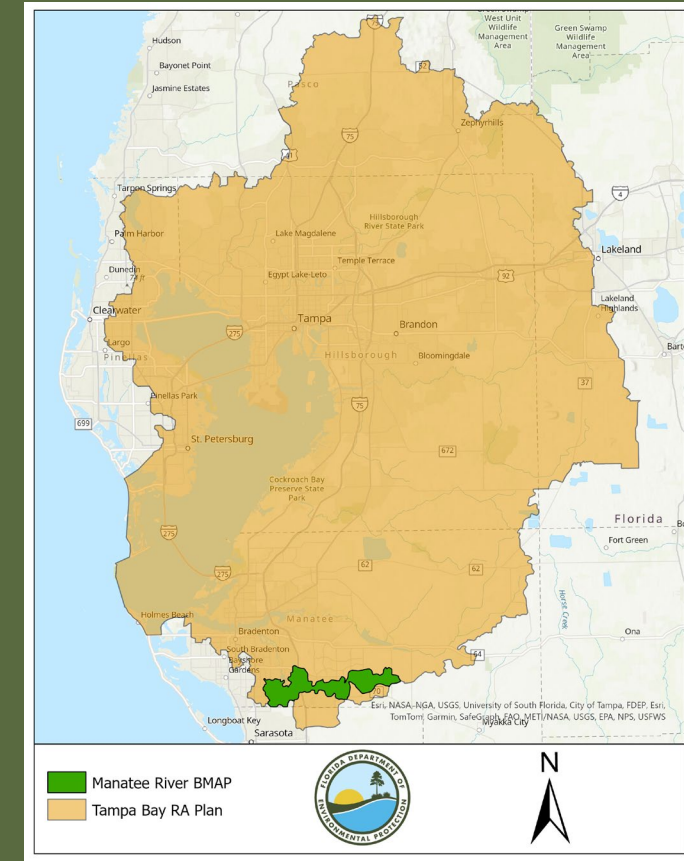
Process to assess progress toward achieving the TMDL:

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



TAMPA BAY REASONABLE ASSURANCE PLAN

- Stakeholder involvement with the Tampa Bay Estuary Program (TBEP) and Tampa Bay Nitrogen Management Consortium (NMC) was a key component in developing the Alafia River BMAP.
- The BMAP process engages local stakeholders and promotes coordination and collaboration to address the total nitrogen (TN) reductions needed to achieve the nutrient TMDL, as well as identifying fecal coliform sources for the fecal coliform TMDLs.





STAKEHOLDERS

Responsible Stakeholders.

- Manatee County.
- Florida Department of Agriculture and Consumer Services.
- Florida Department of Transportation.
- Southwest Florida Water Management District.
- Tampa Bay Estuary Program.
- Lakewood Ranch.
- Florida Department of Health.

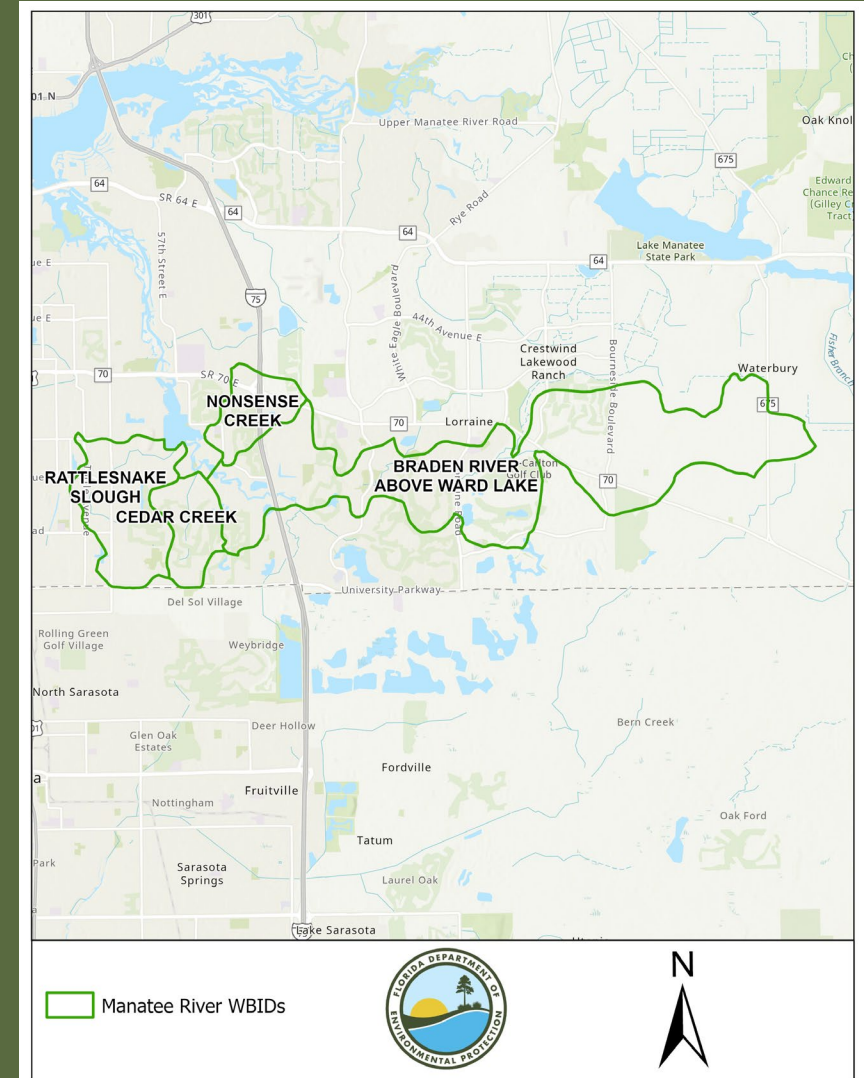


MANATEE RIVER BMAP

TMDLs in Manatee River Basin at the time of BMAP adoption, April 2014.

Acronym Key: Total Maximum Daily Load (TMDL), Waterbody ID (WBID), Fecal Indicator Bacteria (FIB), Dissolved Oxygen (DO), Total Nitrogen (TN), Total Phosphorus (TP) and Biochemical Oxygen Demand (BOD).

WBID	Waterbody Name	Parameter
1923	Rattlesnake Slough	FIB, TP, TN, BOD
1926	Cedar Creek	FIB, DO, TN
1913	Nonsense Creek	FIB , TN, BOD
1914	Braden River above Evers Reservoir	FIB





BILLS AND LEGISLATION

- Florida Watershed Restoration Act, section 403.067, Florida Statutes (F.S.).
- Senate Bill (SB) 712 Clean Waterways Act.
- 2023 House Bill (HB) 1379.
- 2024 HB 1557 (2024).





LEGISLATION HIGHLIGHTS

2020 CLEAN WATERWAYS ACT

- Promotes resilient wastewater infrastructure and utilities and looks at future growth.
- Requires local governments within a BMAP to develop wastewater treatment plans and/or onsite sewage treatment and disposal system (OSTDS) remediation plans that will be incorporated into the 2025 BMAP updates.



Source: South Florida Water Management District(SFWMD)



LEGISLATION HIGHLIGHTS

2023 HB 1379

- Requires BMAPs to be assessed and updated every five years as needed to include implementation milestones and other requirements.
- Requires a list of projects and strategies that will achieve the five-year implementation milestones to meet TMDLs.
- Requires agricultural cooperative regional water quality improvement elements.
- Requires facilities discharging to a waterbody impaired for nutrients or subject to a BMAP or reasonable assurance plan (RAP) area to upgrade to advanced waste treatment (AWT) within 10 years.
- Requires applicants for new septic systems serving lots of one acre or less within BMAPs and RAPs to connect to central sewer if available, or if unavailable, to install an enhanced nutrient-reducing system or other wastewater system that achieves nitrogen reduction of 65%.
- Requires local governments to include BMAP projects in their comprehensive plans so these projects can be prioritized to achieve restoration benefits.
- Expands grant opportunities to accelerate project implementation.



LEGISLATION HIGHLIGHTS

HB 1557 (2024)

- Requires advanced waste treatment standard for reclaimed water within BMAPs if DEP determines that it is necessary.
- Requires facilities (including private) to provide information to local entities developing domestic wastewater treatment plans and OSTDS remediation plans within BMAPs or other restoration areas.



Photo Credit: SJRWMD



PROJECTS

HB 1379 requires responsible entities to report on projects that meet the required five-year milestones.

- Where entity allocations and milestones do not already exist, they will be added in a future BMAP update after completion of model updates. Interim management strategies will be included in the 2025 update for these BMAPs.
- It is critical for each BMAP that entities plan for and report projects and project updates to the state through the STAR process.
- All projects should be included in the STAR report, even if a funding source has not been identified.
- Reporting projects in the STAR allows the state to evaluate funding needs and prioritize projects to promote maximum environmental benefit and to meet milestones.



INTERIM MANAGEMENT STRATEGIES

EXAMPLES

Stormwater treatment via traditional and green stormwater best management practices (BMPs): Nutrient credit applies only to the portion above and beyond permit requirements.

Community Education and Outreach: Nutrient credit is available for implementing the Florida Yards and Neighborhood program; local codes and ordinances for fertilizer, landscaping, irrigation, and pet waste management; and public service announcements, informational pamphlets, stormwater website, and inspection program and call-in number for illicit discharges.

Sports Turf: Owners/operators will be required to follow the upcoming Sports Turfgrass BMP manual to ensure fertilizers are managed responsibly.

Wastewater Treatment Facilities: Facilities must provide a plan with a list of projects to meet the Clean Waterways Act requirements, which includes upgrading to advanced waste treatment standards based on facility size and discharge method, including reuse distribution.

OSTDS: provide and implement a remediation plan to hook up existing OSTDS where sewer is made available or upgrade to enhanced nutrient-reducing (ENR) systems. New development with lots of one acre or less may not install conventional OSTDS and must be tied into sanitary sewer or install ENR.

Golf Courses: Golf courses will be required to provide a nutrient management plan (NMP) and implement BMPs.



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 reports on project updates through Dec. 31, 2023.

The Statewide Annual Report 2023

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 2023 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

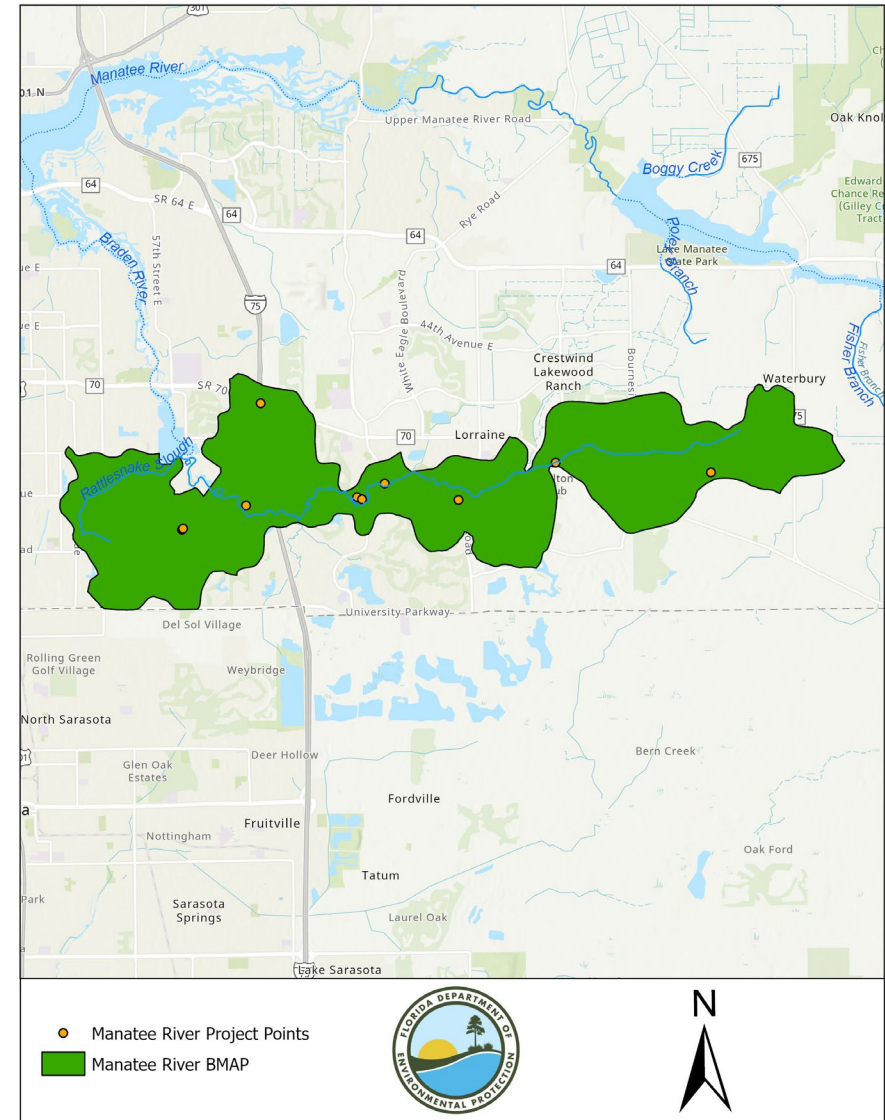


Total Maximum Daily Loads	Basin Management Action Plans	Alternative Restoration Plans	Minimum Flows and Water Levels	Recovery and Prevention Strategies	Contacts and Project Data
					

[STAR 2023 Intro \(arcgis.com\)](https://arcgis.com)

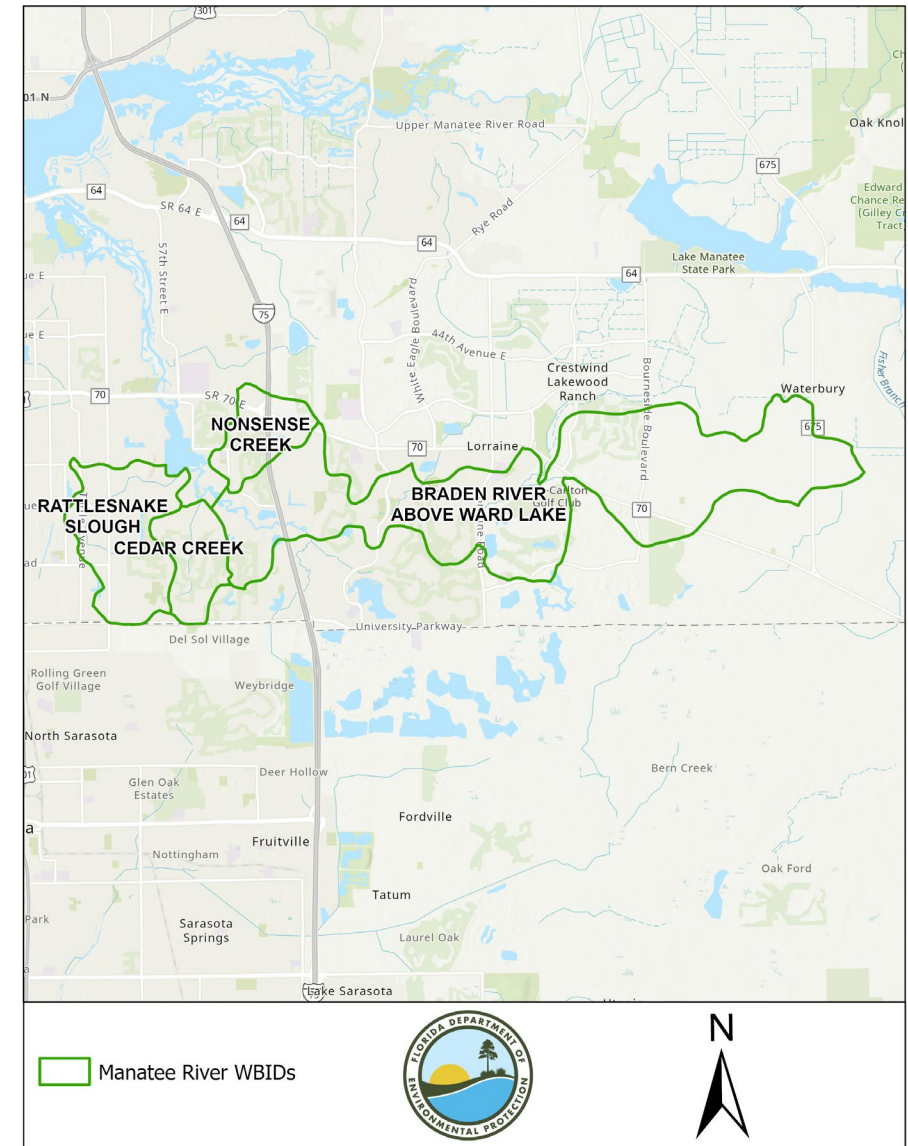


- Planned – Six.
- Underway – Five.
- Ongoing – 31.
- Completed – 24.
- Canceled – Two because their completion precedes the TMDL period of record.





Percent of data exceeding 10% threshold for Manatee River BMAP bacteria TMDL waterbodies for the last 7.5-year data period.





BMAP UPDATE COMPONENTS

ADOPT BY JULY 1, 2025

- Management strategies.
- Future growth.
- Establish five-year milestones for project implementation and list of identified projects to meet five-year milestones.
- Incorporate the 2020 Clean Waterways Act, 2023 HB 1379 and 2024 HB 1557 requirements.
- Incorporate regional projects.
- Water quality data evaluation:
 - Evaluation of the monitoring networks.
 - Water quality trend analyses.
- Evaluate further OSTDS provisions.
- Evaluate the need for AWT or other more stringent effluent limits for wastewater facilities.





BMAP UPDATES TIMELINE

May-
Aug.
2024

Individual meetings
with BMAP
stakeholders.

Aug. 1,
2024

Final wastewater
and OSTDS
plans due from
stakeholders.

Nov.
2024

Public meeting on
BMAP updates.

One-on-one
follow-up
discussions to
further gather
interim
management
strategies.

Nov-
Dec.
2024

Draft, review, and
Final Draft BMAP
document.

Dec.
2024-
Jan.
2025

Statutory deadline
for updated
nutrient BMAPs.

July 1,
2025



RESOURCES

BMAP WEBSITE AND STORYMAPS

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 wastewater and stormwater infrastructure, regional projects and conservation programs designed to reduce nonpoint source pollution established by a TMDL. A BMAP is developed with local stakeholders and relies on local input for implementation. BMAPs are adopted by Secretarial Order and are legally enforceable. BMAPs that allows for incremental load reductions through the implementation of projects and management practices, monitoring and conducting studies to better understand the water quality and hydrologic dynamics, project implementation and water quality analyses. DEP continues to work with local and regional stakeholders on projects necessary to meet reduction milestones to achieve the TMDLs and inform funding priorities.

What's New: Upcoming Meetings and BMAP Updates

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 [Update Progress](#) dashboard provides a visual representation of progress towards the completion of related sub-tasks leading up to the July 1, 2025 updates. Please visit the [BMAP Public Meeting](#) page for upcoming meetings and subscribe to meeting notices.

Nutrient BMAPs



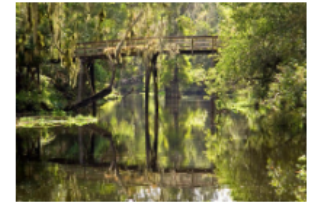
Nutrient BMAPs contain a comprehensive set of solutions, such as permit limits on wastewater facilities, urban and agricultural best management practices, and conservation programs designed to achieve pollutant reductions established by a total maximum daily load

Springs BMAPs



Springs BMAPs identify the sources of nutrient pollution, list the specific projects and programs necessary to reduce nutrient pollution, and establish priority focus areas where statutory prohibitions on certain activities apply (such as installation of new conventional septic systems).

Fecal Bacteria Impaired BMAPs



Bacteria basin management action plans (BMAPs) include management strategies or projects, to be implemented by local stakeholders, that aim to eliminate and prevent the release of waste, containing pathogens, to natural waterbodies.

[Basin Management Action Plans \(BMAPs\) | Florida Department of Environmental Protection](#)



THANK YOU

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