



WEBINAR TIPS

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AGENDA

- Basin Management Action Plan (BMAP) Background.
- Review of Previous Meetings.
- Document Update Walkthrough.
- Next Steps.





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.

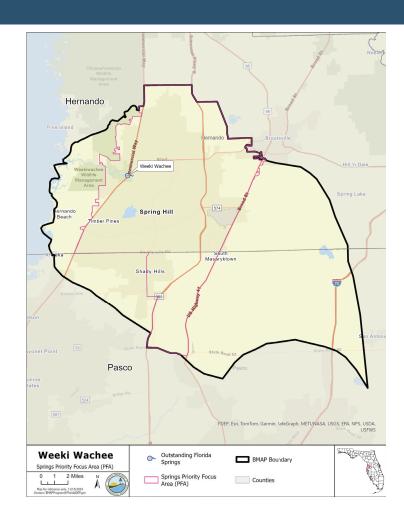
Process to assess progress toward achieving the TMDL:

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



BACKGROUND

- BMAP area is approximately 200,474 acres.
- Impaired for the nitrate form of nitrogen.
- TMDL is a monthly average target of 0.28 milligrams per liter (mg/L) of nitrate.





Type of Entity	N	ame	
	Agriculture City of Brooksville		
		do County	
Responsible Entities	Pasco	County	
	_	olf Courses	
	Private Wastewate	r Treatment Facilities	
Responsible Agencies	County Health Departments Florida Department of Agriculture and Consumer Services (DACS) Florida Department of Environmental Protection (DEP) Florida Department of Transportation (DOT) — District 7 Southwest Florida Water Management District		
Other Interested Stakeholders	Residents/Homeowners Florida Farm Bureau Florida Native Plant Society Florida Springs Institute Hernando Beach Government Affairs Committee	Hernando County Task Force Hernando Environmental Land Protectors (HELP)Florida Onsite Wastewater Association Save the Manatee Club Septic System Contractors Sierra Club Adventure Coast Group	



BMAP UPDATE COMPONENTS ADOPT BY JULY 1, 2025

- Nitrogen Source Inventory Loading Tool (NSILT) updates.
- Spring vent load analyses updates.
- Entity allocation development.
- Establish five-year milestones for project implementation.
- Incorporate the 2020 Clean Waterways Act, 2023 House Bill (HB) 1379 and 2024 HB 1557 requirements.
- Incorporate regional projects.
- Future growth.
- Water quality data evaluation:
 - Evaluation of the monitoring network (spring vent and groundwater).
 - · Water quality trend analyses.
- Evaluate further onsite sewage treatment and disposal systems (OSTDS) provisions.
- Evaluate the need for advanced wastewater treatment (AWT) or other more stringent effluent limits for domestic wastewater treatment facilities (WWTF).





PREVIOUS MEETINGS

Summary of BMAP update meetings (held in 2024):

- January Public Meeting
 - Virtual
 - Overview of NSILT methodology updates (all springs basins)
- May Public Meeting
 - Virtual
 - Legislative requirements and basin specific analyses
- October/November Public Meeting
 - In person
 - Basin and entity allocated reductions, poster session
- Entity Specific Meetings
 - Throughout summer and fall
 - Seven meetings with responsive stakeholders to discuss reduction allocations and project lists





DRAFT DOCUMENT

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ROMENTAL PLOKE	Legislation	
	TMDLs	
Section 1: Background	BMAP Requirements	
Section 2: Implementation	BMAP Area	
	Priority Focus Area	
	(PFA)	
Section 3: Monitoring and Reporting	Other Scientific and	
	Historical	
Section 4: Commitment to Plan Implementation	Information	
	Stakeholder	
Section 5: References	Involvement	
	Best Management	
Appendices	Practices (BMPs) Adopted by Rule	
	Adopted by Nale	



DRAFT DOCUMENT

Section 1: Background

Section 2: Implementation

Section 3: Monitoring and Reporting

Section 4: Commitment to Plan Implementation

Section 5: References

Appendices

Pollutant Loads

Load Reduction Strategy

Allocated Reductions

Management Strategies

OSTDS

WWTF

Urban Turfgrass Fertilizer (UTF)

Sports Turfgrass Fertilizer (STF)

Agriculture

Atmospheric Deposition

Future Growth

Funding Opportunities

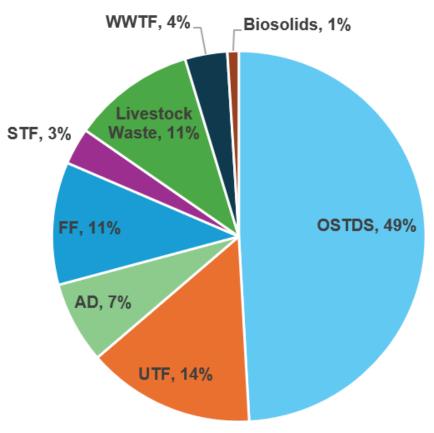


POLLUTANT LOADS

SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

Loading to groundwater by source in the Weeki Wachee Basin

Nitrogen Source	Total Nitrogen (TN) Load to Groundwater (Ibs/yr)	% Contribution
OSTDS	641,621	49
UTF	190,166	15
Atmospheric Deposition (AD)	93,069	7
Farm Fertilizer (FF)	139,819	11
STF	41,825	3
Livestock Waste	139,175	11
WWTF	47,836	4
Biosolids	12,878	1
Total	1,306,388	100



lbs/yr = pounds/year



LOADING ALLOCATION

SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

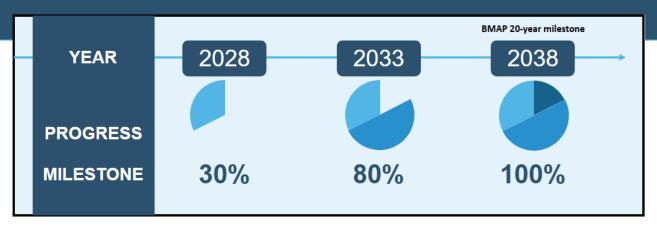
Description	Withlacoochee Nitrogen Loads (lbs/yr)	Notes Regarding Data Used
Total Load at Spring Vents	308,909	Upper 95% confidence interval — nitrate and flow data 2012 to 2022 (0.91 mg/L and 173.04 cubic feet per second [cfs]).
TMDL Load	95,265	TMDL target of 0.28 mg/L and using the spring vent flow data from 2012 to 2022.
Percent Reductions	69%	Calculated reduction needed based on the total load at the spring vent and the TMDL load.
NSILT Load	1,306,388	Total load to groundwater from the updated NSILT.
Required Reductions	903,509	Percent reduction multiplied by the NSILT load.

cfs - cubic feet per second



MILESTONES/REDUCTION SCHEDULE SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

- Consistent with statutes, entities must provide a list of projects and strategies to DEP that show how entities will
 meet their required reductions to achieve the next upcoming BMAP milestone, even if the identified project or
 strategy will not be completed by the milestone.
- All projects needed to achieve milestone targets should be included in the Statewide Annual Report (STAR), even if a funding mechanism is not currently identified, as this information gives the state an understanding of the support is necessary to achieve BMAP goals and assists with the prioritization of projects.
- It is critical for each BMAP that entities plan for and report projects and project updates to the state through the STAR process.





MILESTONES/REDUCTION SCHEDULE SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

- Responsible entities must submit a sufficient list of additional projects and management strategies to DEP by Jan. 14, 2026, to be compliant with the upcoming BMAP milestone or be subject to further department enforcement.
- If any lead entity is unable to submit a sufficient project list, then specific project identification efforts must be submitted by Jan. 14, 2026:
 - These responsible entities must submit project identification efforts whose purpose and timeline will provide projects to meet the 5-year milestone.
 - These efforts create a compliance schedule that must reflect the urgency of defining, funding and implementing projects to meet the upcoming and future milestones.
 - These planning efforts are ineligible for BMAP credit themselves but are necessary to demonstrate that additional eligible management actions will be forthcoming and BMAP compliance will be achieved.



ENTITY ALLOCATIONS

SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

Timeline

• 2028: 30%

• 2033: (+50%) 80%

• 2038: (+20%) 100%

2028 5-year milestone required reductions by entity in the Weeki Wachee Basin

Entity	2028 Milestone Assigned Reductions (30%) TN (lbs/yr)	Total Assigned Reductions TN (lbs/yr)	
Pasco County	33,361	111,202	
City of Brooksville	1,050	3,500	
Hernando County	145,452	484,839	
Agriculture	60,558	201,861	
Private WWTFs*	465	1,549	
Private Golf Courses*	8,462	28,207	
Regional Projects	2,395	7,983	
Total, All Reductions	251,743	839,142	

^{*}List of facilities and golf courses is included in the BMAP document.



Weeki Wachee Basin Entity	2028 Milestone Assigned Reductions (30%) (lbs/yr)	TN Completed and Ongoing Project Credits (lbs/yr)	TN Reductions from Planned and Underway Projects* (Not Verified) (lbs/yr)	Total Projected** Project TN Reductions by Entity Through 2028 (lbs/yr)
Pasco County	33,361	1,248	4	1,252
City of Brooksville	1,050	98	0	98
Hernando County	145,452	2,572	16	2,588
Agriculture	60,558	64,973	0	64,973
Private WWTFs	465	0	0	0
Private Golf Courses	8,462	0	0	0
Regional Projects	2,395	19	0	19
Total, All Reductions	251,743	68,910	20	68,930

^{*} Planned and underway project reduction estimates are not verified by DEP.

^{**} Projected reductions include projects with a project status of completed, ongoing, planned and underway.



Recent legislative updates have expanded the requirements for addressing wastewater sources within BMAPs.

Clean Waterways Act (2020)

 Requires local governments within a nutrient BMAP to develop wastewater treatment plans and/or OSTDS remediation plans to be incorporated into BMAP updates.

Reclaimed Water Senate Bill (SB) 64 (2021)

- Subsection 403.064(16), Florida Statutes (F.S.), requires domestic wastewater utilities that dispose of effluent, reclaimed water or reuse water by surface water discharge to submit for DEP review and approval, a plan for eliminating non-beneficial surface water discharge by Jan. 1, 2032.
 - A utility must fully implement the approved plan by Jan. 1, 2032.
- If a plan was not timely submitted or approved by DEP, the utility's domestic WWTFs may not dispose of effluent, reclaimed water or reuse water by surface water discharge after Jan. 1, 2028.



Recent legislative updates have expanded the requirements for addressing wastewater sources within BMAPs.

Environmental Protection HB 1379 (2023)

- Requires facilities discharging to a waterbody impaired for nutrients or subject to a BMAP to upgrade to AWT within 10 years.
- Requires applicants for new septic systems serving lots of one acre or less within BMAPs to connect to central sewer if available, or if unavailable, to install an enhanced nutrient-reducing system or other wastewater system that achieves a nitrogen reduction of 65%.

Environmental Protection HB 1557 (2024)

- Requires advanced treatment of reclaimed water within BMAPs (403.086, F.S.).
- DEP has determined that the use of reclaimed water is causing or contributing to the nutrient impairments being addressed in this BMAP area.
- The facilities listed in the BMAP Appendix D have 10 years from BMAP adoption to meet the applicable AWT standards.



WASTEWATER SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

The nitrogen effluent limits will be applied as an annual average, taken at end of pipe before any land disposal (or other authorized compliance point), to all new and existing WWTFs with a DEP-permitted discharge or disposal area within this BMAP.

Nitrogen effluent limits for wastewater facilities

Facility Capacity (gpd)	Surface Water Discharges (mg/L)	WWTFs Not Listed in Appendix G — Rapid Rate Land Application Effluent Disposal System (mg/L)	WWTFs Not Listed in Appendix G — All Other Disposal Methods, Including Reuse (mg/L)
Greater than 100,000	3	3	3
20,000 to 100,000	3	3	6
Less than 20,000	3	6	6

gpd = gallons per day. mg/L = milligrams per liter.



OSTDS REMEDIATION

SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

Section 373.807, F.S.

- Requires BMAPs to include an OSTDS remediation plan if OSTDS contribute at least 20% of nonpoint source nitrogen pollution, or if DEP determines OSTDS remediation is needed to achieve the TMDL.
- This remediation plan establishes a remediation policy (Appendix E) applicable to all existing OSTDS within the PFA on all lots of all sizes.
- This remediation plan was included in the 2018
 BMAP and has not been modified for this update.

Subsection 403.067(7)(a)9., F.S.

- Requires local governments to develop an OSTDS remediation plan if DEP identifies OSTDS as contributors of at least 20% of point source or nonpoint source nutrient pollution or if DEP determines remediation is necessary to achieve the TMDL.
- This BMAP contains a remediation plan for OSTDS consisting of management actions, including those described in **Appendix B** in the draft BMAP document.



Biosolids

 To provide assurance that nitrogen losses to surface water and groundwater are minimized from the permitted application of biosolids and septage in the BMAP, requirements in accordance with Chapter 62-640, Florida Administrative Code (F.A.C.), apply to newly-permitted application sites and existing application sites upon permit renewal.





Fertilizer Ordinance

• Subsection 373.807(2), F.S., requires local governments with jurisdictional boundaries within an OFS to develop, enact and implement a fertilizer ordinance by July 1, 2017.

Stormwater

- The National Pollutant Discharge Elimination System (NPDES) Stormwater Program will, within five years of BMAP adoption, evaluate any entity located in the BMAP area that serves a minimum resident population of at least 1,000 individuals that is not currently covered by a Municipal Separate Storm Sewer System (MS4) permit and designate eligible entities as regulated MS4s, in accordance with Chapter 62-624, F.A.C.
- Chapter 62-330 F.A.C. (2024).
 - Updated Florida's stormwater rule for design criteria and to strengthen the operation and maintenance requirements.
 - Applicants must demonstrate a level of treatment sufficient to accomplish the greater of the following
 nutrient load reduction criteria through calculations or modeling that the future stormwater management
 systems would provide additional treatment to meet new Environmental Resource Permits stormwater
 treatment performance standards of 80% reduction for TP and 55% reduction for TN or post-development
 condition average annual loading of nutrients does not exceed the predevelopment condition nutrient
 loading, along with additional requirements that would apply where a project discharges to Outstanding
 Florida Waters or impaired waters.



Sports Turfgrass and Golf Courses

- Sporting facilities are required to follow the 2025 Sports Turf BMP Manual.
 - DEP and University of Florida/Institute of Food and Agricultural Sciences (UF/IFAS) are collaborating the develop this manual.
- Superintendents of golf courses within the BMAP must obtain a certification for golf course BMPs under section 403.9339, F.S., and all golf courses must implement the BMPs described in the 2021 DEP golf course BMP manual.
- All golf courses located within a BMAP are required to submit a Nutrient Management Plan (NMP).
 - A draft NMP must be submitted to DEP within one year of BMAP adoption and a final document is due two years after adoption.



Dairy Operations with Confined Animal Feeding Operations (CAFO) Permits, Chapter 62-670, F.A.C.

- Waste storage ponds must be lined and demonstrate no leaking.
- Sampling for TN and TP or land-applied effluent/wastewater must be included in the monitoring plan.

Livestock Operations Without CAFO Permits

- Section 403.067, F.S., requires livestock operations not large enough to require a NPDES CAFO permit must enroll in and implement the applicable DACS BMP Program <u>OR</u>
- Conduct a monitoring program approved by DEP or the applicable water management district.

Aquaculture

 Chapter 597, F.S., required DACS to create a program that requires those who sell aquatic species to annually acquire an Aquaculture Certificate of Registration and implement Chapter 5L-3, F.A.C., Aquaculture BMPs.
 Permit holders must be certified every year.

Silviculture

• The Florida Forest Service implements Chapter 5I-6, F.A.C., and requires both private and public forest landowners across the state to comply with BMPs and the rule.



Agricultural Cooperative Regional Elements (ACE)

- Section 403.067, F.S., requires the DACS, DEP and agricultural producers to work together to establish an ACE.
- DACS is responsible for providing DEP a list of projects which, in combination with BMPs, state-sponsored regional projects and other management strategies will achieve the needed pollutant load reductions established for agricultural nonpoint sources.
- DACS is assigned the lead role on project solicitation, development, selection and implementation; however, they will work closely with all the key stakeholders, including DEP as a partner agency, to define and identify regional projects that will be included in the BMAP.
- DACS and DEP will work together to track progress on agricultural water quality projects under the ACE framework through the development of performance metrics and evaluation of water quality monitoring data in the basin.
- DACS will report on projects annually through the DEP STAR process and during BMAP update and/or development.
- Projects and other management strategies implemented through the ACE will be evaluated cooperatively by partner agencies using the predetermined performance metrics.



- Atmospheric sources of nutrients are local, national and international.
- Recent data indicate that the emission of nitrogen has been generally decreasing in Florida with an up to 55% decrease in atmospheric emissions by 2028 possibly as result of the following:
 - Power plant fuel source changes.
 - Air treatment upgrades.
 - Increased use of electric vehicles.
 - · Decreasing mobile sources.
- No specific nitrogen reductions were assigned to this source category in this BMAP.
- Atmospheric deposition sources and trends will be re-evaluated periodically.



Assessed additional loading to the basin by 2040 under different growth management scenarios.

- 2040 population "additional people" based on Bureau of Business and Economic Research (BEBR) medium growth projections per county.
- Growth distributed to jurisdictional boundaries based on available land area.
- Determined percentage of population sewered based on Florida Water Management Inventory (FLWMI) parcel to point data.
- Applied per person loading values for portions of future population on centralized sewer or OSTDS.
- Assumed increase in urban turfgrass loading based on percentage of available
 acres developed using low and high intensity landscaping, based on a general percent turf cover
 and turfgrass species fertilization rates.
- Ran three management scenarios to look at loading by entity, source and overall basin.



FUTURE GROWTH

SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

Scenario 1

By 2040:

- 90% or more of new population is connected to central sewer.
- All wastewater treating to 3 mg/L.
- Remainder of new population has enhanced OSTDS.
- 2% of available land developed using low intensity landscaping (10% turf cover using centipede grass).

Scenario 2

By 2040:

- New population is connected to central sewer at same rate as today.
- All wastewater treating to 3 mg/L.
- Remainder of new population has enhanced OSTDS.
- 10% of available land developed using low intensity landsca ping (10% turf cover using centipede grass).

Scenario 3

By 2040:

- New population is connected to central sewer at same rate as today.
- All wastewater treating to 6 mg/L.
- Remainder of new population has conventional OSTDS.
- 17% of available land deve loped using high intensity I andscaping (25% turf cover using St Augustine grass).



FUTURE GROWTH ANALYSIS

SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

Entity	2040 People	Scenario 1 TN (lbs/yr)	Scenario 2 TN (lbs/yr)	Scenario 3 TN (lbs/yr)
Hernando County	17,110	11,093	37,417	219,442
Brooksville	444	202	432	4,616
Pasco County	33,773	24,773	92,282	285,692

2040 Loading — Basin Totals

Scenario 1 Total	Scenario 2 Total	Scenario 3 Total
36,068	130,131	509,751

In every scenario, additional loading is expected in the basin by 2040 due to increasing populations. Entities should be working now to both remediate existing loading and plan to mitigate loading from future growth.



DRAFT DOCUMENT

Section 1: Background		
Section 2: Implementation	Methods for Evaluating Progress	
Section 3: Monitoring and Reporting	Adaptive Management	
Section 4: Commitment to Plan Implementation	Water Quality and Biological Monitoring	
Section 5: References	Groundwater Analysis	
Appendices		

Primary objectives:

- Measure the water quality and biological response in the impaired springs and groundwater at the beginning of the BMAP period and during implementation.
- Document nutrient trends in the springshed.

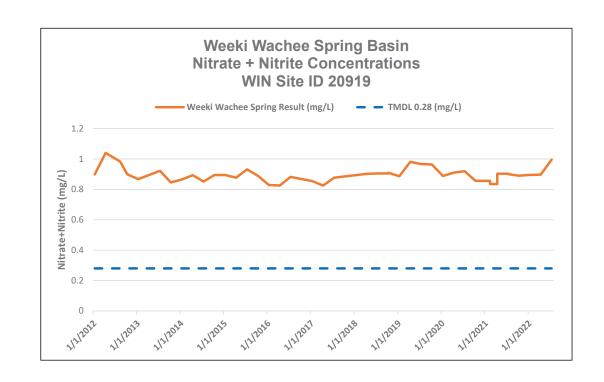
Secondary objectives:

- Identify areas where groundwater data and modeling might help in understanding the hydrodynamics of the system.
- Evaluate groundwater quality trends and nutrient loading to the aquifer across the basin.
- Confirm and refine nutrient removal efficiencies of agricultural and/or urban BMPs, projects and other management efforts



WATER QUALITY MONITORING SECTION 3: MONITORING AND REPORTING

- Available water quality data will be analyzed during BMAP implementation to determine trends in water quality and the health of the biological community.
- A wide variety of statistical methods are available for the water quality trend analyses.
 - The selection of an appropriate data analysis method will depend on the frequency, spatial distribution and period of record available from existing data.
 Specific statistical analyses were not identified during BMAP development.





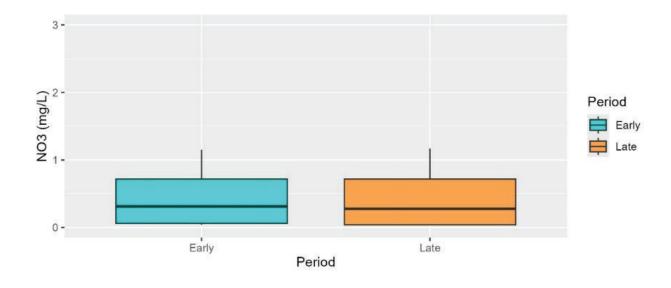
GROUNDWATER MONITORINGSECTION 3: MONITORING AND REPORTING

Groundwater
monitoring gives us a
look at the health of
the aquifer before
water discharges at
spring vent.

- Uses measured data (nitrate total and dissolved) from groundwater monitoring wells from DEP's Water Information Network (WIN) and the WMDs.
- A visual analysis was performed using the annual median as boxplots.
- Wells that were sampled regularly through the period of record were considered "fixed". Wells with inconsistent sampling (i.e. less than four samples over the period of record) were considered "sporadic".
- Data from the fixed wells were preferred for analyses because comparisons between time periods represent changes in the same set of wells.
- To create the box plots, the period of record was divided into early (2017-2020) and late (2021-2024) subperiods.
- Future considerations:
 - Stratifying data by land use, distance to spring vent, other factors.
 - Trends analysis for multiple 5-year periods to see changes over time.
 - · Well specific trends analysis.



WATER QUALITY MONITORING SECTION 3: MONITORING AND REPORTING



Weeki Wachee Springshed nitrate (NO3)
Concentrations of Early and
Late periods, Without Outliers.

In mg/L, Median Early = 0.04; Median Late = 0.04.



DRAFT DOCUMENT

Section 1: Background		
Section 2: Implementation		
Section 3: Monitoring and Reporting	Adoption Process Tracking Reductions	
Section 4: Commitment to Plan Implementation	Revisions to the BMAP	
Section 5: References		
Appendices		



Tracking Reductions:

- Required loading reductions are expected to be met by 2038.
- Each entity is responsible for implementing management actions to meet their upcoming 5-year milestone.
- The statewide annual report will provide an annual update of progress made in implementing load reductions tracking the implementation status of the management actions listed in the BMAP.

Revisions to the BMAP:

- Section 403.067, F.S., requires that the plan be revised, as appropriate.
 - Assessment of progress toward milestones must be conducted every five years and revisions to the plan must be made as appropriate.
 - BMAPs use an adaptive management approach that allows for incremental load reductions through the implementation of projects and management strategies; however, the restoration target, the TMDL, remains the same.



DRAFT DOCUMENT

Section 1: Background

Section 2: Implementation

Section 3: Monitoring and Reporting

Section 4: Commitment to Plan Implementation

Section 5: References

Appendices



BMAP UPDATE DOCUMENT APPENDICES

- Updated: Important links.
- Updated: Projects to Reduce Nitrogen Sources.
 - Projects submitted by responsible entities through the BMAP portal through October 2024.
 - Includes projects from the 2020 Clean
 Waterways Act WWTF and OSTDS plans
 submitted by local governments August 2024.
- NEW: Planning for Additional Management Strategies.
 - Examples of project efforts entities can identify to meet their milestone reduction requirements.
- PFA Report.
- Updated: OSTDS Remediation Plan.

- **NEW**: Technical Support Information
 - NSILT methodology.
- NEW: Wastewater Facilities.
 - List of facilities with reclaimed water that are causing or contributing to nutrient impairments.
- NEW: Golf Course Nutrient Management Plans.
- Updated: Agricultural Enrollment and Reductions (provided by DACS).
- NEW: Private Wastewater Treatment Facilities Allocated Reductions.
- NEW: Private Golf Course Allocated Reductions.

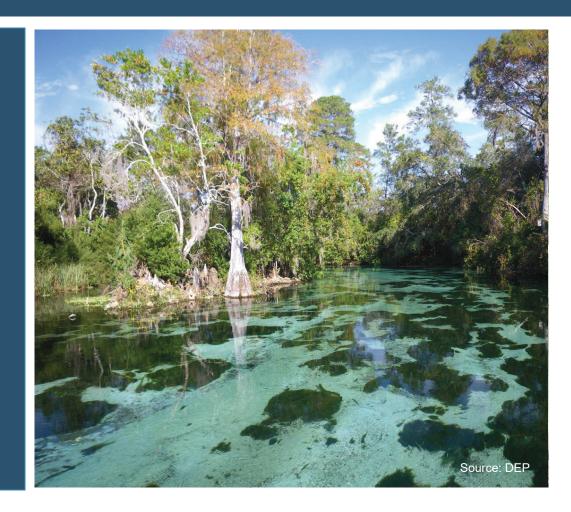


NEXT STEPS

BMAP update document draft review:

- Draft document sent out via GovDelivery **April 3, 2025**.
- Stakeholder review comments due May 2, 2025.

Submit comments to: Moira.Homann@FloridaDEP.gov





UPCOMING SCHEDULE

Jan. 2024, NSILT methodology public meeting. Spring/Fall 2024, Technical BMAP update public meetings.

Summer/Fall 2024 One-onone stakeholder meetings.

April 2025, Draft BMAP update public meetings. April/May 2025, Draft BMAP update comment period. July 1, 2025, Statutory deadline for updated nutrient BMAPs.



RESOURCES BMAP WEBSITE AND STORYMAPS

Florida Springs Basin Management Action Plans (BMAPs)

Welcome to the Florida Springs Basin Management Action Plan (BMAP) StoryMap

The springs BMAPs are developed with specific provisions for the protection and restoration of the state's Outstanding Florida Springs. This story map focuses on the springs-related BMAPs; for more details about other BMAPs or more information about the BMAP program in general, visit https://floridadep.gov/bmaps.

* The story map will display differently depending on the screen size and resolution being used. Story map best viewed in Chrome or Firefox.

Overview

The Florida Springs and Aquifer Protection Act (Part VIII of Chapter 373, F.S.) provides for the protection and restoration of the state"s Outstanding Florida Springs (OFS), which comprise 24 first magnitude springs, 6 additional named springs, and their associated spring runs. The act provides specific requirements for OFS BMAPs beyond those



Legislative Requirements



Crystal River - Kings Bay BMAP StoryMap



3 DeLeon Spring Story Map



4 Gemini Springs Story Map



5 Homosassa and Chassahowitzka Springs...



 Jackson Blue and Merritts Mill Pond BMAP Story Map



Rainbow Springs Group and Rainbow Springs Group Run..



8 Santa Fe River BMAP Story Map



Silver Springs and Upper Silver River BMAP Story Map







Basin Management Action Plans (BMAPs) | Florida Department of Environmental Protection

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

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

Clean Waterways Act Requirements for WWTF and OSTDS

Restoration Prog Content

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 <u>July 1, 2025 BMAP Update Progress</u> 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 <u>BMAP Public Meeting Calendar</u> to find out about upcoming meetings and subscribe to meeting notices.

- All BMAP Documents
- Map including BMAPs adopted and in progress
- Map of HB 1379 New and Existing OSTDS Requirements

Fecal Bacteria Impaired BMAPs **Nutrient BMAPs** Springs BMAPs Nutrient BMAPs contain a Springs BMAPs identify the sources of comprehensive set of solutions, such as BMAPs) include management strategies o nutrient pollution, list the specific permit limits on wastewater facilities, projects, to be implemented by local projects and programs necessary to urban and agricultural best stakeholders, that aim to eliminate and educe nutrient pollution, and establis management practices, and prevent the release of waste, containing priority focus areas where statutory conservation programs designed to pathogens, to natural waterbodies. prohibitions on certain activities apply achieve pollutant reductions establishe (such as installation of new by a total maximum daily load



Verbal Questions

 We ask that questions and comments be limited to two minutes so that we may hear from everyone.

Written Comments

 Submit written comments concerning today's meeting to: <u>Moira.Homann@FloridaDEP.gov</u>.



