

#### Santa Fe River Basin Management Action Plan (BMAP) Update Meeting

Via Webinar Webinar Registration Link: <u>https://register.gotowebinar.com/register/2633110891434594903</u> April 10, 2025 2:00 PM EDT

#### Agenda

- Santa Fe River BMAP Background.
- Overview of Draft Santa Fe River BMAP.
- Next Steps.
- Questions/Comments.

Please note the site for documents pertaining to the Santa Fe River BMAP: <u>BMAP Public Meetings | Florida</u> <u>Department of Environmental Protection</u> For more information on the Santa Fe River Basin BMAP, contact: Moira Homann, 850-245-8460. <u>Moira.Homann@FloridaDEP.gov</u>



## SANTA FE BASIN MANAGEMENT ACTION PLAN DOCUMENT UPDATE

#### **Chandler Keenan**

Division of Environmental Assessment and Restoration Florida Department of Environmental Protection

GoTo Webinar | Apr. 10, 2025



## WEBINAR TIPS

#### Audience Participation

Open your control panel.

Join audio:

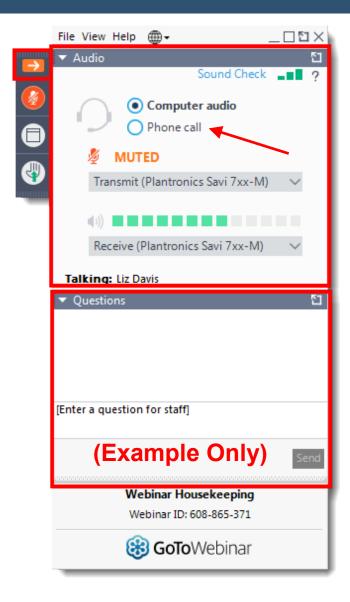
- Choose Computer Audio <u>or</u>
- Choose Phone Call and dial using the information provided with your registration

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 website after the webinar.





### 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.

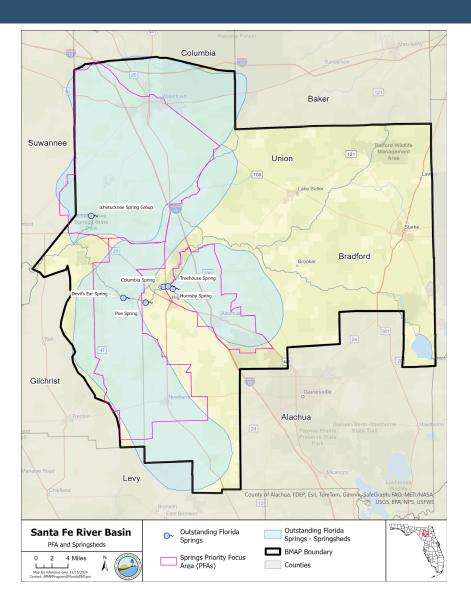
# Process to assess progress toward achieving the TMDL:

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



## BACKGROUND

- BMAP area encompasses over one million acres.
- 5 of 6 Outstanding Florida Springs impaired for the nitrate form of nitrogen.
- TMDL is a monthly average target of 0.35 mg/L of nitrate.





### **BACKGROUND** BMAP STAKEHOLDERS

Agricultural Producers         Alachua County       City of Lawtey         Bradford County       City of Newberry         Columbia County       City of Starke         Gilchrist County       City of Valdo         Union County       Town of Brooker         City of Alachua       Town of Fort White         City of Alachua       Town of Fort White         City of Alachua       Town of La Crosse         City of Gainesville       Town of La Crosse         City of Hampton       Town Worthington Springs         City of Lake Butler       Facilities         City of Lake City       Private Golf Courses         Florida Department of Agriculture and Consumer Services (DACS)       Florida Department of Health         Florida Department of Transportation (DDT) District 2       Suwannee River Water Management District (SRWMD)         Residents/Homeowners       Florida Consite Wastewater Association         State Interested Stakeholders       Florida Onsite Wastewater Association	Type of Organization/Entity	N	lame	
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Other Interested Stakeholders Florida Onsite Wastewater Association	Other Interested Stakeholders			
		Septic Contractors		



### **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.
  - Eleven meetings with responsive stakeholders to discuss reduction allocations and project lists.



Source: Crystal River and Kings Bay | WaterMatters.org



## DRAFT DOCUMENT

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

Adopted by Rule



## **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** 



#### Loading to groundwater by source in the Devil's Ear Springshed area

Nitrogen Source	Total Nitrogen (TN) Load (Ibs/yr)	% Contribution	Livestock CAFO WWTF Biosolids
OSTDS	96,194	10%	Dairy 0%
UTF	15,743	2%	Septic 2%
Atmospheric Deposition (AD)	82,725	9%	Livestock Non-
Farm Fertilizer (FF)	571,544	61%	STF-Golf CAFO AD
STF	156	<1%	0% 18% 9%
Livestock Waste (LW) Non- CAFO Dairy and Poultry	167,804	18%	STF-Other- 0%
LW CAFO Dairy	0	0	
Biosolids	855	<1%	
WWTFs	3,994	<1%	
Total	939,017	100%	FF

61%

TN = Total Nitrogen

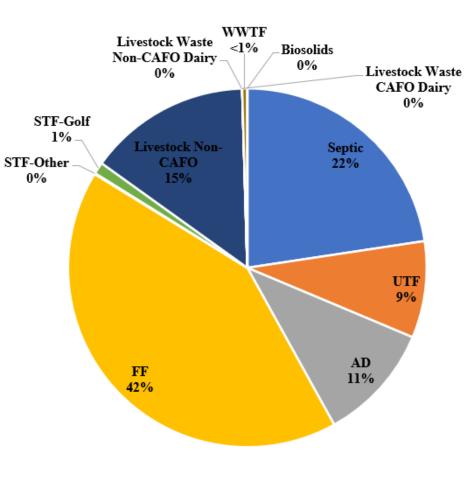
lbs/yr = pounds/year

CAFO = Confined Animal Feeding Operations



#### Loading to groundwater by source in the Ichetucknee Springshed area

Nitrogen Source	TN Load to Groundwater (Ibs/yr)	% Contribution
OSTDS	214,633	23%
UTF	82,723	9%
AD	100,805	11%
FF	396,844	42%
STF	10,864	1%
LW Non-CAFO Dairy and Poultry	138,864	15%
LW CAFO Dairy	0	0%
Biosolids	0	0%
WWTFs	4,388	<1%
Total	949,121	100%





#### Loading to groundwater by source in the Hornsby Springshed area

UTF 2%

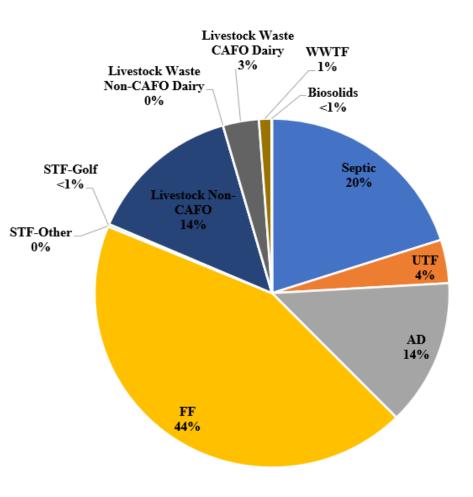
AD 7%

Nitrogen Source	TN Load to Groundwater (Ibs/yr)	% Contribution	Uivestock Waste Non-CAFO Dairy 1% STF-Golf <1% STF-Other 0% Livestock Non- CAFO
OSTDS	26,750	9%	
UTF	6,466	2%	
AD	18,671	7%	
FF	190,615	67%	
STF	1,316	<1%	
LW Non-CAFO Dairy and Poultry	37,341	13%	
LW CAFO Dairy	0	0%	
Biosolids	0	0%	FF
WWTFs	3,225	1%	67%
Total	284,383	100%	



#### Loading to groundwater by source outside the springsheds in the Santa Fe River Basin

Nitrogen Source	TN Load to Groundwater (Ibs/yr)	% Contribution
OSTDS	196,902	20%
UTF	39,519	4%
AD	133,010	14%
FF	428,054	44%
STF	2,243	<1%
LW Non-CAFO Dairy and Poultry	138,023	14%
LW CAFO Dairy	32,127	3
Biosolids	544	<1%
WWTFs	11,122	1%
Total	981,544	100%





### LOADING ALLOCATION SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

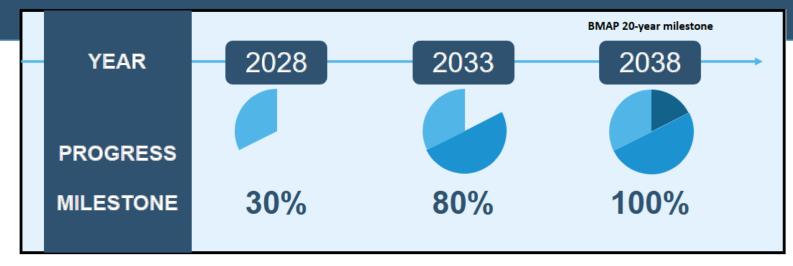
Description	Devil's Ear Nitrogen Loads (Ibs/yr)	Hornsby Nitrogen Loads (Ibs/yr)	Ichetucknee Nitrogen Loads (Ibs/yr)	Outside the Springsheds Nitrogen Loads (Ibs/yr)	Notes Regarding Data Used
Total Load at Spring Vent	2,249,219	652,823	347,612	386,236	Upper 95% confidence interval - nitrate data and flow data from 2012 to 2022 (1.33 mg/L and 10.1 cubic feet per second [cfs])
TMDL Load	617,388	474,374	177,042	304,635	TMDL target is 0.35 mg/L and using the spring vent flow data from 2012 to 2022
Percent Reduction	73%	27%	49%	21%	Calculated reduction needed based on the total load at the spring vent and the TMDL load
NSILT Load	939,017	284,383	949,121	981,544	Total load to groundwater from the updated NSILT
<b>Required Reduction</b>	681,266	77,736	465,725	207,373	Percent reduction multiplied by the NSILT load

mg/L = milligrams per liter.



### 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.



2028 5-year milestone required reductions by entity in the Devil's Ear Springshed area.

2028 Milestone Assigned Reductions (30%) TN (Ibs/yr)	Total Assigned Reductions TN (Ibs/yr)
536,405	160,921
5,331	1,599
729	219
4,433	1,330
22,959	6,888
3,635	1,091
24,771	7,431
3,778	1,133
71	21
602,111	180,633
	Assigned Reductions (30%) TN (lbs/yr) 536,405 5,331 729 4,433 22,959 3,635 24,771 3,778 71

lbs/yr = pounds/year

\*List of facilities is included in the BMAP document.

#### Timeline

- 2028-30%
- 2033- (+50%) 80%
- 2038- (+20%) 100%



#### Timeline

- 2028-30%
- 2033- (+50%) 80%
- 2038- (+20%) 100%

2028 5-year	milestone required reductions by entity in
	the Hornsby Springshed area.

Entity	2028 Milestone Assigned Reductions (30%) TN (lbs/yr)	Total Assigned Reductions TN (Ibs/yr)
Agriculture	62,312	18,694
Alachua County	4,457	1,337
City of High Springs	496	149
Town of La Crosse	80	24
City of Alachua	5,020	1,506
Private WWTFs*	15	4
Private Golf Courses*	331	99
Total, All Reductions	72,711	21,813

lbs/yr = pounds/year

\*List of facilities and golf courses is included in the BMAP document.



#### Timeline

- 2028-30%
- 2033- (+50%) 80%
- 2038- (+20%) 100%

2028 5-year milestone required reductions by entity in the Ichetucknee Springshed area.

Entity	2028 Milestone Assigned Reductions (30%) TN (Ibs/yr)	Total Assigned Reductions TN (Ibs/yr)
Agriculture	78,860	262,867
Columbia County	40,012	133,375
City of Lake City	2,870	9,566
Suwannee County	1,265	4,216
Private WWTFs*	294	981
Private Golf Courses*	1,476	4,919
Regional Projects	101	338
Total, All Reductions	124,777	416,261

lbs/yr = pounds/year

\*List of facilities and golf courses is included in the BMAP document.



#### Timeline

- 2028-30%
- <u>20</u>33- (+50%) 80%
- 2038- (+20%) 100%

2028 5-year milestone required reductions by	entity
outside the springsheds area.	

Entity	2028 Milestone Assigned Reductions (30%) TN (Ibs/yr)	Total Assigned Reductions TN (lbs/yr)
Agriculture	37,950	126,499
Alachua County	4,449	14,830
City of Gainesville	66	221
City of High Springs	2,028	6,761
Town of La Crosse	12	41
City of Newberry	37	124
City of Waldo	2	7
Bradford County	3,935	13,118
Town of Brooker	25	84
City of Hampton	109	364
City of Lawtey	125	418

lbs/yr = pounds/year



#### Timeline

- 2028-30%
- 2033- (+50%) 80%
- 2038- (+20%) 100%

2028	5-year m	ilestone	required	reductions	by entity
	out	side the	springsh	eds area.	

Entity	2028 Milestone Assigned Reductions (30%) TN (lbs/yr)	Total Assigned Reductions TN (Ibs/yr)
City of Starke	641	2,137
Columbia County	1,630	5,433
Town of Fort White	60	201
Gilchrist County	526	1,753
Suwannee County	426	1,420
Union County	1,299	4,330
City of Lake Butler	1,682	5,608
Town of Raiford	48	159
Town of Worthington Springs	24	80
Private WWTFs*	10	1,331
Private Golf Courses*	142	474
Total, All Reductions	185,392	55,227
lbe/vr = pounde/voor		

lbs/yr = pounds/year

\*List of facilities is included in the BMAP document.



Devil's Ear Springshed Entity	2028 Milestone Assigned Reductions (30%) (Ibs/yr)	TN Completed and Ongoing Project Credits (Ibs/yr)	TN Reductions from Planned and Underway Projects* (Not Verified) (lbs/yr)	Total Projected** Project TN Reductions by Entity Through 2028 (lbs/yr)
Agriculture	160,921	144,681	254	144,935
Alachua County	1,599	104	0	104
City of Archer	219	0	3,183	3,183
City of Newberry	1,330	354	2,955	3,309
Columbia County	6,888	0	0	0
Town of Fort White	1,091	0	0	0
Gilchrist County	7,431	0	0	0
Union County	1,133	0	0	0
Private WWTFs	21	0	0	0
Total, All Reductions	180,633	145,139	6,392	151,531

\* Planned and underway project reduction estimates are not verified by DEP.



Hornsby Springshed Entity	2028 Milestone Assigned Reductions (30%)(Ibs/yr)	TN Completed and Ongoing Project Credits (Ibs/yr)	TN Reductions from Planned and Underway Projects* (Not Verified) (lbs/yr)	Total Projected** Project TN Reductions by Entity Through 2028 (Ibs/yr)
Agriculture	18,694	36,977	0	36,977
Alachua County	1,337	76	0	76
City of High Springs	149	0	0	0
Town of La Crosse	24	0	0	0
City of Alachua	1,506	0	0	0
Private WWTFs	4	0	0	0
Private Golf Courses	99	0	0	0
Total, All Reductions	21,813	37,053	0	37,053

\* Planned and underway project reduction estimates are not verified by DEP.



Ichetucknee Springshed Entity	2028 Milestone Assigned Reductions (30%)(Ibs/yr)	TN Completed and Ongoing Project Credits (Ibs/yr)	TN Reductions from Planned and Underway Projects* (Not Verified) (lbs/yr)	Total Projected** Project TN Reductions by Entity Through 2028 (lbs/yr)
Agriculture	78,860	87,503	0	87,503
Columbia County	40,012	0	8,100	8,100
City of Lake City	2,870	0	0	0
Suwannee County	1,265	0	0	0
Private WWTFs	294	0	0	0
Private Golf Courses	1,476	0	0	0
Regional Projects	101	0	0	0
Total, All Reductions	124,777	87,503	8,100	95,603

\* Planned and underway project reduction estimates are not verified by DEP.



Outside the Springsheds Entity	2028 Milestone Assigned Reductions (30%) (Ibs/yr)	TN Completed and Ongoing Project Credits (Ibs/yr)	TN Reductions from Planned and Underway Projects* (Not Verified) (Ibs/yr)	Total Projected** Project TN Reductions by Entity Through 2028 (lbs/yr)
Agriculture	37,950	28,815	1,832	30,647
Alachua County	4,449	888	19	906
City of Gainesville	66	57	0	57
City of High Springs	2,028	0	0	0
Town of La Crosse	12	0	0	0
City of Newberry	37	0	0	0
City of Waldo	2	0	0	0
Bradford County	3,935	0	0	0
Town of Brooker	25	0	0	0
City of Hampton	109	0	0	0
City of Lawtey	125	0	0	0

\* Planned and underway project reduction estimates are not verified by DEP.



Outside the Springsheds Entity	2028 Milestone Assigned Reductions (30%) (Ibs/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)
City of Starke	641	0	0	0
Columbia County	1,630	0	0	0
Town of Fort White	60	0	0	0
Gilchrist County	526	0	0	0
Suwannee County	426	0	0	0
Union County	1,299	0	0	0
City of Lake Butler	1,682	0	0	0
Town of Raiford	48	0	0	0
Town of Worthington	24	0	0	0
Springs	Ζ4	0	0	0
Private WWTFs	10	0	0	0
Private Golf Courses	142	0	0	0
Total, All Reductions	55,227	29,760	1,851	31,610

\* Planned and underway project reduction estimates are not verified by DEP.



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.



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.



### **EXISTING 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.
- In this BMAP, OSTDS contribute less than 20% of nonpoint source nitrogen pollution to the Outstanding Florida Spring (OFS).
- The remediation plan for this BMAP does not include requirements for the addition of enhanced nitrogen reducing treatment to conventional systems upon the need for modification or repair of existing OSTDS.

#### 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.
- Loading from OSTDS in this BMAP does not meet the 20% contribution threshold and local governments were not required to submit an OSTDS remediation plan.



#### **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.





## **STORWMWATER AND URBAN TURFGRASS** SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

#### **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 <u>80% reduction for Total Phosphorous (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.
    </u>



### SPORTS TURFGRASS SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

#### **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.



## AGRICULTURE

**SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL** 

#### Dairy Operations with 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.



### **AGRICULTURE** SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

#### **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 DEPOSITION** SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

- Atmospheric sources of nutrients are local, national and international.
- Recent data indicate that the deposition of nitrogen has been generally decreasing in Florida with an up to 55% decrease in atmospheric deposition 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.



### **FUTURE GROWTH** SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

# 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, using 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** devel oped using **low intensity** landscaping (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 developed using high intensity landscaping (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 (Ibs/yr)	Scenario 3 TN (Ibs/yr)
Alachua County	19929	13,563	41,599	370,997
Alachua	2058	1,276	3,842	37,405
Archer	421	213	788	7,650
Gainesville	721	527	1,166	12,741
High Springs	1382	1,098	4,687	29,330
La Crosse	305	127	294	4,995
Newberry	3533	1,465	4,256	59,537
Waldo	30	12	38	504
Bradford County	1452	1,707	15,334	258,891
Brooker	3	4	34	570

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.



### **FUTURE GROWTH ANALYSIS** SECTION 2: IMPLEMENTATION TO ACHIEVE TMDL

Entity	2040 People	Scenario 1 TN (Ibs/yr)	Scenario 2 TN (Ibs/yr)	Scenario 3 TN (Ibs/yr)
Hampton	4	5	44	753
Lawtey	9	11	97	1,637
Starke	39	47	426	7,040
Columbia County	4808	3,601	25,140	421,249
Fort White	30	22	154	2,608
Lake City	140	109	773	12,361
Gilchrist County	1326	1,142	8,684	147,614
Suwannee County	64	75	661	11,233
Union County	1633	1,605	13,174	223,887
Lake Butler	18	18	148	2,506
Raiford	4	4	35	590
Worthington Springs	6	6	51	873
Basin Totals	37,917	26,636	121,423	1,614,969

2040 Loading — Basin Totals

Scenario 1 Total	Scenario 2 Total	Scenario 3 Total
3,827	11,448	19,570



## **DRAFT DOCUMENT**

### Section 1: Background

Section 2: Implementation

**Section 3: Monitoring and Reporting** 

Section 4: Commitment to Plan Implementation

Section 5: References

Appendices

Methods for Evaluating Progress

Adaptive Management

Water Quality and Biological Monitoring

Groundwater Analysis



### WATER QUALITY MONITORING SECTION 3: MONITORING AND REPORTING

#### **Primary objectives:**

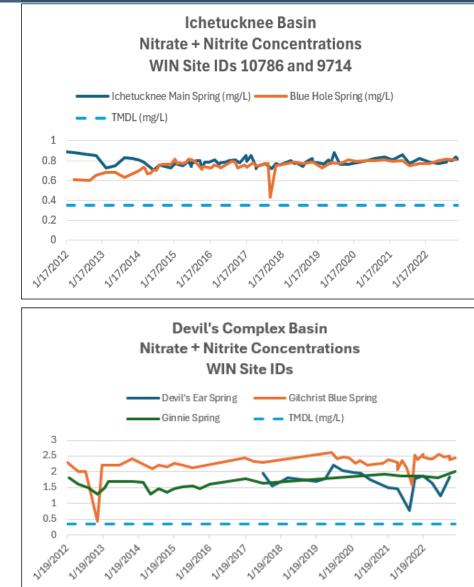
- Measure the water quality and biological response in the impaired springs and groundwater at the beginning of the BMAP period and during implementation.
- Document nutrient trends in the springshed.

#### **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



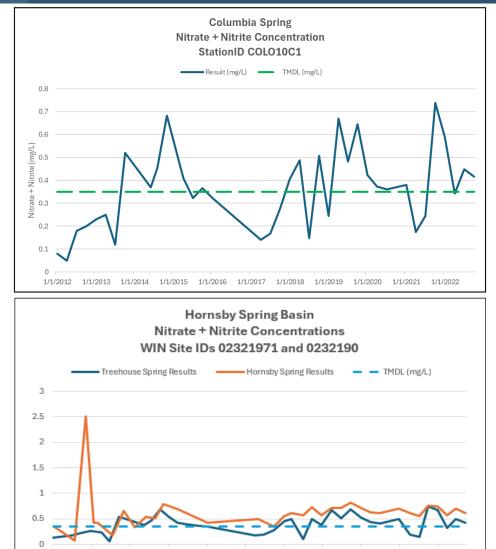
### WATER QUALITY MONITORING SECTION 3: MONITORING AND REPORTING



- 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.



### WATER QUALITY MONITORING SECTION 3: MONITORING AND REPORTING



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     Specific statistical analyses were not identified during BMAP development.



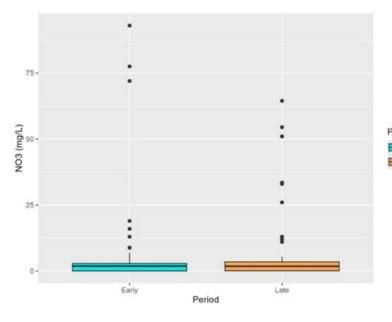
### **GROUNDWATER MONITORING** SECTION 3: MONITORING AND REPORTING

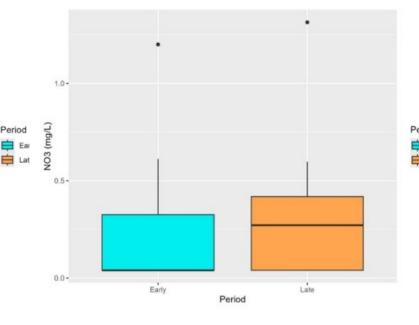
Groundwater monitoring gives us a look at the health of the aquifer before water discharges at spring vent.

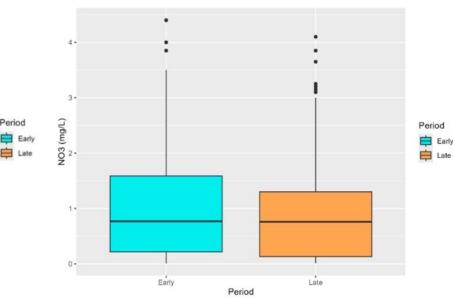
- Uses measured data (nitrate- total and dissolved) from groundwater monitoring wells from DEP's Water Information Network (WIN) and the WMDs.
- A visual analysis was performed using the annual median as boxplots.
- Wells that were sampled regularly through the period of record were considered "fixed". 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.



### **GROUNDWATER MONITORING** SECTION 3: MONITORING AND REPORTING







**Devil's Ear Springshed** NO3 concentrations of early and late periods, with outliers.

Median Early = 1.85 mg/L. Median Late = 1.80 mg/L. Hornsby Springshed NO3 concentrations of early and late periods, with outliers.

Median Early = 0.04 mg/L. Median Late = 0.27 mg/L. Ichetucknee Springshed NO3 concentrations of early and late periods, with outliers.

Median Early = 0.77 mg/L. Median Late = 0.76 mg/L.



## **DRAFT DOCUMENT**

### Section 1: Background

Section 2: Implementation

Section 3: Monitoring and Reporting

**Section 4: Commitment to Plan Implementation** 

Section 5: References

Appendices

Adoption Process Tracking Reductions Revisions to the BMAP



### **ADAPTIVE MANAGEMENT** SECTION 4: COMMITMENT TO PLAN IMPLEMENTATION

#### 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

- **NEW:** 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 and Private Golf Courses with Reduction Allocations.

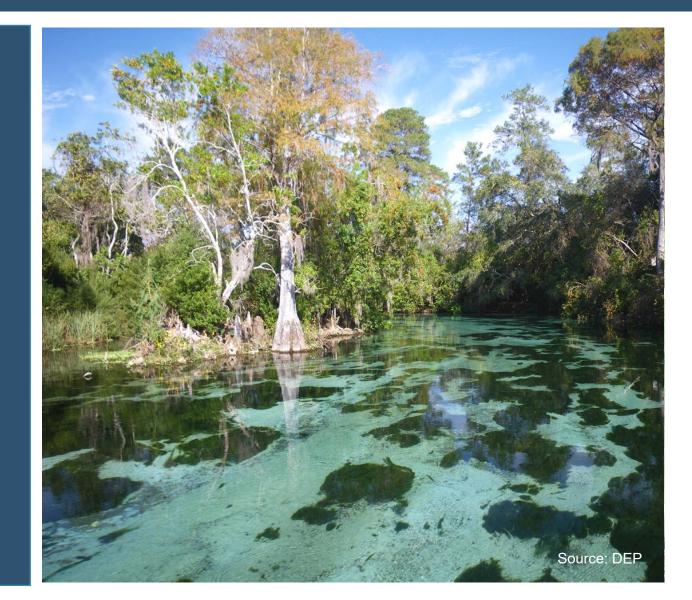


### **NEXT STEPS**

BMAP update document draft review:

- Draft document sent out via GovDelivery April 4, 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-on- one 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







👍 Gemini Springs Story Map



Rainbow Springs Group and Rainbow Springs Group Run..









Silver Springs and Upper Silver River BMAP Story Map



Map



#### 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 Clean Waterways Act Requirements for WWTP and OSTDS

Map of HB 1379 New and Existing OSTDS Requirements

Content



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.

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

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

established by a TMDL. A BMAP is developed with local stakeholders and relies on local input and commitment for successful

All BMAP Documents

Map including BMAPs adopted and in progress

All Water Ouality Restoration Program



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

#### Crystal River - Kings Bay 3 DeLeon Spring Story Map BMAP StoryMap





5 Homosassa and Chassahowitzka Springs..



# THANK YOU

**Chandler Keenan** Environmental Administrator

Contact Information: 850-245-8555 Chandler.B.Keenan@FloridaDEP.gov



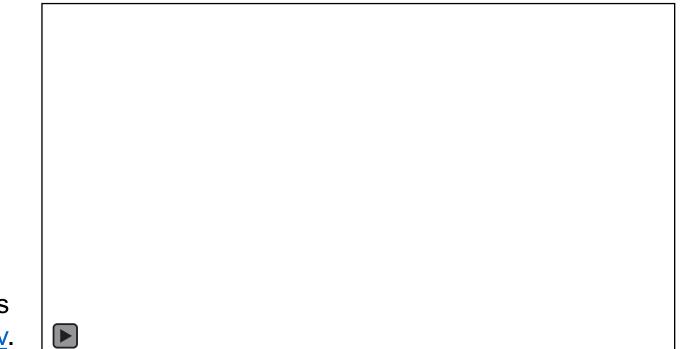
### **BMAP MEETING** PUBLIC QUESTIONS PERIOD

#### **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>BMAPProgram@FloridaDEP.gov</u>.



Florida Department of Environmental Protection (DEP) Santa Fe Basin Management Action Plan (BMAP) Virtual Public Meeting via GoToWebinar April 10, 2025 2:00 pm –3:45 pm EDT

#### Attendees

Eiman Abbas, City of Alachua Sally Adkins, City of Gainesville Nicole Bailey, City of Newberry Julianna Belitz, DEP Amy Brown, SRWMD Tiffany Busby, Wildwood Consulting Stacy Cecil, SJRWMD Terry Clark, Staff Connections Caryn Crabb-Nelson, DACS Mary Diaz, SRWMD Chloe Dougherty, Florida Springs Council Bryanna Edgar, Citizen Samantha Epstein, SJRWMD Kristine Eskelin, SRWMD Jessica Fetgatter, DEP Corrine Flumerfelt, DEP Cathy Foerster, Drummond Carpenter Laura Goss, Florida Peanut Federation Stacie Greco, Alachua County Tedd Greenwald, Citizen Roxanne Groover, FOWA Sam Hankinson, DEP Madeline Hart, DACS Kenny Hayman, DEP Margarita Hernandez, Citizen Susie Hetrick, SRWMD George Hochmuth, Citizen Robin Holland, DACS Moira Homann, DEP Porter Horne, Citizen David Hudson Tuthill, Step Up For Students

Luke Hutchinson, Infrastructure Consulting & Engineering Emma Janecek, DACS David Jenkins, Citizen Chandler Keenan, DEP Chris Keller, Wetland Solutions Sean King, SRWMD Kevin Korus, University of Florida Gregory Lang, Mittauer and Associates Conor Lucey, DEP Celeste Lyon, RES Wynn McDonald, SRWMD Haley Moody, Florida Springs Institute Morgan Morrow, DACS Jessica Mostyn, DEP Jim Myles, DB Environmental Brittney O'Neal, DACS Rhea Oaks, Amp Up Today Kevin O'Donnell, DEP Lindsey Pavao, Alachua County Steven Peene, Applied Technology & Management Beth Robertson, DEP Kristen Sealey, Gainesville Regional Utilities Tiffany Simpson, DEP Mary Szoka, Alachua County Debby Tipton, DEP Emanuela Torres-Marquis, Florida Springs Institute Joanne Tremblay, Our Santa Fe River Diana Turner, DEP

Lisa Van Houdt, DEP Ken Weaver, DEP Stefani Weeks, Citizen Carol White, Citizen Barton Wilder, DACS Shane Williams, City of Gainesville Katrina Yancey, DEP

#### **Overall**

The draft BMAP document can be downloaded here <u>https://floridadep.gov/dear/water-quality-restoration/documents/250410-safe-draft-document</u>. Comments on the draft BMAP document are due by May 2, 2025. Verbal comments at this meeting were welcome. Written comments submitted at the meeting were invited. Comments after the meeting should be sent to <u>BMAPProgram@FloridaDEP.gov</u> by May 2, 2025.

#### **Questions and Answers**

Question (Q): If a local government has a strong fertilizer ordinance, can that be used to reduce future growth loading?

Answer (A): The future growth loading is not being assigned to the local governments in this BMAP update, so there will not be credit against these potential loads. However, strong ordinances could be a future refinement to the future growth estimation method and strong ordinances are one of the main tools that DEP recommends in order to abate the impact of additional population growth. Fertilizer ordinances are incorporated into the NSILT estimations, so local governments with strong fertilizer ordinances have a reduced starting load to groundwater. Appropriate ordinances are credited to local governments for urban acres once development has occurred as long as the public education and ordinances are ongoing. In the future growth estimation method and scenarios presented today, the strength of the local fertilizer ordinance was not factored in. While no credit will be given against future growth estimates, DEP credits local governments for up to 6% of their existing urban loads, in consideration of specific source control ordinances and public education activities. As DEP has mentioned in some meetings, a DEP review is underway to refine the crediting and reporting of these public education and ordinance measures, to ensure that these activities are effective enough to continue the 6% (or a smaller percentage, depending on the entity's suite of efforts) credit. DEP is not considering increasing the 6% credit, but adjustments to the reporting and evaluation of public education efforts up to 6% are being discussed.

Q: How do we get credit for strong ordinances? Isn't the credit for ordinances lumped with outreach so maxed out at 6%?

A: Up to 6% credit on urban loading is currently available, including consideration of four ordinances that address nutrient sources: Landscaping; irrigation; pet waste; and fertilizer ordinances. As mentioned, DEP is reviewing these crediting practices and entities should expect DEP to amend the reporting approach for entities to maintain their credits.

Q: What is deadline for comments and best address to which to send them?

A: You can send comments to Moira.Homann@FloridaDEP.gov by May 2, 2025.

Q: How do I go about learning more about how Newberry's and Archer's plans to reduce nutrient loading?

A: The best place to see what projects are being planned and implemented by responsible entities is to review the project list in Appendix B within the draft BMAP document. You can also download the 2023 project list from the Statewide Annual Report at this site: <a href="https://floridadep.gov/dear/water-quality-restoration/content/statewide-annual-report">https://floridadep.gov/dear/water-quality-restoration/content/statewide-annual-report</a>. The download is an Excel workbook that allows you to sort and filter projects to suit your interest, including by Lead Entity (i.e., City of Newberry or City of Archer). The BMAP project list in Appendix B has been updated since the 2023 Statewide Annual Report list posted online.

Q: The University of Florida (UF) has been increasing their turf areas. Will they be included in the nutrient reductions?

A: DEP will be engaging UF as a stakeholder in this process

Q: If I heard correctly, the future growth is load to groundwater, correct? And they are load to the land surface and do not take into account the attenuation factors applied by Nitrogen Source Inventory Loading Tool (NSILT)?

A: The future growth estimates are load to groundwater estimates and consider the recharge factors and attenuation factors used in the NSILT.

#### Comments

Comment: In the draft BMAP document, page 77, Figure 16 has "Lower Suwannee springshed" – this should be "Ichetucknee."

#### Adjournment

The meeting ended at 11:55 pm EDT.