



2022 5-Year Review of the Caloosahatchee Basin Management Action Plan (BMAP)

Overview of Report Contents



WEBINAR TIPS

Audience Participation

Open your control panel.

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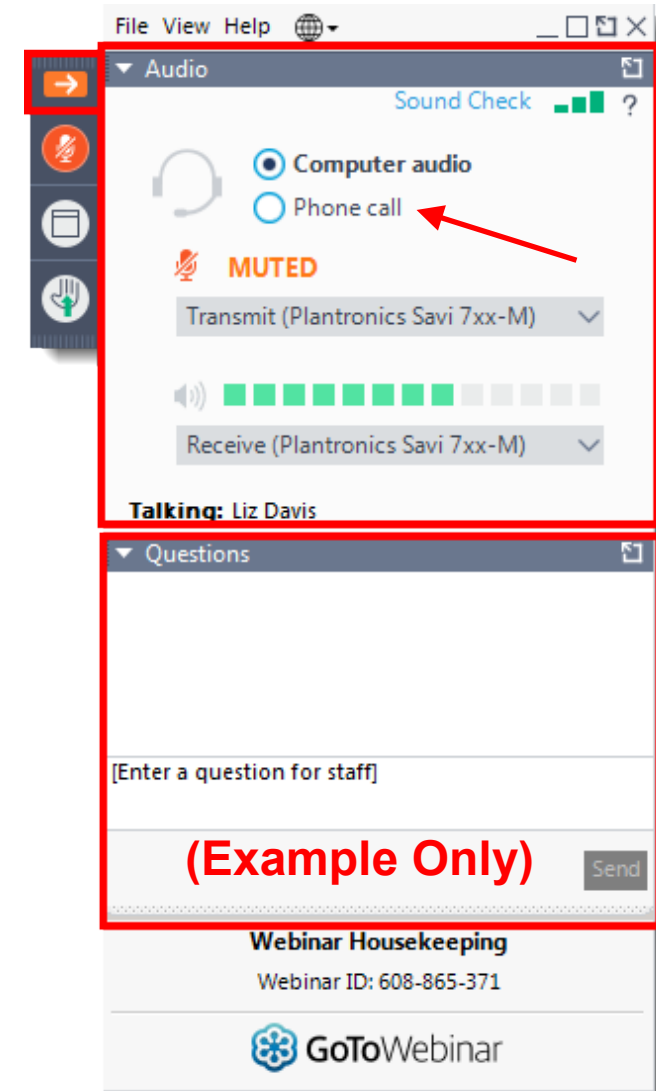
- Choose Computer Audio or
- Choose Phone Call and dial using the information provided with your registration

Attendee audio will automatically be muted.

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

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

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





2022 5-Year Review of the Caloosahatchee BMAP

Presentation Agenda

- *Introduction*
- *Progress towards reduction goals*
- *Recommendations for future BMAP updates*
- *Future steps*





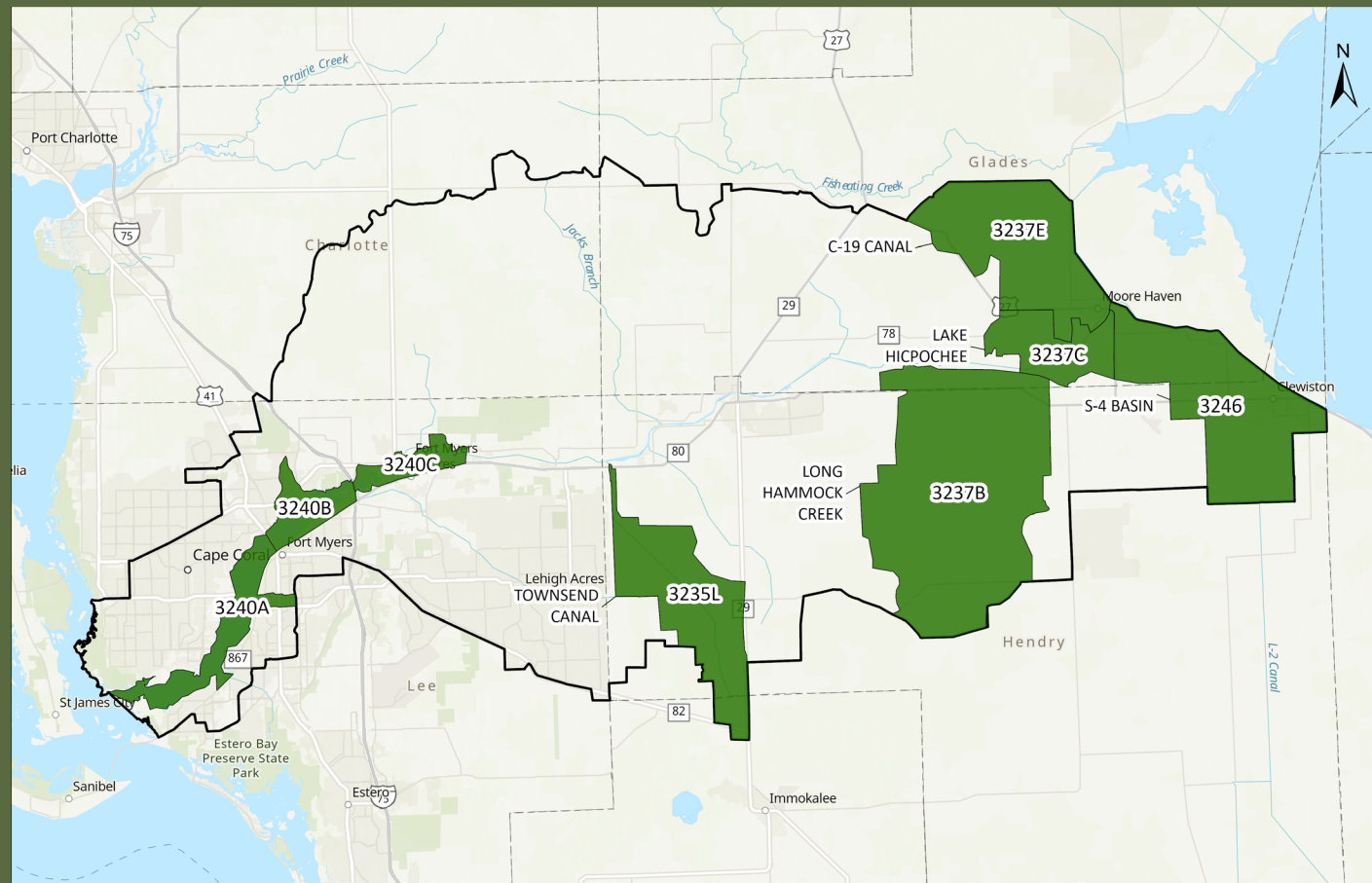
INTRODUCTION



- Why a review?
- What is a review vs. an update?



SECTION 1: INTRODUCTION



Caloosahatchee TMDLs

Map prepared by the Division of Environmental Assessment and Restoration.
This map is not for legal decision making purposes.
[GIS] Janis Morrow (850) 245-8543
[BMAP] Diana Turner (850) 245-8825
Map ID: TMDL
Created: 1-14-2021



- Caloosahatchee BMAP boundary
- State Adopted and EPA Approved TMDLs
- Florida Counties

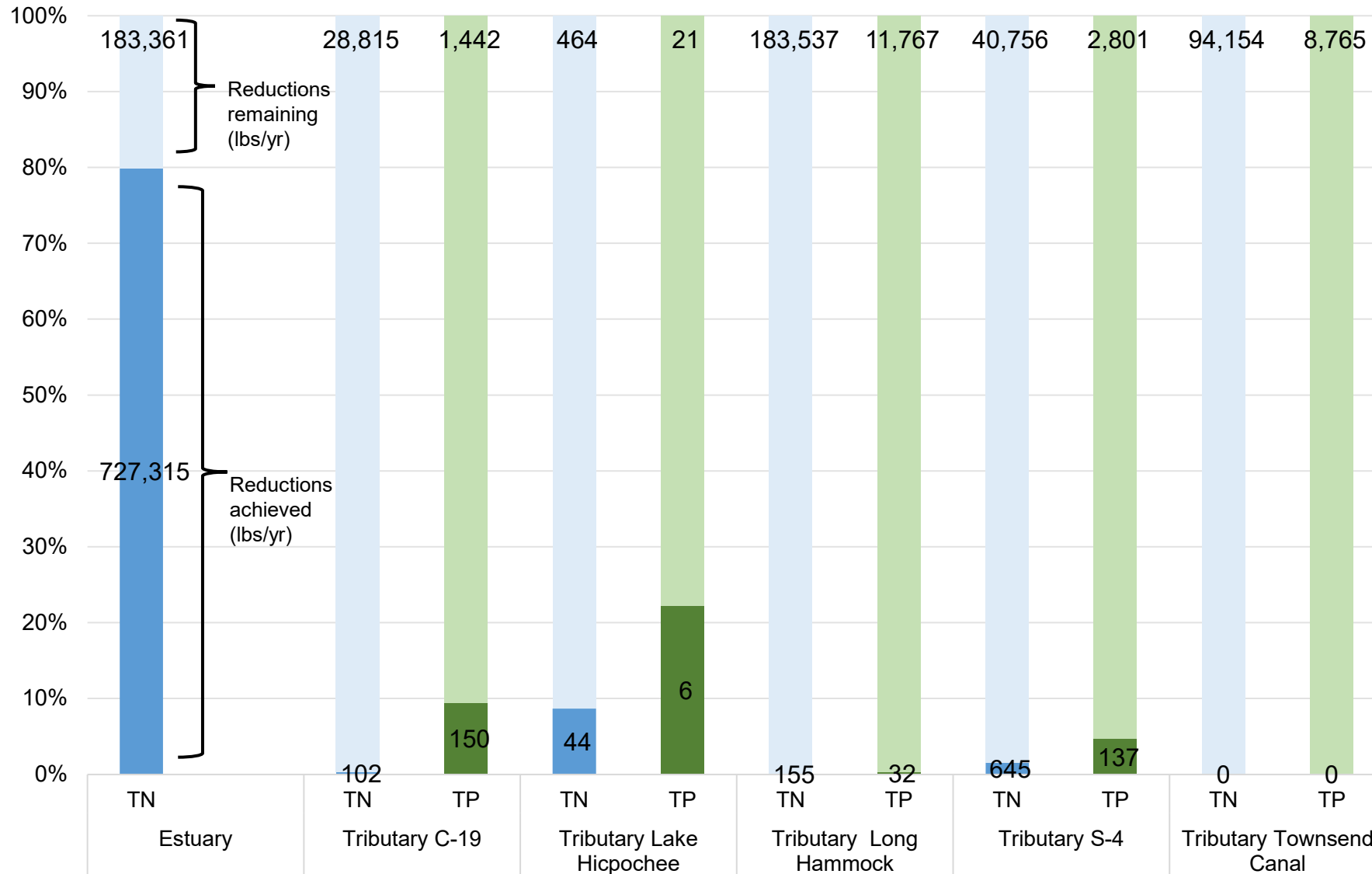
0 2.5 5 10 15 20 Miles

- The original BMAP was established for the 2009 total nitrogen (TN) total maximum daily load (TMDL) for the estuary.
- The current BMAP was expanded in 2019 to include the entire watershed and five new TMDLs for tributaries to the river.



SECTION 2: PROGRESS

Reductions from stakeholder projects



TN and total phosphorus (TP) reductions from completed and ongoing projects.

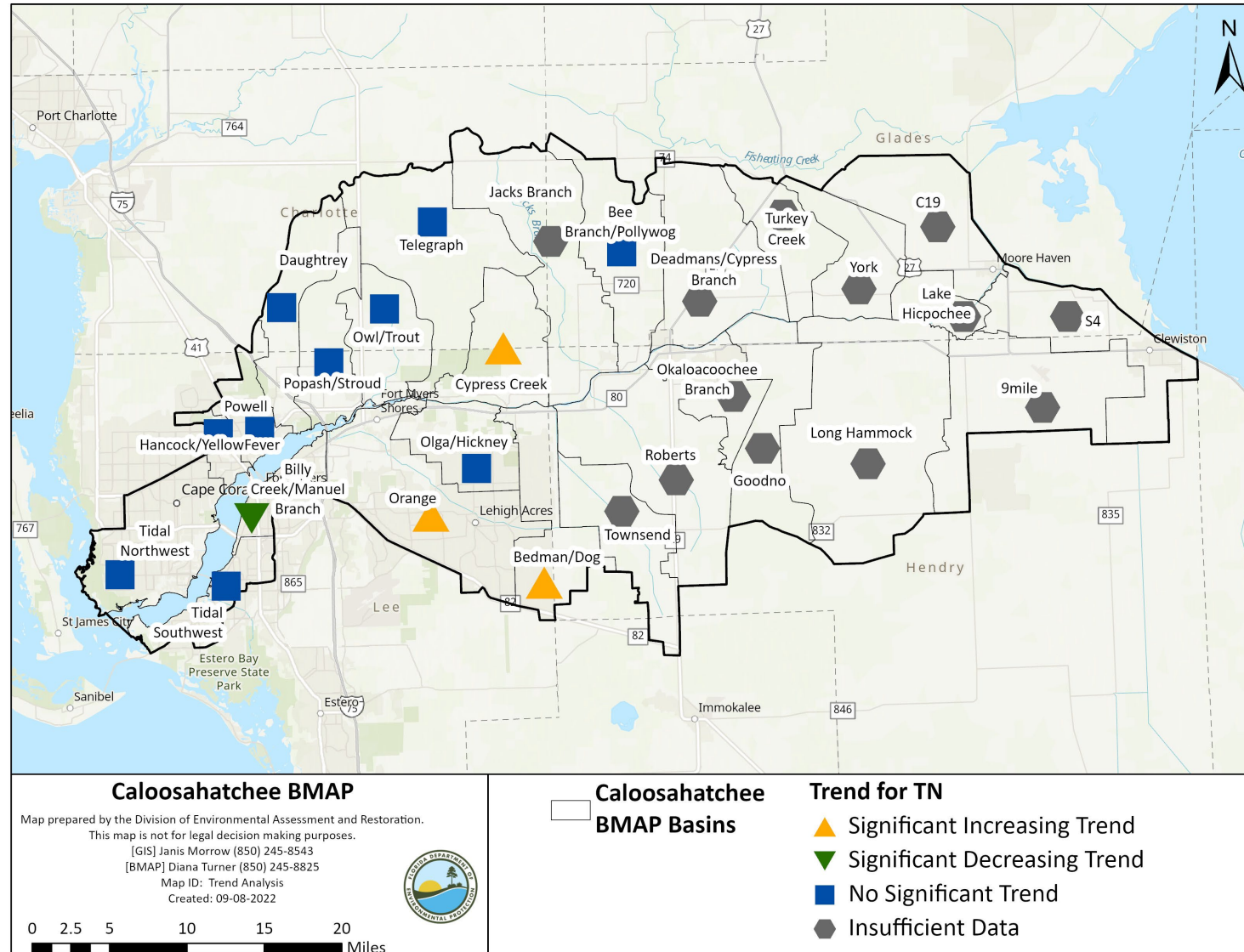
Data collection on tributaries only began in 2020.



SECTION 2: PROGRESS

Trend analysis from monitoring data

Seasonal Kendall Trend Analysis



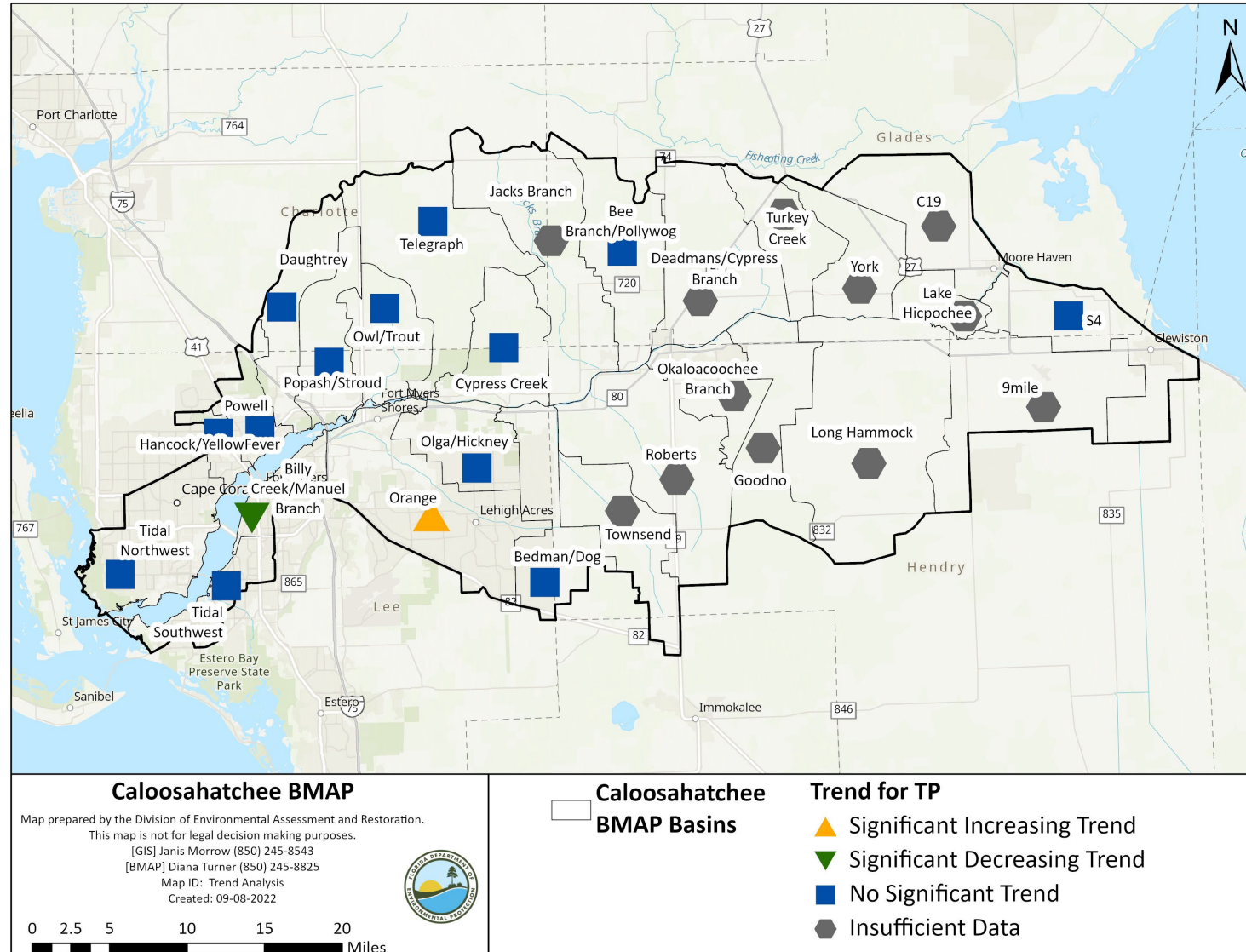
Based on at least 5 continuous years of data.



SECTION 2: PROGRESS

Trend analysis from monitoring data

Seasonal Kendall Trend Analysis

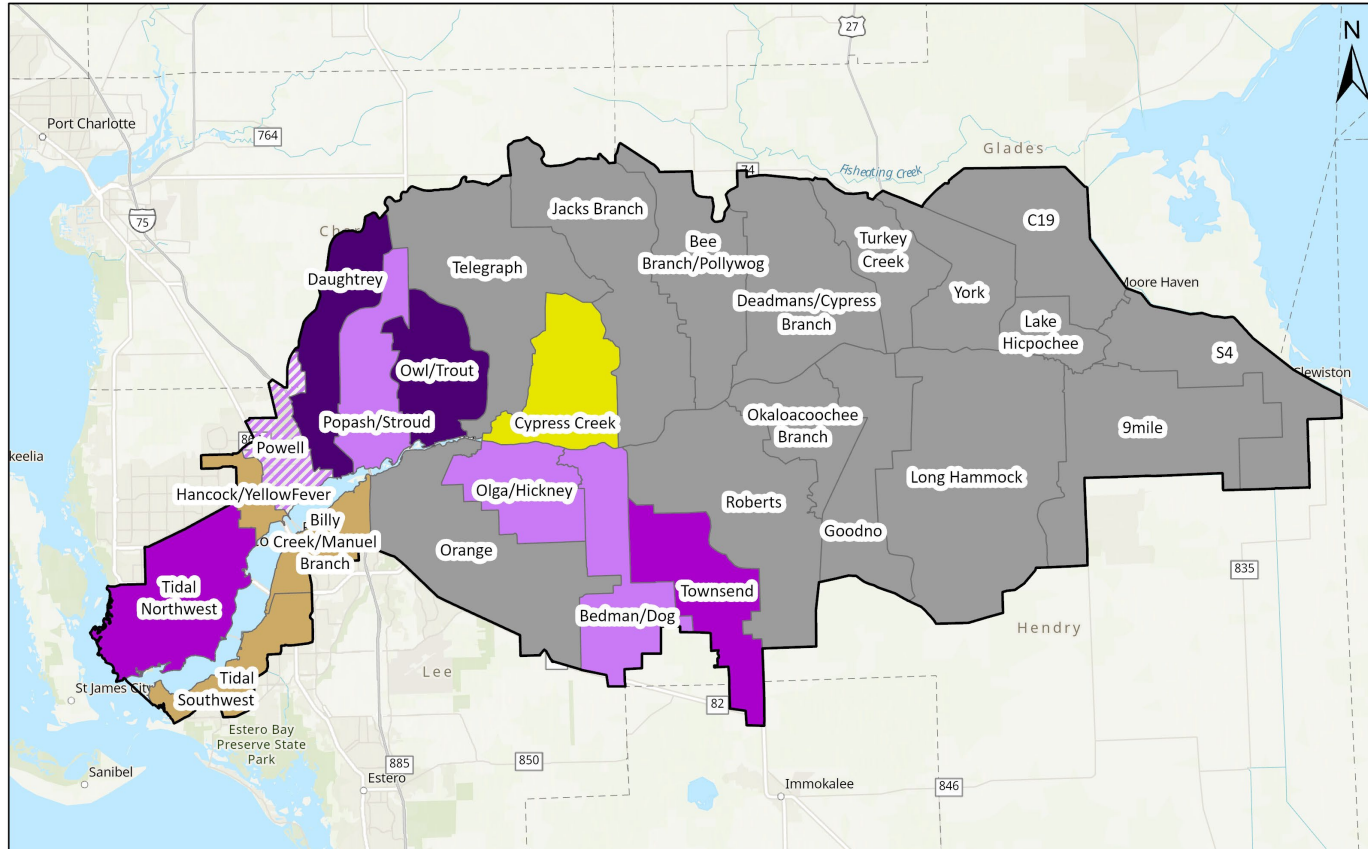


Based on at least 5 continuous years of data.



SECTION 2: PROGRESS

Finding areas for prioritization



Caloosahatchee BMAP

Map prepared by the Division of Environmental Assessment and Restoration.
This map is not for legal decision making purposes.
[GIS] Janis Morrow (850) 245-8543
[BMAP] Diana Turner (850) 245-8825
Map ID: TRA
Created: 10-07-2022



0 2.5 5 10 15 20
Miles

Caloosahatchee
BMAP Boundary

TN Priority, TP Priority

1,3
2,2
2,3

2, Insuff. Data

3,2
3,3
Insuff. Data, Insuff. Data

Targeted
Restoration
Area (TRA)
evaluation
looks to find
areas of
highest
priority (1).



SECTION 3: RECOMMENDATIONS

Overview

Milestones

Compliance

**Clean
Waterways
Act**

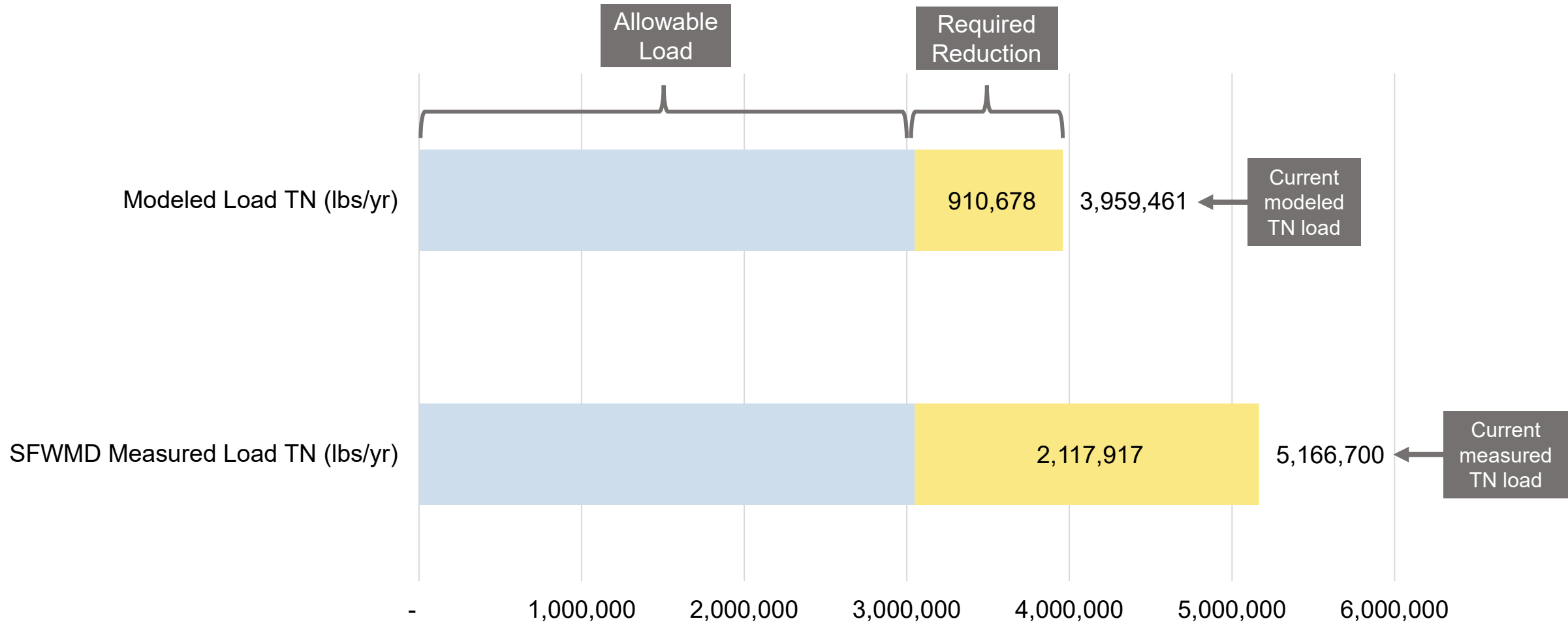
Monitoring



SECTION 3: RECOMMENDATIONS

Changes to Milestones

Monitoring data shows higher loading than expected.





SECTION 3: RECOMMENDATIONS

Compliance

Change language on compliance to loading to make Northern Everglades BMAPs more consistent.

❖ Caloosahatchee Estuary — 3,048,783 lbs/yr of TN.

❖ Long Hammock — of 253,673 lbs/yr of TN and 16,295 lbs/yr of TP.

❖ C-19 Canal — 31,327 lbs/yr of TN and 1,579 lbs/yr of TP.

❖ S-4 — 111,935 lbs/yr of TN and 7,555 lbs/yr of TP.

❖ Lake Hicpochee — of 24,929 lbs/yr of TN and 1,348 lbs/yr of TP.

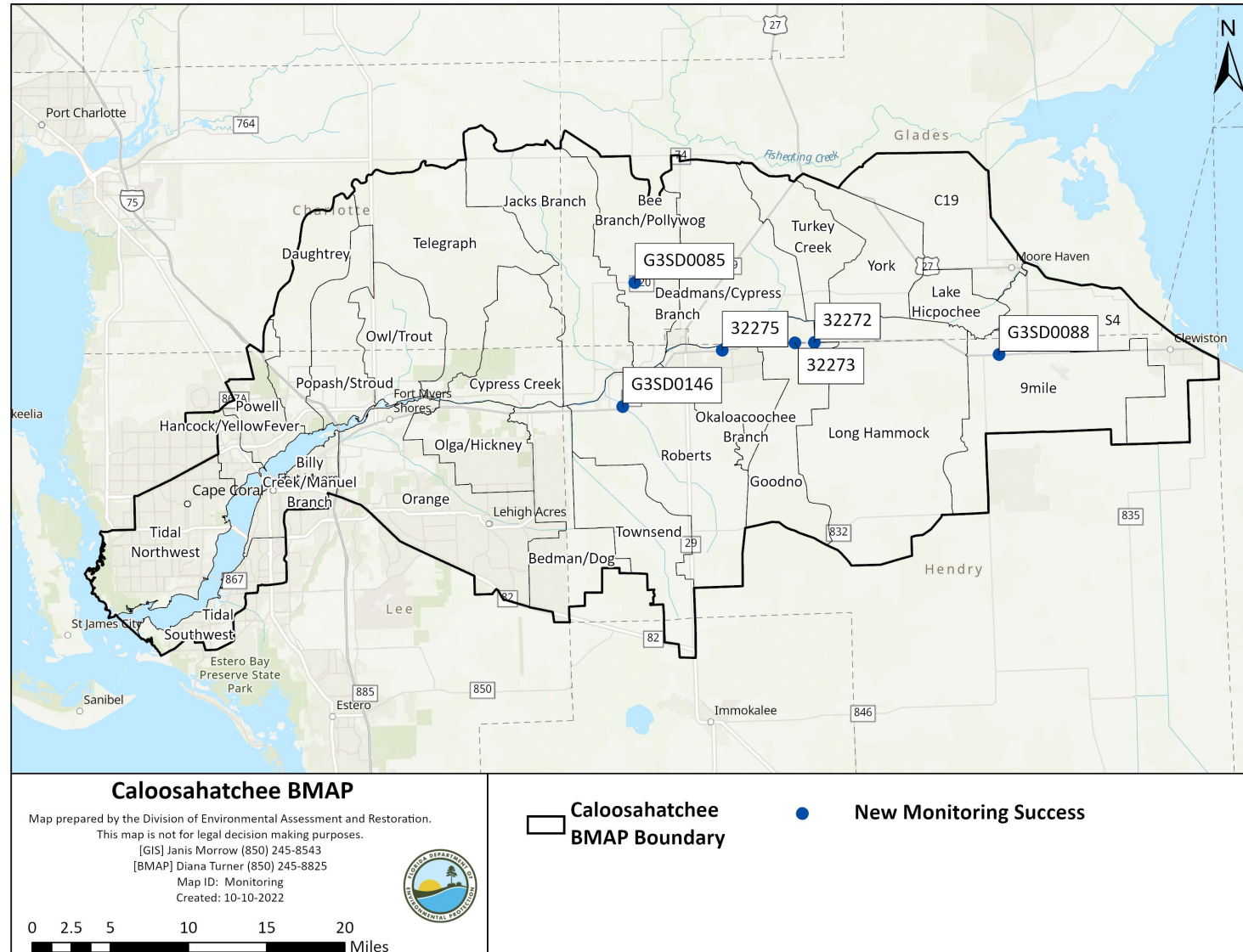
❖ Townsend Canal — 160,314 lbs/yr of TN and 14,300 lbs/yr of TP.



SECTION 3: RECOMMENDATIONS

Water Quality Monitoring

New Stations!

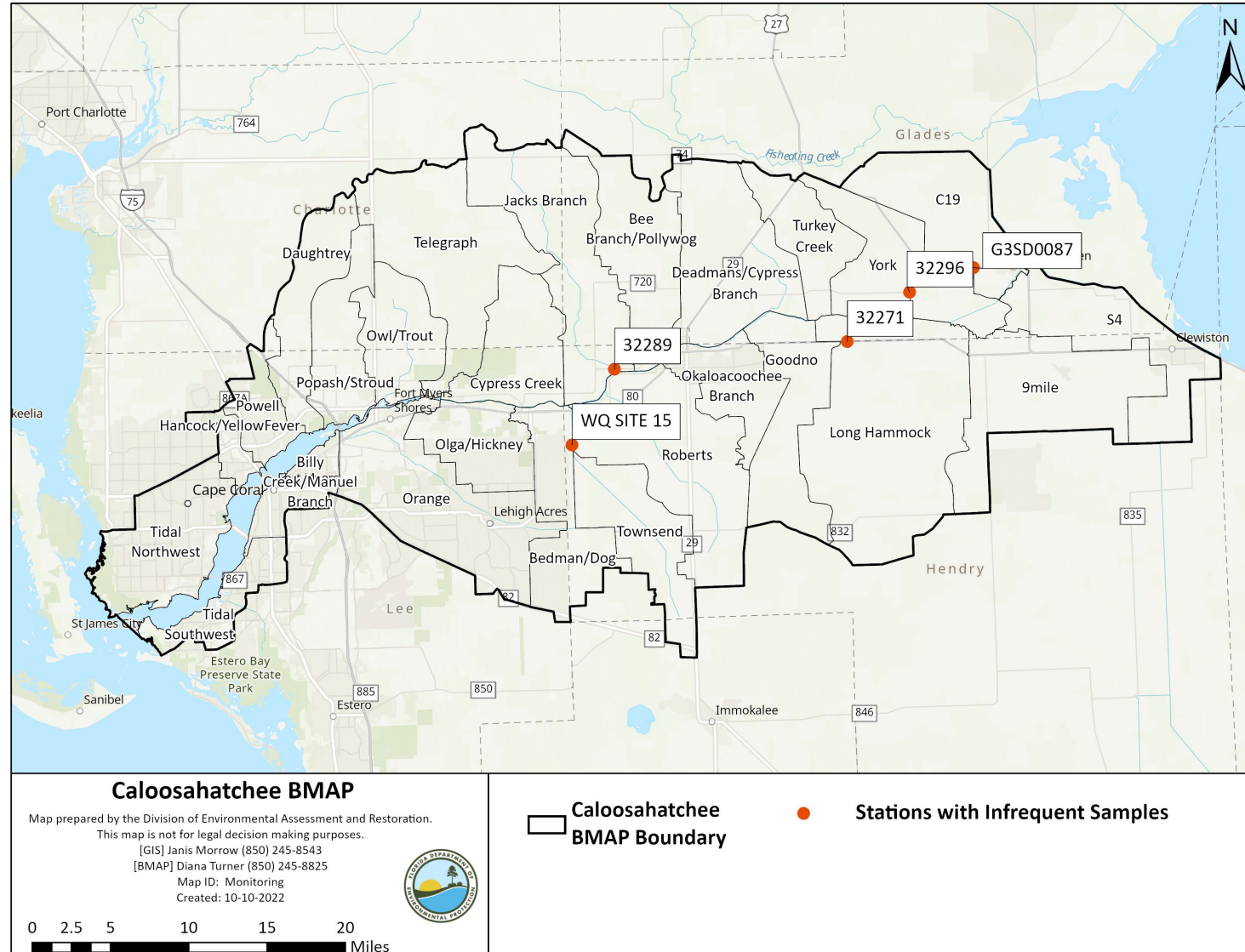




SECTION 3: RECOMMENDATIONS

Water Quality Monitoring

Needed
monitoring
increases.





SECTION 3: RECOMMENDATIONS

Onsite Sewage Treatment & Disposal Systems (OSTDS) & Clean Waterways Act Requirements

OSTDS / Septic Systems:

- Recommend limiting new conventional OSTDS on lots smaller than 1 acre in all BMAP areas.

Clean Waterways Act Requirements:

- Local governments required to develop plans for wastewater and OSTDS.
- Required to adopt plans in BMAPs by July 1, 2025.
- If you have submitted your wastewater and stormwater needs analyses to the Office of Economic & Demographic Research, please let us know!

Webinar with more information on Clean Waterways Act requirements can be found here:

[publicfiles.dep.state.fl.us - /DEAR/BMAP/2025 BMAP Updates/Meetings/2022/Clean Waterways Act_WWTF and OSTDS Requirements_March 31/.](https://publicfiles.dep.state.fl.us/-/DEAR/BMAP/2025%20BMAP%20Updates/Meetings/2022/Clean%20Waterways%20Act_WWTF%20and%20OSTDS%20Requirements_March%2031/)



REVIEW PUBLICATION AND COMMENTS

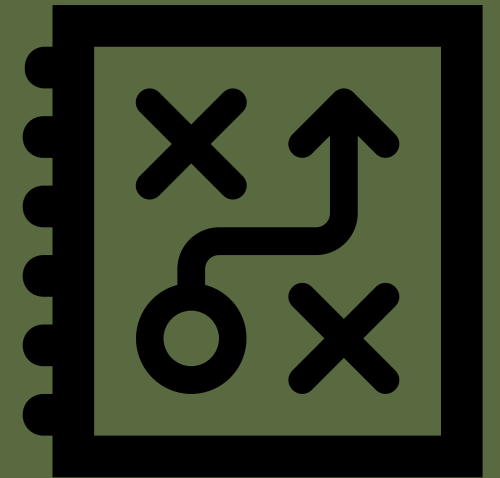
- ❖ Draft review can be found here:
 - ❖ publicfiles.dep.state.fl.us/DEAR/BMAP/Caloosahatchee/CaloosahatcheeBMAP/2022_5-Year_Review/.
- ❖ Please provide all comments by December 9.





FUTURE STEPS

- ❖ Calculate new allocations.
- ❖ Coordinate with stakeholders on changes.
- ❖ Hold public meetings on allocations and milestones.
- ❖ Establish monitoring sites in Deadmans/Cypress Branch and Turkey Creek basins.
- ❖ Continue to collect Clean Waterways Act plans from local governments.





QUESTIONS



- ❖ Please submit all questions and comments either in the chat box or in writing to Nicole.Morgan@FloridaDEP.gov.
- ❖ Questions with answers and comments will be provided with the recording of the webinar on the FTP site:
<http://publicfiles.dep.state.fl.us/DEAR/BMAP/Caloosahatchee/Meetings/>.



THANK YOU

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