



Florida Department of Environmental Protection
Water Quality Restoration Program

**Caloosahatchee Estuary
Basin Management Action Plan (BMAP)
5-Year Review Kickoff Meeting**

July 26, 2017

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Agenda

- Overview of the Caloosahatchee Estuary BMAP
- Pertinent Legislation
- Tentative Timeline
- Preview of 5-Year Review Outline
- Next Steps



Caloosahatchee Estuary TMDL

Parameter	Wasteload Allocation (WLA) for Wastewater (lbs/yr)	Current Domestic Wastewater Loading (lbs/yr)	WLA for NPDES Stormwater (% Reduction)	Load Allocation (LA) (% Reduction)	Current Stormwater Loading (lbs/yr)	TMDL Load (lbs/yr)
TN	Permitted loads	64,158	23%	23%	1,690,084	1,301,365

- Total Maximum Daily Load (TMDL) adopted in 2009
- BMAP adopted in 2012
- Fourth Progress Report finalized in April 2017
 - Includes information through November 30, 2016



Pertinent Legislation

Chapter 373.4595(4), F.S.

- Original BMAP adopted in November 2012
 - Five-Year Review finalized by end of November 2017
 - Review provided to the Governor, the President of the Senate, and the Speaker of the House of Representatives
- Review to include:
 - 5-year milestones towards meeting TMDL 20 years after adoption
 - Assessment of progress towards meeting the milestones
 - Determination of whether TMDL can be met in 20 years
 - If not, explanation of why
 - Identification of recommended revisions to the BMAP
 - Boundary expansion, monitoring network, etc.



Tentative Timeline

Caloosahatchee Estuary BMAP 5-Year Review

Timeline for Stakeholder Involvement	Deadline*
1. Stakeholders submit 5-Year Review project updates and new projects to DEP (included updates through 5/31/2017 ¹)	7/14/2017
2. Stakeholders provide water quality monitoring data via WIN or STORET (include data through 5/31/2017 ¹)	8/31/2017
3. Public meeting – Draft 5-Year Review provided for comments	10/30/2017
4. Stakeholders submit comments on Draft 5-Year Review document to DEP	11/1/2017
5. Final BMAP 5-Year Review submitted to Governor/Legislature	11/30/2017



* Dates are approximate

¹First Five-Year Review covers a 4.5-year POR, from BMAP adoption (12/1/2012) through 5/31/2017.



5-Year Review Outline



- Chapter 1: Background Information

- Chapter 2: Assessing Progress



- Chapter 3: Recommendations



Chapter 1: Background Information

1.1 Water Quality Standards and TMDL

1.1.1 Caloosahatchee Estuary Basin TMDL

1.2 The Caloosahatchee Estuary BMAP

1.2.1 Caloosahatchee BMAP Pollutant Reduction and Discharge Allocations





Chapter 2: Assessing Progress

2.1 Projects to Achieve the TMDL

- Includes project summaries from stakeholders

2.2 Water Quality Monitoring and Evaluation

2.2.1 Ambient Water Quality Monitoring

2.2.2 Biological Monitoring

2.2.3 Water Quality Analysis





Chapter 3: Recommendations

3.1 Milestones



3.2 Modeling and Allocations

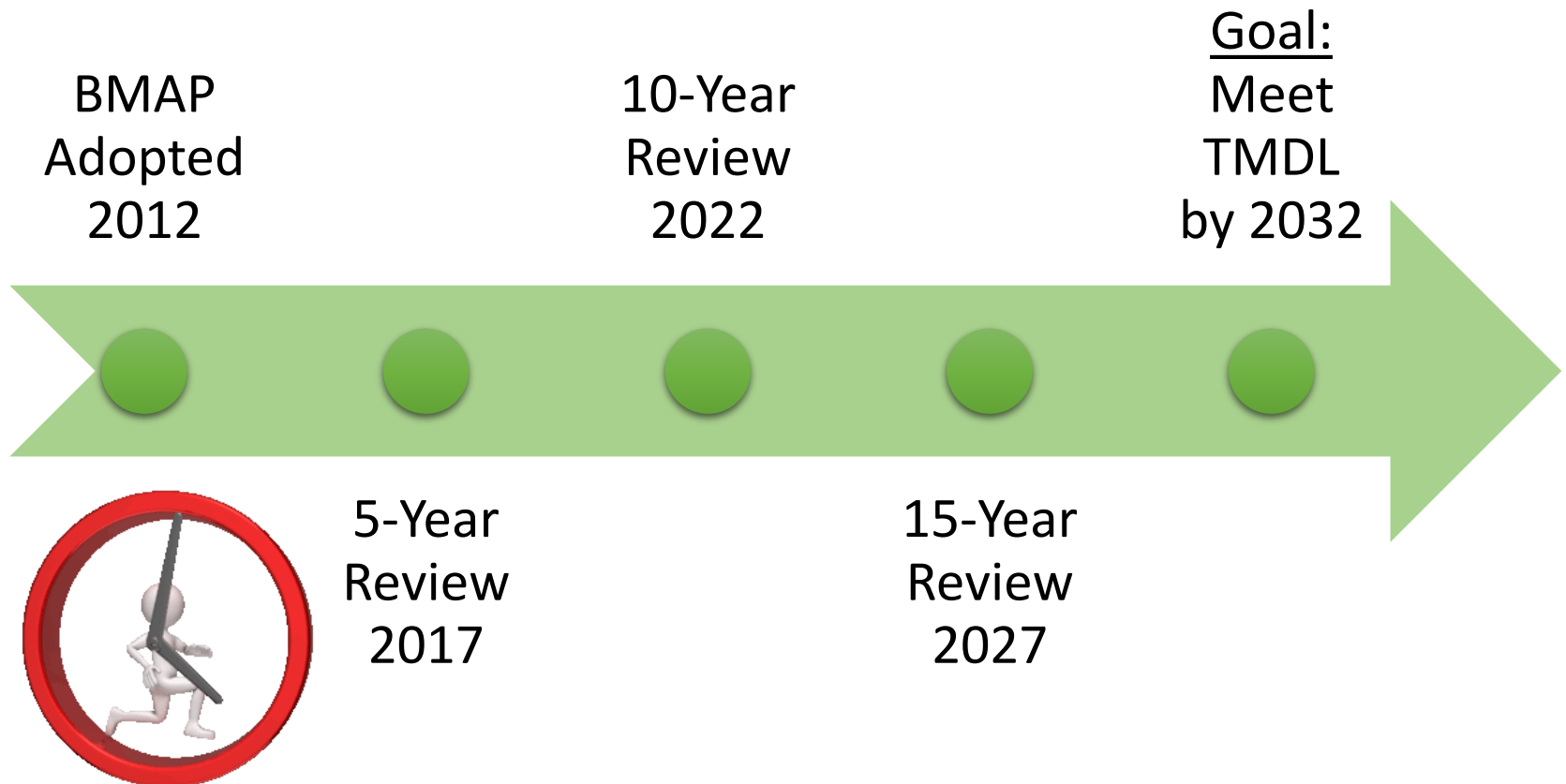


3.3 Water Quality Monitoring





3.1 Milestones





3.2 Modeling and Allocations

- During BMAP development, stakeholders expressed concerns about the models used for the TMDL
- Tetra Tech and AMEC were contracted by DEP to evaluate and revise the existing models
- Modeling is ongoing, and results can help guide implementation

Florida Department of Environmental Protection
Division of Environmental Assessment and Restoration (DEAR)
Water Quality Evaluation and TMDL Program (WQETP)

Erin Rasnake: Program Administrator

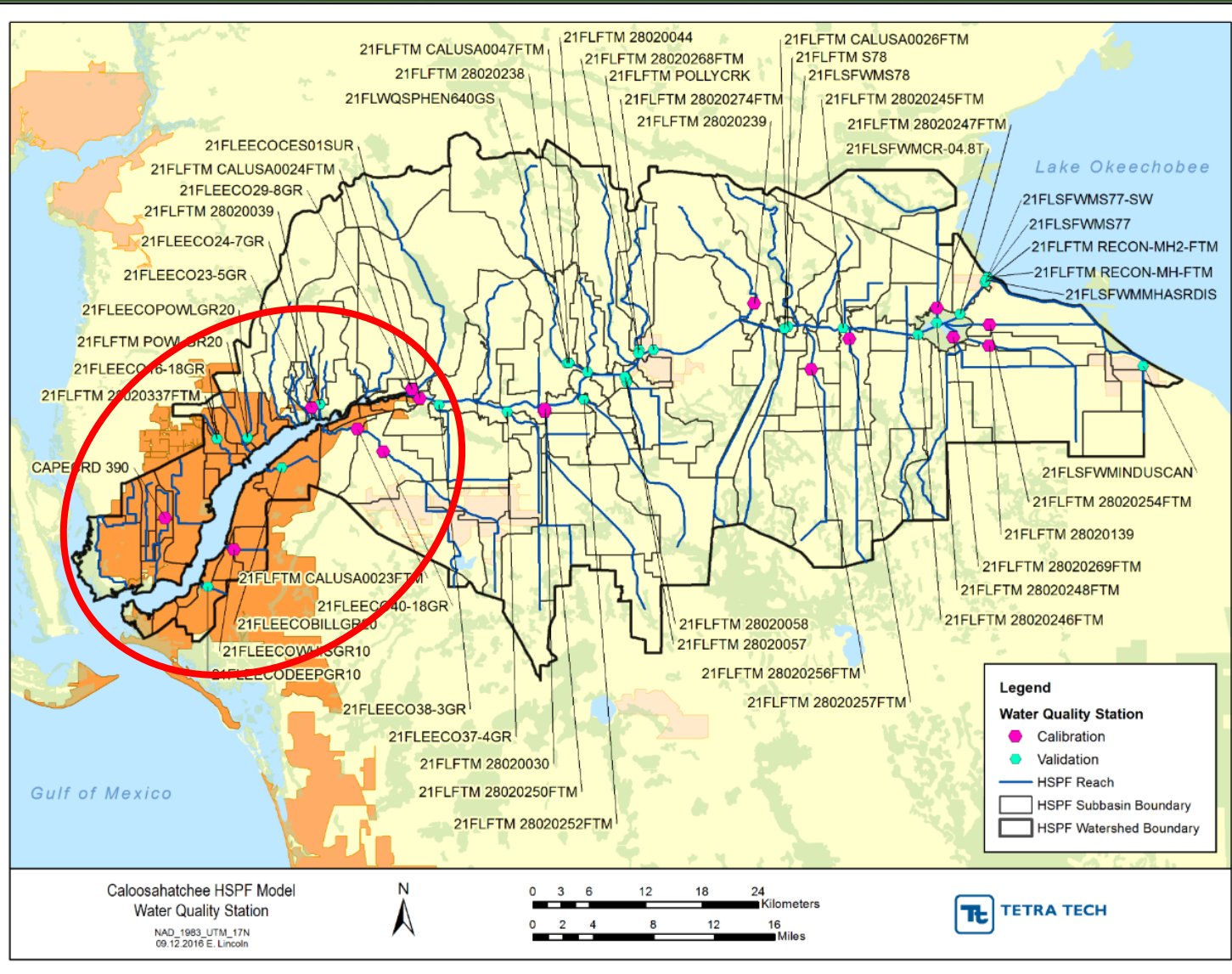
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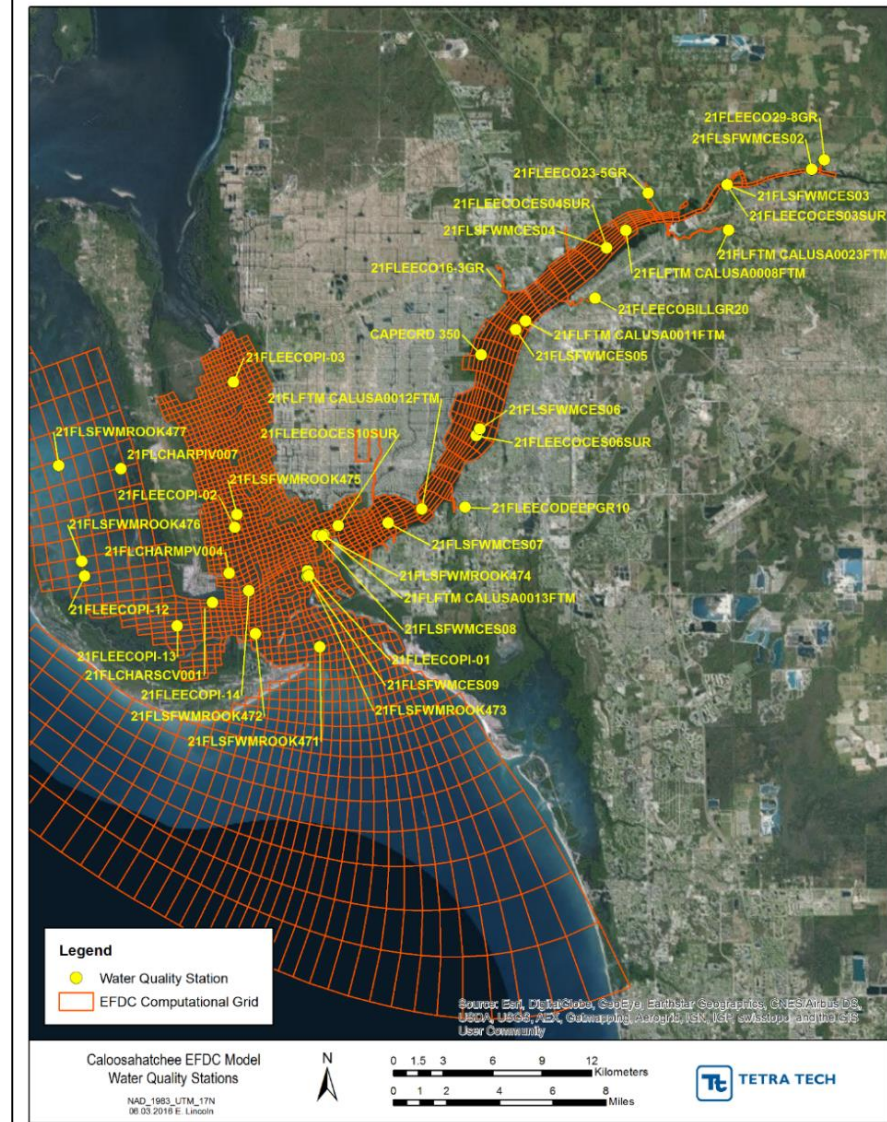
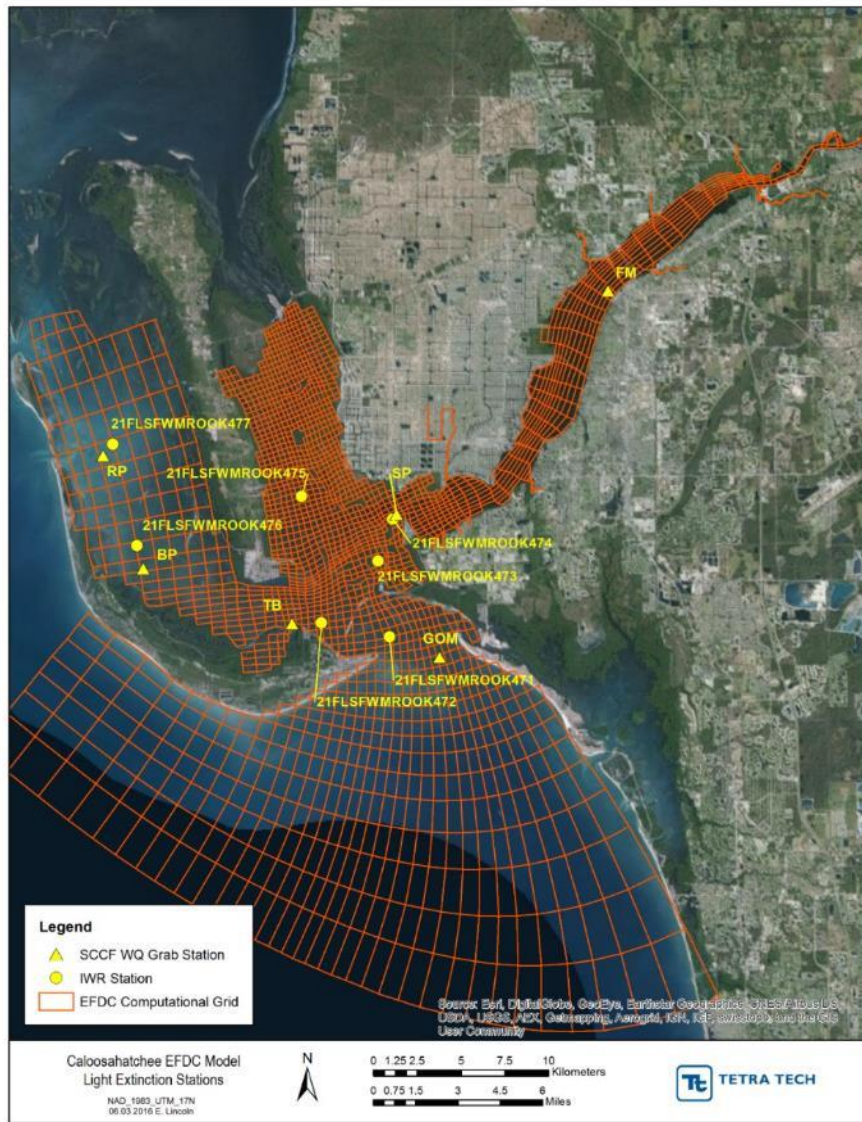


Hydrologic Simulation Program – FORTRAN (HSPF)





Environmental Fluid Dynamics Code (EFDC)





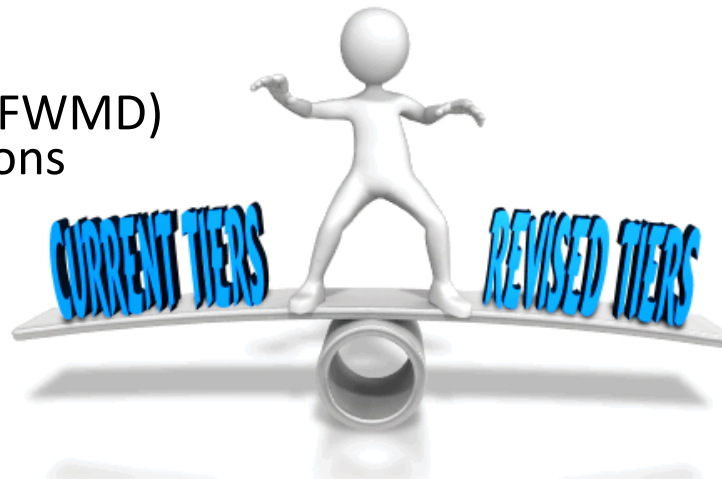
3.3 Water Quality Monitoring

Current Tier System

- Tier 1
 - Essential/mandatory for tracking WQ trends and pollutant reductions
- Tier 2
 - Help to understand the total load
- Tier 3
 - Non-stakeholder sampling station
- Tier 4
 - Florida (DEP/SFWMD) sampling stations

Draft Revised Tier System

- Tier 1
 - Essential/mandatory stations to track BMAP progress
- Tier 2
 - Regional/secondary analyses
- Tier 3
 - Other purposes designated by USGS/SCCF



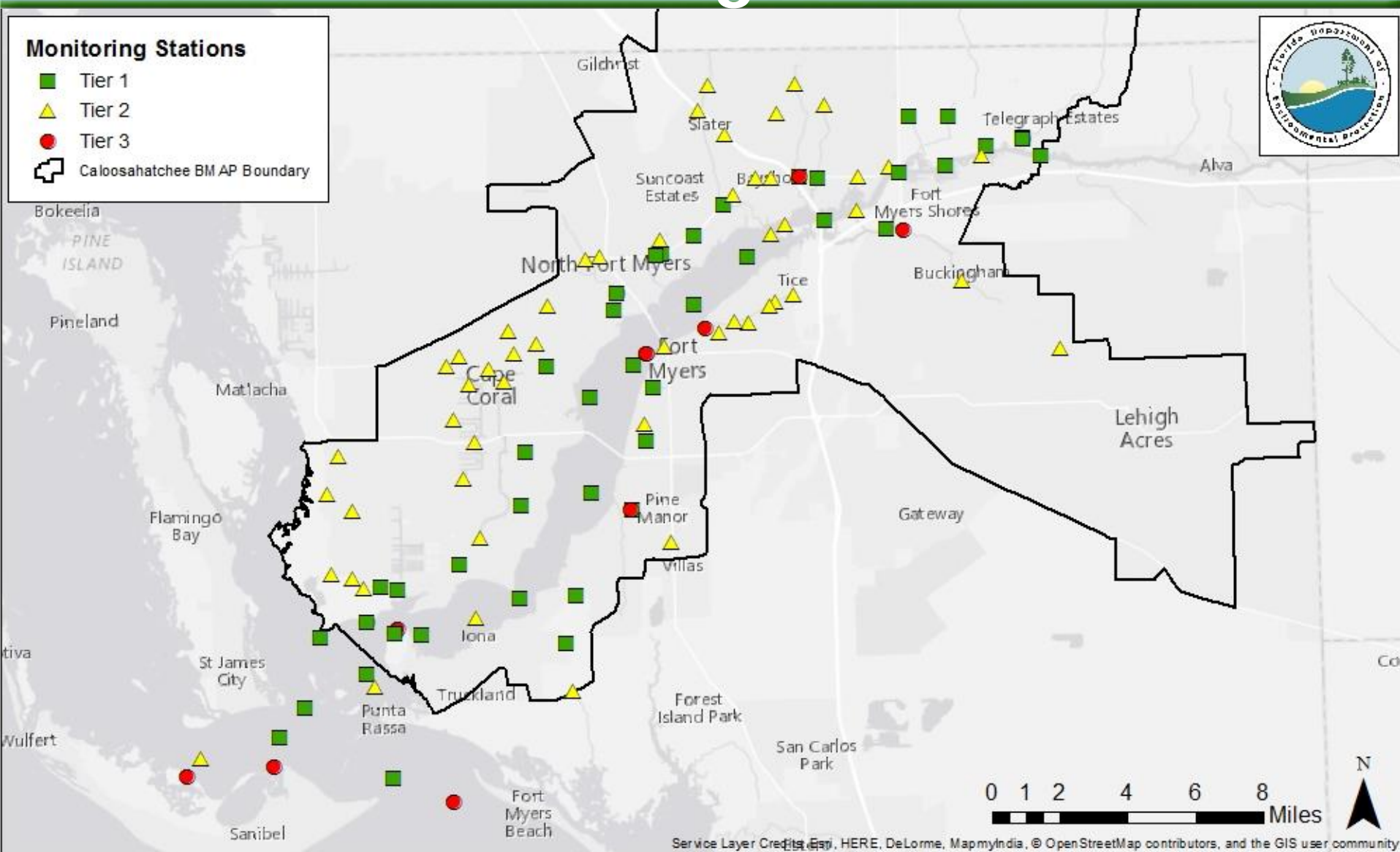


Draft Revised BMAP Monitoring Network



Monitoring Stations

- Tier 1
- Tier 2
- Tier 3
- Caloosahatchee BMAP Boundary



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Monitoring Data

Watershed Information Network (WIN) is here!

- WIN is the replacement for Florida STORET
- WIN data must meet Minimum Data Quality Standards (MDQS)
- WIN is open for data uploads!
 - Verify station information
 - Test results upload with small dataset





Monitoring Data

Through **December 2017:**

- Upload data collected prior to July 1, 2017
- Upload existing data that do not meet WIN MDQS
- Corrections for data already in Florida STORET

After **December 2017:**

- All data will need to come to WIN!



Monitoring Data

We need to work together to get all pertinent data uploaded for use in future analyses.

More information at:

<http://publicfiles.dep.state.fl.us/DEAR/storet/WIN> Communication

Denise Miller - Denise.Miller@dep.state.fl.us - 850-245-8516

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WIN/STORET Coordinators:

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Next Steps

- Compile draft report
 - Include stakeholder information
- Complete WIN/STORET database uploads
- Conduct water quality evaluation
- Public meeting October 2017
 - Stakeholder comments on draft report
- BMAP 5-Year Review submitted November 2017



Contact Information

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Questions & Comments