



2023 5-Year Review

**of the St. Lucie River and Estuary
Basin Management Action Plan**



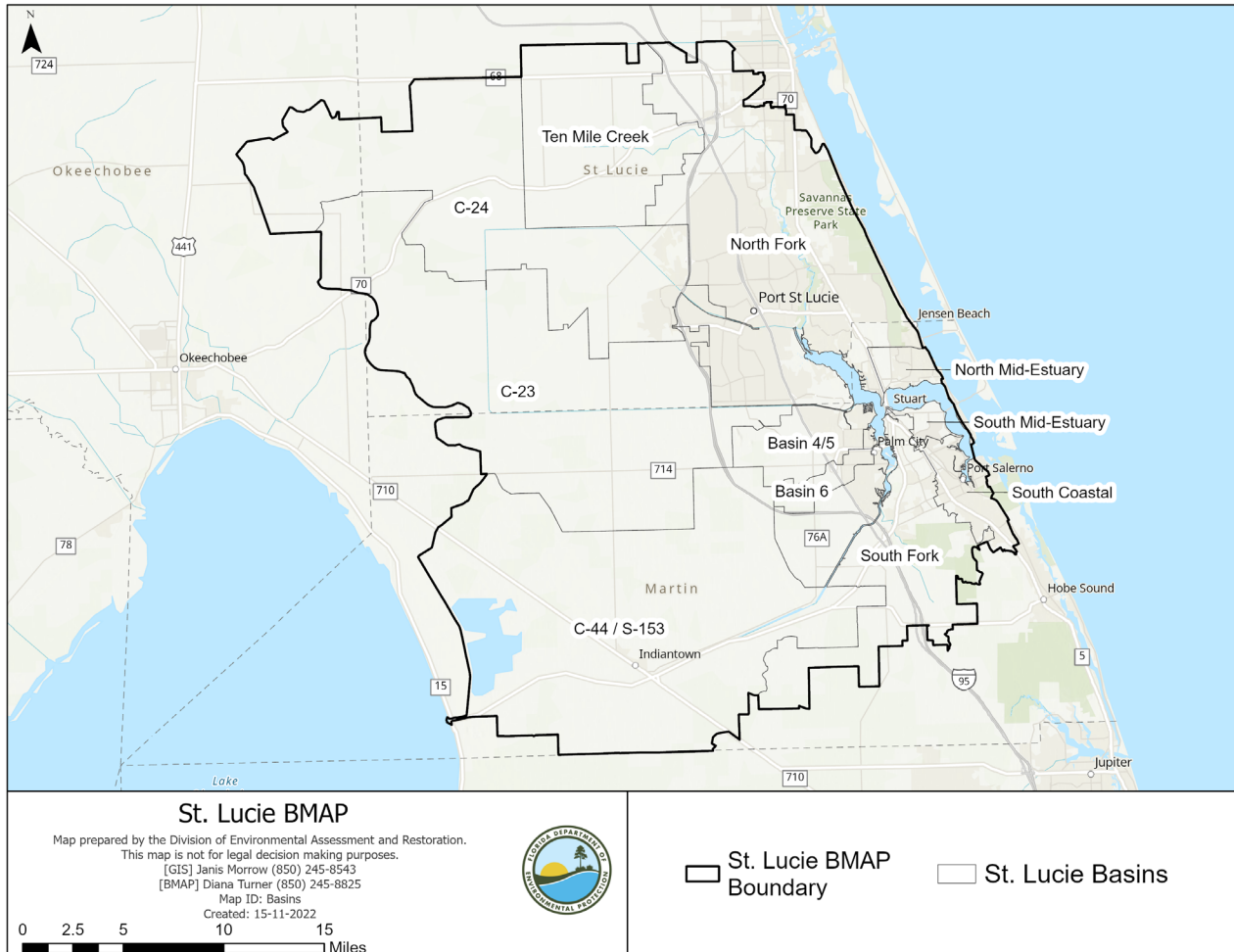
MEETING AGENDA

Presentation Agenda

- Introduction
- Project Progress
- Trend Analysis
- Targeted Restoration Area (TRA) Analysis
- Recommendations



BACKGROUND



St. Lucie BMAP

Total nitrogen (TN) and total phosphorus (TP) total maximum daily loads (TMDLs) are concentrations established in 2009.

- TP: 0.081 milligrams per liter (mg/L).
- TN: 0.72 mg/L.

BMAP established in 2013, BMAP was updated in 2020.



STAKEHOLDERS

ST. LUCIE BMAP

- Regional/State Agencies

- Florida Department of Agriculture and Consumer Services (FDACS)
- Florida Department of Transportation (FDOT) District 1
- FDOT District 4
- Florida Turnpike Enterprise
- South Florida Water Management District (SFWMD)

- Local Governments

- Martin County
- Okeechobee County
- St. Lucie County
- City of Fort Pierce
- City of Port St. Lucie
- City of Stuart
- Town of Sewall's Point

- Special Districts

- Hobe St. Lucie Conservancy District
- North St. Lucie River Water Control District
- Pal Mar Water Control District
- Troup-Indiantown Water Control District

- Community Development Districts (CDDs)

- Copper Creek
- Creekside
- Portofino Isles
- River Place
- St. Lucie West Services District
- Tesoro
- Tradition
- Veranda
- Verano
- Villa Vizcaya



STAKEHOLDERS REQUIRED REDUCTIONS

Entity	TN Required Reductions (lbs/yr)	TP Required Reductions (lbs/yr)
Agriculture	884,700	284,285
City of Port St. Lucie	140,239	44,812
Martin County	78,831	32,537
St. Lucie County	67,679	21,398
City of Fort Pierce	16,205	5,266
FDOT District 4	15,907	4,801
St. Lucie West Service District	13,469	4,545
Tradition CDD	8,396	1,815
Okeechobee County	7,950	1,966
City of Stuart	6,003	2,700
Turnpike	4,163	1,402
Tesoro CDD*	2,585	829
Copper Creek CDD*	1,500	306
Portofino Isles CDD*	1,271	285
Verano CDD*	1,030	260
FDOT District 1*	594	218
Creekside CDD*	475	175
Town of Sewall's Point*	417	174
River Place CDD*	389	127
Veranda CDD*	186	41
Villa Vizcaya CDD*	119	39
Total	1,252,107	407,980

*Currently considered low contribution in BMAP.



2023 5-YEAR REVIEW

ST. LUCIE BMAP

The Northern Everglades and Estuaries Protection Plan BMAPs (St. Lucie, Caloosahatchee, and Lake Okeechobee) are required to provide a review every five years on the progress the BMAP is making (373.4595(4)(d), Florida Statutes).





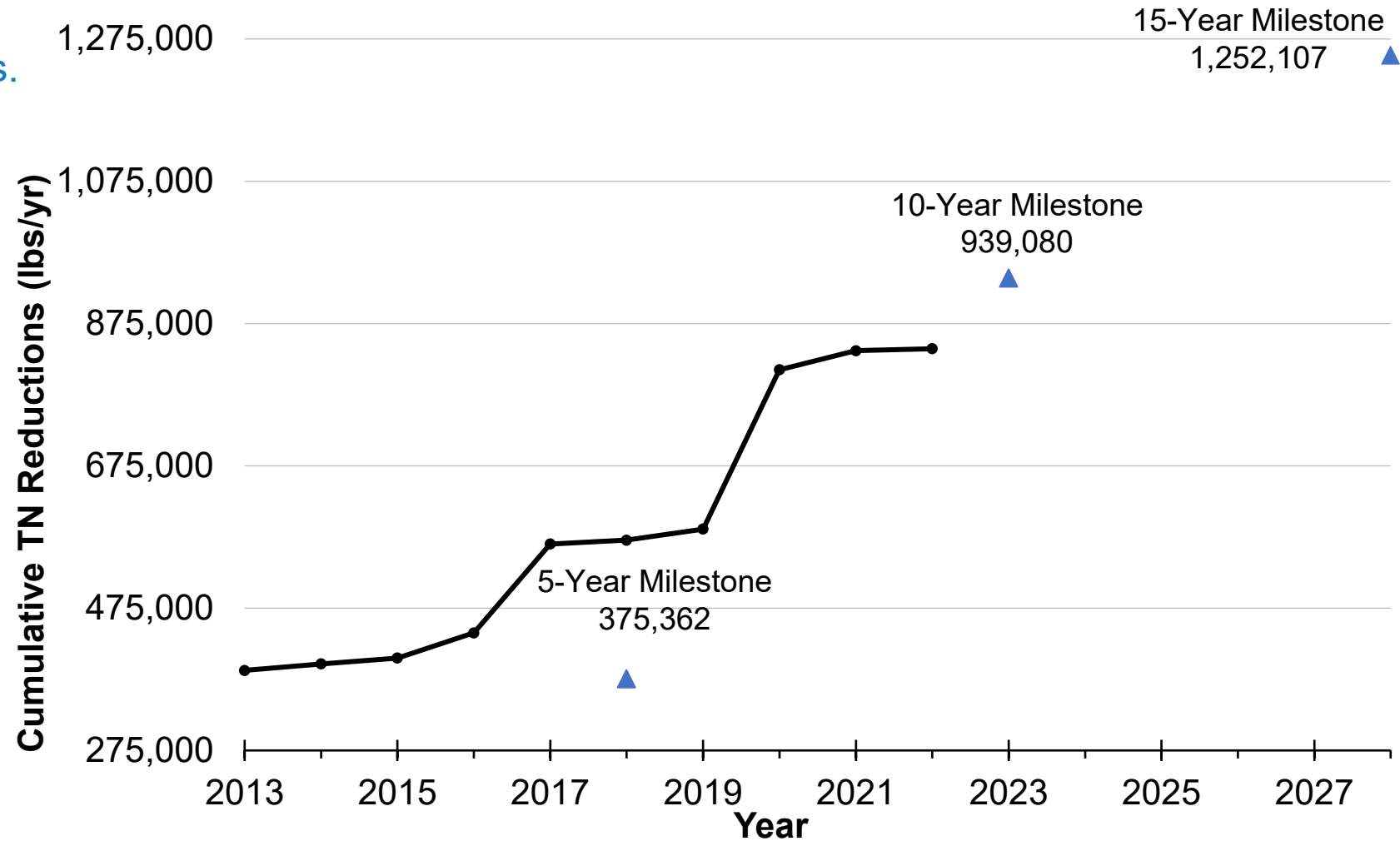
PROGRESS

Entity	Completed	Ongoing	Planned	Underway	Grand Total
City of Fort Pierce	9	4	0	0	13
City of Port St. Lucie	25	4	0	4	33
City of Stuart	20	3	0	1	24
FDACS	12	8	0	0	20
FDOT District 4	59	2	0	2	63
Fort Pierce Utilities Authority	0	0	1	5	6
Hobe St. Lucie Conservancy District	1	0	1	0	2
Martin County	39	3	1	4	47
North St. Lucie River WCD	10	0	0	1	11
SFWMD – Coordinating Agency	9	0	1	1	11
St. Lucie County	9	9	2	2	22
St. Lucie West Services District	2	3	0	0	5
Town of Sewall's Point	29	2	3	5	39
Troup-Indiantown WCD	2	0	0	2	4
Turnpike Enterprise	3	2	0	0	5
Grand Total	229	40	9	27	305



PROGRESS

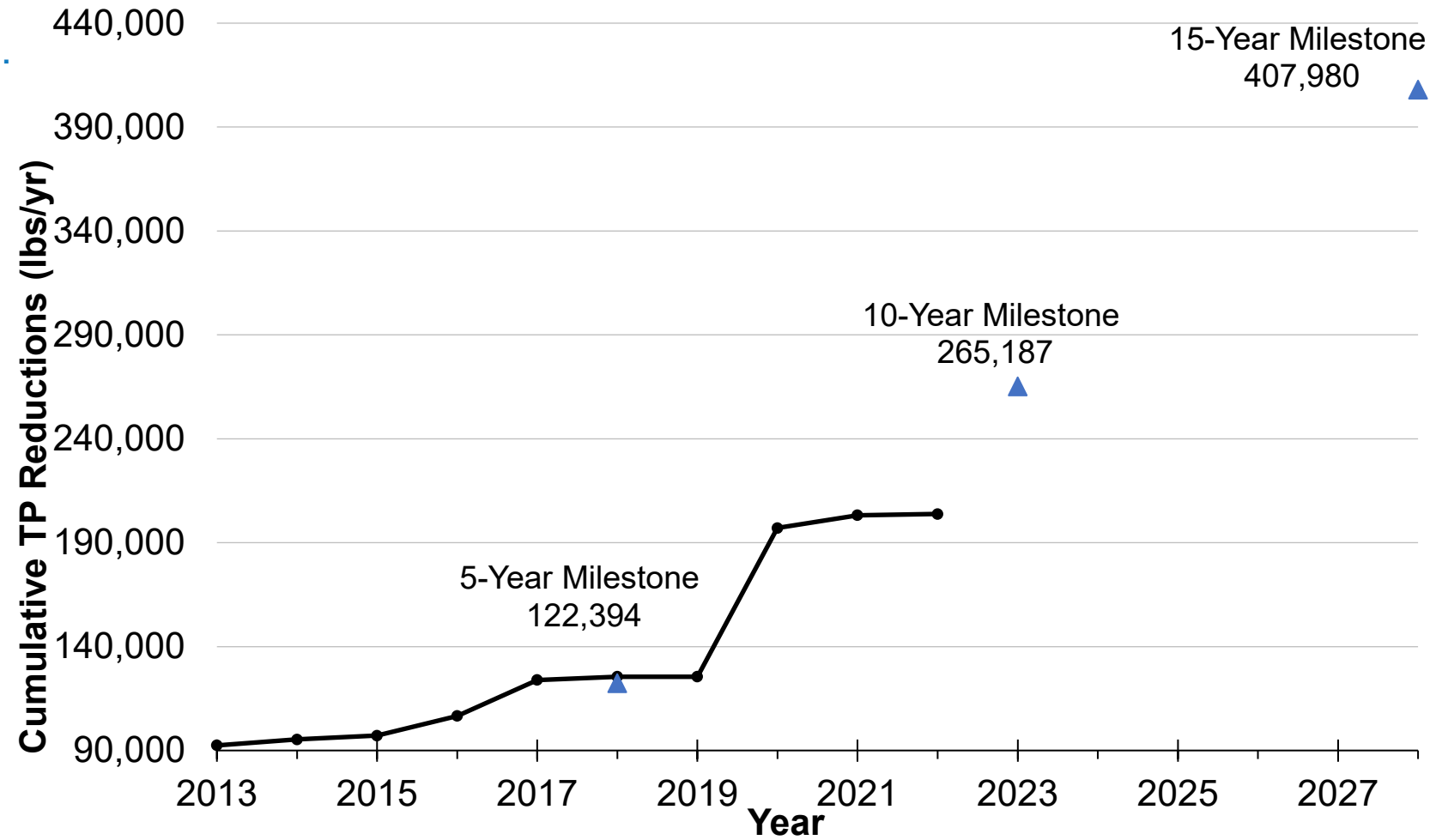
*Completed and
Ongoing Projects.





PROGRESS

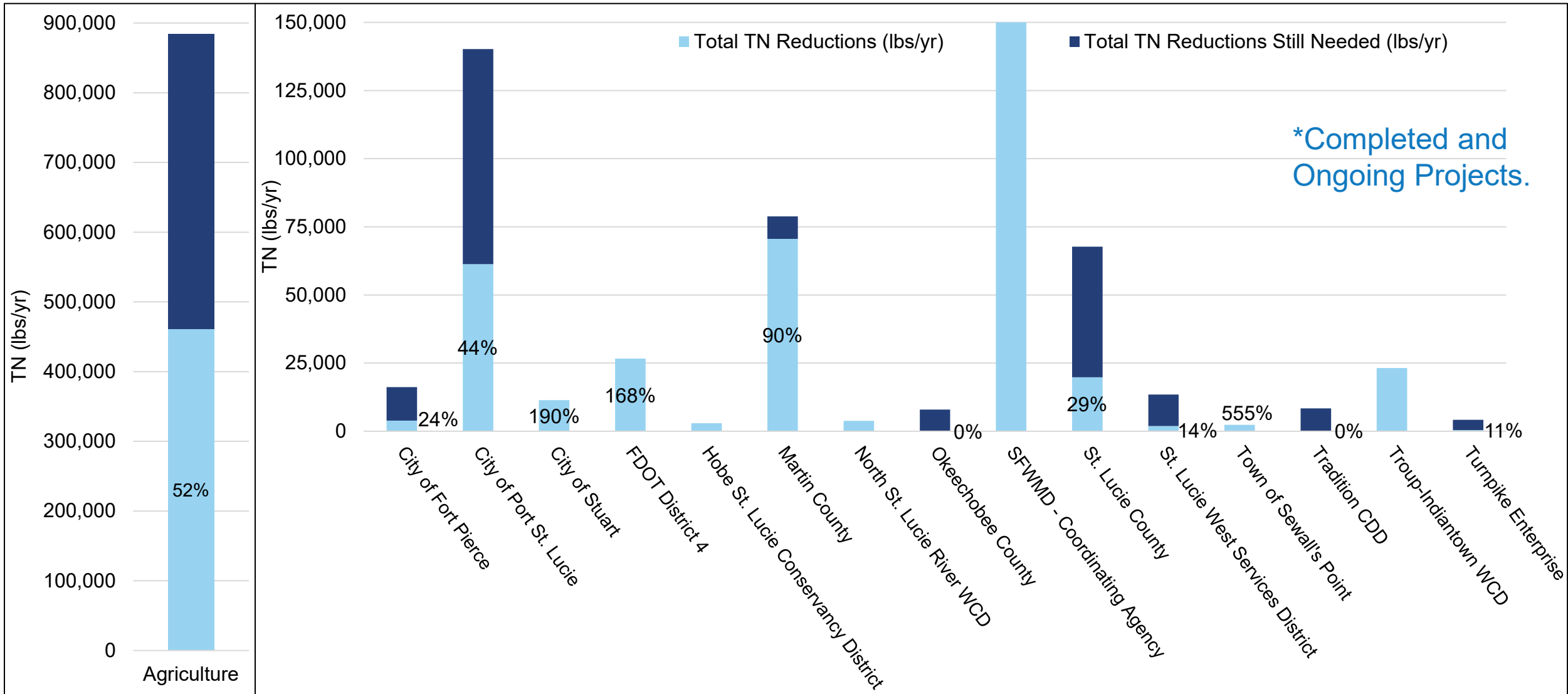
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PROGRESS

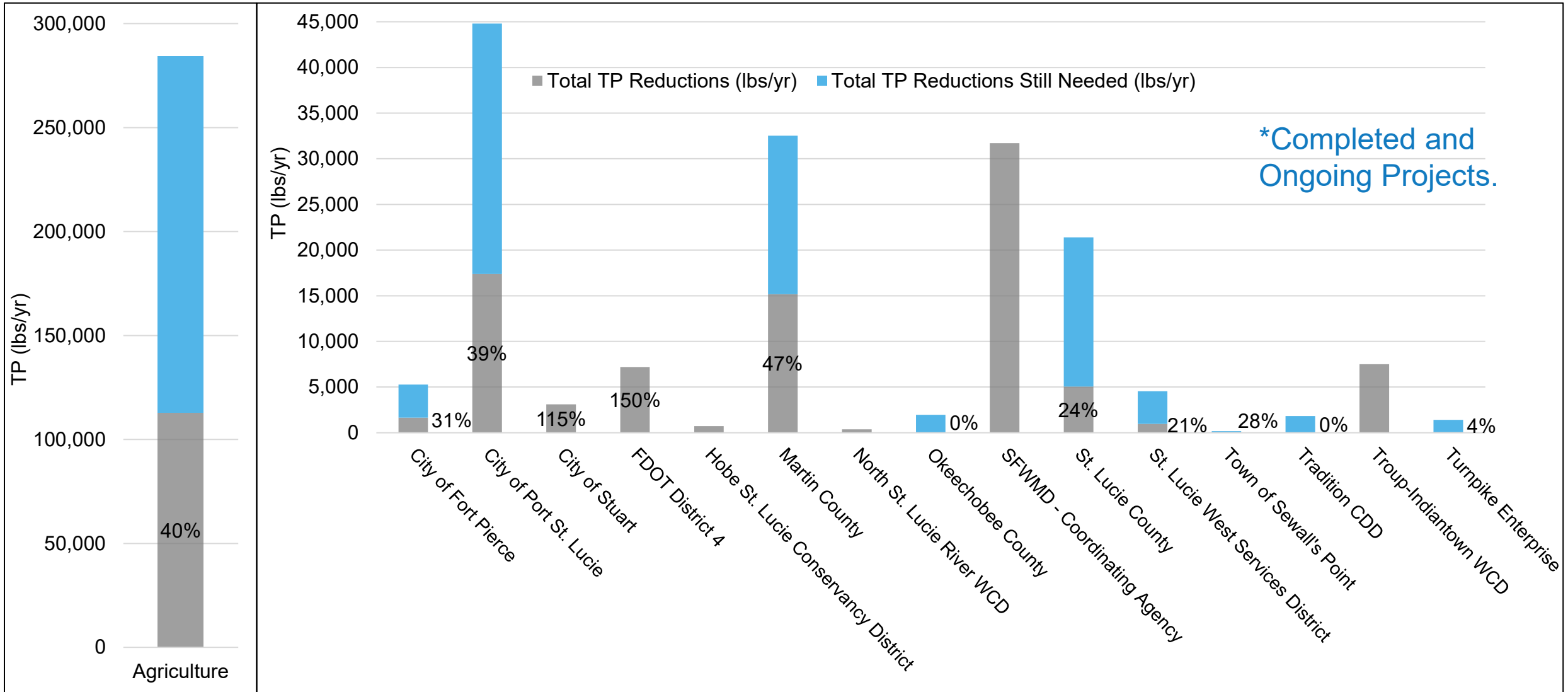
STATUS OF TN REDUCTION BY STAKEHOLDER PROJECTS





PROGRESS

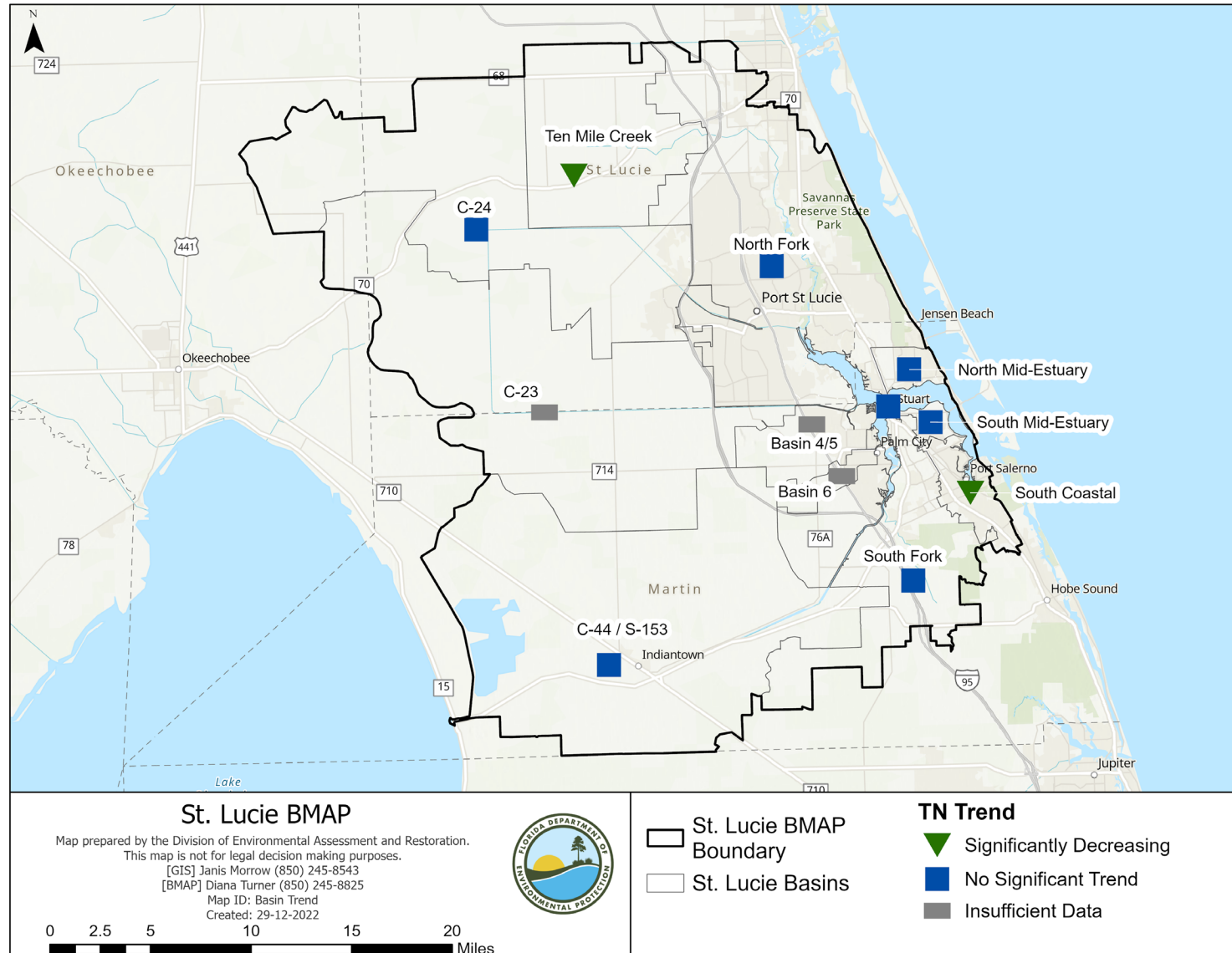
STATUS OF TP REDUCTION BY STAKEHOLDER PROJECTS

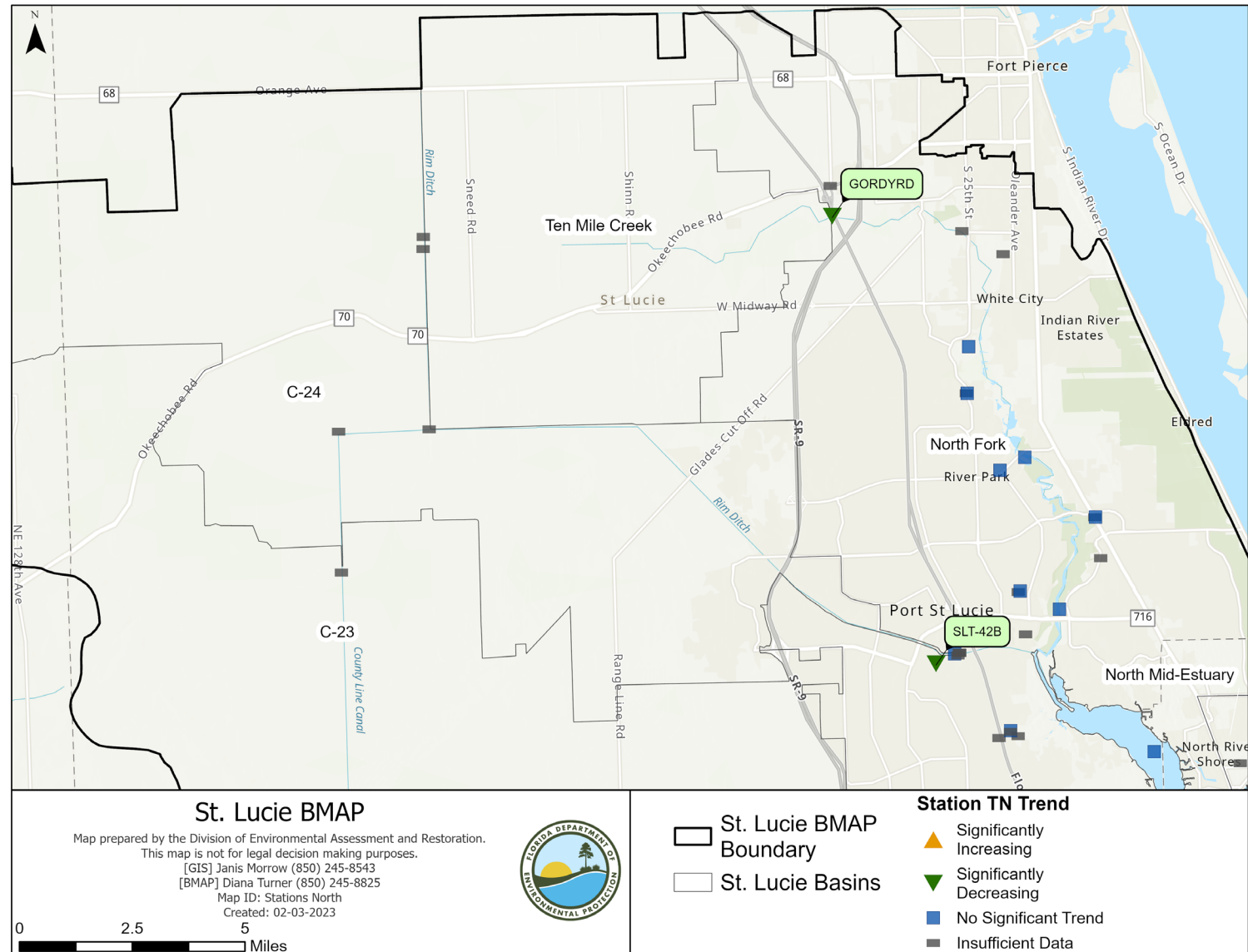




PROGRESS

TN TREND ANALYSIS BY BASIN

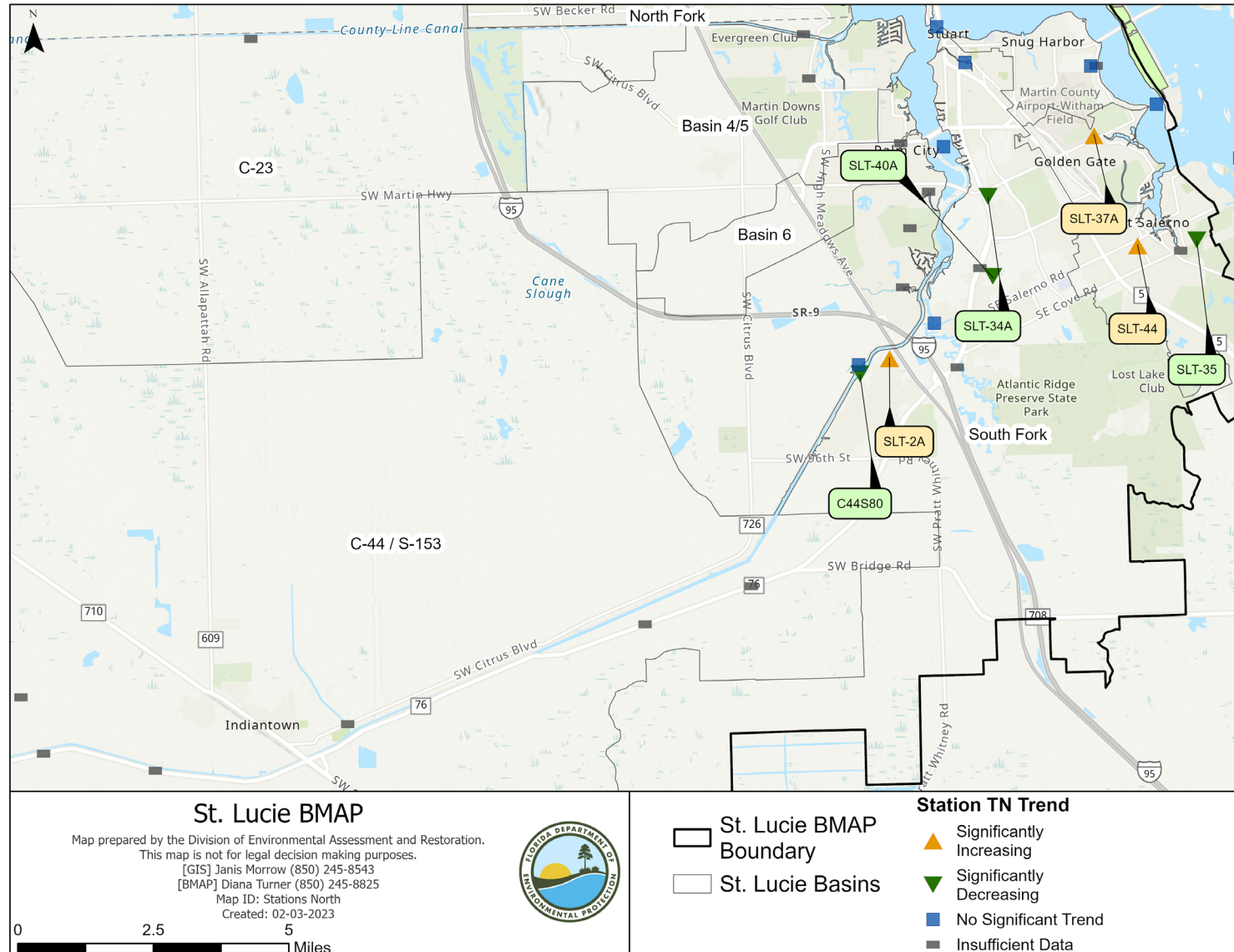






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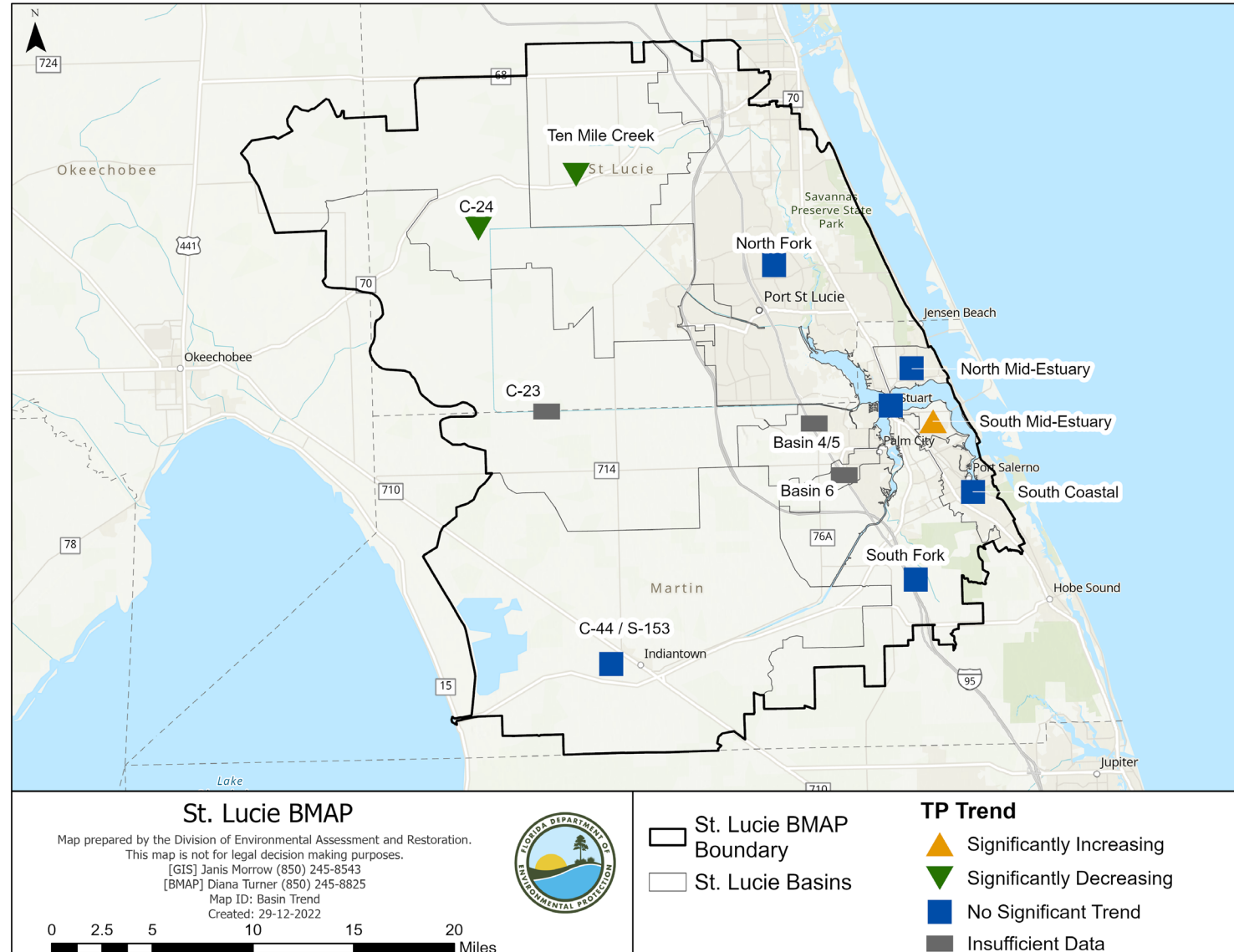
TN TREND ANALYSIS BY STATION





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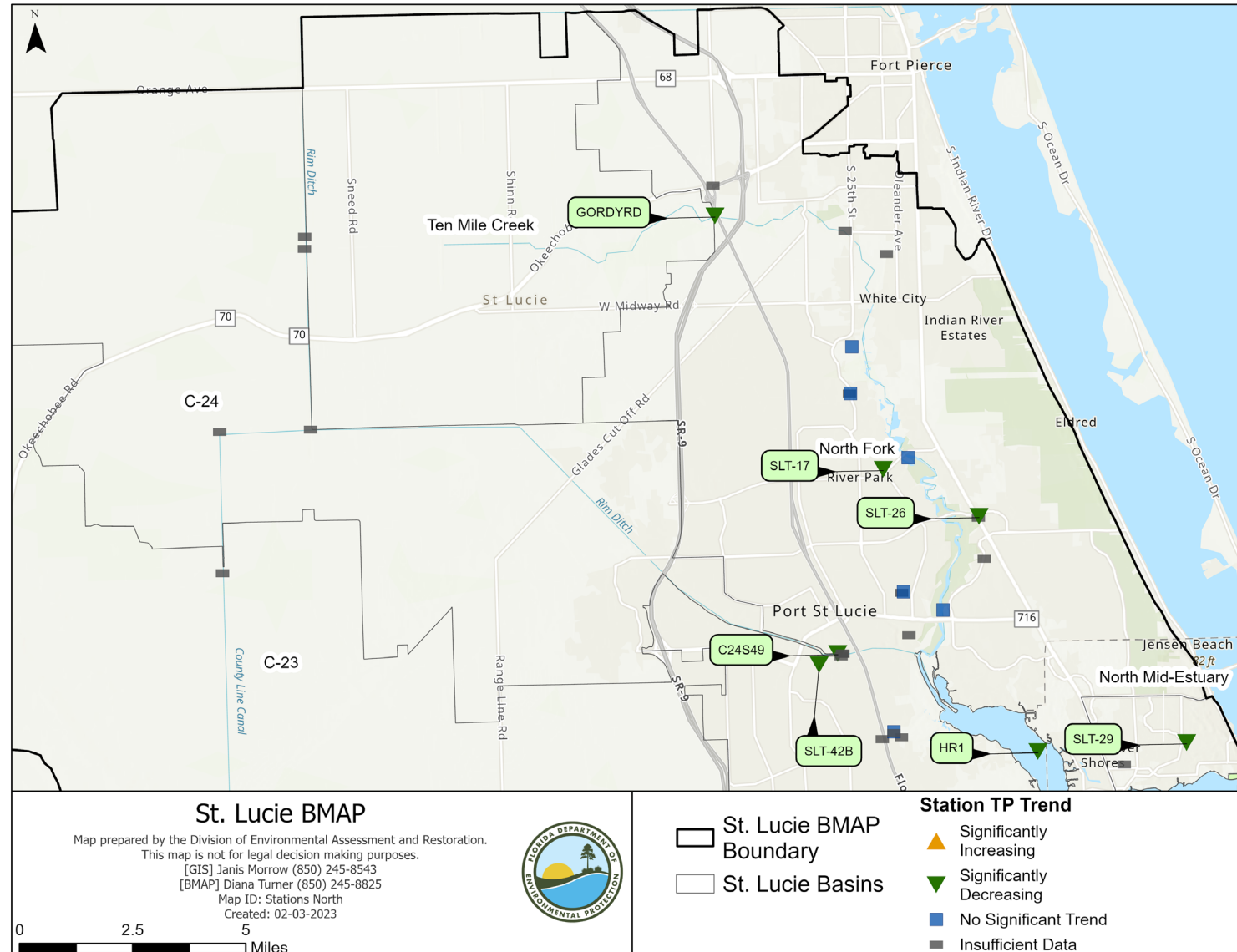
TP TREND ANALYSIS BY BASIN





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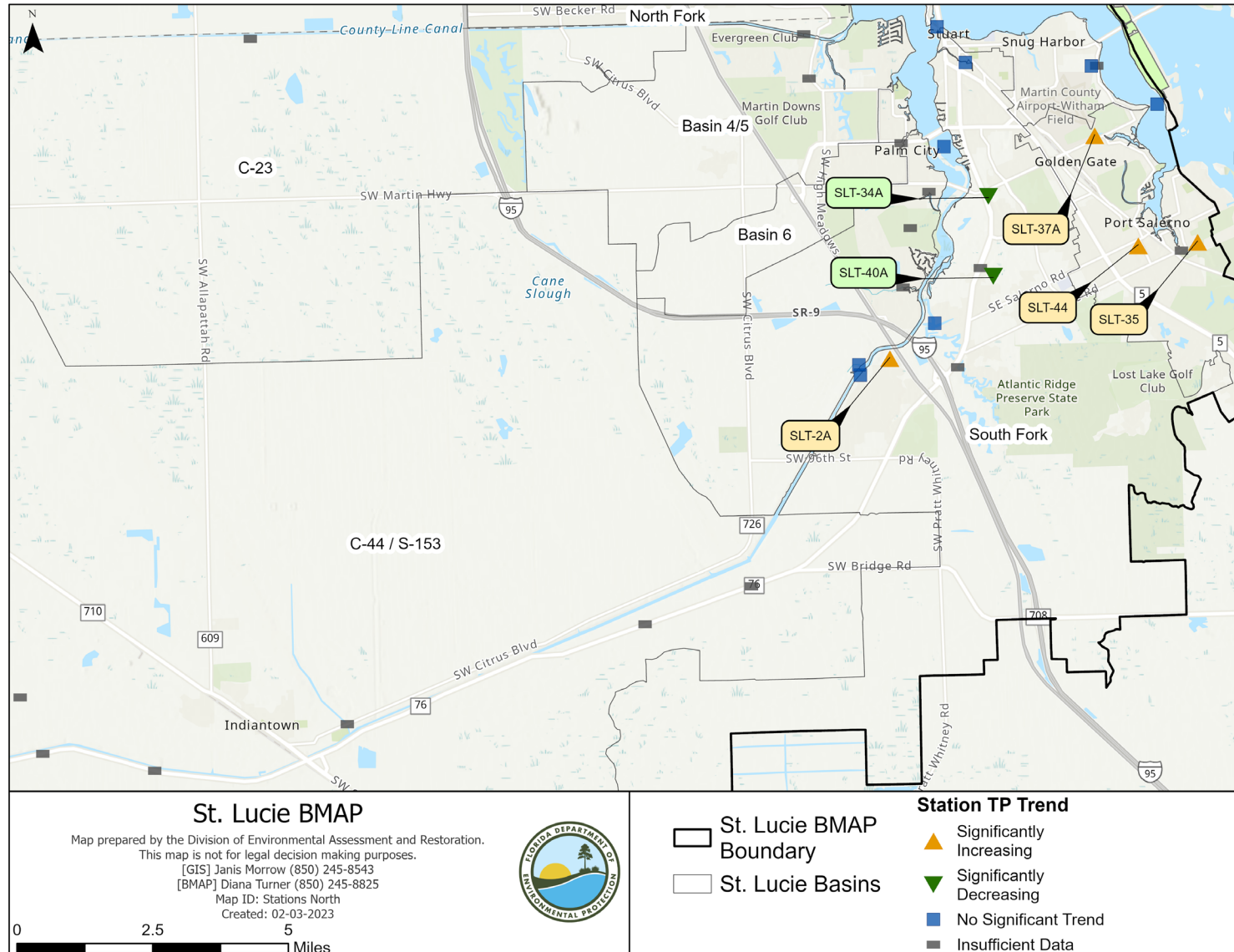
TP TREND ANALYSIS BY STATION





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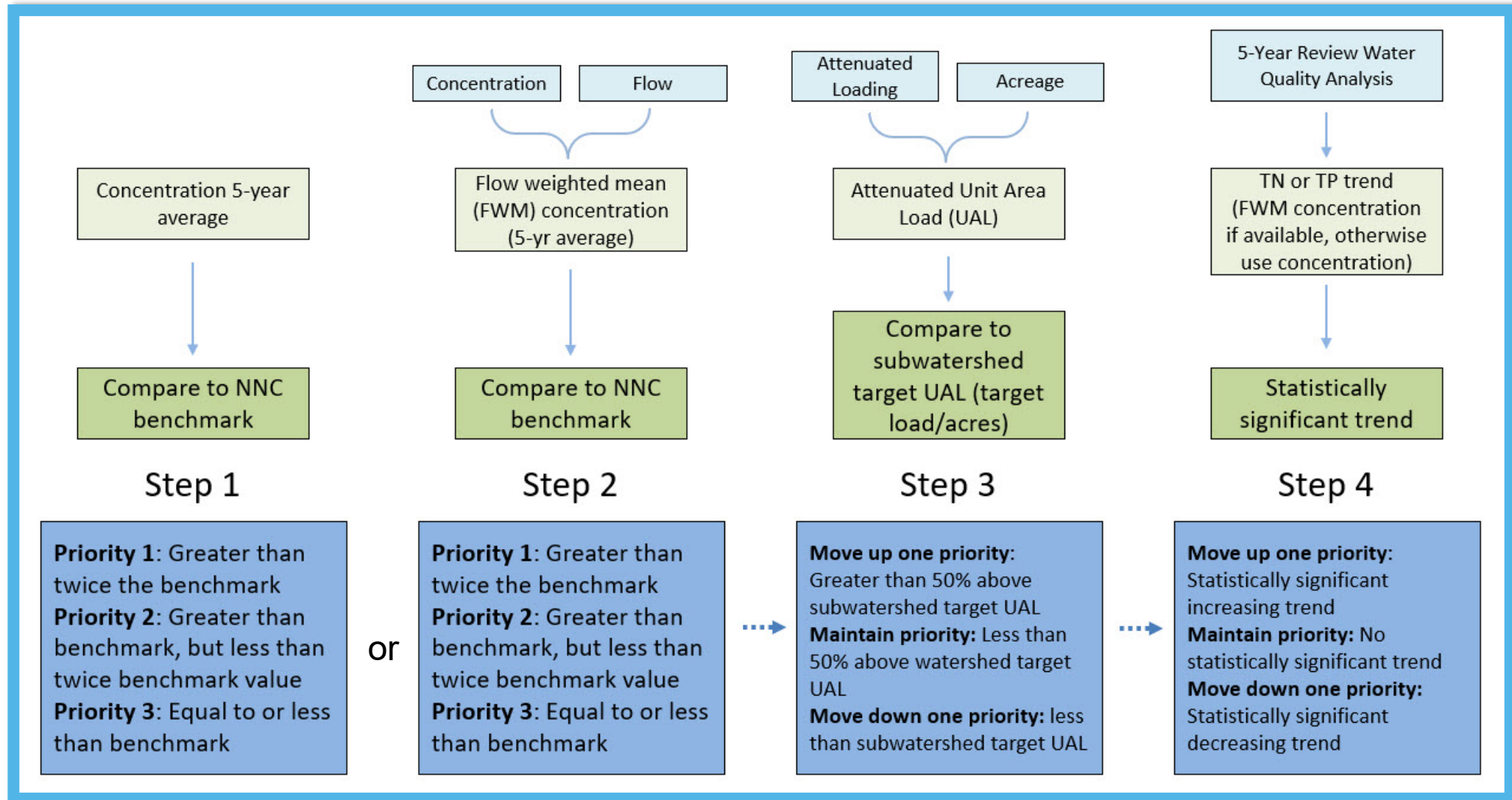
TP TREND ANALYSIS BY STATION





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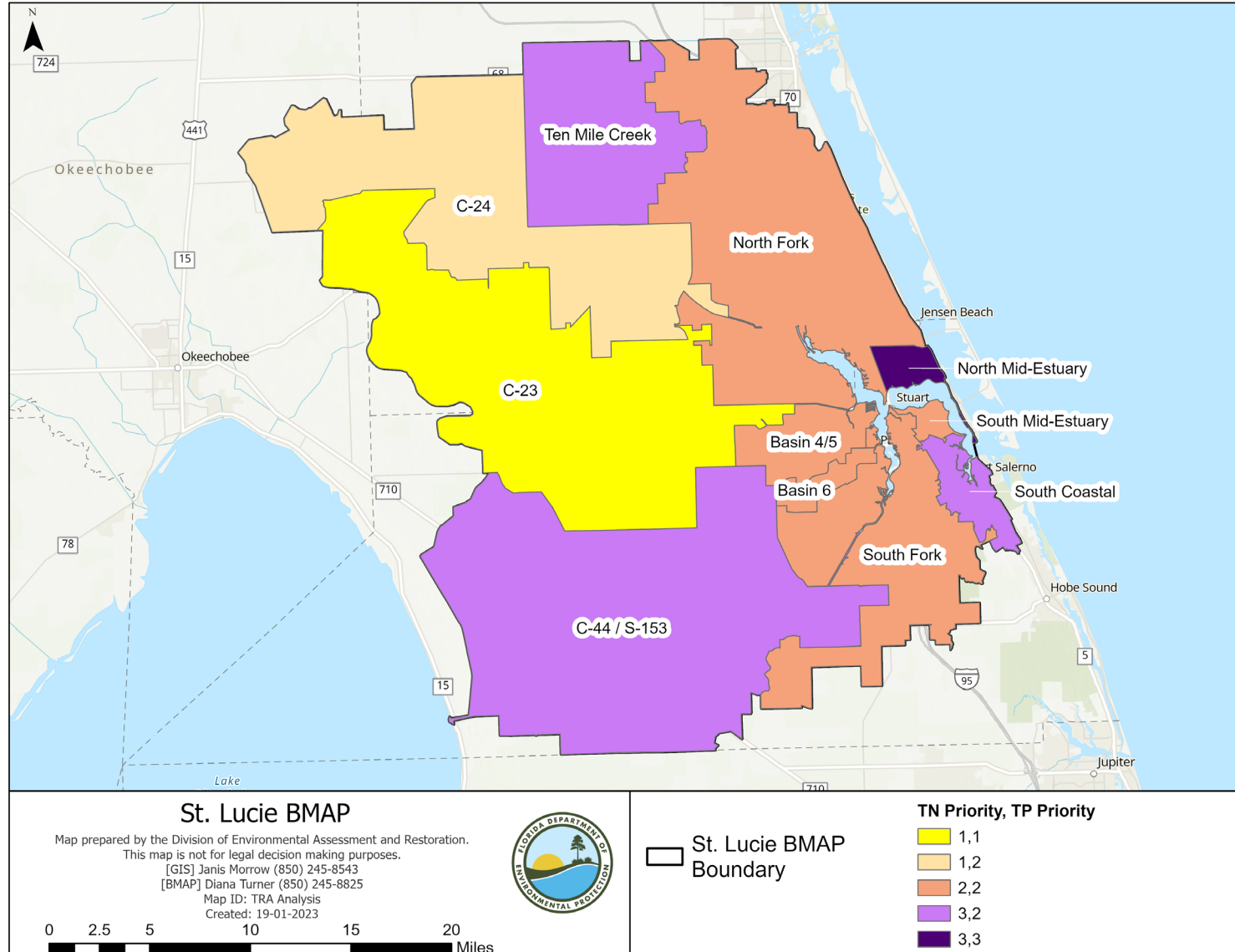
TARGETED RESTORATION AREA (TRA) ANALYSIS





PROGRESS

TARGETED RESTORATION AREA (TRA) ANALYSIS





2023 5-YEAR REVIEW

RECOMMENDATIONS



- Evaluation of current TN and TP milestones.
 - Extend expected completion of BMAP to 2033.
- Suggested changes to onsite sewage treatment and disposal system (OSTDS) implementation and remediation.
- Suggestions for any needed water quality monitoring network updates.



CLEAN WATERWAYS ACT REQUIREMENTS

FOR NUTRIENT BMAPs

Wastewater Treatment Plans

- Inventory of wastewater treatment facilities (WWTFs) within jurisdiction of local governments.
- Summary of each facility's current status, which may include:
 - Permitted capacity,
 - Average discharge,
 - Permitted nutrient limits,
 - Average nutrient concentration, and
 - Estimated average nutrient load.
- Summary of capacity analysis for each facility:
 - Including plans for future growth.
- Ranking or list of facility upgrades needed to meet requirements.
- Timelines/milestones for all projects.
- Funding estimates for all projects.

OSTDS Remediation Plans

- Inventory of OSTDS within jurisdiction of local governments.
- Plan to address OSTDS in the future:
 - Areas for sewerage and/or enhancements and prioritization of those areas.
 - Summary of capacity analysis for wastewater facilities that would accept newly sewerage areas.
 - Timelines/milestones for projects.
 - Funding estimates for all projects.
 - Future growth considerations.

**Update to BMAP adopted by
July 1, 2025.**



2023 5-YEAR REVIEW

PUBLIC COMMENT AND QUESTIONS



- Draft report is available on the FTP (link below)
- Please send public comments to Nicole.Morgan@FloridaDEP.gov by May 19.
- Recording and questions with answers will be provided with meeting materials on the FTP.
- [publicfiles.dep.state.fl.us - /DEAR/BMAP/StLucie/Meetings/2023/05_05_5_Year_Review/](https://publicfiles.dep.state.fl.us/-/DEAR/BMAP/StLucie/Meetings/2023/05_05_5_Year_Review/)



THANK YOU

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and Restoration

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