



Lakes Harney and Monroe Basin Management Action Plan (BMAP) 2020 Progress Report

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Florida Department of Environmental Protection (DEP)
Division of Environmental Assessment and Restoration

April 28, 2021



Agenda

Lakes Harney and Monroe Basin

- *DEP Updates*
 - Senate Bill 712 Requirements
 - BMAP Annual Progress Updates
 - Assessment Updates
 - Looking into the Future
- *St. Johns River Water Management District (SJRWMD) Updates*
 - Projects
 - Water Quality
- *Agriculture Updates*
- *Local Government Updates*
 - Project Updates
 - Monitoring
- *Next Steps*

Agenda

- 1.
- 2.
- 3.





Senate Bill 712

The Clean Waterways Act

Requirements



Senate Bill (SB) 712

Clean Waterways Act

- Legislation passed/signed in 2020
- Addresses multiple areas covered in BMAPs (e.g., agriculture, wastewater, funding)
- Focus on surface water BMAPs
- Similar language to requirements outlined in the Florida Springs and Aquifer Protection Act





SB 712

Clean Waterways Act

- Clean Waterways Act (SB 712), items of interest:
 - Onsite sewage treatment and disposal systems (OSTDS) fast track approval process
 - Reporting requirement/wastewater projects – including costs
 - OSTDS program transfer
 - OSTDS location rules
 - Utility maintenance plans/rulemaking requirements





SB 712

Clean Waterways Act

- Clean Waterways Act (SB 712), other areas/sectors:
 - Agriculture
 - Increased reporting
 - Requirement for implementation
 - Development of regional projects
 - Water quality monitoring (DEP)
 - Stormwater rule updates (DEP)





Statewide Annual Report

- BMAP project information is presented to the Governor and Legislature through this report
- Latest reporting period includes updates through December 2020
- Accessible [here](#)

Florida Statewide Annual Report

Published June 30, 2020

Introduction Total Maximum Daily Loads Basin Management Action Plans Minimum Flows and Minimum Water Levels Recovery and Prevention Strategies Contacts and Data

Troubleshooting

Basin Management Action Plans

A basin management action plan (BMAP) is a framework for water quality restoration that contains local and state commitments to reduce pollutant loading through current and future projects and strategies. BMAPs contain a comprehensive set of solutions, such as permit limits on wastewater facilities, urban and agricultural best management practices, and conservation programs designed to achieve pollutant reductions established by a total maximum daily load (TMDL). These broad-based plans are developed with local stakeholders and rely on local input and commitment for development and successful implementation. BMAPs are adopted by Florida Department of Environmental Protection (DEP) Secretarial Order and are legally enforceable.

Navigation

Select any of the following sections for additional information about BMAPs. Clicking on the dots in the column to the left of the page links you to these same sections and clicking on the home icon returns you to the top of this page.

- [Northern Everglades and Estuaries Protection Program BMAPs.](#)
- [Outstanding Florida Springs \(OFS\) BMAPs.](#)
- [Additional Nutrient BMAPs.](#)
- [Fecal Indicator Bacteria BMAPs.](#)

How to Use This Report

The management actions listed in the BMAPs comprise local projects proposed and committed to by counties, municipalities, special districts, private industrial facilities, wastewater utilities, commercial agricultural operations, state agencies, and other stakeholders. In 2019, DEP contacted stakeholders in all BMAP areas to request information on the status of projects through December 31, 2019. The tables

LEGEND

Esri USGS I-DEP Esri HERE Garmin FAO NOAA USGS EPA NPS



BMAP Annual Progress

2020 Project Status

- New in 2020 = 5
- Completed in 2020 = 1
(73 total completed projects)
- Ongoing = 27
- Planned = 8
- Underway = 4





New Projects



- Stormwater
 - Structural projects
 - Baffle boxes (first and second generation)
 - Regional stormwater treatment
 - Wet detention pond
 - Education, outreach regulations, ordinances and other non-structural programs
 - Regulations, ordinances, and guidelines – fertilizer ordinance



BMAP Annual Progress

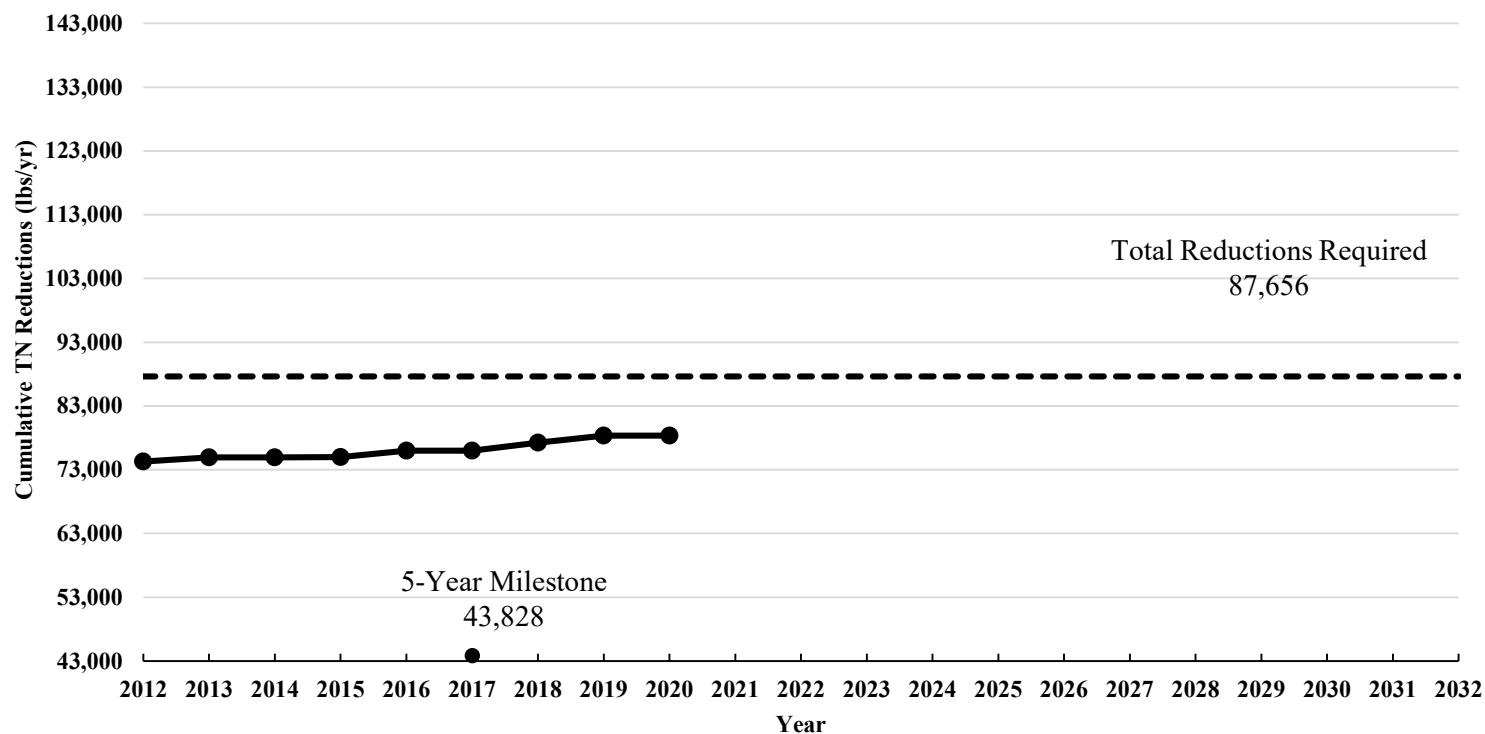
Project Types

Project Type	Count of Project Types
Agricultural BMPs	1
Baffle Boxes- Second Generation	4
Bioswales	2
BMP Cleanout	3
Catch Basin Inserts/Inlet Filter Cleanout	1
Dry Detention Pond	1
Education Efforts	11
Exfiltration Trench	2
Fertilizer Cessation	1
Land Use Change	1
Monitoring/Data Collection	1
Non-contributing Basin	6
On-line Retention BMPs	5
Regulations, Ordinances, and Guidelines	4
Stormwater Reuse	5
Street Sweeping	6
Wet Detention Pond	45
WWTF Nutrient Reduction	1
BMP Treatment Train	1
BMP Missing from Model	5
Grass swales without swale blocks or raised culverts	4
Baffle Boxes- First Generation	1
Regional Stormwater Treatment	1
Total	112



BMAP Annual Progress

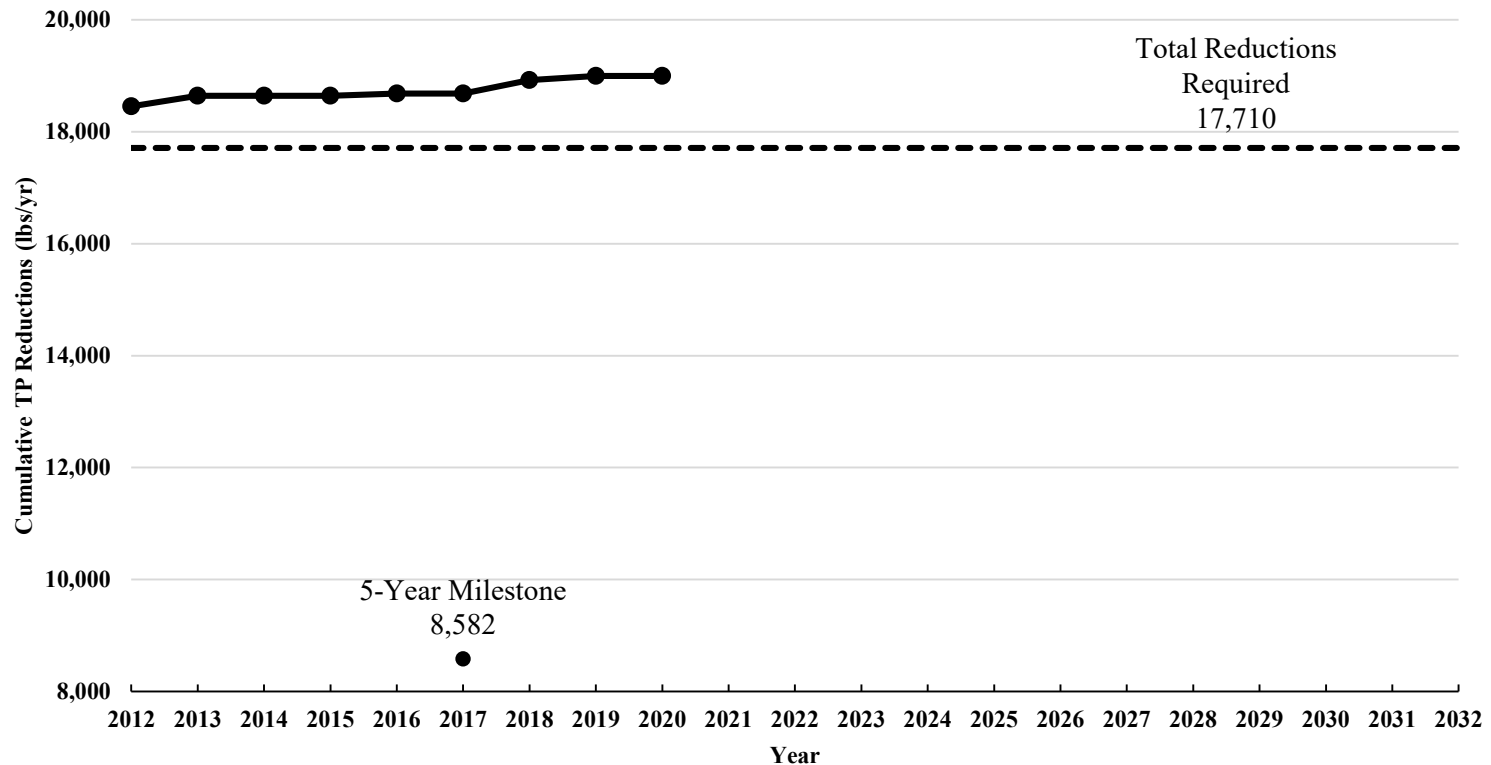
Total Nitrogen (TN) Load Reductions Achieved





BMAP Annual Progress

Total Phosphorus (TP) Load Reductions Achieved





Project Funding



- Information about DEP grant programs is available at <https://floridadep.gov/wra>
- Nonpoint Source funding programs:
 - Federal Clean Water Act Section 319(h) grants and State Water-quality Assistance grants
 - Submit proposal anytime during the year. Primary review for funding periods are September/October and March/April
 - Local and state governments (including water management district) and public universities are examples of local groups eligible for funding
 - Contact Emily Forinash for information at Emily.Forinash@FloridaDEP.gov



Project Funding

Examples of nonpoint source projects

- Demonstration and evaluation of best management practices (BMPs)
- Nonpoint pollution reduction in priority watersheds (e.g., areas with water quality restoration plans, etc.)
Example includes treatment of impaired waters
- Ground water protection from nonpoint sources
- Public education programs on nonpoint source management ("319 Grant" only)
- Septic to sewer projects ("319 Grant" only)
- Green infrastructure/low impact development for stormwater



Looking into the future

Restoration Options for the Upper St. Johns

- The approach could be a BMAP or other restoration approach
- The total maximum daily load (TMDL) group has been working on modeling
- Coordinating/collaborating with SJRWMD on modeling efforts

We know we need a restoration strategy, but don't know the details/format quite yet





Lakes Jesup BMAP 2020 Progress Report

Moira Homann

DEP, Division of Environmental Assessment and
Restoration

April 28, 2021



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Lake Jesup Basin

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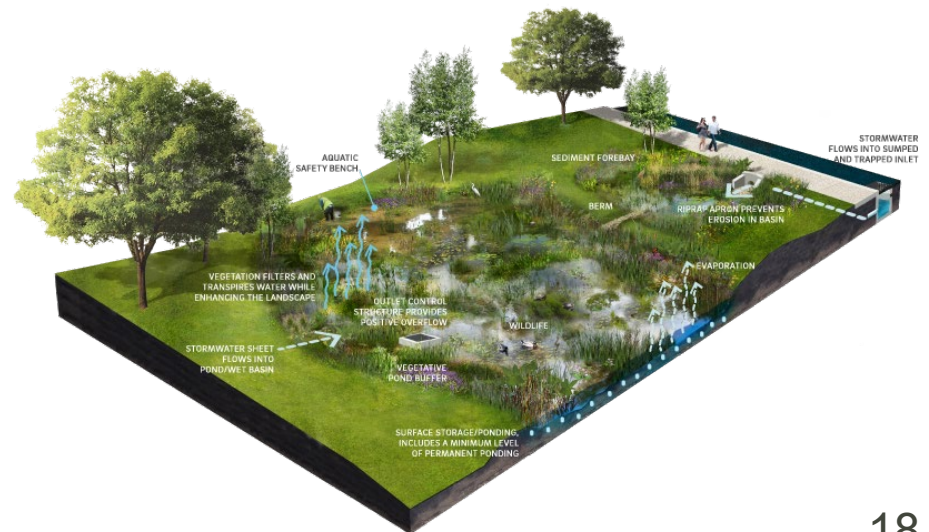




BMAP Annual Progress

2020 Project Status

- New in 2020 = 17
- Completed in 2020 = 1
(65 total completed projects)
- Ongoing = 54
- Planned = 22
- Underway = 31

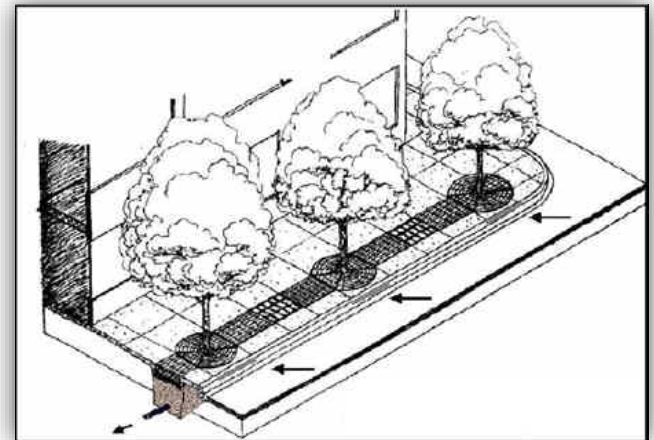




New Projects



- Stormwater
 - Structural projects
 - Baffle boxes (first and second generation)
 - Regional stormwater treatment
 - Wet/dry detention ponds
 - Stormwater system upgrades
 - Exfiltration trenches
 - On-line retention best management practices (BMPs)
 - Biosorption activated media (BAM)
 - Non-structural BMPs
 - Catch basin inserts/inlet filter cleanout
 - Education, outreach regulations, ordinances and other non-structural programs
 - Regulations, ordinances, and guidelines – fertilizer ordinance
- In waterbody
 - In waterbody - alum injection system
- Currently Ineligible for Nutrient Credit
 - Studies, research, assessments, planning efforts, enhanced education
 - Enhanced public education
 - Study (Groundwater vulnerability study)





BMAP Annual Progress

Project Types

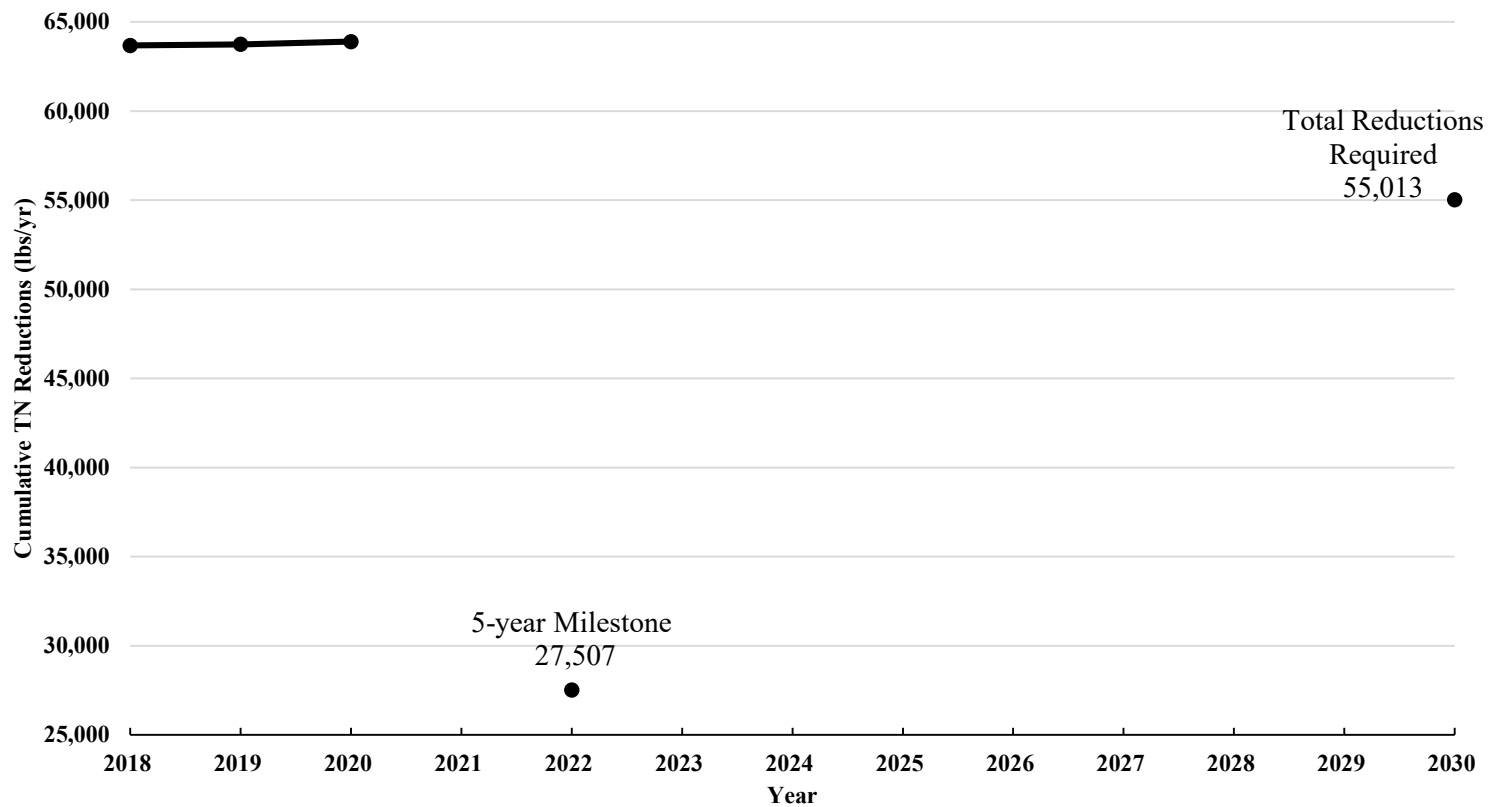
Project Type	Count of Project Types
100% On-site Retention	1
Agricultural BMPs	2
Aquatic Vegetation Harvesting	1
Baffle Boxes- Second Generation	8
Bioswales	3
BMP Cleanout	9
BMP Treatment Train	1
Catch Basin Inserts/Inlet Filter Cleanout	3
Control Structure	1
Dry Detention Pond	4
Education Efforts	15
Enhanced Public Education	3
Exfiltration Trench	4
Exotic Vegetation Removal	4
Grass swales without swale blocks or raised culverts	1
Hydrodynamic Separators	7
Hydrologic Restoration	2
Land Use Change	1
Muck Removal/Restoration Dredging	1
On-line Retention BMPs	2
OSTDS Phase Out	8
Regional Stormwater Treatment	1
Regulations, Ordinances, and Guidelines	4
Sanitary Sewer and Wastewater Treatment Facility (WWTF) Maintenance	1
Sanitary Sewer Inspections	3
Shoreline Stabilization	2
Stormwater System Rehabilitation	6
Street Sweeping	16
Study	7
Wet Detention Pond	13
WWTF Diversion to Reuse	1
WWTF Nutrient Reduction	1
WWTF Upgrade	3
Baffle Boxes- Second Generation with Media	2
BMP Missing from Model	15
In Waterbody - Alum Injection System	5
Stormwater - Alum Injection System	4
Stormwater System Upgrade	5
Retention/Detention BMP with Nutrient Reducing Media	1
Biosorption Activated Media (BAM)	1
Total	172





BMAP Annual Progress

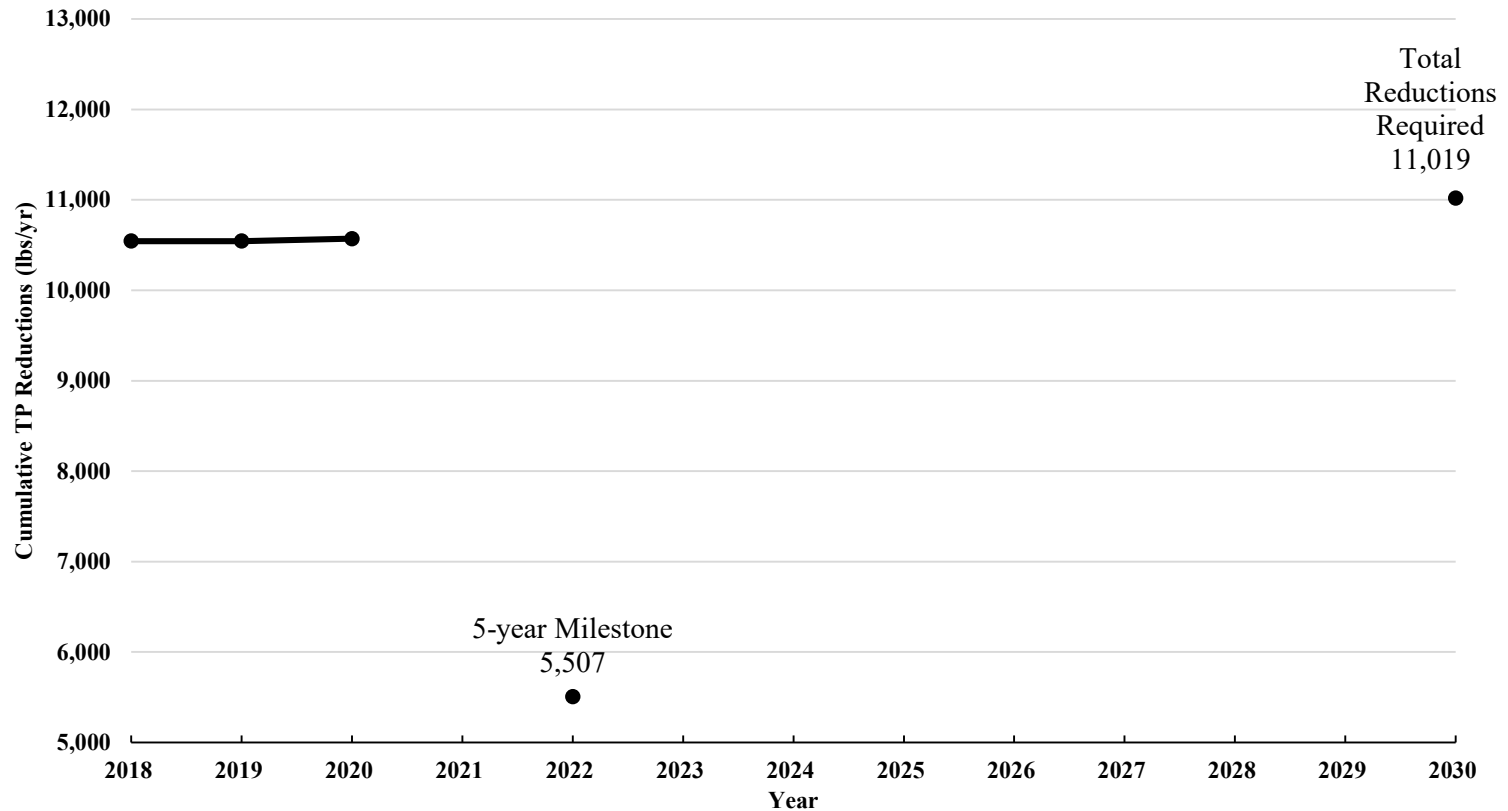
TN Load Reductions Achieved





BMAP Annual Progress

TP Load Reductions Achieved





Questions?

Contact information



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