

Florida Department of Environmental Protection



Lakes Harney and Monroe and Middle St. Johns River BMAP 2014 Progress Report

**Annual Meeting
October 16, 2014**





Annual Report Overview

- This is the second annual progress report on the Basin Management Action Plan (BMAP) activities
- Information was provided by the stakeholders on activities from September 1, 2013 through August 31, 2014
- The report includes updates on project implementation and water quality and biological monitoring



Background on the BMAP

- The Total Maximum Daily Loads (TMDLs) for the Lakes Harney and Monroe and the Middle St. Johns River (MSJR) Basin were adopted in December 2009 for Total Nitrogen (TN) and Total Phosphorus (TP)
- The TMDL for Smith Canal was adopted in September 2009 for TP
- The BMAP was adopted by the Florida Department of Environmental Protection Secretary in August 2012
- Detailed allocations were made to the responsible stakeholders to achieve 50% of the reductions over a 5-year period



Activities During the Reporting Period

- *City of Deltona*
 - Adopted new fertilizer and stormwater discharge ordinances
 - Green Industries (GI) - Best Management Practices (BMP) training
- *City of Sanford*
 - New baffle box installed on Sanford Avenue
 - Estimated reductions of 5.5 lbs/yr of TN and 0.7 lbs/yr of TP
- *Florida Department Of Transportation (FDOT)*
 - Continued construction activities for State Road (SR) 415 and SR 44
 - Projects will provide treatment for the expanded roadway, and the existing roadway where no treatment previously existed



Activities, continued

- *Seminole County*
 - Shoreline restoration efforts have successfully continued
 - Lake vegetative assessments continued on both Lake Monroe and Lake Harney
- *Florida Department of Agriculture and Consumer Services (FDACS)*
 - Has enrolled a total of 6,915.6 acres of agriculture in best management practices (BMPs) in the basin
 - Estimated reductions of 7,793.9 lbs/yr of TN and 1,485.1 lbs/yr of TP
- *St. Johns River Water Management District (SJRWMD)*
 - Initiated sampling of storm event flow and nutrient loads in the network of canals draining into Lake Ashby and draining the northeastern sub-basins of the Deep Creek Planning Unit



Ongoing Activities

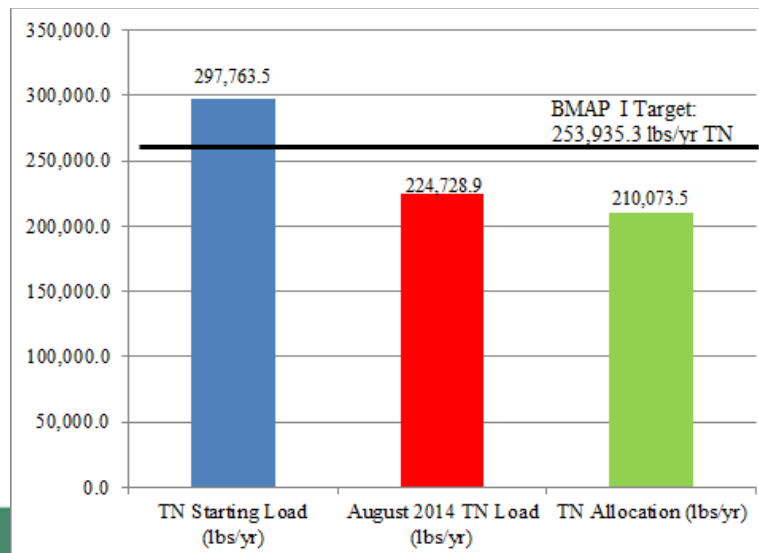
- Education and outreach
 - City of DeLand
 - City of Deltona
 - City of Lake Helen
 - City of Lake Mary
 - City of Orange City
 - City of Sanford
 - Seminole County
 - Volusia County
- Street sweeping*
 - City of Lake Mary
 - City of Sanford
 - FDOT
 - Seminole County
 - Turnpike Authority
 - Volusia County

* Street sweeping reductions in the first two years of BMAP implementation were reported based on the old FSA methodology. As of the next reporting period, all stakeholders with a street sweeping program will be required to calculate street sweeping reductions based on the updated methodology,



Progress to the TN TMDL

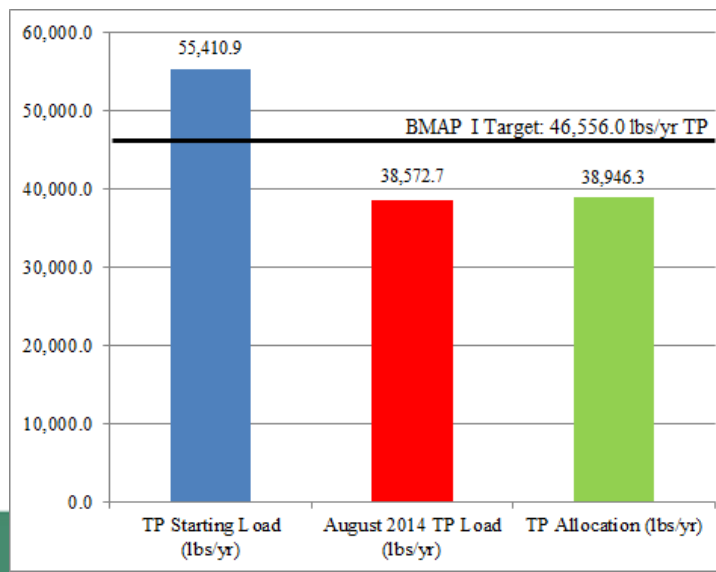
- Reductions
 - Required TN reduction for the first BMAP iteration: 43,828.2 lbs/yr
 - Reductions from projects completed during the second annual BMAP reporting period: 6,709.9 lbs/yr of TN
 - Total BMAP project reductions to date: 73,034.6 lbs/yr of TN
 - Reductions are 83.3% of the of the required TN reductions to meet the TMDL
 - Reductions to date are greater than the reductions required for the first BMAP iteration





Progress to the TP TMDL

- Reductions
 - Required TP reduction for the first BMAP iteration: 8,854.9 lbs/yr
 - Reductions from projects completed during the second annual BMAP reporting period: 1,793.9 lbs/yr of TP
 - Total BMAP project reductions to date: 16,838.2 lbs/yr of TP
 - Reductions are 102.3% of the required TP reductions to meet the TMDL
 - Reductions to date are greater than the reductions required for the first BMAP iteration





Monitoring

- The BMAP monitoring plan was designed to enhance the understanding of basin loads, identify areas with high nutrient concentrations, and track water quality trends.
- Monitoring includes ambient water quality sampling and biological and vegetation monitoring
- All responsible stakeholders participated in the monitoring plan in the second year of BMAP implementation
- Information gathered through the monitoring plan measures progress toward achieving the TMDL reductions and provide a foundation for continued improvement in cost-effective project implementation

A scenic landscape featuring a body of water in the foreground, reflecting the sky and clouds. A dense line of green trees forms the middle ground, with a small, light-colored structure visible among them. The sky is filled with large, white, fluffy clouds against a blue background. The overall scene is peaceful and natural.

Questions and Discussion on the 2014 Progress Report