

Florida Department of Environmental Protection



Lake Okeechobee Basin Management Action Plan

August 6, 2013





Agenda

- Identify Stakeholders
- Total Phosphorus (TP) Reductions for the First BMAP Phase
- Project Collection Process and Path Forward



Identify Stakeholders



Local Governments

- Total counts:
 - Counties - 10
 - Municipalities – 24
 - Special Districts - 34
- Department is still looking for contact information for some of these stakeholders, and will be asking the counties for help.
- The list of stakeholders and contacts will be posted to the FTP site after the meeting.



State Agencies

- Florida Department of Agriculture and Consumer Services
- Florida Department of Environmental Protection
- Florida Department of Health
- Florida Department of Transportation
- Florida Turnpike Enterprise
- South Florida Water Management District
- Southwest Florida Water Management District
- St. Johns River Water Management District



Other Interested Stakeholders

- Conservation associations
- Growers associations
- Agricultural producers
- Seminole Tribe



TP Reductions for the First BMAP Phase



Reductions in the First Phase

- Focus on reductions at the sub-watershed level.
- Analyses will help to understand hydrology and loads/concentrations at the sub-watershed level.
- All projects and activities in a sub-watershed will be assessed to determine if adequate reductions have been achieved.



Reductions in the First Phase, continued

- The Department will evaluate recent “past” projects and future projects planned within the first five-year iteration submitted by the stakeholders.
- Identify where additional reductions are needed.
 - Target reductions for each sub-watershed will be established.
- Use the Watershed Assessment Model (WAM) to prioritize sub-watersheds and optimize locations and types of projects.



Project Collection Process and Path Forward



Stakeholder Projects and Management Activities

Projects

- Structural BMPs
- Restoration and water quality improvement projects
- Basic stormwater management program implementation

Activities

- Regulations, ordinances, and guidelines
- Special studies and planning efforts
- Street sweeping
- Enhanced operations and maintenance program
- Agricultural BMPs
- Public education and outreach efforts



Project Collection Process

- To achieve total phosphorus (TP) reductions, each stakeholder will provide projects and activities that reduce nutrient loads.
- Information on recently completed projects and projects planned within the first BMAP iteration is due by September 16, 2013.



Assessment of Stakeholder Projects and Activities Information

- Goals
 - Transparent assessment process.
 - Realistic estimates of nutrient load reductions.
- Process
 - Stakeholders complete the spreadsheet for their individual projects.
 - FDEP assembles the master project table for each sub-watershed.
 - FDEP evaluates completeness of the project information submitted.
 - FDEP calculates the initial estimate of reductions.
 - Stakeholders review the initial reduction estimates.
 - FDEP and the stakeholders determine what additional projects and activities are needed in each sub-watershed.



Types of Projects

- Standard stormwater treatment best management practices (BMPs) include:
 - Retention BMPs.
 - Wet detention ponds.
 - Treatment trains.
 - Dry detention.
 - Baffle boxes (1st generation).
 - Nutrient (2nd generation) baffle boxes.
 - Swales.
 - Alum injection.
 - Stormwater reuse.
 - Stormceptor devices.
 - Continuous deflective separation (CDS) units.
 - Street sweeping.
 - Catch basin inserts/inlet filters.
 - Septic tank phase out.



Types of Projects, continued

- Provisional BMPs include:
 - Public education and outreach efforts.
 - Floating islands/ managed aquatic plant systems (MAPS).
 - Muck removal/restoration dredging.
 - Aquatic vegetation harvesting.
 - Water control structures.



Project Requirements

- Only projects that have treatment above and beyond any permitted requirements will be assessed.
- All projects must reduce TP.
- All projects must be within the Lake Okeechobee BMAP watershed.



Project Efficiencies

- A table of BMP efficiencies was provided to the stakeholders.
 - [Add link to table](#)
- A form has been provided for details on the educational activities.
 - [Add link to form](#)



Project Spreadsheet

- Each entity must fill out the project spreadsheet with requested details.
- The table must be completed to the extent possible for each project.
- Projects that are part of a treatment train should be noted in the appropriate columns.
- For those permitted projects, permit numbers must be provided.



Project Spreadsheet, continued

- The location of the project and the area treated are needed for structural BMPs.
- The map can be submitted as a Geographic Information System (GIS) file, Computer Aided Design (CAD) file, or hard copy.
- The map file name must indicate the project number from the project spreadsheet.



Project Spreadsheet, continued

- Review project spreadsheet:
 - Add link to spreadsheet





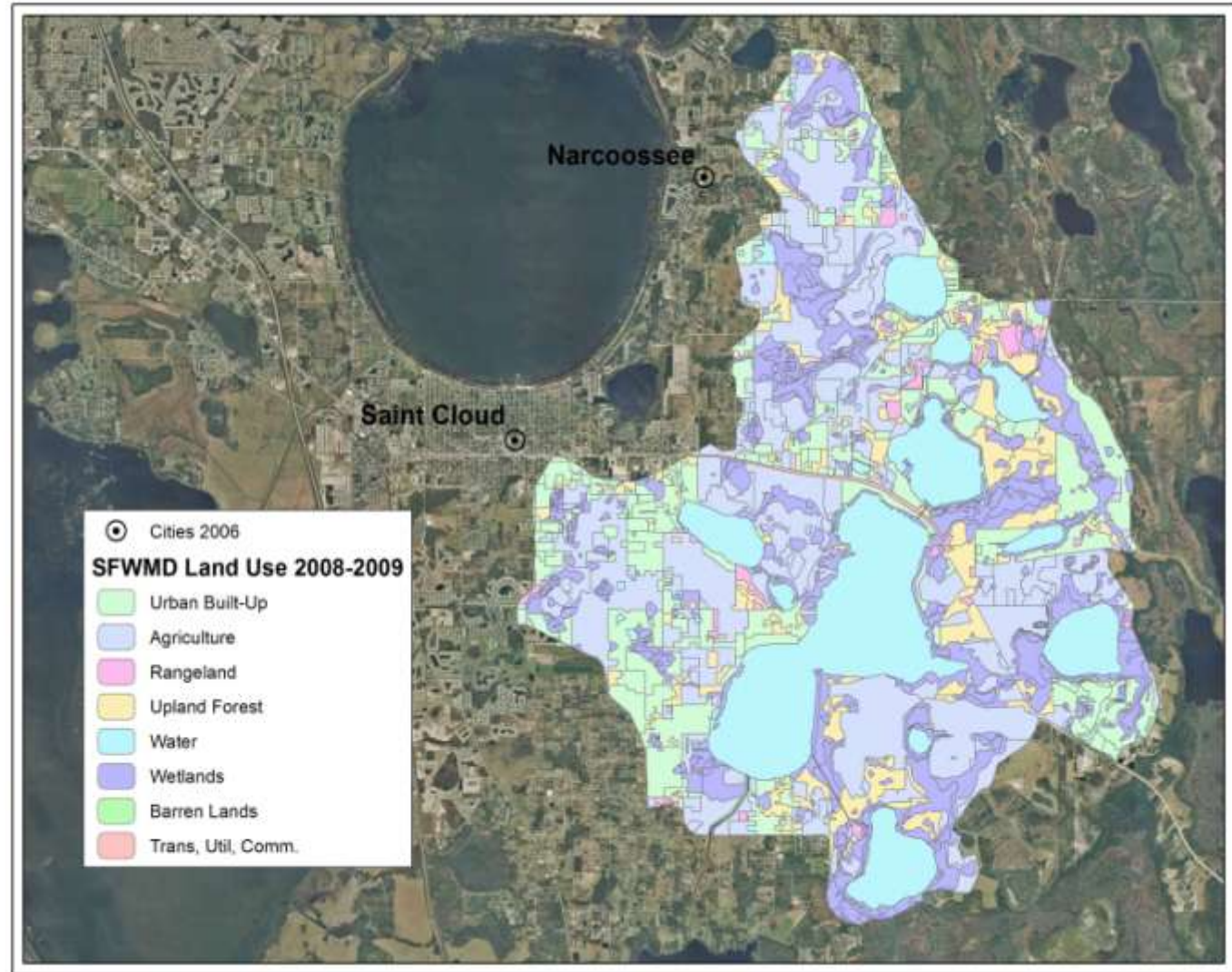
Conservation Land Purchases

- From coverage of lands purchased, determine area, land uses, and loading from the spreadsheet model.
- Credit is assigned for conversion of urban and agricultural land use loading to background loading.
- Difference in loading = credit.



Example Project Credit Calculation

- Superimpose boundary of BMP
- Identify land uses





Example Project Credit Calculation, continued

- Information:
 - XX acres for drainage area to BMP
 - BMP type: 1" off-line retention (74% reduction)
 - Total load without BMP = 11,155 lbs/yr TP (based on land uses in drainage area)
- Calculation of Credit:
 - $11,155 \text{ lbs/yr} \times 74\% = 8,255 \text{ lbs/yr TP credit}$



Questions

- Please provide any additional contact names for your entity.
- Contacts for any of the stakeholders missing from this meeting would also be appreciated.
- Project collection sheets and supporting project files should be submitted by September 16th.
- Send information and questions to Elizabeth.Alvi@dep.state.fl.us.