

Florida Department of Environmental Protection



Upper Wakulla River and Wakulla Springs BMAP Management Strategies Outside the PFAs and BMAP Schedule

August 15, 2013
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Strategies Outside of the PFAs

- Management Strategies Outside the PFAs



Strategies Outside of the PFAs

- In addition to the strategies provided within the Priority Focus Areas (PFAs), stakeholders located within the BMAP basin but outside the PFAs provided strategies.
- These strategies will be listed in the BMAP as other actions occurring to help improve water quality in the Upper Wakulla River and Wakulla Springs Basin.



Stakeholders Outside of the PFAs

- City of Gretna.
- City of Midway.
- City of Quincy.
- FDACS.
- Federal Correctional Institution.
- Florida Agricultural and Mechanical University (FAMU).
- Florida State University (FSU).
- Gadsden County.
- Jefferson County.
- Talquin Electric Cooperative.
- Town of Havana.



Wastewater Strategies

Name	Lead Entity	Partners	Description	Cost	Completion Date	Status	Estimated Reductions
Oyster Bay WWTP Abandonment	Talquin Electric Cooperative	Wakulla County	Decommissioned after project is complete which will connect coastal area sewer system to the county's sewer system in effort to move WWTP away from coastal areas.	\$750,000	9/1/2013	Ongoing	100%
Gadsden East WWTP	Talquin Electric Cooperative	N/A	Construct a treatment wetland by retrofitting 3 existing RIBs and building additional treatment cells, so the wetland has zero effluent discharge. Once constructed the wetland's nitrogen reduction will be achieved through the natural wetland process and will require very little energy for operation and maintenance.	\$200,000	12/31/2013	Ongoing, seeking funding	98%
Highway 267 Sewer	Gadsden County	Talquin, City of Quincy	Central sewer system to the Highway 267/I-10 interchange for existing motel and 2 future hotels eliminating onsite sewer disposal. Talquin is owner/operator of system and the City provides sewer treatment. Gadsden County received grant funds to construct system.	\$400,000	06/2008	Completed	80%
Beech Ridge Trail Sewer	Talquin Electric Cooperative	Leon County	Sewer system along Beech Ridge Trail to remove approximately 12 homes from onsite disposal systems. Financed by County who recouped cost through property tax assessment.	\$40,000	12/2004	Completed	80%



Residential Fertilizer Strategies

- City of Gretna – No fertilizer used on city-owned property.
- City of Quincy – Watershed conservation measures in the land development code requires use of best management practices (BMPs) including slow release fertilizers.
- Federal Correctional Institution Tallahassee – No fertilizer used on facility grounds.
- FSU – Fertilizer rule in the University Master Plan requiring slow release fertilizers and/or carefully managed fertilizer applications to ensure maximum root uptake and minimal surface water runoff or leaching to ground water.



Agriculture Strategies

Land Use	Acres	Related BMP Programs	Acreage Enrolled
Pasture and Rangeland	26,894.80	Cow/Calf	1,679.57
Row/Field/Mixed Crops	11,775.52	Vegetable/Agronomic Crops	1,467.30
Hay Fields	13,926.93	Vegetable/Agronomic Crops Revision (Future)	N/A
Fallow Crop Land	821.32	N/A	N/A
Horse Farm	1,298.26	Equine	0
Other Groves	475.53	Specialty Fruit and Nut	0
Nurseries and Vineyards	102.96	Future Nursery, Specialty Fruit and Nut	0
Tree Nurseries	155.11	Future Nursery, Specialty Fruit and Nut	0
Ornamentals	1,629.87	Container Nursery	2,751.84
Sod Farms	1,260.62	Statewide Sod	0
Specialty Farms	48.67	Conservation Plan Rule	0
Cattle Feeding	55.15	Conservation Plan Rule	0
Poultry Feeding	23.58	Conservation Plan Rule	0
Total	58,468.32	N/A	5,898.71



Stormwater Strategies

- FAMU - Campus-wide letter to all students and staff on stormwater practices, website about stormwater activities, public service announcements, education practices at athletic events and student activities, stormwater system mapping, illicit discharge screening, and stormwater system inspections and maintenance.
- FSU – Newsletter, website about stormwater activities, on-campus public service announcements, Geographic Information Systems (GIS) base map of the entire campus stormwater drainage system, illicit discharge policies, and stormwater hotline.



Stormwater Strategies, continued

- City of Quincy – Watershed conservation measures in the land development code requires minimum stormwater treatment levels. Also have street sweeping.
- Federal Correctional Institution Tallahassee - Maintain approximately 225 catch basins/stormwater drains and inspect quarterly.
- Gadsden County – Section 3.4 Special Drainage Basins - Water Quality (Pollution Abatement) requires 1.5 times normal treatment requirement (from the Stormwater Policies and Procedures Manual).
- Town of Havana – quarterly street sweeping of all town roads.



Other Strategies

- FSU - Litter control and grounds maintenance.
- Gadsden County - Comprehensive Plan Policy 5.2.4, 5.2.11 requires 50 foot natural buffer around all jurisdictional wetlands



Other Strategies, continued

- Leon County provided strategies related to sources in Georgia.
- This information will be listed in the considerations section of the BMAP.

Name	Description	Status
Cities of Thomasville and Moultrie, Georgia	Based on proactive challenges by Leon County with Georgia EPD, the Cities of Thomasville and Moultrie were required to conduct water quality monitoring and upgrades when their plants are expanded.	Completed
City of Cairo, Georgia	Based on proactive challenges by Leon County with Georgia EPD, Cairo, Georgia closed its sewage land application and built a new treatment facility with additional capacity and capabilities to reduce nitrogen and fecal coliform discharge levels to the Ochlocknee River.	Completed
BASF Plant in Attapulgus, GA	Leon County is challenging the direct discharge of about a million pounds of nitrate per year into the Little River that flows to Lake Talquin by challenging the permit parameters for renewal of discharge permit by the BASF plant.	Ongoing



OSTDS Strategies

- Gadsden County:
 - Comprehensive Plan Policy 4.5.1, 5.2.11 requiring 100 foot setback for OSTDS from wetlands, creeks, streams, lakes, etc.
 - Water and sewer connection required for new development within 0.25 of mile of available service.



Questions on the Strategies Outside the PFAs





- BMAP Development and Review Schedule



BMAP Development and Review Schedule

Action	Involved Parties	Date
Draft BMAP to stakeholders for review	Department and Technical Stakeholders	September 12, 2013
Technical meeting to discuss Draft BMAP	Department and Technical Stakeholders	September 19, 2013
Comments on Draft BMAP due to the Department	Technical Stakeholders	October 3, 2013
Revised Draft BMAP to stakeholders for review	Department	October 10, 2013
Technical meeting to discuss Revised Draft BMAP	Department and Technical Stakeholders	October 17, 2013
Public meeting on BMAP	Department and Public	Mid/End-October 2013
Public comment period closes (30 days)	Department	Mid-November 2013



BMAP Development and Review Schedule

Action	Date
Brief Department management on BMAP	End-November 2013
Brief Department Deputy Secretary on BMAP	End-November 2013
Brief Department Secretary on BMAP and obtain Secretarial approval	End-November 2013
Notify interested parties and place Florida Administrative Register (FAR) notice	End-November 2013
End of challenge period (21-days after notice)	End-December 2013
BMAP adopted and enforceable (if there are no challenges)	End-December 2013



Questions on BMAP Development and Review Schedule

