



STATE OF FLORIDA 319(h) 2010 PROJECT SUMMARIES REPORT

This is the State of Florida 319(h) 2010 Project Summaries Report presented for the budget period 10/01/09 -09/30/16 for projects funded by EPA's Section 319(h) grant. Within each project summary, you will find a brief description of the project and the contact for each project manager. Please keep in mind these projects are currently underway and will not have documentation readily available until the grant closes September 30, 2016. You can e-mail the project manager for further information. The Nonpoint Source Management Section's contact information can be found at the end of this document.

FY 2010 Grants

NPS Program Administration	3
Erosion and Sediment Control Training Program	3
Green Industries BMP Training.....	4
Bioassessment Quality Assurance Program.....	5
Continued Expansions and Sustainability of the FYN Program.....	5
Stormwater Management Academy Pollution Prevention Education	6
Continuation of OSTDS County Outreach Program	6
Agricultural BMP Implementation & Education.....	7
Continuation of Abatement of NPS from Unpaved Roads.....	7
Gap Creek Watershed Water Quality Improvement.....	8
Capital Cascade Park Stormwater Treatment System	8
Paynes Prairie Sheetflow Restoration – Phase 1.....	9
Northwest Florida Apalachicola and Ochlocknee River Basin Road-Stream Crossings Assessment.....	9
Melbourne Beach Stormwater Quality Improvements	10
Elizabeth Place Hydrologic Enhancement Program	10
Lake Seminole Regional Alum Treatment Facility	11
Coconut Lane Outfall Improvements.....	11
Lake Concord Alum Treatment and Baffle Box.....	12
Lake Harris Water Quality Improvement	12
Reconstruct Riberia Street/Revitalize San Sebastian River.....	13
North Lake Lawne Stormwater Treatment Project.....	13

For documents, please email the Contract Manger identified in the project description.

Federal Fiscal Year 2010 Grant Budget:	
Funds	Original Award
Federal Contribution	\$7,564,200
Local Contribution	\$5,042,800
State Contribution	\$2,320,582
TOTAL BUDGET	\$14,927,582

More information and contact information for the Nonpoint Source Management Program can be found online at <http://www.dep.state.fl.us/water/nonpoint/index.htm>.

Florida's Section 319 Grant Work Plans and Project Summaries can be found online at <http://www.dep.state.fl.us/water/nonpoint/projsum.htm>.

The U.S. Environmental Protection Agency Grants Reporting and Tracking System can be found online at: <http://iaspub.epa.gov/pls/grts/f?p=110:199:2927784867545482>.

Project 1

NPS Program Administration



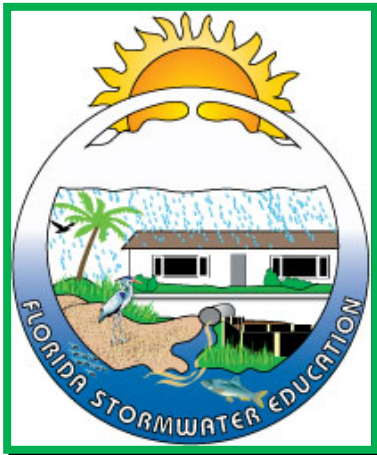
An alligator sits quietly just off shore of this stormwater pond.

To provide funds to support general program administration and implementation of the state's NPS management and watershed management program. These funds will allow the Nonpoint Source Management Section staff to properly administer the grant, to assure that all funded projects are completed as contracted, to coordinate nonpoint source activities across agencies, and to implement a dynamic and effective nonpoint source management program that is designed to achieve and maintain the beneficial uses of Florida's surface and ground waters.

Manager [Kristine Jones](#)
Contractor FDEP
Affiliated Website <http://www.dep.state.fl.us/water/nonpoint>

Project 2

Erosion and Sediment Control Training Program



Florida Stormwater Education Logo from the Erosion and Sediment Control Training Program

This program has developed a curriculum based on the use, installation, and maintenance of erosion, sediment, and stormwater BMPs and to produce audio-visual material as an additional educational tool for the training class. The goal of the program is to provide an up-to-date training manual and offer a two-day course to educate inspectors, contractors, engineers, public works personnel on the proper design, construction, and maintenance of erosion and sediment controls during construction, and to assure the proper long-term operation and maintenance of stormwater systems after construction is completed. To date over 30,000 people have attended the statewide inspector training program and it is estimated that in this next year over a 120 classes will be held throughout the state, with over 3,000 or more people in attendance.

Manager [Hal Lunsford](#)
Contractor FDEP
Affiliated Website <http://www.dep.state.fl.us/water/nonpoint/erosion.htm>

Project 3

Green Industries BMP Training



Cover photograph from the “Florida Friendly Best Management Practices for Protection of Water Resources by the Green Industries Program” manual

The Green Industries Best Management Practices (BMPs) Training program for the protection of water resources in Florida was developed to provide Green Industry professionals with the knowledge, tools, and skills to minimize the environmental impacts of nonpoint source pollution related to their business practices. This program is currently administered statewide by the University of Florida’s Institute for Food and Agricultural Sciences (IFAS) as part of the Florida Friendly Landscaping program ([Project 6](#)). Training is provided by County Extension service trainers, along with more than 100 industry volunteer trainers. DEP coordinators conduct Train-the-Trainer classes to increase the number of approved volunteer trainers for this program throughout the state, along with oversight of these trainers to ensure consistency and quality of the training program. The regional coordinators also deliver/assist with delivering Green Industry BMP classes in English and Spanish throughout their respective regions. The project also provides training manuals and other training tools for the program.

Manager
Contractor
Affiliated Website

[Mike Thomas](#)
FDEP
http://fyn.ifas.ufl.edu/professionals/BMP_overview.htm

Project 4

Continuation of NPS Biological Monitoring & Assessment



Florida Department of Environmental Protection Bioassessment Program logo

The Department’s Bioassessment Program provides technical support for database needs, GIS analysis, and other management and administrative activities in support of the Total Maximum Daily Load program. The two primary focuses of the Bioassessment program are the biological assessments conducted in streams and lakes, with special focus on NPS priority waters and TMDL /303(d) listed waters, and the continuation, expansion, and refinement of the bioassessment wetland and estuarine programs. Funding supports program operational expenses.

Manager
Contractor
Affiliated Website

[Devan Cobb](#)
FDEP
<http://www.dep.state.fl.us/water/bioassess/>

Project 5

Bioassessment Quality Assurance Program



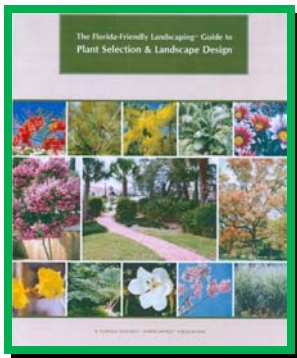
Left to Right from Top: Common fly; Dragonfly; Beetle; Damselfly; Stonefly

The Department continues to require macroinvertebrate and macrophyte specimen verifications as basic components of the Bioassessment Program's QA implementation. Correctly identified organism collections (reference collections) are maintained in order to serve as comparisons and to ensure that incorrectly identified species do not lead to a misrepresentation of environmental conditions. The Department updates out-of-date identification manuals as needed.

Manager [Devan Cobb](#)
Contractor FDEP
Affiliated Website <http://www.floridadep.org/labs/cgi-bin/sbio/keys.asp>

Project 6

Continued Expansions and Sustainability of the FYN Program



Florida Friendly Landscaping™
Guide to Plant Selection &
Landscape Design manual

The Florida Yards and Neighborhoods (FYN) Homeowner and Builder and Developer programs have been merged with the Green Industries Best Management Practices (GIBMP) program for landscape and lawn care professionals under the umbrella of the Florida Friendly Landscaping™ (FFL) program. The program is part of the UF/IFAS Center for Landscape Conservation and Ecology. All of the programs under the FFL umbrella explain the relationship between Floridians' landscaping choices and the environmental impact of those choices. The FFL programs teach landscape practices that save money, time, and natural resources. This program is successful due to public-private cooperative efforts.

Manager [Michael Scheinkman](#)
Contractor UF-IFAS
Affiliated Website <http://fyn.ifas.ufl.edu/professionals/home.htm>

Project 7

Stormwater Management Academy Pollution Prevention Education



Stormwater Management Academy logo: "Managed Stormwater is good water."

With grant funding, the Stormwater Management Academy at UCF continues to build capacity for project social marketing efforts by improving coordination and delivery of pertinent information to public education providers throughout the state, with equal distribution of pilot projects conducted in North, Central and South Florida. The Stormwater Education Tool Kit and Task Force provides program implementation materials, the Florida Stormwater Education newsletter highlights model programs, and the Florida Watershed Social Data Repository provides data records and reports that assist program public education evaluation and priorities. The Task Force, using a Toolbox of shared materials, expertise, case studies, and educational resources strives to demonstrate evaluable measures of successful behavior change using social research methods.

Manager [Borja Crane-Amores](#)
Contractor UCF-Stormwater
Affiliated Website <http://www.stormwater.ucf.edu/>

Project 8

Continuation of OSTDS County Outreach Program



A DOH staffer inspects a drainfield.

The County Outreach Program addresses the unique needs of counties dealing with maintenance and management issues for onsite sewage treatment and disposal systems (OSTDS). This annually recurring grant assists counties in Florida with the appropriate tools needed to move toward more comprehensive OSTDS maintenance and management programs. The program also works with other agencies to develop a set of funding tools to assist local governments and their residents deal with upgrade or replacement of OSTDSs. The County Outreach Program's goal is to help every county in Florida achieve a robust maintenance and management program within a fifteen-year period.

Manager [Patti Sanzone](#)
Contractor FDEP
Affiliated Website

Project 9

Stock picture of orange tree.

Manager
Contractor
Affiliated Website

Agricultural BMP Implementation & Education

This project consists of programs that are directed at the development, implementation, and demonstration of water quality/quantity BMPs for citrus, vegetable, container nursery, and row crop producers that are intended to achieve pollution reduction in the receiving waterbodies. It is expected that the educational efforts conducted by this project will lead to reduced nutrient and pesticide runoff and leaching, improved irrigation management, reduced off-site sediment transport, and overall reduced off-site impacts from farming operations.

[Mike Thomas](#)
UF-IFAS

Project 10

Men install stormwater lines under a soon-to-be-paved road.

Manager
Contractor
Affiliated Website

Continuation of Abatement of NPS from Unpaved Roads

The project provides guidance for developing site-specific pollution prevention practices and maintaining unpaved roads and road-stream crossings in a manner that reduces overall sediment contributions to surface waters in the Northwest Florida watersheds. Pollutant load reductions will be accomplished through corrective strategies, including stabilizing unpaved roads and implementing maintenance BMPs on unpaved county roads. This year, the program has identified Aspalaga Road in Gadsden County as a priority project. The proposed project will stabilize and pave approximately 1.5 miles of a very steep dirt road and right of way leading to Flat Creek, which discharges to the Apalachicola River. The steep slopes, greater than 10%, are causing extreme sediment and erosion problems for the Creek and dangerous conditions for park users.

[Michael Scheinkman](#)
Various Counties

Base Projects Total

\$ 2,858,918

Project 11

Gap Creek Watershed Water Quality Improvement



Existing outfall from County Pond into existing swale at Echo Circle Site

Gap Creek watershed has one of the highest loading rates for pollutants in Okaloosa County. The objective of this project is to reduce the impacts of nonpoint source pollution from a heavily-developed watershed in the Choctawhatchee Bay system. This project will provide significant reductions of pollutant loading from the Gap Creek watershed and also provide attenuation and flood relief for residents and business owners in the watershed. Before the runoff enters Gap Creek, high levels of pollutant removal will be achieved through a treatment train including: modification and enlargement of conveyance channels draining to the County Poplar Avenue Pond; improvement of the existing 2.8 acre County-owned and maintained stormwater facility west of Poplar Avenue; and increased nutrient uptake through the use of planted shelves on the pond bottom and side slopes.

Manager [Michael Scheinkman](#)
Contractor Okaloosa County

Affiliated Website <http://www.fwb.org/images/stories/DownloadDocuments/Utilities/Gap%20Creek%20Watershed%20Water%20Quality%20Improvement%20Project.pdf>

Project 12

Capital Cascade Park Stormwater Treatment System



Stormwater pond within the Capital Cascade Greenway and Stormwater Treatment Project

The 6-mile Capital Cascade Greenway and Stormwater Treatment Project located in Leon County will significantly enhance the pollutant removal efficiency. The Tallahassee Blueprint 2000 Intergovernmental Agency has incorporated an alum stormwater treatment system into the Capital Cascade Greenway design. The flash flood conditions inherit in the channel will be controlled and first-flush pollutants drastically reduced. The alum stormwater treatment system will be used to treat stormwater entering the north pond from St. Augustine Branch and to treat stormwater discharging into the south pond. The design for Capital Cascade Greenway also includes a recreated wetland, a meandering stream with riffles and small waterfalls, and wetland/littoral shelf plantings around the ponds, all of which will contribute to increased water quality along the St. Augustine Branch.

Manager [Dave Worley](#)
Contractor Blueprint 2000 Intergovernmental Agency
Affiliated Website http://www.blueprint2000.org/Project_CCT/index.html

Project 13

Paynes Prairie restoration area

Paynes Prairie Sheetflow Restoration – Phase 1

The Sweetwater Branch/Paynes Prairie Sheetflow Restoration Project is a nutrient reduction project for a 2,100-acre watershed that is 80% urbanized. This project meets TMDL requirements for reducing nitrogen discharges entering the Alachua Sink, which is an impaired waterbody located in Paynes Prairie Preserve State Park in Alachua County. The project includes a water reclamation plant upgrade; improvements to Sweetwater Branch, including stabilization of the channel and sediment and trash capture; creation of a 125-acre treatment wetland; construction of a 1.25 mile sheetflow distribution channel; and back filling approximately one mile of existing canal to eliminate short circuiting.

Manager [Devan Cobb](#)
Contractor City of Gainesville
Affiliated Website

Project 14

No photo available.

Northwest Florida Apalachicola and Ochlocknee River Basin Road-Stream Crossings Assessment

The purpose of the Apalachicola and Ochlocknee River Basin (AOB) road-stream crossings assessment is to document the impacts of county-maintained, unpaved road crossings on aquatic resources within the 595 watersheds of the AOB, as well as to prioritize basin crossing treatment project opportunities. Reducing sediment pollution caused by crossings is a complex and challenging endeavor that requires an integrated, coherent approach to achieve complex goals and objectives. SAIC, the project technical services provider, developed the Crossing Knowledge Support System (CKSS) to strategically inventory, analyze, prioritize, and disseminate information to identify, design, and monitor sustainable crossings. This systematic process is used to develop crossing management strategies and viable crossing treatment projects that minimize crossing-induced sedimentation; facilitate environmental recovery and resource sustainability; and promote compliance with integrated natural resource management objectives.

Manager [Michael Scheinkman](#)
Contractor West Florida Resource Conservation and Development Council, Inc.
Affiliated Website

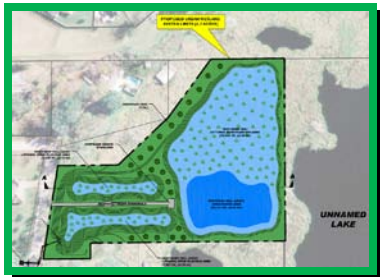
Project 15**Melbourne Beach Stormwater Quality Improvements**

No photo available.

This stormwater retrofit project will provide increased treatment of stormwater runoff in Melbourne Beach in Brevard County. These improvements are designed to increase the amount of storage within the basins, thereby reducing the amount of runoff discharging to the Indian River Lagoon, and to improve the quality of the runoff that does discharge to the lagoon. The treatment train will use exfiltration and swales to capture and treat stormwater runoff. Runoff in excess of the upstream storage capacity will flow to treatment areas to capture additional sediment and floating solids, including nutrient-rich vegetation.

Manager [Taufiqul Aziz](#)
Contractor Town of Melbourne Beach
Affiliated Website

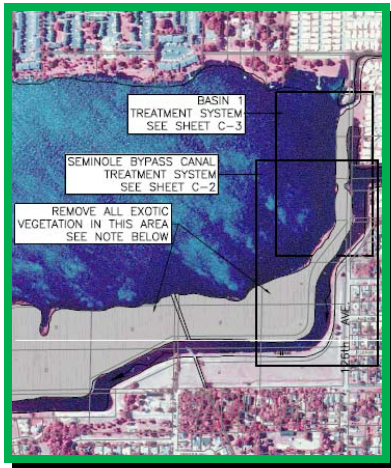
Project 16**Elizabeth Place Hydrologic Enhancement Program**



Intended stormwater treatment area adjacent to Unnamed Lake

TMDL's were published by the Florida Department of Environmental Protection in October 2005 and November 2005 for Banana Lake and Lake Hancock, respectively. The TMDLs require Total Nitrogen and Total Phosphorus levels from the watersheds to be reduced by 79% for Banana Lake, and 75% for Lake Hancock. Polk County is working with the Department, local municipalities, and other stakeholders to develop a Basin Management Action Plan for the watershed. This entails identifying potential projects to improve the quality of water discharged to Banana Lake. The Elizabeth Place Hydrologic Enhancement Program project will augment this work by further reducing the nitrogen and phosphorus contributions to these lakes. Such system will also entail removing existing nuisance plant species and establishing an extensive re-grading and replanting program. The proposed modification of the existing parcels north of Unnamed Lake and their conversion into the proposed urban wetland system will increase the available open water area while allowing for an expanded littoral shelf that will be planted with desirable wetland vegetation to improve habitat and provide additional stormwater treatment benefits.

Manager [Dave Worley](#)
Contractor Polk County Natural Resources Division
Affiliated Website

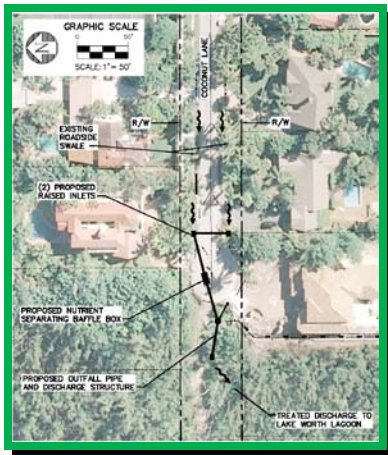
Project 17

Treatment plan for Lake Seminole

Lake Seminole Regional Alum Treatment Facility

The Lake Seminole Watershed Management Plan identified three primary causes of impairment to Lake Seminole: external nutrient loadings from stormwater, internal nutrient loading from nutrient-rich sediments, and extended residence time within the lake. The Plan recommended several structural components to improve lake conditions: stormwater treatment of high priority drainage basins with alum, alum treatment and diversion of water from the Bypass Canal into Lake Seminole, and removal of the nutrient-rich flocculent sediments. To meet the goals and objectives outlined in the Lake Seminole Watershed Management Plan and the Reasonable Assurance Plan, this project provides for the construction of a 2.25 acre alum treatment pond and associated facilities.

Manager [Dave Worley](#)
Contractor Pinellas County Government
Affiliated Website

Project 18

Coconut Lane and intended treatment train to lake Worth Lagoon.

Coconut Lane Outfall Improvements

Coconut Lane in Palm Beach County is part of the Lake Worth Lagoon basin in the Everglades watershed. The Lake Worth Lagoon is the county's major estuarine resource and is a 303(d)-listed waterbody. This stormwater retrofit project provides stormwater treatment to a 4.8-acre watershed currently discharging directly to the Lake Worth Lagoon without treatment. Water quality improvements will be accomplished by constructing a Nutrient Separating Baffle Box at the outfall and constructing raised inlets in the roadside swales. Signage will be placed in the public right-of-way to educate the public on stormwater pollution prevention and the importance of protecting the receiving waters.

Manager [Taufiqul Aziz](#)
Contractor Town of Ocean Ridge
Affiliated Website

Incremental Projects Total

\$4,644,700

Project 19



Outfalls, storm sewers, man holes, and alum treatment plant locations near Lake Dot.

Lake Concord Alum Treatment and Baffle Box

This project, located in Orange County, proposes two stormwater improvement BMPs in the Lake Concord drainage basin. Lake Concord is one of four lakes in the Howell Branch Chain of Lakes where the City of Orlando is currently implementing stormwater improvements for the TMDL-listed waterbodies. The first stormwater improvement diverts downtown drainage basins to the existing alum treatment pond at Lake Dot. This diversion includes construction of a conveyance system, new inlets, and placement of a second-generation baffle box that will treat the diverted flows. The second stormwater improvement expands the existing alum-injection system at Lake Dot to enable higher treatment capacity for the diverted flows from downtown.

Manager [Devan Cobb](#)
Contractor City of Orlando
Affiliated Website

Project 20

No photo available.

Lake Harris Water Quality Improvement

Lake Harris is listed on the federal Clean Water Act 303(d) list of impaired water bodies due to excessive nutrient loads. The Lake Harris Water Quality Improvement, to be completed by the City of Leesburg in Lake County, will construct four nutrient separating baffle boxes and use an enhanced wetland area to remove particulate matter from stormwater runoff and subsequently reduce pollutant loads to Lake Harris.

Manager [Devan Cobb](#)
Contractor City of Leesburg
Affiliated Website

Project 21**Reconstruct Riberia Street/Revitalize San Sebastian River**



Riberia Street Southbound at Bravo Street, May 19, 2009

The City of St. Augustine in St. Johns County is undertaking the first of a multi-phased project to alleviate the flooding of Riberia Street and provide stormwater treatment to approximately 85 acres of previously untreated runoff flowing into the San Sebastian River from the Historic Lincolnville District of St. Augustine. The San Sebastian River, which flows to the Matanzas River, is a Priority 1 waterbody needing stormwater treatment in accordance with the SJRWMD of the *Northern Coastal SWIM Plan*. The funded project utilizes two 2nd generation baffle boxes and related stormwater collection systems to reduce the total suspended solids and phosphorus load that currently is conveyed untreated to the San Sebastian River.

Manager [Dave Worley](#)
Contractor City of Saint Augustine
Affiliated Website

Competitive Projects Total**\$60,000**

Project 22**North Lake Lawne Stormwater Treatment Project**

No photo available.

Lake Lawne in Orange County has been verified by FDEP as a TMDL-impaired waterbody for nitrogen and phosphorus within the Middle St. Johns Basin. The project installs 110 curb and grate inlet baskets, with hydrocarbon absorbing booms, in the highly urbanized and unincorporated portion of Pine Hills, located on the northwest side of Lake Lawne. The inlet baskets are designed to effectively capture the typical nutrient-rich sediments and debris that wash into the stormwater conveyance system and into Lake Lawne.

Manager [Taufiqul Aziz](#)
Contractor Orange County Environmental Protection Department
Affiliated Website

Final Reports are provided by the Contractor to DEP upon the completion of the project. Copies of final reports may be requested by contacting:

[Holly Powless](#)
Nonpoint Source Management Section
Florida Department of Environmental Protection
2600 Blair Stone Road (MS 3570)
Tallahassee, Florida 32399-2400
(850) 245-7508