

Appendix B: Outstanding Florida Springs (OFS) BMAPs

Table of Contents

Introduction.....2

Jackson Blue Spring and Merritts Mill Pond BMAP.....5

Rainbow Springs BMAP11

Santa Fe River BMAP37

Silver River and Springs BMAP.....45

Upper Wakulla River and Wakulla Springs BMAP91

Wekiva River, Rock Springs Run, and Little Wekiva Canal BMAP.....105

Introduction

The Florida Springs and Aquifer Protection Act (Part VIII of Chapter 373, F.S.), provides for the protection and restoration of the state's OFS, which comprise 24 first magnitude springs, 6 additional named springs, and their associated spring runs. The act requires DEP to initiate an assessment by July 1, 2016, of any OFS or spring system for which a determination of impairment has not been made under the numeric nutrient criteria for spring vents.

In addition to the requirements of Section 403.067, F.S., the act provides specific requirements for OFS BMAPs, including an implementation plan designed with a target to achieve a TMDL no more than 20 years after adoption of the BMAP. These BMAPs provide for a phased implementation schedule (5-, 10-, and 15-year targets) designed to achieve incremental reductions within the first 15 years.

The act further specifies that a BMAP for an OFS must include the following provisions:

- The delineation of PFAs, to which statutory prohibitions on certain activities will apply.
- Identification of each point source or category of nonpoint sources and estimated pollutant loads within the springshed including, but not limited to: UTF, STF, agricultural fertilizer, OSTDS, which are also referred to as "septic systems" (the terms are used interchangeably throughout this document), WWTFs, animal wastes, and stormwater facilities.
- A list of all specific projects and programs identified to implement a nutrient TMDL.
 - A priority rank, planning-level cost estimate, estimated completion date, and estimated nutrient load reduction for each listed project.
 - The source and amount of financial assistance to be made available by DEP, a WMD, or other entity for each listed project.
- An OSTDS remediation plan if DEP identifies OSTDS as contributors of at least 20 % of the nonpoint source nitrogen pollution within a PFA, or if DEP determines remediation is necessary to achieve a TMDL.
 - A list of all specific projects identified in an OSTDS remediation plan.
- A description of BMPs adopted by rule.

The tables in **Appendix B** list the implementation status of the BMAP projects as of December 31, 2017. The tables list the impairment reduction (in lbs/yr) attributable to each individual project. The list of projects is meant to be flexible enough to allow for changes that may occur

over time. During the annual review of BMAP implementation efforts, project-specific information may be revised and updated, resulting in changes to the estimated reductions for those projects. The revisions may increase or decrease estimated reductions, and DEP will work with stakeholders to address revisions as they are identified. The combination of the specific projects listed in **Appendix B** and the policies identified in the BMAPs is estimated to achieve the load reductions needed to meet the TMDL in 20 years. For BMAPs in **Appendix B**, DEP works in collaboration with Northwest Florida Water Management District (NFWFMD), St. Johns River Water Management District (SJRWMD), Suwannee River Water Management District (SRWMD), and Southwest Florida Water Management District (SWFWMD).

The project status column is standardized into the following four categories:

- **Canceled:** Project or activity that was planned but will no longer take place. This includes the cessation of ongoing activities.
- **Completed:** Project, activity or task that is finished. This includes fully implemented activities (i.e., ongoing activities) that must continue indefinitely to retain assigned credits (such as street sweeping, BMP clean out, catch basin clean out, public education, fertilizer cessation/reduction and vegetation harvesting).
- **Planned:** Project or activity that is conceptual or proposed.
- **Underway:** Project or activity that has commenced or initiated but is not completed and is not yet reducing nutrient loads from the treated area.

Prior to reporting project information, DEP contacts each lead entity to gather new information on projects and confirm previously reported information. The terms used throughout the project tables are defined as follows:

- **Not provided:** Information was requested by DEP but was not provided by the lead entity.
- **TBD:** To be determined. Information is not currently available but will be provided by the stakeholder when it is available.
- **N/A:** Not applicable. Information for that category is not relevant to that project.
- **0:** Zero. The numeric value for that category is zero.

These project tables are based on current information, and as further information becomes available project details may be updated. It is noted that while FDOT submits project information, there is no specific cost breakdown for water quality improvement projects, which are embedded into and implemented as part of larger transportation projects adopted in its Five-Year Work Program, pursuant to section 339.135, Florida Statutes.

The management strategies in **Appendix B** are ranked with a priority of high, medium, or low. In 2016, the Florida Legislature amended the FWRA (Section 403.067, F.S.), creating additional requirements for all new or revised BMAPs. BMAPs must now include planning-level details for each listed project, along with their proposed priority ranking for implementation and funding needs.

Project status was selected as the most appropriate indicator of a project's priority ranking based primarily on need for funding. Projects with a "completed" status were assigned a low priority. Projects classified as "underway" were assigned a medium priority because some resources have been allocated to these projects, but additional assistance may be needed for the project to be completed. High priority was assigned to projects listed with the project status "planned" as well as certain "completed" projects that are ongoing each year (any project with one of these project types: "street sweeping," "catch basin inserts/inlet filter clean out," "public education efforts," "fertilizer cessation," "fertilizer reduction," or "aquatic vegetation harvesting"), and select projects that are elevated because substantial, subsequent project(s) are reliant on their completion.

Jackson Blue Spring and Merritts Mill Pond BMAP

Background

The Jackson Blue Basin encompasses 141 square miles in Jackson County, Florida (**Figure B-1**). Jackson Blue Spring, an OFS, forms the headwaters of the 270-acre Merritts Mill Pond, which forms the headwaters of Spring Creek, a tributary to the Chipola River, an Outstanding Florida Water (OFW).

DEP determined that the Jackson Blue Spring segment, WBID 180Z, and Merritts Mill Pond, WBID 180A, were impaired by nitrate as nitrogen. In January 2013, DEP adopted a TMDL for nitrate to protect the aquatic flora and fauna in the spring and pond. To achieve the monthly average nitrate target of 0.35 mg/L in the Jackson Blue Basin, the nitrate loads from nonpoint sources need to be reduced by 90 %. The Jackson Blue BMAP was adopted in May 2016 to implement the nitrate TMDL in the watershed.

Status of Projects

Through December 31, 2017, 2 projects have been completed. An additional 9 projects that are underway or planned have been added to the BMAP. The projects completed to date are estimated to achieve total reductions of 5,520 pounds of lb-N/yr. The projects that are underway are estimated to achieve total reductions of 3,294 lb-N/yr. These projects are primarily agricultural BMP and septic-to-sewer projects.

As an OFS BMAP, additional information will be provided when the BMAP reaches its 5-, 10-, and 15-year milestones. If the milestones or the 20-year target will not be met, an explanation of possible causes and potential solutions will be provided. These milestones will be specified in a revised BMAP document that is scheduled to be adopted by July 1, 2018, to meet the additional statutory requirements added by the 2016 Florida Legislature.

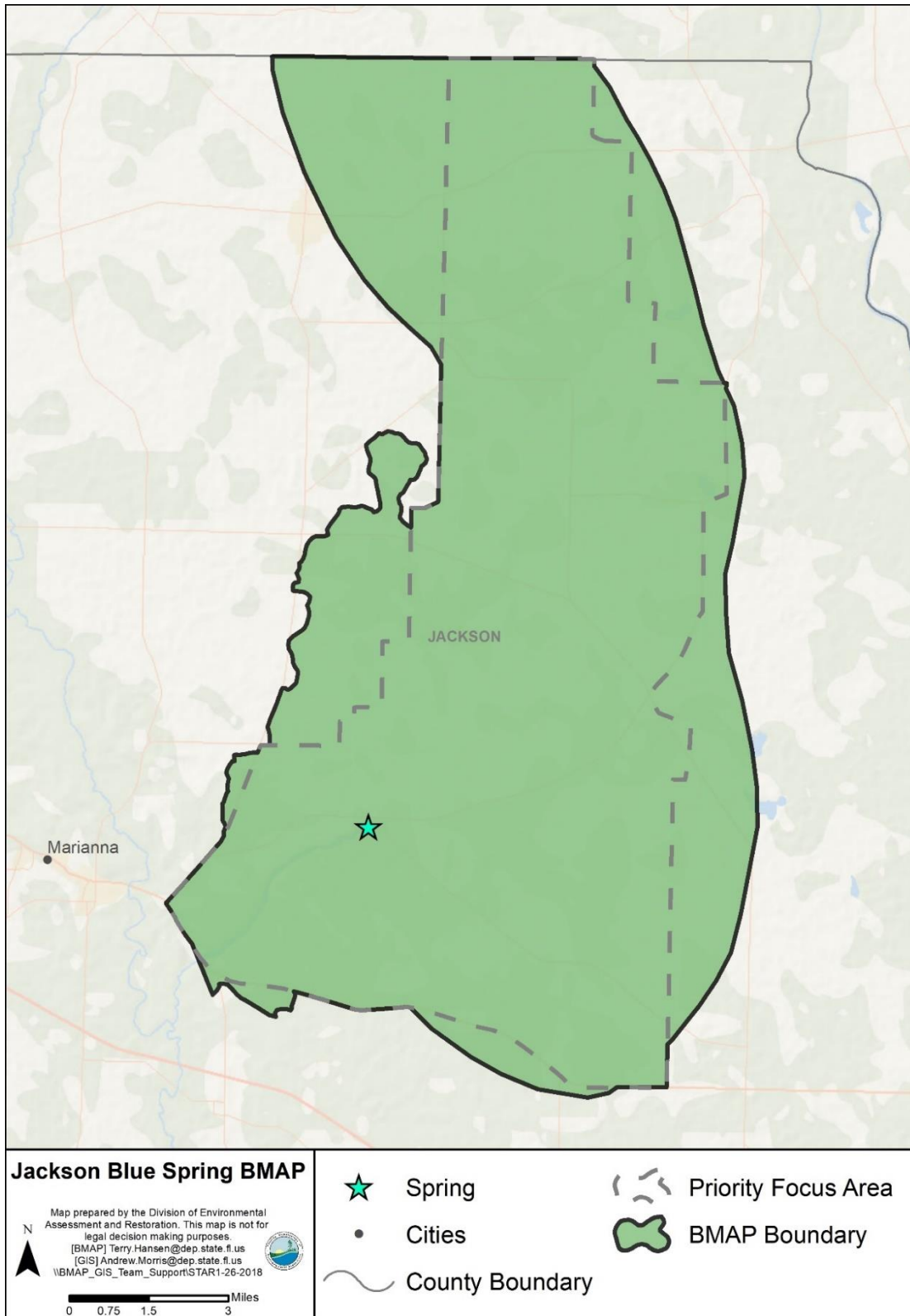


Figure B-1. Jackson Blue Spring and Merritts Mill Pond BMAP area

Table B-1. Jackson Blue BMAP projects

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lb-N/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Jackson County	DEP/ Northwest Florida Water Management District (NFWFMD)	JC-01	Indian Springs Sewer Extension Phase 1	Convert 125 residential septic systems to central sewer.	Wastewater Service Area Expansion	Underway	2018	1,671	N/A	Jackson County	Not provided	\$1,450,000	N/A	DEP	\$1,450,000	S0866
Jackson County	DEP/ NFWFMD	JC-02	Indian Springs Sewer Extension Phase 2A	Phase 2A includes Magnolia Blossom, Oak Dr., and part of Seminole Dr. segments (convert 89 residential systems to sewer).	Wastewater Service Area Expansion	Planned	TBD	695	N/A	Jackson County	Not provided	\$2,000,000	N/A	DEP	\$2,000,000	S0866
Jackson County	DEP/ NFWFMD	JC-03	Blue Spring Rd. Sewer Extension	Provide central sewer service to Blue Springs Recreational Area and 74 homes in Blue Springs area. Project also includes removing public park septic system at Jackson Blue Spring and providing sewer service to homes adjacent to Merritt's Mill Pond.	Wastewater Service Area Expansion	Underway	2020	838	N/A	Jackson County	Not provided	\$3,566,749	N/A	DEP	\$3,566,749	LP01105
Jackson County	N/A	JC-04	Jackson Blue Spring Recreation Area Improvements	Stormwater improvements.	BMP Treatment Train	Underway	Not provided	Not provided	Not provided	Jackson County	Not provided	Not provided	Not provided	Not provided	Not provided	N/A
Jackson County	DEP/ Local	JC-05	Jackson Blue Spring Recreation Area Stormwater Improvement Project	Design and construct stormwater management system to capture and treat stormwater at Jackson Blue Spring. Project	Stormwater System Upgrade	Underway	2021	TBD	N/A	Jackson County	TBD	\$751,200	Not provided	DEP/ Local Match	DEP – \$729,200 Local – \$22,000	LP0110C

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lb-N/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				will also stabilize and restore 250 to 300 LF of shoreline.												
Jackson County	N/A	JC-06	Education	Landscape ordinance; implementation of FYN Program.	Education Efforts	Completed	2017	120	N/A	Jackson County	N/A	N/A	N/A	N/A	N/A	N/A
NWFWMD	DEP/ Agricultural Producers	NWF-01	Agricultural BMPs and Equipment Cost-Share Program	Cost-share funding for agricultural BMPs and equipment to improve water use efficiency and reduce nutrient loading. Assisted 50 producers through 2017. 20 % reduction in TN reported. Cost estimate is cumulative since FY 2013-14.	Agricultural BMPs	Underway	TBD	TBD	TBD	Basinwide	N/A	\$6,698,595	\$0	DEP/ FDACS/ Jackson SWCD	DEP – \$4,239,500 Producers Match – \$1,959,095	S0676, S0809, S0809 A1, LP01106
NWFWMD	DEP	NWF-02	Blue Springs Plantation, Inc.	Fee-simple acquisition and protection of 394 ac adjacent to Jackson Blue Spring.	Land Acquisition	Canceled	N/A	N/A	N/A	Jackson County	N/A	N/A	N/A	N/A	N/A	N/A
NWFWMD	DEP	NWF-03	Lakeshore Farms II, LLC	Fee simple or less-than-fee acquisition and protection of 598 agricultural acres in Jackson Blue groundwater contributing area.	Land Acquisition	Canceled	N/A	N/A	N/A	Jackson County	N/A	N/A	N/A	N/A	N/A	N/A
NWFWMD	DEP	NWF-04	Pittman Property Land Acquisition	Less-than-fee acquisition and protection of 167 agricultural acres in Jackson Blue groundwater	Land Acquisition	Underway	2018	N/A	N/A	Jackson County	167	\$686,568	TBD	DEP	\$686,568	S0900

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lb-N/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				contributing area.												
NWFWMD	EPA/ Agricultural Producers	NWF-05	Sod-Based Crop Rotation Grant Program	Grants to producers to rotate sod in existing crop fields to improve water quality and reduce water use demands around Jackson Blue Spring.	Agricultural BMPs	Underway	2022	TBD	N/A	Jackson County	TBD	\$806,032	N/A	EPA/ DEP/ Producers/ NWFWMD	EPA/DEP – \$480,032 NWFWMD – \$256,000 Producers – \$70,000	NF021
NWFWMD	National Fish and Wildlife Foundation (NFWF)/ Stakeholders	NWF-06	Apalachicola River and Bay Surface Water Improvement and Management (SWIM) Plan	Implementation and periodic review and update of Apalachicola SWIM Plan.	Study	Completed	2017	N/A	N/A	Apalachicola Watershed	N/A	\$99,290	N/A	NFWF	\$99,290	N/A
NWFWMD	DEP	NWF-07	Claiborne Aquifer Water Supply	Testing of Claiborne aquifer in Jackson Blue Spring contributing area to determine viability as alternative water source to offset demand on Floridan aquifer.	Study	Underway	2018	N/A	N/A	Malone	N/A	\$440,000	\$0	DEP	\$440,000	S0809
NWFWMD	FDACS/ NRCS	NWF-08	Mobile Irrigation Laboratory	Annual contract to support water quantity evaluations and retrofits with producers across NWFWMD, but largely concentrated in Jackson County.	Agricultural BMPs	Underway	TBD	N/A	N/A	Jackson County	N/A	\$745,063	N/A	NWFWMD	\$745,063	N/A
NWFWMD	UF-IFAS	NWF-09	Sod-Based Crop Rotation Education	Annual contract to provide education and outreach in NWFWMD jurisdiction on sod-based crop rotation.	Agricultural BMPs	Underway	TBD	N/A	N/A	Jackson County	N/A	\$543,000	N/A	NWFWMD	\$543,000	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lb-N/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
NWFWMD	Agricultural Producers	NWF-10	BMPs	BMPs implmented as part of WMD FY 2013-14 funding cycle.	Agricultural BMPs	Completed	2014	5,400	N/A	Jackson County	Not provided	Not provided	Not provided	NWFWMD	Not provided	N/A
UF-IFAS	DEP/ NWFWMD	IFAS-01	Sod-Based Crop Rotation Pilot Project	Demonstration project for up to 4 sod farms to improve water quality and quantity over 4-yr period.	Agricultural BMPs	Underway	2018	TBD	TBD	Jackson County	TBD	\$806,032	N/A	DEP/ NWFWMD/ Agricultural Producers	DEP – \$480,032 NWFWMD – \$256,000 Agricultural Producers – \$70,000	Not provided
Town of Malone	DEP/ NWFWMD	TM-01	Malone High School Sanitary Sewer Connection Project	Connect Malone High School to Malone WWTP, abandoning 10 septic systems.	Wastewater Service Area Expansion	Underway	2020	90	N/A	Jackson County	N/A	\$432,077	N/A	DEP	\$432,077	LP0110D

Rainbow Springs BMAP

Background

The Rainbow Springs BMAP Basin covers an area of 679 square miles and includes portions of Marion and Levy Counties (**Figure B-2**). The BMAP area approximates the extent of the groundwater capture area determined by SWFWMD and includes the surface drainage for the Rainbow River. The eastern boundary of the BMAP area coincides with the western extent of the Silver Springs BMAP area and I-75.

DEP identified Rainbow Springs Group and the Rainbow Springs Group Run as impaired for nutrients because of an imbalance of flora and fauna evidenced by excessive algal growth and smothering of submerged aquatic vegetation (SAV). In 2013, DEP adopted the Rainbow Springs Group and Rainbow Springs Group Run TMDLs, which established a target concentration of 0.35 mg/L nitrate (NO₃ as N) and an 82 % reduction in nitrate concentration for each impaired waterbody. The Rainbow Springs BMAP was adopted in December 2015 to implement the TMDLs.

Status of Projects

Through December 31, 2017, 75 projects have been completed. An additional 10 projects that are underway or planned have been added to the BMAP. The projects completed to date are estimated to achieve total reductions of 40,720 lbs/yr of TN at the land surface.

Additional information will be provided when the OFS BMAP reaches its 5-, 10-, and 15-year milestones. If the milestones or the 20-year target will not be met, an explanation of possible causes and potential solutions will be provided. These milestones will be specified in a revised BMAP document. The revised Rainbow Springs BMAP is scheduled to be readopted by July 1, 2018, to meet the statutory requirements added by the 2016 Florida Legislature.

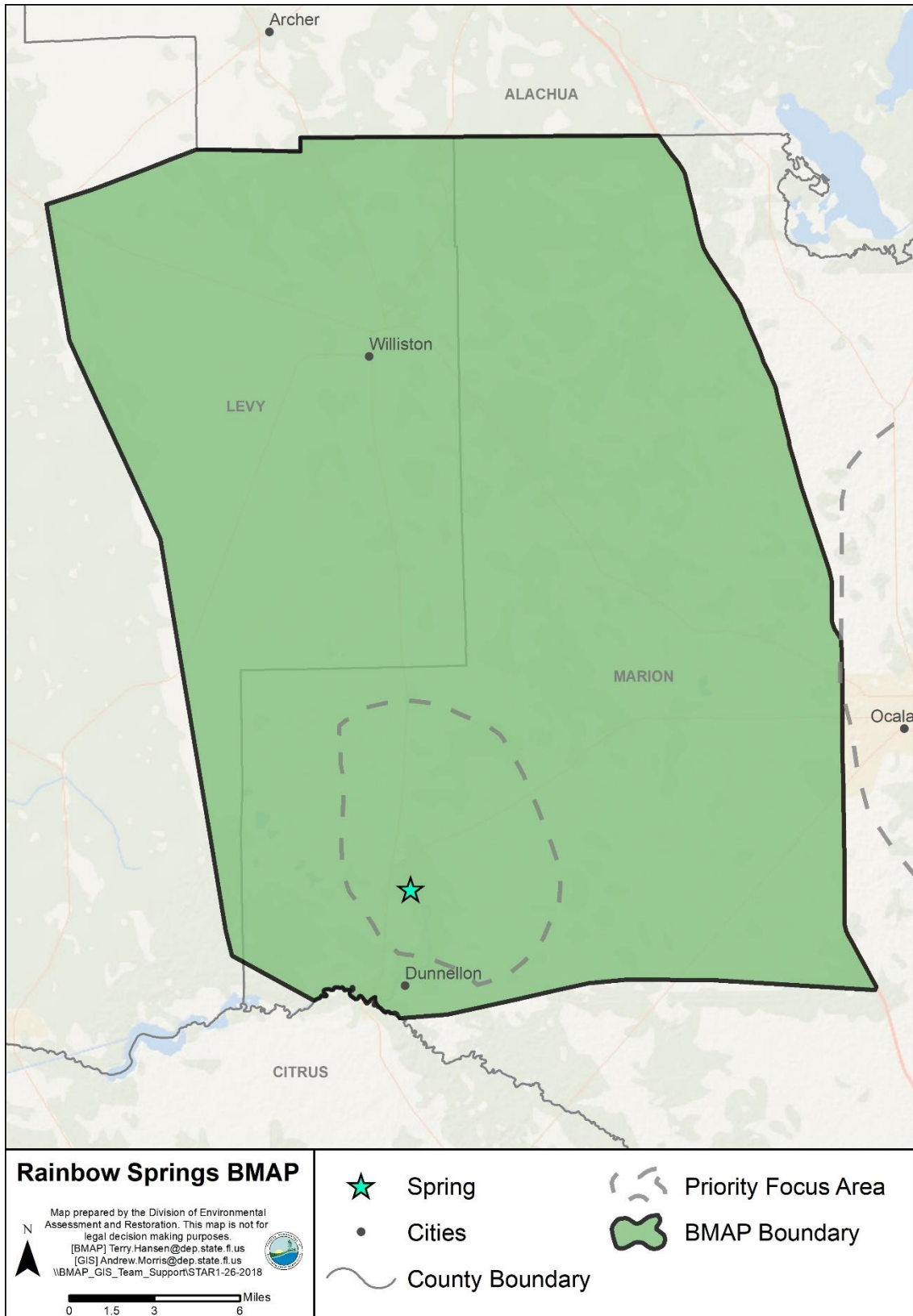


Figure B-2. Rainbow Springs BMAP area

Table B-2. Rainbow Springs BMAP Projects

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Marion County Growth Services	N/A	B001	Marion County Transfer of Development Rights (TDR)	TDR Program is designed to protect natural resources, especially those listed in Policy 1.1.2 of Conservation Element of Marion County Comprehensive Plan and locally important and prime farmlands in Marion County. These resources include, but are not limited to, preservation of high-water recharge and underground drainage basins, springs, karst areas, sinkholes, sinks, sinkhole ponds, and other karst features. Land from which development rights are transferred is subject to conservation easement. Article 3 of Land Development Code (LDC) defines TDR Program and eligible sending and receiving areas.	Study	Completed	Not provided	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	N/A	Not provided	Not provided	N/A
Marion County Growth Services	N/A	B002	Marion County Transfer of Vested Rights (TVR)	TVR Program is designed to minimize dense development of vested properties without central water and sewer systems, and/or other supporting infrastructure, and thus protect natural resources, encourage and enhance development of larger parcels, reduce county's inventory of vested properties, and permit county to better plan for future growth. Land from which vested rights are transferred is subject to conservation easement. Article 3 of LDC defines TVR Program and eligible sending and receiving areas.	Study	Completed	Not provided	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	N/A	Not provided	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Marion County Growth Services	N/A	B003	Marion County Hamlet Design Option	Comprehensive Plan Future Land Use Element Policy 2.1.13 establishes Hamlet Development Option, designed to provide for clustered low-density development patterns in rural designated lands, while requiring permanent open spaces reserved from development and some increased additional urban services (e.g., central water, central sewer, designed/constructed stormwater systems) that comply with Marion County's design and development standards, including Springs Protection. Article 3 of LDC generally defines Hamlet design provisions.	Study	Completed	Not provided	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	N/A	Not provided	Not provided	N/A
Marion County Growth Services	N/A	B004	Marion County Rural Community Land Use Designation	Comprehensive Plan Future Land Use Element Policy 2.1.18 establishes Rural Community future land use designation to provide for clustered urban density development patterns in rural designated lands, while requiring permanent open spaces reserved from development and complete urban services (e.g., central water, central sewer, and designed/constructed stormwater systems) that comply with Marion County's design and development standards, including Springs Protection. Article 3 of LDC generally defines Rural Community design provisions.	Study	Completed	Not provided	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	N/A	Not provided	Not provided	N/A
Marion County Growth Services	N/A	B005	Marion County Community Redevelopment Area Program	Comprehensive Plan Future Land Use Element Objective 2.2 establishes specific limited density and specialized design standards for wetland and floodplain areas slated for development. Articles 5 and 6 of LDC set forth specific design	Study	Completed	Not provided	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	N/A	Not provided	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				and development criteria related to applicable areas.												
Marion County Growth Services	N/A	B006	Marion County Springs Protection Zones	Comprehensive Plan Future Land Use Element Objective 7.2 establishes Springs Protection Overlay Zones (SPOZ) and identifies extent of Primary and Secondary Zones along with other design and development standards. Articles 5 and 6 of LDC set forth specific design and development criteria related to applicable SPOZ.	Study	Completed	Not provided	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	N/A	Not provided	Not provided	N/A
Marion County Office of the County Engineer	N/A	B007	Marion County Irrigation Ordinance	Ordinance sets enforceable irrigation schedule and rates of irrigation for Marion County; also identifies efficient irrigation systems that are exempt from schedule.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	Not provided	Marion County	Not provided	N/A
Marion County Office of the County Engineer	N/A	B008	Marion County Fertilizer Ordinance	County's Florida-Friendly Landscaping™ (FFL) fertilizer use on urban landscapes ordinance regulates proper use of fertilizers by any applicator; requires proper training of commercial and institutional fertilizer applicators; establishes training and licensing requirements; and specifies allowable fertilizer application rates and methods, fertilizer-free zones, low-maintenance zones, and exemptions. It requires use of BMPs that provide specific management guidelines to minimize negative secondary and cumulative environmental effects associated with misuse of fertilizers. 2008 ordinance is now included in latest LDC.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	Not provided	Marion County	Not provided	N/A
Florida Forest Service	N/A	B009	Silviculture BMP Implementation and Compliance	Covers silviculture lands in Rainbow and Silver Springs BMAP areas. BMPs for silviculture are applicable to public and private industrial and nonindustrial forestlands. Silviculture BMPs are minimum standards for protecting and maintaining water quality during ongoing silviculture activities,	Agriculture BMPs	Completed	N/A	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	Not provided	Not provided	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				including forest fertilization. Projects include biennial BMP surveys, targeted training, and technical assistance for landowners and forestry professionals.												
Marion County Office of the County Engineer	N/A	B010	Clean Farms Initiative	Clean Farms Initiative was designed to assist Marion County farm owners and managers with implementation of BMPs, and to recognize them for their cooperative efforts. As part of initiative, more than 7,500 surveys and brochures were mailed in October 2006 to owners of agricultural land, ranging from large operations of several hundred acres to small tracts of land with fewer than a dozen animals. Survey measures current manure management and fertilization practices. Results of survey, and input from groups held in February and March 2007, were used to create Farm Outreach Coordinator position to educate horse farm owners and managers on water quality, targeting practices such as manure management and fertilization.	Agriculture BMPs	Completed	N/A	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	Not provided	Not provided	Not provided	N/A
UF-IFAS Extension Marion County	SWFWMD/UF-IFAS	B011	Water Quality Education and Equine Farm BMPs	Equine BMPs and Manure Management Education and Outreach Program sponsored by UF-IFAS Extension and Marion County. Between 2010 and 2013, program developed 44 types of educational materials; made 3,507 client consultations, 464 of which were in field; and 301 producers participated in group education events including manure management summit and tour. Program website received 446 views during this period. Program is ongoing.	Agriculture BMPs	Completed	N/A	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	Not provided	UF-IFAS	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
DEP	TBD	B012	Implementation of Outreach Program for Small Equine BMP Manual	Small Equine BMP manual is intended to educate owners of noncommercial horse farms on BMPs to reduce nutrient loads. Outreach program will be developed for effective implementation of BMPs on noncommercial horse farms in Silver and Rainbow Springs BMAP areas. Implementation program will consist of identification of key agencies with existing public education activities where BMP manual can be incorporated, development or modification of existing recognition programs to provide measureable goals for both participants and also types of BMPs implemented, and identification of existing cost-share programs that may assist noncommercial operations in BMP implementation.	Agriculture BMPs	Completed	N/A	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	Not provided	Not provided	Not provided	N/A
FDOT District 5	N/A	B022	State Road (SR) 40 Design Project – Pond 3	238719-1, SR 40 from CR 328 to SW 80th Ave. (CR 225A) – Pond 3/dry retention; closed basin in poorly drained soils.	Retention BMP	Underway	2020	12	2	WBID 1320A – Outside PFA	9.0	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	B023	SR 40 Design Project – Pond 4	238719-1, SR 40 from CR 328 to SW 80th Ave. (CR 225A) – Pond 4/dry retention; closed basin in poorly drained soils.	Retention BMP	Underway	2020	16	2	WBID 1320A – Outside PFA	12.5	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	B024	SR 40 Design Project – Pond 5	238719-1, SR 40 from CR 328 to SW 80th Ave. (CR 225A) – Pond 5/dry retention; closed basin in poorly drained soils.	Retention BMP	Underway	2020	14	2	WBID 1320A – Outside PFA	10.9	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	B025	SR 40 Design Project – Pond 6	238719-1, SR 40 from CR 328 to SW 80th Ave (CR 225A) – Pond 6/dry retention; closed basin in poorly drained soils.	Retention BMP	Underway	2020	12	2	WBID 1320A – Outside PFA	9.3	Not provided	Not provided	Florida Legislature	Not provided	N/A
Marion County Office of the County Engineer	SWFWMD	B028	SW 85th St./ SW 40th Ave. Stormwater Retrofit	Construction of drainage retention area lined with Bold and Gold™ soil amendment to enhance nitrogen removal. Post-construction event monitoring has shown 70 % reduction in TN through soil amendment layer.	Retention BMP with Nutrient-Reducing Media	Completed	2012	98	N/A	WBID 1320A – Outside PFA	32.0	\$330,000	Not provided	Marion County Stormwater Assessment, SWFWMD Cooperative Funding	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Marion County Office of the County Engineer	SWFWMD	B029	West Hwy. 316 at 119th Ave. Stormwater Retrofit- CP #41	Proposed project to construct wet retention area to reduce nitrate in stormwater runoff from transportation and residential land uses that is currently infiltrating to aquifer without treatment. Project is identified in adopted 2014 Stormwater Implementation Plan.	Retention BMP	Completed	2016	29	0	WBID 1320A – Outside PFA	55.6	\$52,654	Not provided	Marion County Stormwater Assessment, SWFWMD Cooperative Funding	Not provided	N/A
Marion County Office of the County Engineer	N/A	B030	West Hwy. 316 at Hwy. 329 Stormwater Retrofit	Proposed project to construct retention area to reduce nitrate in stormwater runoff from transportation and residential land uses that is currently infiltrating to aquifer without treatment. Project is identified in adopted 2014 Stormwater Implementation Plan.	Retention BMP	Canceled	N/A	N/A	N/A	WBID 1320A – Outside PFA	N/A	N/A	N/A	N/A	N/A	N/A
Marion County Office of the County Engineer	N/A	B032	Sinkhole Repair Program in County DRAs	Part of ongoing stormwater system maintenance activities. Performed as needed by county crews or contractors depending on size and scope of repair.	Stormwater System O&M	Completed	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	N/A	\$50,000	Marion County: Annual Stormwater Budget for Internal Repairs – \$50,000; Typical Annual Expenditure for Contracted Repairs from Stormwater Budget – \$10,000 to \$100,000	Not provided	N/A
Marion County Office of the County Engineer	N/A	B033	Street Sweeping of Marion County Roads	Sweeping of Marion County–maintained roads. Sweeping of roads with curb and gutter is completed 9 times per year. Benefits: Remove debris, sediment, and potential pollutants from streets. Prevent entry into storm sewer system.	Street Sweeping	Completed	N/A	194	124	WBID 1320A – including PFA	N/A	N/A	\$46,000	Marion County Stormwater Assessment	Not provided	N/A
Marion County Office of the County Engineer	SWFWMD	B034	Marion County Watershed Management Plan (WMP)	Countywide WMPs prepared that include creation and maintenance of comprehensive geodatabase for Marion County storm sewer system data, watershed boundaries, and hydrologic features.	Study	Completed	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	\$337,000	N/A	Marion County Stormwater Assessment/ SWFWMD	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Marion County Office of the County Engineer	N/A	B035	Marion County Aquifer Vulnerability Assessment	Identification of vulnerable areas of aquifer. Project provided scientifically defensible water resource management and protection tool that facilitates planning of human activities to help minimize adverse impacts on groundwater quality. Aquifer vulnerability maps are displayed in classes of relative vulnerability (one area is more vulnerable than another). Maps benefit local government, planners and developers in guiding growth into more appropriate areas (e.g., groundwater recharge areas) and improve site selection for expanding existing or establishing new well fields. Benefits: Identifies areas where aquifer is vulnerable to pollution. Potential for future management of activities in those areas to reduce groundwater pollution.	Study	Completed	2007	N/A	N/A	WBID 1320A – including PFA	N/A	\$82,850	N/A	Marion County Stormwater Assessment	\$82,850	N/A
Marion County Office of the County Engineer	Not provided	B036	Public Education Coordination	Formation of public education coordination team consisting of representatives from local government, state agencies, WMDs, and local interest groups. Purpose of groups would be to ensure consistent and accurate information on pollution prevention is provided to citizens and maximize efforts among coordination team members.	Education Efforts	Completed	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Local, State and Federal Agencies/ WMDs/ Local Interest Groups	Not provided	N/A
Marion County Office of the County Engineer	N/A	B037	Marion County Stormwater Program – NPDES MS4 Permit	Public outreach and education programs including distribution of informational pamphlet, PSAs, and public outreach events. Other efforts include illicit discharge inspection and education, mapping and modeling efforts, construction site pollution prevention program, and pollution	Education Efforts	Completed	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	\$3,500,000	Marion County Stormwater Assessment	Not provided	N/A

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				prevention program for municipal operations.												
FDOT Districts 2 and 5	N/A	B038	FDOT Public Education	FDOT conducts inspections and provides annual illicit discharge, spill prevention and erosion and sediment control training to staff and contractors.	Education Efforts	Completed	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Florida Legislature	Not provided	N/A
Rainbow River Conservation	N/A	B039	Springs Awareness for Educators	Workshop for Marion County teachers and educators to provide resources on springs, water issues, and wildlife that can be used in classroom to enhance teaching common core standards.	Education Efforts	Completed	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	SWFWMD/ Florida Springs Institute	Not provided	N/A
Private Interest	N/A	B040	Collection Center for Septic System Pumpage	Proposed project to construct centralized collection center for septic tank pumpage in lieu of current land application. Collection center would process pumpage and discharge into municipal collection system. Project is conceptual. SB 550 would ban land application of septic pumpage effective 2016.	Wastewater Service Area Expansion	Canceled	N/A	N/A	N/A	Rainbow River Basin and Silver Spring Basin	N/A	N/A	N/A	N/A	N/A	N/A
FDACS	N/A	B041	FDACS Cost-Share Programs	FDACS will provide at least \$250,000 in BMP cost-share for Silver Springs/Rainbow Springs BMAP areas.	Agriculture BMPs	Underway	2020	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	FDACS Cost-Share	Not provided	N/A
FDACS	N/A	B042	FDACS Refinement of Appropriate BMPs	To help focus cost-share expenditures and BMP implementation follow-up, FDACS will review rule-adopted cow/calf and equine BMPs to identify practices likely to have greatest nutrient load reduction benefits.	Agriculture BMPs	Underway	2020	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Not provided	Not provided	N/A
UF-IFAS Extension Marion County	N/A	B043	Technical Agriculture Committee	Formation of technical agriculture committee consisting of representatives from local interest groups, local government, WMDs, and state agencies. Purpose of the group would be to ensure consistent and accurate information for pollutant load contribution associated with agricultural uses and evaluate BMP effectiveness.	Agriculture BMPs	Underway	2020	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Not provided	Not provided	N/A

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UF-IFAS Extension Marion County	N/A	B044	Assessment of Role of Beef Cattle in Nitrogen Loading in Silver and Rainbow Springs Basin	As part of BMAP, inventories have been developed to estimate relative nitrogen loading from different sources or categories of land use in basins. Concerns have been expressed that amount of nitrogen load allocated to cattle may not accurately reflect key characteristics of Florida cow-calf production system. Issues include typical cattle stocking rates on pasture, low inputs of commercial nitrogen fertilizer to pasture systems, diets that based on C4 (i.e., warm climate) grasses that have relatively low nitrogen concentration, nitrogen levels in dung and urine that are not comparable to those of dairy animals or beef cattle on feedlots, significant gaseous losses of nitrogen from animal waste, capability of grass roots to efficiently capture nitrogen as it passes through rooting zone, and amount of nitrogen stored in below-ground organs of pasture grasses. More accurate quantification of these characteristics for specific conditions of regional production systems will aid assessments of nitrogen loading from cattle operations.	Study	Underway	2019	N/A	N/A	WBID 1320A – including PFA	N/A	\$495,000	N/A	Florida Legislature	Not provided	N/A
FDACS	N/A	B045	Revised Vegetable and Agronomic Crop BMP Manual	In 2015, FDACS Office of Agricultural Water Policy (OAWP) adopted revised vegetable and agronomic crop manual that includes specific nutrient and irrigation management BMPs for plastic mulch, bare ground, sugar cane, hay/silage, and greenhouse production systems.	Agriculture BMPs	Completed	2015	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Not provided	Not provided	N/A
FDACS	N/A	B046	Dairy BMP Manual	In early 2016, FDACS adopted dairy manual targeting dairies without DEP-issued NPDES permits.	Agriculture BMPs	Completed	2016	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Not provided	Not provided	N/A

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FDACS	N/A	B047	Poultry BMP Manual	OAWP adopted poultry BMP manual in June 2016.	Agriculture BMPs	Completed	2016	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Not provided	Not provided	N/A
FDACS	N/A	B048	Enhanced Implementation Assurance (IA) Program	<p>Additional emphasis was given to IA in 2016 legislation, particularly Chapter 2016-1, Laws of Florida. Among its provisions, law requires enhancement and formalization of OAWP IA policies and procedures through rulemaking, which will be initiated prior to January 1, 2017. Once rulemaking is completed, FDACS will implement enhanced IA Program and more detailed reporting, as prescribed by legislation, onsite visits, and surveys will be provided annually. Enhanced IA Program, as component of FDACS BMP Program, will be designed to:</p> <ul style="list-style-type: none"> • Provide accurate and timely information on status of BMP enrollments. • Provide accurate and timely information on extent of BMP implementation. • Provide information from which reports on BMP enrollment and implementation can be made to BMAP stakeholders and to annual report required by Chapter 2016-1, Section 34, Laws of Florida. • Inform educational, research, and technical assistance efforts targeted to strengthen BMP implementation and effectiveness. • Guide review and potential revision of BMP manuals. 	Agriculture BMPs	Underway	2018	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocala	N/A	B049	Fox Meadow Sewer Expansion Project	Project objective is to design and construct sanitary sewer system that will remove from service 275 septic tanks from associated single-family residential lots. Septic tanks	Septic Tank Phase Out, Wastewater Service Area Expansion	Planned	2020	TBD	N/A	Rainbow Springs Basin and Silver Springs Basin	N/A	\$4,705,000	Not provided	City of Ocala	Not provided	Not provided

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				contribute to TN and TP impairment of Rainbow Springs and Rainbow River.												
City of Ocala	N/A	B050	Fairfield Village Sewer Expansion Project	Project objective is to design and construct sanitary sewer system to remove from service package plant serving 350 mixed-use residential lots and 1 community center. Package plant contributes to TN and TP impairment of Rainbow Springs and Rainbow River.	Package Plant Phase Out, Wastewater Service Area Expansion	Planned	2020	TBD	N/A	Rainbow Springs Basin and Silver Springs Basin	N/A	\$875,000	N/A	City	Not provided	Not provided
City of Ocala	N/A	B051	Timberwood Sewer Expansion Project	Project objective is to design and construct sanitary sewer system that will remove from service 180 septic tanks from associated single-family residential lots. Septic tanks contribute to TN and TP impairment of Rainbow Springs and Rainbow River.	Septic Tank Phase Out, Wastewater Service Area Expansion	Planned	2020	TBD	N/A	Rainbow Springs Basin and Silver Springs Basin	N/A	\$3,316,000	Not provided	City	Not provided	Not provided
City of Dunnellon	N/A	R001	River Protection Corridors	City of Dunnellon River Protection Corridor Areas for both Rainbow and Withlacoochee Rivers. Corridor extends 150 ft from ordinary high-water line and implements specific standards for new development and for construction on existing lots with vested development rights after 2008.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Rainbow Spring Basin	N/A	Not provided	Not provided	Marion County	Not provided	N/A
DEP – Division of State Lands	FCT	R002	Rainbow River Corridor	Rainbow River Corridor project will protect most undeveloped or minimally developed private land remaining along Rainbow River. Southern parcels would bring remaining large portion of undeveloped shoreline along eastern side of river into state ownership and provide connection to southern end of Rainbow Springs State Park. Public acquisition will prevent further development and conflicting land uses that could further degrade ecological value of this area. In addition, potential restoration of altered habitats will help restore and	Land Acquisition	Completed	N/A	N/A	N/A	Rainbow Spring Basin	1,175.0	\$1,157,483	Not provided	FCT	Not provided	N/A

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				maintain water quality and habitat along one of Florida's largest spring-run streams; 1,140 ac remain for acquisition, which will continue as funds and sales agreements allow; 32.44 ac were acquired for Blue Run of Dunnellon Park (R013) in 2008.												
City of Dunnellon	SWFWMD	R003	Blue Cove Emergency Overflow Project	Project to construct retention pond with control structure and pipe conveyance system to treat and convey flood overflows from Blue Cove to Rainbow River. Prior to construction, overflows sheet flowed through residential neighborhood to river.	Retention BMP	Completed	2011	Not provided	N/A	WBID 1320B – Outside PFA	Not provided	Not provided	Not provided	City	Not provided	N/A
City of Dunnellon	N/A	R004	Datesman Park Overflow Parking Lot Improvement	Project retrofitted car and boat trailer overflow parking lot with pervious pavers and stormwater retention pond.	Retention BMP	Completed	2010	Not provided	N/A	WBID 1320B – Outside PFA	Not provided	Not provided	Not provided	City	Not provided	N/A
Marion County Office of the County Engineer	SWFWMD	R011	Village of Rainbow Springs Stormwater Retrofit	Retrofit of existing drainage retention area with aerobic filtration cells for conversion of TN to nitrate and infiltration cell lined with Bold and Gold™ for nitrate removal. Project also includes stormwater wetland to treat runoff discharged into Section 16 lake.	Wetland Treatment, Retention BMP with Media Filter	Completed	2015	29	N/A	WBID 1320A – Outside PFA	91.0	\$336,800	Not provided	County Stormwater Assessment, SWFWMD	Not provided	N/A
Marion County Office of the County Engineer	SWFWMD	R012	CR 484 Stormwater Retrofit, Phase 1	Construction of bioretention area and collection system to treat runoff from bridge spanning Rainbow River.	Retention BMP	Completed	2010	5	1	WBID 1320B – Outside PFA	0.5	\$62,081	Not provided	County Stormwater Assessment, SWFWMD	Not provided	N/A
Marion County Office of the County Engineer	SWFWMD	R013	CR 484 Stormwater Retrofit, Phase 2	Construction of wet detention pond to treat runoff discharged into Rainbow River from CR 484.	Wet Detention Pond	Completed	2012	48	11	WBID 1320B – Outside PFA	18.6	\$73,890	Not provided	County Stormwater Assessment, SWFWMD	Not provided	N/A
Marion County Office of the County Engineer	SWFWMD, Marion County Parks, City of Dunnellon	R014	CR 484 Stormwater Retrofit, Phase 3	Upgrade limerock parking lot in Blue Run of Dunnellon Park with pervious brick paver parking area and paved aisles to address sediment discharge into Rainbow River. Three wet detention ponds were constructed to treat stormwater runoff from new parking lot and CR 484 east of Rainbow River.	Wet Detention Pond	Completed	2011	6	1	WBID 1320B – Outside PFA	2.7	\$223,700	Not provided	County Stormwater Assessment, County Parks, SWFWMD	Not provided	N/A

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Marion County Office of the County Engineer	SWFWMD	R015	Rainbow Springs Country Club Estates Stormwater Retrofit	Expansion and conversion of existing retention pond to wetland/wet retention pond to enhance nitrate removal from runoff generated from county road, golf course, and residential land uses.	Wetland Treatment	Completed	2012	10	N/A	WBID 1320A – In PFA	61.7	\$136,423	Not provided	County Stormwater Assessment, SWFWMD	Not provided	N/A
Marion County Office of the County Engineer	SWFWMD	R016	Rainbow Park Unit 8 Stormwater Retrofit	Construction of 3 wet detention ponds to treat runoff prior to discharge to relict karst feature and isolated surface wetlands.	Wet Detention Pond	Completed	2013	42	8	WBID 1320A – Outside PFA	79.0	\$443,399	Not provided	County Stormwater Assessment, SWFWMD	Not provided	N/A
Marion County Office of the County Engineer	SWFWMD	R017	Rolling Hills Unit 5 Stormwater Retrofit	Construction of interconnected system of 4 retention ponds and 1 wet retention pond to treat stormwater runoff from roads, residential, and agricultural land uses.	BMP Treatment Train	Completed	2013	69	33	WBID 1320A – Outside PFA	224.0	\$484,097	Not provided	County Stormwater Assessment, SWFWMD	Not provided	N/A
SWFWMD	N/A	R018	WR01 Rainbow River Phosphate Mine Pit Restoration	Implementation of restoration alternatives in Lower Rainbow River and adjacent phosphate mine pits.	Restoration	Canceled	N/A	N/A	N/A	WBID 1320B – In PFA	N/A	N/A	N/A	N/A	N/A	N/A
City of Dunnellon	Not provided	R019	Sewer Conversion Project, Phases 1-4	Project constructed new sewer system within city limits allowing properties previously on OSTDS (140 in Phase 2) to hook up to central sewer.	Septic Tank Phase Out, Wastewater Service Area Expansion	Completed	2012	3,347	N/A	WBID 1320A – Outside PFA	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
SWFWMD	Not provided	R020	P301 Feasibility Phase – Wastewater Disposal Treatment Wetlands	Siting and feasibility assessment for treatment wetlands to polish WWTP effluent.	Study	Completed	2015	Not provided	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
FDOT Districts 2 and 5	N/A	R021	Fertilizer Cessation	FDOT O&M fertilizer cessation.	Fertilizer Cessation	Completed	N/A	10,285	N/A	WBID 1320A – including PFA	N/A	N/A	N/A	N/A	N/A	N/A
City of Dunnellon	Marion County, SWFWMD	R022	Dunnellon WMP	Includes hydrologic and hydraulic model and water quality treatment recommendations for 9 stormwater discharge outfalls to Rainbow and Withlacoochee Rivers.	Study	Completed	2004	N/A	N/A	WBID 1320A/B – Outside PFA	N/A	\$50,000	N/A	City	\$50,000	N/A
SWFWMD	N/A	R023	WR01 Rainbow River Phosphate Mine Pit Feasibility Study	Feasibility study to assess restoration alternatives in lower Rainbow River and adjacent phosphate mine pits.	Study	Canceled	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	N/A	N/A	N/A	N/A	N/A
SWFWMD	Florida Irrigation Society	R024	Efficient Irrigation Workshops	Community presentations on efficient irrigation practices.	Education Efforts	Completed	2005	N/A	N/A	WBID 1320A –	N/A	\$2,500	N/A	SWFWMD	\$2,500	N/A

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										including PFA						
SWFWMD	UF; Charlotte, Citrus, Hernando, Hillsborough, Manatee, Marion, Pasco, Pinellas, Polk, Sarasota, and Sumter Counties	R025	FFL Coordinator	FFL Program educates homeowners about how to design, install and maintain healthy landscapes that use minimal amounts of water, fertilizer, and pesticides. SWFWMD funds programs in 11 of its 16 counties in partnership with county governments and university.	Education Efforts	Completed	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	\$279,000	N/A	SWFWMD	\$279,000	N/A
SWFWMD	N/A	R026	Restoring Our Springs! Media Campaign	PSAs to promote SWFWMD "Restoring Our Springs!" media campaign. Advertising will be in Citrus, Hernando and Marion Counties and will direct people to "Join us in the community effort to restore our springs."	Education Efforts	Completed	2016	N/A	N/A	WBID 1320A – including PFA	N/A	\$35,698	N/A	SWFWMD	\$35,698	N/A
SWFWMD	N/A	R027	Newspaper in Education: Springs in West-Central Florida	In-depth look at springs in west-central Florida through Newspaper in Education produced by Tampa Bay Times. Distributed to middle school students in Citrus, Hernando, and Marion Counties as well as Tampa Bay Times and Citrus County Chronicle readers.	Education Efforts	Completed	2014	N/A	N/A	WBID 1320A – including PFA	N/A	\$16,600	N/A	SWFWMD	\$16,600	N/A
SWFWMD	N/A	R028	Crystal River/ King's Bay/ Rainbow River PSAs	Messaging on how residents can help protect quality of local springs through proper application of fertilizer. Social research was used to help develop messages.	Education Efforts	Completed	2011	N/A	N/A	WBID 1320A – including PFA	N/A	\$83,641	N/A	SWFWMD	\$83,641	N/A
SWFWMD	N/A	R029	Crystal River/ King's Bay/ Rainbow River Outreach Coordinator	Education effort to reduce water quality impacts from landscaping and other homeowner practices—such as overfertilization and leaking OSTDS—that increase nitrates in springs. Targeted homeowners, landscape professionals, retail outlets, OSTDS maintenance companies and others. Included education effort entitled, "You want your lawn green, not your water. Don't overfertilize."	Education Efforts	Completed	2011	N/A	N/A	WBID 1320A – including PFA	N/A	\$82,600	N/A	SWFWMD	\$82,600	N/A

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SWFWMD	N/A	R030	Marion County Springs Festival Sponsorship	Event to educate public on protection of Marion County springs and other water resources. Event alternates between Rainbow Springs State Park and Silver Springs State Park.	Education Efforts	Completed	2016	N/A	N/A	WBID 1320A – including PFA	N/A	\$25,598	N/A	SWFWMD	\$25,598	N/A
SWFWMD	N/A	R031	Marion County Master Gardeners Spring Festival Sponsorship	Festival supporting FFL outreach and education including focus on water conservation, watersheds, and water quality.	Education Efforts	Completed	2011	N/A	N/A	WBID 1320A – including PFA	N/A	\$30,750	N/A	SWFWMD	\$30,750	N/A
SWFWMD	Howard T. Odum Florida Springs Institute	R032	Springs Awareness Week – Springs Neighborhood Challenge	One-day workshop taught participants about water quality issues specific to Rainbow Springs and Crystal River/Kings Bay. Main focus was proper fertilizer application.	Education Efforts	Completed	2011	N/A	N/A	WBID 1320A – including PFA	N/A	\$3,000	N/A	SWFWMD	\$3,000	N/A
SWFWMD	Marion County UF-IFAS Extension Office	R033	Get Out and Explore Marion County Springs	Guided canoe trip, hiking trip, and water quality demonstration to educate residents about aquatic ecology, karst geology, native and invasive plants, water sampling and human impacts to springs.	Education Efforts	Completed	2012	N/A	N/A	WBID 1320A – including PFA	N/A	\$1,945	N/A	SWFWMD	\$1,945	N/A
SWFWMD	Marion County UF-IFAS Extension Office	R034	Marion County Earth Day	One-day event educated Marion County residents about springs and water quality protection.	Education Efforts	Completed	2011	N/A	N/A	WBID 1320A – including PFA	N/A	\$1,500	N/A	SWFWMD	\$1,500	N/A
SWFWMD	Marion County Board of County Commissioners (BOCC), Clean Water Dept.	R035	Rainbow River Vegetation Education	Funding helped develop DVDs, brochures, and posters describing value of aquatic vegetation to sustainability of aquatic community and recommending proper etiquette for river use.	Education Efforts	Completed	2011	N/A	N/A	WBID 1320A/B – including PFA	N/A	\$4,800	N/A	SWFWMD	\$4,800	N/A
SWFWMD	Rainbow River Conservation	R035	Microirrigation workshops	Through 3 educational workshops and distribution of microirrigation kits, project educated homeowners living in 55+ communities about FFL principles and benefits of using microirrigation.	Education Efforts	Completed	2011	N/A	N/A	WBID 1320A – including PFA	N/A	\$2,690	N/A	SWFWMD	\$2,690	N/A
SWFWMD	UF-IFAS	R037	Soil Analysis by UF	Up to 200 soil analysis tests were conducted as part of Crystal River/King's Bay/ Rainbow River Watershed Education project.	Education Efforts	Completed	2010	N/A	N/A	WBID 1320A – including PFA	N/A	\$1,400	N/A	SWFWMD	\$1,400	N/A

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SWFWMD	Marion Soil and Water Conservation District	R038	BMPs Awareness Campaign	Project educated equine enthusiasts on importance of protecting water resources to ensure water quality by using proper manure management, fertilization techniques and water conservation practices.	Education Efforts	Completed	2010	N/A	N/A	WBID 1320A – including PFA	N/A	\$4,988	N/A	SWFWMD	\$4,988	N/A
SWFWMD	Marion County UF-IFAS Extension Office	R039	FFL Expo	Project encouraged Marion County homeowners to reduce water use by incorporating FFL principles.	Education Efforts	Completed	2010	N/A	N/A	WBID 1320A – including PFA	N/A	\$4,999	N/A	SWFWMD	\$4,999	N/A
SWFWMD	Marion County Parks and Recreation/ Rainbow River Conservation	R040	Blue Run Aquatic Planting	30 volunteers learned how aquatic plants help filter stormwater and participated in planting at Blue Run.	Education Efforts	Completed	2009	N/A	N/A	WBID 1320A/B – including PFA	N/A	\$2,000	N/A	SWFWMD	\$2,000	N/A
SWFWMD	Rainbow River Conservation, Boy Scouts of America	R041	Storm drain markers	Storm drain markers purchased to conduct storm drain marking events in Marion County.	Education Efforts	Completed	2009	N/A	N/A	WBID 1320A – including PFA	N/A	\$2,695	N/A	SWFWMD	\$2,695	N/A
SWFWMD	N/A	R042	Community Landscape/Irrigation Evaluation Specialist	Consultant evaluated 10 locations in 5 counties, including Marion, and made recommendations for water conservation in community landscapes and irrigation.	Education Efforts	Completed	2009	N/A	N/A	WBID 1320A – including PFA	N/A	\$6,000	N/A	SWFWMD	\$6,000	N/A
SWFWMD	N/A	R043	Rainbow River Springshed Tour	Educational program to inform local officials, homeowners, retail store managers, and lawn care providers on how fertilizer impacts local springshed.	Education Efforts	Completed	2009	N/A	N/A	WBID 1320A – including PFA	N/A	\$1,500	N/A	SWFWMD	\$1,500	N/A
SWFWMD	Paul Marraffino, Tracy Colson	R044	Aquatic Vegetation Video	10-minute video showing value of submerged and emergent aquatic vegetation in Rainbow Springs Aquatic Preserve and impact of recreational use on vegetation.	Education Efforts	Completed	2009	N/A	N/A	WBID 1320A/B – including PFA	N/A	\$4,289	N/A	SWFWMD	\$4,289	N/A
SWFWMD	Friends of the Dunnellon Library	R045	FFL Demonstration Garden at Dunnellon Library	FFL demonstration garden was installed to educate visitors to Dunnellon Library about benefits of FFL principles.	Education Efforts	Completed	2009	N/A	N/A	WBID 1320A – including PFA	N/A	\$4,550	N/A	SWFWMD	\$4,550	N/A
SWFWMD	Marion County Citizens Coalition, Inc.	R047	TDR Program for Watershed Protection	Through series of 5 workshops, landowners, developers, and citizens were educated about TDR Program and Farmland Preservation Area in northwest Marion County.	Education Efforts	Completed	2007	N/A	N/A	WBID 1320A – including PFA	N/A	\$3,000	N/A	SWFWMD	\$3,000	N/A

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SWFWMD	Marion County UF-IFAS Extension Office	R048	FYN Program – Color in the Landscape Spring Festival	FFL festival provided information workshops on practices.	Education Efforts	Completed	2006	N/A	N/A	WBID 1320A – including PFA	N/A	\$5,000	N/A	SWFWMD	\$5,000	N/A
SWFWMD	Marion County School District	R049	Splash! Grants to Teachers in Marion County	Various water resources grants; most projects were directly related to education about Rainbow Springs.	Education Efforts	Completed	2013	N/A	N/A	WBID 1320A – including PFA	N/A	\$35,240	N/A	SWFWMD	\$35,240	N/A
City of Dunnellon	N/A	R050	Rainbow River Acres Stormwater Retrofit	Proposed project in vicinity of Oak St. and Palmetto Way in Rainbow River Acres Subdivision. Project would construct stormwater pond to address flooding and to provide water quality for untreated stormwater runoff that currently sheetflows to Rainbow River.	Not provided	Planned	Not provided	Not provided	N/A	WBID 1320B – outside PFA	Not provided	Not provided	Not provided	City	Not provided	N/A
Marion County Office of the County Engineer	N/A	R051	Bold and Gold™ Stormwater Retrofits in Rainbow Springs BMAP Area	Project proposes \$1,400,000 through FY 2019 for retrofit of county-owned drainage retention areas (DRAs) in Rainbow Springs BMAP area. Number and location of DRAs retrofitted will depend on several factors, including potential load reductions, land availability, and location in PFAs identified in BMAP. Project is currently in preliminary scoping stages and is identified in adopted 2014 Stormwater Implementation Plan.	Retention BMP Retrofit with Nutrient Reducing Media	Underway	2019	Not provided	N/A	WBID 1320A – in PFA	Not provided	\$1,400,000	Not provided	County Stormwater Assessment	\$1,400,000	N/A
Marion County Utilities/City of Dunnellon	N/A	R052	Wastewater Level of Service Coordination – System Upgrade	Coordination between county and city utilities to improve level of wastewater treatment in Rainbow Springs area. Project would improve existing level of treatment provided by 4 city treatment facilities by constructing new facility that meets advanced wastewater treatment (AWT) standards.	WWTF Nutrient Reduction	Canceled	N/A	N/A	N/A	WBID 1320A – partially in PFA	N/A	N/A	N/A	N/A	N/A	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Marion County Utilities/City of Dunnellon	N/A	R053	Wastewater Level of Service Coordination – OSTDS Abatement	Coordination between county and city utilities to improve level of wastewater treatment in Rainbow Springs area. It is also anticipated that project would initially allow 266 OSTDS to hook up to central sewer, with potential for additional connections in future.	Septic Tank Phase Out, WWTF Nutrient Reduction	Canceled	N/A	N/A	N/A	WBID 1320A – in PFA	N/A	N/A	N/A	N/A	N/A	N/A
Marion County Utilities/ City of Dunnellon	SWFWMD	R054	Wastewater Level of Service Coordination – Package Plant Abatement	Coordination between county and city utilities to improve level of wastewater treatment in Rainbow Springs area. It is also anticipated that project would initially allow 5 package plants to hook up to central sewer, with potential for additional connections in future.	Package Plant Phase Out, WWTF Nutrient Reduction	Planned	Not provided	229	N/A	WBID 1320A – in PFA	N/A	Not provided	Not provided	SWFWMD/ City of Dunnellon	Not provided	Not provided
SWFWMD	N/A	R055	P301 Design and Permitting Phase – Wastewater Disposal Treatment Wetlands	Design and permitting of treatment wetland(s) to polish WWTP effluent.	WWTF Upgrade	Canceled	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	N/A	N/A	N/A	N/A	N/A
SWFWMD	N/A	R056	P301 Implementation Phase – Wastewater Disposal Treatment Wetlands	Construction of treatment wetland(s) to polish WWTP effluent.	WWTF Upgrade	Canceled	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	N/A	N/A	N/A	N/A	N/A
City of Dunnellon	N/A	R057	Rio Vista WWTP Decommissioning	Planned project will decommission Rio Vista WWTP and convert existing lift station to pump wastewater to Rainbow Springs plant.	WWTF Phase Out	Completed	2015	56	N/A	WBID 1320A/B – In PFA	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
City of Dunnellon	N/A	R058	Rio Vista Collection System Maintenance	Companion project to Rio Vista WWTP decommissioning. Collection system is subject to high infiltration into system after storm events, resulting in overflows from plant holding pond.	Sanitary Sewer and WWTF Maintenance	Completed	2015	Not provided	N/A	WBID 1320A/B – In PFA	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
City of Dunnellon	N/A	R059	Supervisory Control and Data Acquisition (SCADA) Installation	Planned phased project for installation of SCADA at city WWTPs followed by installation at lift stations.	WWTF Upgrade	Planned	Not provided	N/A	N/A	WBID 1320A – Including PFA	N/A	Not provided	Not provided	Not provided	Not provided	N/A
Marion County Office of the County Engineer	SWFWMD	R062	Sa-Te-Ke Village Stormwater Retrofit	Construction of retention storage along Rainbow River to treat direct discharge to river	Retention BMP	Completed	2011	2	3	WBID 1320B – In PFA	6.4	\$73,512	Not provided	County Stormwater Assessment	\$73,512	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				from culvert discharging along SW 183rd Ct. and SW 102nd St.												
Marion County Office of the County Engineer	SWFWMD	R063	Rainbow Springs 5th Replat Stormwater Retrofit- CP #67	Project will retrofit 3 drainage retention areas in Rainbow Springs 5th replat with nitrogen-reducing Bold and Gold™ media. Retrofit will prevent 250 lbs of TN from reaching aquifer annually.	Retention BMP Retrofit with Nutrient-Reducing Media	Underway	TBD	250	N/A	WBID 1320A- In PFA	81.4	\$931,510	Not provided	County Stormwater Assessment/ SWFWMD	Not provided	N/A
FDOT District 5	City of Dunnellon	R064	Blue Cove Lake Water Quality Structure	Load reduction estimated using efficiency for baffle box. However, box includes Bold and Gold™ filter media, which may reduce pollutant load more than estimated.	Baffle Boxes – 2nd Generation with Media	Completed	2013	1	1	WBID 1320B – Outside PFA	32.5	Not provided	Not provided	Florida Legislature	Not provided	N/A
Town of Bronson	SRWMD	R065	Levy Blue Spring Water Quality Improvement Project	Project will expand town's existing wastewater collection and transmission system and eliminate use of 60 OSTDS and holding tanks at no cost to homeowners.	Septic Tank Phase Out, Wastewater Service Area Expansion	Planned	Not provided	1,434	N/A	WBID 1320A – Outside PFA	N/A	Not provided	Not provided	Florida Legislature/ SRWMD	Not provided	N/A
DEP – Division of State Lands	N/A	R066	South Goethe	Addition provides corridor from Goethe State Forest to Marjorie Harris Carr Cross-Florida Greenway State Recreation and Conservation Area along Withlacoochee River, and also links to Etoniah Cross-Florida Greenway Florida Forever project. One of primary concepts of project is to protect Withlacoochee River Watershed by connecting Goethe State Forest with greenway. Another goal is to provide significant buffer along southern boundary of forest while eventually enhancing forest and associated habitat through restoration.	Land Acquisition	Underway	TBD	N/A	N/A	Rainbow Springs Basin	11,652.0	\$11,574,303	Not provided	FCT	\$11,574,303	TBD
DEP – Division of State Lands	N/A	R067	Bear Hammock	Acquiring Bear Hammock project in southern Marion County would meet state goals of enhanced coordination of land acquisition efforts by making conservation link that fills gap among several other properties. One goal of state conservation is to preserve areas of at least 50,000 ac, and Bear	Land Acquisition	Underway	TBD	N/A	N/A	Rainbow Springs Basin	4,685.0	\$32,576,529	Not provided	FCT	\$32,576,529	TBD

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				Hammock provides connector between Goethe State Forest and Marjorie Harris Carr Cross-Florida Greenway, creating continuity of more than 200,000 ac.												
DEP – Division of State Lands	Office of Greenways and Trails	R068	Carr Farm/Price's Scrub	Carr Farm/Price's Scrub in southwestern Alachua County and northwestern Marion County includes scrub, upland mixed forest, scrubby flatwoods, wet flatwoods, depression marsh, marsh lake, and sinkhole lake. It is one of northernmost examples of community in peninsular Florida; 962 ac, located in Marion County, have been acquired to date.	Land Acquisition	Underway	TBD	N/A	N/A	Rainbow Springs Basin	1,267.0	\$2,061,144	Not provided	FCT/ Office of Greenways and Trails	\$2,061,144	TBD
SWFWMD	SWFWMD	R070	2013–17 Springs Management Plan	WMD Springs Management Plan summarizes vision, issues, and solutions that district will address over next 5 yrs to manage and protect springs. Through strategic investments and partnerships, district is implementing projects to conserve and restore ecological balance of spring systems, thus supporting regional economies and quality of life. Plan lays out general restoration strategy, overview of goals and issues, and list of proposed projects.	Study	Underway	2014	N/A	N/A	WBID 1320A – Including PFA	N/A	Not provided	N/A	SWFWMD	Not provided	N/A
DEP/ Florida Dept. of Health (FDOH)	Local Utilities/ SJRWMD/ SWFWMD/ Other Interested Parties	R071	OSTDS 9-1-1 Strategy	Develop strategy for addressing OSTDS and other wastewater management issues. Goal is to enhance communication and coordination among utilities and agencies.	Study	Planned	Not provided	N/A	N/A	WBID 1320A – Including PFA	N/A	Not provided	N/A	Not provided	Not provided	N/A
Bay Laurel Center CDD	N/A	R072	Operational Improvements	Operational staff using oxidation-reduction potential probes and cyclic aeration to provide denitrification.	WWTF Nutrient Reduction	Completed	N/A	16,672	N/A	WBID 1320A – Outside PFA	N/A	\$1,500	Not provided	Bay Laurel Center CDD	\$1,500	N/A
Bay Laurel Center CDD	SWFWMD	R073	Public Access Reuse	Design and construction of reclaimed water system, including pumping, storage, and distribution main that provides reclaimed water for irrigation at On Top of the World and Candler Hills golf courses.	Reuse Project	Completed	2010	6,025	N/A	WBID 1320A – Outside PFA	N/A	\$2,198,000	N/A	Bay Laurel Center CDD	\$2,198,000	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
SWFWMD	Marion County School District	R074	Dunnellon High School Legacy Program	Program taught students basic land management techniques. Students also educated community, including promotion of springshed protection. In 2007, educational signage about watershed protection was placed in kiosks at drop-in and take-out tubing sites at Rainbow River State Park.	Education Efforts	Completed	2007	N/A	N/A	WBID 1320A – In PFA	N/A	\$11,853	N/A	SWFWMD	\$11,853	N/A
SWFWMD	Marion County School District	R075	Dunnellon Elementary School Rain Barrels	Students and families were educated on use of rain barrels for irrigation to conserve water.	Education Efforts	Completed	2003	N/A	N/A	WBID 1320A – In PFA	N/A	\$2,975	N/A	SWFWMD	\$2,975	N/A
Marion County Office of the County Engineer	N/A	R076	Rainbow Springs 5th Replat Stormwater Retrofit – CP #72	Retrofit of Drainage Retention Areas 2166; biosorption activated media for nitrogen reduction.	Retention BMP Retrofit with Nutrient-Reducing Media	Planned	2017	135	N/A	WBID 1320A – In PFA	89.8	\$414,000	Not provided	County Stormwater Assessment; SWFWMD Cooperative Funding (Potentially)	Not provided	N/A
City of Williston	N/A	R077	Williston WWTP Upgrade	Upgrade city WWTP to improve nitrogen removal. Currently, facility does not have effluent reporting limit for TN.	WWTF Nutrient Reduction	Underway	2020	1,535	N/A	Rainbow Springs Basin	N/A	\$3,021,000	TBD	City Matching Funds, CDBG, Springs Funding	N/A	Not provided
SWFWMD	Marion County UF-IFAS Extension	R078	Save Our Springs, Manage the Manure	Project educated equine community in Rainbow Springs Springshed about need for BMPs to protect springs. Informational brochure was created to accompany promotional item passed out at local tack stores. Goal was for Extension to meet and schedule one-on-one farm consultations to teach BMPs.	Education Efforts	Planned	2016	N/A	N/A	WBID 1320A – including PFA	N/A	\$1,600	N/A	SWFWMD	\$1,600	N/A
FDOT District 2	N/A	R079	Fertilizer Cessation	FDOT O&M fertilizer cessation on SR 121 and SR 500 (US Hwy. 27A). Cessation began in 2009 and is ongoing.	Fertilizer Cessation	Completed	N/A	3,670	N/A	WBID 1320A – including PFA	168.5	N/A	N/A	N/A	N/A	N/A
FDOT District 2	N/A	R080	Wet Detention/Retention Ponds in FDOT Roads	Nitrogen reduction from wet detention/retention ponds on SR 500 (US Hwy. 27A). Ponds 1 and 5 were completed in 2002, and Pond 10 was completed in 2004.	Wet Detention Ponds, Retention BMPs	Completed	2004	133	N/A	WBID 1320A – Outside PFA	68.6	Not provided	Not provided	Not provided	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
City of Dunnellon	N/A	R081	Dunnellon City Beach	Proposed project located at Dinkins Park/City Beach. Project would construct riverwalk along Rainbow River and provide for water quality for untreated stormwater runoff that currently sheetflows into Rainbow River.	Not provided	Underway	2021	Not provided	N/A	Rainbow Springs Basin	Not provided	Not provided	Not provided	City	Not provided	N/A
SWFWMD	UF-IFAS	R082	Composting at Animal Stock Facilities	Research project will evaluate nutrient removal efficiency from composting animal waste. Project will investigate various composting BMPs to determine which is most effective. Project will also compare nutrient leaching efficiency for manure stockpiling and composting facilities.	Study	Underway	2019	N/A	N/A	Rainbow Springs Basin	N/A	Not provided	N/A	SWFWMD	Not provided	N/A
FDACS	UF-IFAS Marion County, SWFWMD	R083	Marion County Equine Compost Facilities Pilot Project	Program will focus on implementation of management BMPs for commercial equine operations in Rainbow Springs BMAP area, specifically in areas of Marion County under SWFWMD jurisdiction. Effort will be in conjunction and coordination with UF-IFAS Marion County Extension Service, in which education and outreach will be provided for commercial and small equine operations. It will also be in conjunction with Marion County Solid Waste Dept. to remove static manure piles on commercial equine operations.	Agriculture BMPs, Education Efforts	Underway	2019	TBD	N/A	Rainbow Springs Basin	N/A	\$200,000	N/A	FDACS/ SWFWMD	Not provided	N/A
City of Dunnellon	SWFWMD	R084	Rainbow Springs Water Reclamation Facility (WRF) Decommissioning	Rerate City of Dunnellon WRF to 0.50 mgd and construct force main from Rainbow Springs WRF to city's WRF and decommission Rainbow Springs WRF. City of Dunnellon recognizes vital ecological and economic importance of Rainbow Springs and Rainbow River in community. Waterbodies are listed as OFWs and are classified as high priorities in SWIM Plan. Both are impaired under Chapter 62-	Package Plant Phase Out, Wastewater Service Area Expansion	Planned	Not provided	TBD	N/A	Rainbow Springs Basin	N/A	Not provided	N/A	Not provided	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				303(d), F.A.C., for TN, as identified in adopted TMDL. Primary project objective is to design and construct sanitary sewer system to remove from service Rainbow Springs WRF, which treats 0.15 mgd. Facility contributes to TN impairment of Rainbow Springs and Rainbow River. Removal will result in substantial and measurable reduction in identified pollutant sources. Project depends on rerating city WRF to 0.50 mgd.												
Marion County Utilities	N/A	R085	Golden Ocala WWTP Nutrient and Capacity Improvement	Golden Ocala WWTF expansion project is initiative by county to improve wastewater treatment and expand plant capacity. Project consists of constructing new 0.675 mgd oxidation ditch with biological nutrient removal, 2 0.750 mgd clarifiers, 2 flow-splitting structures for future oxidation ditches, 0.500-million-gallon equalization basin, new headworks, and screening structure. Existing 0.2 mgd plant will be retrofitted into aerobic digester or sludge holding tank. Plant will be upgraded to AWT standards.	WWTF Nutrient Reduction	Underway	2020	TBD	N/A	Rainbow Springs Basin	N/A	\$17,300,000	\$236,000	County Utility Funds/ Grants	Not provided	N/A
Marion County Utilities	N/A	R086	Removal of Septic Tanks along Rainbow River and Primary Protection Zone	Rainbow Springs sewer expansion project will determine feasibility of removing existing septic tanks and connecting to central sewer system. Project will improve water quality to Rainbow Springs and Rainbow River. Subject to funding limitations, consultant would develop feasibility study to include multiyear phased approach for planning projects in Primary Spring Protection Zone of Rainbow River. Feasibility study will focus on quantifying and locating existing OSTDS systems, estimating construction costs (for new infrastructure and	Study	Planned	Not provided	N/A	N/A	Rainbow Springs Basin	N/A	\$20,000	N/A	County Utility Funds	\$20,000	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				system updates, including lift stations, gravity sewer mains, force mains, sewer laterals, eliminating septic tanks, and constructing new regional WWTF to meet current, future demands and BMAP water quality standards, and decommissioning package plants) as well as O&M costs of new infrastructure.												
Marion County Utilities	N/A	R087	Provide Central Sewer Service to Major Commercial Corridor	Project will construct 10,750 ft of sanitary sewer force main along SR 200 corridor in Ocala. Project will connect existing development so that septic tanks can be abandoned, prevent further installation of septic tanks along corridor by making central sewer available to new development, and reduce groundwater withdrawals by sending new sewer flows to WWTF that produces and distributes reclaimed water to customers.	Septic Tank Phase Out, Wastewater Service Area Expansion	Underway	2018	TBD	N/A	Rainbow Springs Basin	N/A	\$2,490,984	\$4,730	Marion County Utility Funds/ Grants	\$2,490,984	N/A
City of Williston	N/A	R088	Northwood Estates Septic-to-Sewer	Connection of 31 residential properties in Northwood Estates to city central sewer.	Septic Tank Phase Out	Planned	2019	355	N/A	Rainbow Springs Basin	N/A	\$2,500,000	Not provided	Springs Funding/ City In-Kind Services	N/A	Not provided
Marion County Utilities	N/A	R089	Financial Feasibility Study for New Centralized WRF and Collection System	Study will focus on estimating construction costs (for new infrastructure and system updates, including lift stations, gravity sewer mains, force mains, sewer laterals, eliminating septic tanks, upgrading existing WWTFs to meet future demands and county water quality standards, and decommissioning package plants), and O&M costs of new infrastructure. Study will determine cost-benefit ratio to determine feasibility of implementing OSTDS to central sewer in Rainbow Springs area.	Study	Planned	Not provided	N/A	N/A	Rainbow Springs Basin	N/A	\$150,000	N/A	County	\$150,000	N/A

Santa Fe River BMAP

Background

The Santa Fe River Basin encompasses an area of over 1 million acres and includes all or portions of Alachua, Bradford, Columbia, Gilchrist, and Union Counties. Urban areas include Lake City and Fort White in Columbia County and Alachua, Archer, High Springs, La Crosse, and Newberry in Alachua County. The basin also includes the following OFS: Ichetucknee Spring Group, Hornsby Spring, Devil's Ear Spring, Poe Spring, Columbia Spring, and Treehouse Spring (**Figure B-3**).

DEP identified the lower portion of the Santa Fe River (from River Rise westward to its confluence with the Suwannee River) as impaired for DO and nutrients. In September 2008, DEP adopted the Santa Fe River TMDL for nitrate to protect the aquatic flora and fauna in the river. To achieve the annual average nitrate target of 0.35 mg/L in the Santa Fe River Basin, the nitrate loads from nonpoint sources need to be reduced by 35 %. The Santa Fe River BMAP was adopted in February 2012 to implement the nitrate TMDL in the watershed.

Status of Projects

Through December 31, 2017, 3 projects have been completed. An additional 40 projects that are underway or planned have been added to the BMAP. The projects completed to date are estimated to achieve total reductions of 93,901 lb-N/yr. The projects that are underway are estimated to achieve total reductions of 620,288 lb-N/yr. These are primarily agricultural BMP projects.

As an OFS BMAP, additional information will be provided when the BMAP reaches its 5-, 10-, and 15-year milestones. If the milestones or the 20-year target will not be met, an explanation of possible causes and potential solutions will be provided. These milestones will be specified in a revised BMAP document that is scheduled to be adopted by July 1, 2018, to meet the statutory requirements added by the 2016 Florida Legislature.

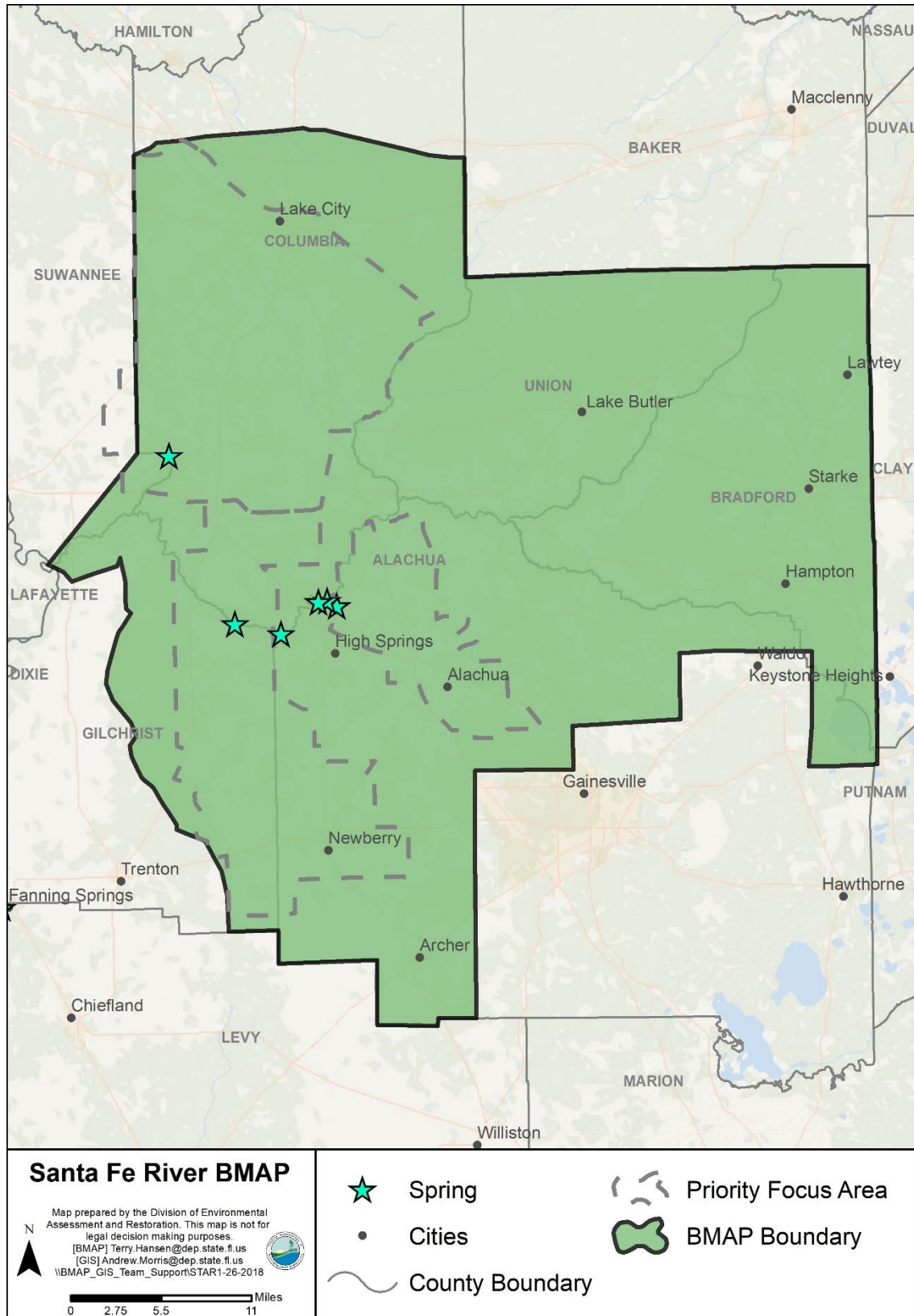


Figure B-3. Santa Fe River BMAP Area

Table B-3. Santa Fe BMAP projects

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lb-N/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Alachua County	SRWMD	AC-01	Poe Springs Domestic Sewage Infrastructure Upgrade	Install new waterless restrooms with larger holding tanks adjacent to springshed. Replace OSTDS with enhanced passive nitrogen system using biosorption activated media (BAM).	Wastewater System Upgrade	Underway	2019	5,776	Not provided	Alachua County	N/A	\$346,600	Not provided	County/SRWMD	County – \$196,600 SRWMD – \$150,000	N/A
Alachua County	DEP	AC-02	Hornsby Spring Restoration	Install temporary aerator to improve DO conditions, remove sediment to improve spring flow, and install SAV to improve water quality.	Hydrologic Restoration	Underway	TBD	1,260	N/A	Alachua County	TBD	\$443,480	N/A	County/DEP	County – \$20,000 DEP – \$423,480	TBD
Alachua County	DEP	AC-03	Mill Creek Sink Water Quality Improvement Project – Phase II	See AL-01 for Phase I project info. Phase II is acquisition of 240 additional acres surrounding and upstream of Mill Creek Swallet.	Land Acquisition	Planned	2018	N/A	N/A	Alachua County	N/A	\$2,600,000	N/A	County/DEP	County – \$1,300,000 DEP – \$1,300,000	TBD
Alachua County	DEP/ Gainesville Clean Water Partnership	AC-04	Fertilizer Social Marketing Campaign	Implement social marketing campaign designed to reduce fertilizer use and to estimate resultant load reduction.	Education Efforts	Planned	2021	TBD	TBD	Alachua County	N/A	\$435,000	N/A	Partnership/DEP	Partnership – \$300,000 DEP – \$135,000	NF033
Alachua County	Adventure Outpost	AC-05	Interactive Paddling Trips	Implement education by coordinating 5 to 6 interactive paddling trips on Santa Fe River with 120 stakeholders to explore actions that affect health of springs and groundwater.	Education Efforts	Planned	2019	N/A	N/A	Alachua County	N/A	\$12,600	N/A	County/Wildlife Foundation of Florida Springs Protection License Plate Grant	County – \$6,900 Grant – \$5,700	N/A
Alachua County	Gainesville Clean Water Partnership	AC-06	Interactive Stormwater and Wastewater Model	Interactive table-top model for teaching children and adults about difference between storm sewers and sanitary sewers.	Education Efforts	Underway	TBD	N/A	N/A	Alachua County	N/A	\$6,500	N/A	Partnership	\$6,500	N/A
Alachua County	N/A	AC-07	Santa Fe River Springs SAV Assessment	Project goal is to document current condition of SAV at selected springs (pools and associated spring runs) on Santa Fe River.	Study	Underway	2019	N/A	N/A	Alachua County	N/A	\$24,500	N/A	County/Wildlife Foundation of Florida Springs Protection	\$24,500	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lb-N/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
														License Plate Grant		
Alachua County	Gainesville Clean Water Partnership	AC-08	Stream Bioassessment Study	Stream Bioassessment Study project includes Stream Condition Index (SCI) in-stream biological assessments and Hester-Dendy sampling and analysis to provide ambient monitoring for TMDL and impaired watersheds.	Monitoring/ Data Collection	Underway	2019	N/A	N/A	Alachua County	N/A	\$85,970	N/A	FDOT	\$85,970	N/A
Alachua County	Camp Kulaqua	AC-09	Hornsby Springs DO and Faunal Study	Project seeks to evaluate role of DO temporally and spatially and to explore what effect this may have on organisms, particularly macroinvertebrates.	Study	Planned	2019	N/A	N/A	Alachua County	N/A	\$14,000	N/A	County/ Wildlife Foundation of Florida Springs Protection License Plate Grant	\$14,000	N/A
Alachua County	Local and State Parks	AC-10	Santa Fe River Springs Signage	Project goal is to increase awareness about springs of Santa Fe River and current springs issues and solutions. Interpretive signs will be installed at selected springs or parks along Santa Fe River.	Education Efforts	Planned	2019	N/A	N/A	Alachua County	N/A	\$12,600	N/A	County/ Wildlife Foundation of Florida Springs Protection License Plate Grant	\$12,600	N/A
Columbia County	SRWMD	CC-01	Rum Island Park	Install new public restrooms with lift station and septic system in place of portable toilets. Install BAM to reduce nutrients around septic system. Project also involves bank restoration and dredging.	OSTDS	Underway	2019	Not provided	N/A	Columbia County	N/A	\$300,000	N/A	County/ SRWMD	County – \$150,000 SRWMD – \$150,000	N/A
Columbia County	DEP	CC-02	Ichetucknee Trace – Clay Hole Creek/ Alligator Lake Aquifer Recharge and Stormwater Mitigation	Construct swales, canals, and stormwater canal structures to direct water to Alligator Lake to provide erosion control and water quality treatment before water enters aquifer.	Regional Stormwater Treatment	Underway	2018	30,000	N/A	Columbia County	Not provided	\$2,560,000	Not provided	County/ DEP	County – \$300,000 DEP – \$2,260,000	LP6103A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lb-N/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Columbia County	DEP	CC-03	Ichetucknee Trace – Cannon Creek Project	Provide flood mitigation, water quality improvement, and aquifer recharge through replacement of old drainage well and 13 ac of wetland construction.	Wetland Treatment	Planned	TBD	10,000	N/A	Columbia County	13	\$3,030,000	Not provided	County/ DEP	County: \$780,000 DEP – \$2,250,000	S0924
Columbia County	DEP	CC-04	Dream Inn Motel WWTP Closure	Remove noncompliant WWTP that serves motel and connect motel to county's central sewer system. This also includes relocating, upgrading, and enlarging existing county WWTF to handle flow from motel.	Wastewater System Upgrade	Underway	2018	1,000	Not provided	Columbia County	N/A	\$354,737	N/A	County/ SRWMD	County – \$210,437 SRWMD – \$144,300	N/A
Gilchrist County	SRWMD	GC-01	Santa Fe Park and Boat Ramp	Replace boat ramp, add docks and canoe launch, and remedy drainage to reduce sediment and nutrients.	Stormwater Improvements	Underway	2019	Not provided	Not provided	Gilchrist County	Not provided	\$129,800	Not provided	County/ SRWMD	County – \$6,800 SRWMD – \$123,000	N/A
City of Alachua	DEP/SRWMD	AL-01	Mill Creek Sink Water Quality Improvement Project	Purchase property to install water quality BMPs to reduce pollutant loads discharging directly into sink. Nutrient loading should be reduced by 66 % and benefit Hornsby Spring.	BMP Treatment Train	Underway	2020	TBD	TBD	Alachua County	Not provided	\$1,400,000	Not provided	DEP/ SRWMD	DEP – \$1,000,000 SRWMD – \$400,000	
City of Archer	SRWMD	AR-01	Holly Hills Stormwater Improvements	Increase storage in existing stormwater ponds to alleviate flooding and improve water quality.	Stormwater Improvements	Underway	2018	Not provided	Not provided	Alachua County	Not provided	\$87,000	Not provided	City/ SRWMD	City – \$4,000 SRWMD – \$83,000	N/A
City of Hampton	TBD	HA-01	Master Drainage Study	Undertake study to address severe flooding issues.	Study	Planned	TBD	N/A	N/A	Bradford County	N/A	TBD	N/A	TBD	TBD	N/A
City of High Springs	DEP/ SRWMD	HS-01	Infiltrative Wetlands for WWTF Effluent Treatment/ Disposal – Phase I	Convert city's existing effluent sprayfield into infiltration wetlands; 10 of 20 ac will be constructed in Phase I. This will benefit water quality in Hornsby and Poe Springs.	Wetland Treatment	Underway	TBD	4,870	Not provided	Alachua County	10	\$1,708,500	Not provided	DEP	DEP – \$1,708,500	

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lb-N/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
City of High Springs	DEP/ SRWMD	HS-02	Wastewater Collection System Extension – Phase A1	Provide central sewer to remaining areas served by septic systems; eliminate 132 septic systems.	Wastewater Service Area Expansion	Underway	2019	2,640	N/A	Alachua County	N/A	\$3,432,700	N/A	City/ DEP	City – \$125,000 DEP – \$3,307,700	LP61037
City of High Springs	DEP/ SRWMD	HS-03	Camp Kulaqua-Hornsby Spring Water Quality Improvement Project	Remove onsite wastewater treatment plant and effluent disposal and install new wastewater line to city WWTP.	Wastewater System Upgrade	Underway	2018	97	Not provided	Alachua County	N/A	\$500,000	Not provided	DEP/ SRWMD	DEP – \$450,000 SRWMD – \$50,000	S0889
City of High Springs	SRWMD	HS-04	Septic Tank Abatement	Eliminate 13 residential septic systems and connect to city's central sewer system.	Wastewater Service Area Expansion	Underway	2018	330	N/A	Alachua County	N/A	\$175,000	N/A	City/ SRWMD	City – \$25,000 SRWMD – \$150,000	N/A
City of High Springs	TBD	HS-05	Wastewater Collection System Extension – Phase A2	Provide central sewer to remaining areas served by septic systems; eliminate 168 septic systems.	Wastewater Service Area Expansion	Planned	TBD	5,880	N/A	Alachua County	N/A	\$3,453,600	\$5,000	TBD	TBD	N/A
City of High Springs	TBD	HS-06	WWTF Upgrade	WWTF upgrades to meet AWT standards. Effluent will be further treated with constructed infiltrative/treatment wetland.	Wastewater System Upgrade	Planned	TBD	TBD	TBD	Alachua County	N/A	\$4,800,000	TBD	TBD	TBD	N/A
City of Lake City	DEP	LC-01	I-75/SR 47 Cannon Creek Sink Wastewater Improvement Project – Phase I	Eliminate septic systems from 30 businesses and 5 residences to benefit water quality in Ichetucknee Spring.	Wastewater Service Area Expansion	Planned	2019	11,950	N/A	Columbia County	N/A	\$3,400,871	N/A	City/ DEP	City – \$1,703,415 DEP – \$1,697,456	
City of Lake City	DEP/ SRWMD/ Columbia County	LC-02	Ichetucknee Springshed Water Quality Improvement Project	Convert city wastewater effluent disposal system into 120 ac of constructed wetlands that provide 1.58 mgd of recharge water to aquifer and reduce nitrogen loads from WWTP by 85 %.	Wetland Treatment	Completed	2016	77,000	N/A	Columbia County	120	\$5,005,175	Not provided	City/ DEP/ SRWMD/ Columbia County	City – \$200,000 DEP – \$3,900,000 SRWMD – \$805,175 County – \$100,000	S0675
City of Lake City	SRWMD	LC-03	Reclaimed Water System Upgrade – Phase I	Upgrade existing system to allow reclaimed water to be used by local golf course and farmer.	Reclaimed Water	Underway	2018	TBD	TBD	Columbia County	TBD	\$545,470	Not provided	City/ SRWMD	City: \$351,166 SRWMD – \$194,304	N/A
City of Newberry	SRWMD	NEW-01	Potable Water and Central	Replace existing water and wastewater lines close to historic district,	Wastewater System Upgrade	Underway	2018	TBD	TBD	Alachua County	TBD	\$650,000	Not provided	City/ SRWMD	City – \$611,566	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lb-N/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
			Wastewater Improvements	reducing unaccounted water loss and preventing potential sewage spills.											SRWMD – \$38,434	
DEP Florida Park Service (FPS)	N/A	FPS-01	Ichetucknee Springs State Park	Remove septic system in wetlands at Dampier's Landing Bath House and connect to existing wastewater treatment system in uplands.	Wastewater Service Area Expansion	Planned	TBD	Not provided	N/A	Columbia County	TBD	Not provided	N/A	DEP	Not provided	N/A
FDOT	Information not provided	FDOT-01	Fertilizer Elimination	Eliminate fertilizer use in rights-of way.	Fertilizer Cessation	Completed	Not provided	16,901	3,550	Basinwide	776	Not provided	Not provided	Not provided	Not provided	Not provided
Gainesville Regional Utilities (GRU)	DEP	GRU-01	Wetland Creation at Shands Facility	Construct recharge wetland at new Shands facility to remove nutrients from reclaimed water and stormwater and provide aquifer recharge.	Wetland Treatment	Canceled	TBD	Not provided	N/A	Alachua County	N/A	\$1,110,000	N/A	GRU/ DEP	GRU – \$960,000 DEP – \$150,000	S0906
GRU	SRWMD	GRU-02	Oakmont Reclaimed Water Main Extension	Provide reclaimed water to irrigate 136 residential properties and 3 ac of common area.	Reclaimed Water	Underway	2018	TBD	TBD	Alachua County	TBD	\$452,571	Not provided	GRU/ SRWMD	GRU – \$339,428 SRWMD – \$113,143	N/A
GRU	SRWMD	GRU-03	Oakmont Recharge Wetland	Construct recharge wetland in existing stormwater retention basin that will reduce nutrients while recharging aquifer.	Wetland Treatment	Underway	2019	TBD	TBD	Alachua County	Not provided	\$400,000	Not provided	GRU/ SRWMD	GRU – \$250,000 SRWMD – \$150,000	N/A
SRWMD	DEP/ Local Governments	SRWMD-01	Suwannee River SWIM Plan	Implementation and periodic review and update of Suwannee River SWIM Plan, which includes Santa Fe River and Ichetucknee River.	Study	Completed	2017	NA	N/A	Basinwide	N/A	\$238,563	N/A	SRWMD	SRWMD – \$238,563	N/A
SRWMD	DEP and Dairy Producers	SRWMD-02	Improved Nutrient Application Practices in Dairy Operations – Phase 2	To date, 9 agreements with dairies to install screen separators to reduce wastewater solid; 1 agreement with dairy in Santa Fe Basin. DEP has allocated \$2,120,000 for districtwide program.	BMPs	Underway	TBD	1,485	TBD	Basinwide	TBD	\$309,600	N/A	DEP/ SRWMD	DEP/ SRWMD – \$309,600	S0905
SRWMD	DEP/ Producers/ Local	SRWMD-05	Sustainable Suwannee Springs	Agriculture operators are invited to submit proposals to transition	BMPs	Underway	2019	187,500	TBD	Basinwide	N/A	\$2,500,000	N/A	DEP	DEP – \$2,500,000	LP61038

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lb-N/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
	Governments/ Landowners/ Private Companies		Agriculture Pilot Program – Low Input Agriculture	to less intensive cropping systems, change type of cropping system, or change land use to fallow or native landscape for certain amount of time or permanent conservation easement. Priority is given to Convict, Fanning, and Itchetucknee Springsheds.												
SRWMD	Agricultural Producers/ Local Governments/ Landowners/ Private Companies	SRWMD-07	Regional Initiative Valuing Environmental Resources (RIVER) Program	Benefits of annual cost-share projects include improving wastewater facilities serving hundreds of residents and commercial entities, preventing potential wastewater discharge into receiving waters during flood events, and significantly reducing nutrient leaching by removing substantial number of septic systems.	WWTF Upgrade	Underway	Not provided	TBD	TBD	Basinwide	N/A	\$1,500,000/annually	N/A	SRWMD	SRWMD – \$1,500,000	NA
SRWMD	Agricultural Producers	SRWMD-08	Precision Agricultural Practices	Provide cost-share funds to agricultural producers in BMAP area to implement precision nutrient and irrigation management technology. Districtwide program benefits and dollars split between Santa Fe and Suwannee BMAPs.	BMPs	Underway	Not provided	312,500	TBD	Basinwide	N/A	\$625,000	N/A	SRWMD	SRWMD – \$625,000	NA
SRWMD	DEP/ Agricultural Producers	SRWMD-09	Nursery Water Conservation Initiative	Assist nurseries in upgrading from overhead irrigation methods to microspray or drip irrigation. To date, 45 nurseries on 300 ac have received assistance.	BMPs	Underway	Not provided	45,000	TBD	Basinwide	N/A	\$1,321,150	N/A	DEP/ SRWMD/ Producers	DEP – \$940,000 SRWMD – \$39,325 Producers – \$341,825	S0796

Silver River and Springs BMAP

Background

The Silver Springs BMAP area is 989 square-miles in size (**Figure B-4**) and is located primarily in Marion County. The BMAP area approximates the extent of the 1,000-year modeled groundwater capture zone. The BMAP addresses the surface drainage basin for Silver River, but not other surface water basins located in the BMAP area. The western boundary of the BMAP area coincides with the eastern extent of the Rainbow Springs BMAP area and I-75.

DEP identified Silver Springs, Silver Springs Group, and Upper Silver River as impaired for nutrients, because of an imbalance of flora and fauna evidenced by excessive algal growth and smothering of SAV. In 2012, DEP adopted the TMDL, which established a concentration target of 0.35 mg/L nitrate (NO₃ as N) and a 79 % reduction in nitrate concentration for each impaired waterbody. The Silver Springs BMAP was adopted in October 2015 to implement the TMDLs.

Status of Projects

Through December 31, 2017, 124 projects have been completed. The projects completed to date are estimated to achieve total reductions of 265,461 lbs/yr of TN at the land surface.

Additional information will be provided when the OFS BMAP reaches its 5-, 10-, and 15-year milestones. If the milestones or the 20-year target will not be met, an explanation of possible causes and potential solutions will be provided. These milestones will be specified in a revised BMAP document. The revised Silver Springs BMAP is scheduled to be re-adopted by July 1, 2018, to meet the statutory requirements added by the 2016 Florida Legislature.

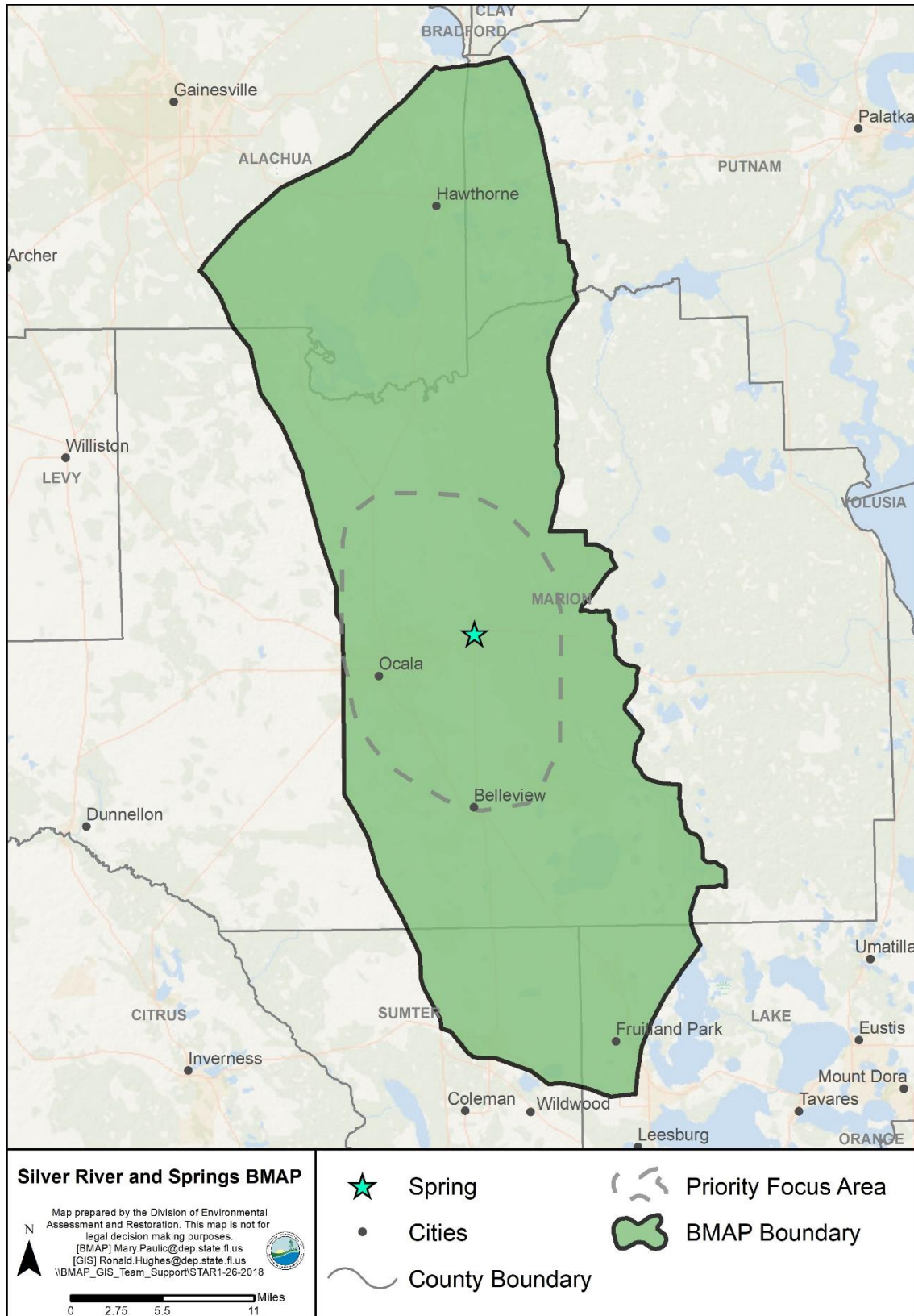


Figure B-4. Silver River and Springs BMAP area

Table B-4. Silver River and Springs BMAP projects

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Marion County Growth Services	N/A	B001	Marion County TDR	TDR Program is designed to protect natural resources, especially those listed in Policy 1.1.2 of Conservation Element of Marion County Comprehensive Plan and locally important and prime farmlands in Marion County. Resources include, but are not limited to, preservation of high-water recharge and underground drainage basins, springs, karst areas, sinkholes, sinks, sinkhole ponds, and other karst features. Land from which development rights are transferred is subject to conservation easement. Article 3 of LDC defines TDR Program and eligible sending and receiving areas.	Study	Completed	Not provided	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	N/A	Not provided	Not provided	N/A
Marion County Growth Services	N/A	B002	Marion County TVR	TVR Program is designed to minimize dense development of vested properties without central water and sewer systems, and/or other supporting infrastructure, and thus protect natural resources, encourage and enhance development of larger parcels, reduce county's inventory of vested properties, and permit county to better plan for future growth. Land from which vested rights are transferred is subject to conservation easement. Article 3 of LDC defines TVR Program and eligible sending and receiving areas.	Study	Completed	Not provided	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	N/A	Not provided	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Marion County Growth Services	N/A	B003	Marion County Hamlet Design Option	Comprehensive Plan Future Land Use Element Policy 2.1.13 establishes Hamlet Development Option, designed to provide for clustered low-density development patterns in rural designated lands, while requiring permanent open spaces reserved from development and some increased additional urban services (e.g., central water, central sewer, designed/constructed stormwater systems) that comply with Marion County's design and development standards, including Springs Protection. Article 3 of LDC generally defines Hamlet design provisions.	Study	Completed	Not provided	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	N/A	Not provided	Not provided	N/A
Marion County Growth Services	N/A	B004	Marion County Rural Community Land Use Designation	Comprehensive Plan Future Land Use Element Policy 2.1.18 establishes Rural Community future land use designation to provide for clustered urban density development patterns in rural designated lands, while requiring permanent open spaces reserved from development and complete urban services (e.g., central water, central sewer, and designed/constructed stormwater systems) that comply with Marion County's design and development standards, including Springs Protection. Article 3 of LDC generally defines Rural Community design provisions.	Study	Completed	Not provided	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	N/A	Not provided	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Marion County Growth Services	N/A	B005	Marion County Community Redevelopment Area Program	Comprehensive Plan Future Land Use Element Objective 2.2 establishes specific limited density and specialized design standards for wetland and floodplain areas slated for development. Articles 5 and 6 of LDC set forth specific design and development criteria related to applicable areas.	Study	Completed	Not provided	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	N/A	Not provided	Not provided	N/A
Marion County Growth Services	N/A	B006	Marion County Springs Protection Zones	Comprehensive Plan Future Land Use Element Objective 7.2 establishes SPOZ and identifies extent of Primary and Secondary Zones along with other design and development standards. Articles 5 and 6 of LDC set forth specific design and development criteria related to applicable SPOZ.	Study	Completed	Not provided	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	N/A	Not provided	Not provided	N/A
Marion County Office of the County Engineer	N/A	B007	Marion County Irrigation Ordinance	Ordinance sets enforceable irrigation schedule and rates for Marion County; also identifies efficient irrigation systems exempt from schedule.	Regulations, Ordinances, and Guidelines	Completed	Not provided	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	Not provided	County	Not provided	N/A
Marion County Office of the County Engineer	N/A	B008	Marion County Fertilizer Ordinance	County FFL fertilizer use on urban landscapes ordinance regulates proper use of fertilizers by any applicator; requires proper training of commercial and institutional fertilizer applicators; establishes training and licensing requirements; and specifies allowable fertilizer application rates and methods, fertilizer-free zones, low-maintenance zones, and exemptions. It requires use of BMPs that provide	Regulations, Ordinances, and Guidelines	Completed	Not provided	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	Not provided	County	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				specific management guidelines to minimize negative secondary and cumulative environmental effects associated with misuse of fertilizers; latest LDC now includes 2008 ordinance.												
Florida Forest Service	N/A	B009	Silviculture BMP Implementation and Compliance	Covers silviculture lands in Rainbow and Silver Springs BMAP areas. BMPs for silviculture are applicable to public and private industrial and nonindustrial forest lands. Silviculture BMPs are minimum standards for protecting and maintaining water quality during ongoing silviculture activities, including forest fertilization. Projects include biennial BMP surveys, targeted training, and technical assistance for landowners and forestry professionals.	Agriculture BMPs	Completed	N/A	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	Not provided	Not provided	Not provided	N/A
Marion County Office of the County Engineer	N/A	B010	Clean Farms Initiative	Clean Farms Initiative was designed to assist Marion County farm owners and managers with implementation of BMPs, and to recognize their cooperative efforts. As part of initiative, more than 7,500 surveys and brochures were mailed in 2006 to owners of agricultural land, ranging from large operations of several hundred acres to small tracts with fewer than 12 animals. Survey measures current manure management and fertilization practices. Results of survey, and input from focus groups held in February and March 2007, were used to	Agriculture BMPs	Completed	N/A	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	Not provided	Not provided	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				create Farm Outreach Coordinator position to educate horse farm owners and managers on water quality, targeting practices such as manure management and fertilization.												
UF-IFAS Extension Marion County	SWFWMD, UF-IFAS	B011	Water Quality Education and Equine Farm BMPs	Equine BMPs and Manure Management Education and Outreach Program sponsored by UF-IFAS Extension and Marion County. From 2010 to 2013, program developed 44 types of educational materials, made 3,507 client consultations, 464 of which were in field; 301 producers participated in group education events, including manure management summit and tour. Program website received 446 views during this period. Program is ongoing.	Agriculture BMPs	Completed	N/A	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	Not provided	UF-IFAS	Not provided	N/A
DEP	TBD	B012	Implementation of Outreach Program for Small Equine BMP Manual	Small Equine BMP manual is intended to educate owners of noncommercial horse farms on BMPs to reduce nutrient loads. Outreach program will be developed for effective implementation of BMPs on noncommercial horse farms in Silver and Rainbow Springs BMAP areas. Implementation program will consist of identification of key agencies with existing public education activities where BMP manual can be incorporated, development or modification of existing recognition programs to provide measureable	Agriculture BMPs	Completed	N/A	N/A	N/A	Rainbow Spring Basin, Silver Spring Basin	N/A	Not provided	Not provided	Not provided	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				goals for both participants and types of BMPs implemented, and identification of existing cost-share programs that may assist noncommercial operations in BMP implementation.												
FDOT District 5	N/A	B022	SR 40 Design Project-Pond 3	238719-1, SR 40 from CR 328 to SW 80th Ave. (CR 225A) – Pond 3/dry retention; closed basin in poorly drained soils.	Retention BMP	Underway	2020	12	2	WBID 1320A – Outside PFA	9.0	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	B023	SR 40 Design Project-Pond 4	238719-1, SR 40 from CR 328 to SW 80th Ave. (CR 225A) – Pond 4/dry retention; closed basin in poorly drained soils.	Retention BMP	Underway	2020	16	2	WBID 1320A – Outside PFA	12.5	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	B024	SR 40 Design Project-Pond 5	238719-1, SR 40 from CR 328 to SW 80th Ave. (CR 225A) – Pond 5/dry retention; closed basin in poorly drained soils	Retention BMP	Underway	2020	14	2	WBID 1320A – Outside PFA	10.9	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	B025	SR 40 Design Project-Pond 6	238719-1, SR 40 from CR 328 to SW 80th Ave. (CR 225A) – Pond 6/dry retention; closed basin in poorly drained soils	Retention BMP	Underway	2020	12	2	WBID 1320A – Outside PFA	9.3	Not provided	Not provided	Florida Legislature	Not provided	N/A
Marion County Office of the County Engineer	SWFWMD	B028	SW 85th St/ SW 40th Ave Stormwater Retrofit	Construction of drainage retention area lined with Bold and Gold™ soil amendment to enhance nitrogen removal. Post-construction event monitoring shows 70 % reduction in TN through soil amendment layer.	Retention BMP with Nutrient-Reducing Media	Completed	2012	98	N/A	WBID 1320A – Outside PFA	32.0	\$330,000	Not provided	Marion County Stormwater Assessment/ SWFWMD Cooperative Funding	Not provided	N/A
Marion County Office of the County Engineer	SWFWMD	B029	West Hwy. 316 at 119th Ave Stormwater Retrofit	Proposed project to construct wet retention area to reduce nitrate in stormwater runoff from transportation and residential land uses that is currently infiltrating to aquifer without treatment. Project is currently identified in adopted 2014 Stormwater Implementation Plan.	Retention BMP	Completed	2016	29	0	WBID 1320A – Outside PFA	55.6	\$52,654	Not provided	Marion County Stormwater Assessment/ SWFWMD Cooperative Funding	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Marion County Office of the County Engineer	N/A	B030	West Hwy. 316 at Hwy. 329 Stormwater Retrofit	Proposed project to construct retention area to reduce nitrate in stormwater runoff from transportation and residential land uses that is currently infiltrating to aquifer without treatment. Project is currently identified in adopted 2014 Stormwater Implementation Plan.	Retention BMP	Canceled	N/A	N/A	N/A	WBID 1320A – Outside PFA	N/A	N/A	N/A	N/A	N/A	N/A
Marion County Office of the County Engineer	N/A	B032	Sinkhole Repair Program in County DRAs	Part of ongoing stormwater system maintenance activities. Performed as needed by county crews or contractors depending on size and scope of repair.	Stormwater System O&M	Completed	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	N/A	\$50,000	County Annual Stormwater Budget for Internal Repairs – \$50,000 Typical Annual Expenditure for Contracted Repairs from Stormwater Budget – \$10,000 to \$100,000	Not provided	N/A
Marion County Office of the County Engineer	N/A	B033	Street Sweeping of Marion County Roads	Sweeping of county-maintained roads. Sweeping of roads with curb and gutter is completed 9 times/yr. Benefits: Remove debris, sediment, and potential pollutants from streets. Prevent entry into storm sewer system.	Street Sweeping	Completed	N/A	194	124	WBID 1320A – including PFA	N/A	N/A	\$46,000	County Stormwater Assessment	Not provided	N/A
Marion County Office of the County Engineer	SWFWMD	B034	Marion County WMP	Countywide WMPs prepare that include creation and maintenance of comprehensive geodatabase for county storm sewer system data, watershed boundaries and hydrologic features countywide.	Study	Completed	Not provided	N/A	N/A	WBID 1320A – including PFA	N/A	\$337,000	N/A	County Stormwater Assessment/ SWFWMD	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Marion County Office of the County Engineer	N/A	B035	Marion County Aquifer Vulnerability Assessment	<p>Identification of vulnerable areas of aquifer. Project provided scientifically defensible water resource management and protection tool that facilitates planning of human activities to help minimize adverse impacts on groundwater quality. Aquifer vulnerability maps are displayed in classes of relative vulnerability (one area is more vulnerable than another). Maps benefit local government, planners and developers in guiding growth into more appropriate areas (e.g., groundwater recharge areas) and improve site selection for expanding existing or establishing new well fields. Benefits: Identifies areas where aquifer is vulnerable to pollution. Potential future management activities in those areas to reduce pollution of groundwater.</p>	Study	Completed	2007	N/A	N/A	WBID 1320A – including PFA	N/A	\$82,850	N/A	County Stormwater Assessment	\$82,850	N/A
Marion County Office of the County Engineer	Not provided	B036	Public Education Coordination	<p>Formation of public education coordination team consisting of representatives from local government, state agencies, WMDs, and local interest groups. Purpose would be to provide consistent and accurate information on pollution prevention to citizens and maximize efforts among team members.</p>	Education Efforts	Completed	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Local, State, and Federal Agencies/ WMDs/ Local Interest Groups	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Marion County Office of the County Engineer	N/A	B037	Marion County Stormwater Program – NPDES MS4 Permit	Public outreach and education programs including informational pamphlet distribution, PSAs, and public outreach events. Other efforts include illicit discharge inspection and education, mapping and modeling efforts, construction site pollution prevention program, and municipal operations pollution prevention program.	Education Efforts	Completed	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	\$3,500,000	County Stormwater Assessment	Not provided	N/A
FDOT Districts 2 and 5	N/A	B038	FDOT Public Education	FDOT conducts inspections and provides annual illicit discharge, spill prevention and erosion and sediment control training to staff and contractors.	Education Efforts	Completed	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Florida Legislature	Not provided	N/A
Rainbow River Conservation	N/A	B039	Springs Awareness for Educators	A workshop for Marion County teachers and educators to provide resources on springs, water issues and wildlife which can be used in classroom to enhance teaching common core standards.	Education Efforts	Completed	N/A	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	SWFWMD/ Florida Springs Institute	Not provided	N/A
Private Interest	N/A	B040	Collection Center for Septic System Pumpage	Proposed project to construct centralized collection center for septic tank pumpage in lieu of current land application. Collection center would process pumpage and discharge into municipal collection system. Project is conceptual. SB 550 would ban land application of septic pumpage effective 2016.	Wastewater Service Area Expansion	Canceled	N/A	N/A	N/A	Rainbow River Basin and Silver Spring Basin	N/A	N/A	N/A	N/A	N/A	N/A
FDACS	N/A	B041	FDACS Cost-Share Programs	FDACS will provide at least \$250,000 in BMP cost-share for Silver Springs/Rainbow Springs BMAP areas.	Agriculture BMPs	Underway	2020	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	FDACS Cost-Share	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
FDACS	N/A	B042	FDACS Refinement of Appropriate BMPs	To help focus cost-share expenditures and BMP implementation follow-up, FDACS will review rule-adopted cow/calf and equine BMPs to identify practices likely to have greatest nutrient load reduction benefits.	Agriculture BMPs	Underway	2020	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Not provided	Not provided	N/A
UF-IFAS Extension Marion County	N/A	B043	Technical Agriculture Committee	Formation of technical agriculture committee consisting of representatives from local interest groups, local government, WMDs, and state agencies. Group purpose would be to ensure consistent and accurate information for pollutant load contribution associated with agricultural uses and evaluate effectiveness of BMPs.	Agriculture BMPs	Underway	2020	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Not provided	Not provided	N/A
UF-IFAS Extension Marion County	N/A	B044	Assessment of Role of Beef Cattle in Nitrogen Loading in Silver and Rainbow Springs Basin	As part of BMAP, inventories have been developed that estimate relative nitrogen loading from different sources or categories of land use in basins. Concerns have been expressed that amount of nitrogen load allocated to cattle may not accurately reflect key characteristics of Florida cow-calf production system. These issues include typical cattle stocking rates on pasture, low inputs of commercial nitrogen fertilizer to pasture systems, diets that are based on C4 (i.e., warm climate) grasses which have relatively low nitrogen concentration, nitrogen levels in dung and urine that are not comparable to those of dairy animals or beef	Study	Underway	2019	N/A	N/A	WBID 1320A – including PFA	N/A	\$495,000	N/A	Florida Legislature	Not provided	N/A

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				cattle on feedlot, significant gaseous losses of nitrogen from animal waste, capability of grass roots to efficiently capture nitrogen as it passes through rooting zone, and amount of nitrogen stored in below-ground organs of pasture grasses. More accurate quantification of these characteristics for specific conditions of regional production systems will aid assessments of nitrogen loading from cattle operations.												
FDACS	N/A	B045	Revised Vegetable and Agronomic Crop BMP Manual	In 2015, FDACS OAWP adopted revised vegetable and agronomic crop manual that includes specific nutrient and irrigation management BMPs for plastic mulch, bare ground, sugar cane, hay/silage, and greenhouse production systems.	Agriculture BMPs	Completed	2015	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Not provided	Not provided	N/A
FDACS	N/A	B046	Dairy BMP Manual	In early 2016, FDACS adopted dairy manual that targets dairies that do not have DEP-issued NPDES permits.	Agriculture BMPs	Completed	2016	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Not provided	Not provided	N/A
FDACS	N/A	B047	Poultry BMP Manual	OAWP adopted poultry BMP manual in June 2016.	Agriculture BMPs	Completed	2016	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Not provided	Not provided	N/A
FDACS	N/A	B048	Enhanced IA Program	Additional emphasis was given to IA in 2016 legislation, particularly Chapter 2016-1, Laws of Florida. Among its provisions, law requires enhancement and formalization of OAWP IA policies and procedures through rulemaking. Rulemaking will be initiated prior to January 1, 2017. Once rulemaking is completed,	Agriculture BMPs	Underway	2018	N/A	N/A	WBID 1320A – including PFA	N/A	Not provided	Not provided	Not provided	Not provided	N/A

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				<p>FDACS will implement enhanced IA Program and more detailed reporting, as prescribed by legislation, on site visits and surveys will be provided on annual basis. Enhanced IA Program, as component of FDACS BMP Program, will be designed:</p> <ul style="list-style-type: none"> • To provide accurate and timely information on status of BMP enrollments. • To provide accurate and timely information on extent of BMP implementation. • To provide information from which reports on BMP enrollment and implementation can be made to BMAP stakeholders and to annual report required by Chapter 2016-1, Section 34, Laws of Florida. • To inform educational, research, and technical assistance efforts targeted to strengthen BMP implementation and effectiveness. • To guide review and potential revision of BMP manuals. 												
City of Ocala	N/A	B049	Fox Meadow Sewer Expansion Project	<p>Project objective is to design and construct sanitary sewer system which will remove from service 275 septic tanks from associated single-family residential lots. Septic tanks contribute to TN and TP impairment of Rainbow Springs and Rainbow River.</p>	Septic Tank Phase Out, Wastewater Service Area Expansion	Planned	2020	TBD	N/A	Rainbow Springs Basin and Silver Springs Basin	N/A	\$4,705,000	Not provided	City	Not provided	Not provided

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City of Ocala	N/A	B050	Fairfield Village Sewer Expansion Project	Project objective is to design and construct sanitary sewer system that will remove from service package plant serving 350 mixed-use residential lots and 1 community center. Package plant contributes to TN and TP impairment of Rainbow Springs and Rainbow River.	Package Plant Phase Out, Wastewater Service Area Expansion	Planned	2020	TBD	N/A	Rainbow Springs Basin and Silver Springs Basin	N/A	\$875,000	N/A	City	Not provided	Not provided
City of Ocala	N/A	B051	Timberwood Sewer Expansion Project	Project objective is to design and construct sanitary sewer system that will remove from service 180 septic tanks from associated single-family residential lots. Septic tanks contribute to TN and TP impairment of Rainbow Springs and Rainbow River.	Septic Tank Phase Out, Wastewater Service Area Expansion	Planned	2020	TBD	N/A	Rainbow Springs Basin and Silver Springs Basin	N/A	\$3,316,000	Not provided	City	Not provided	Not provided
Alachua County Environmental Protection Dept. (ACEPD)	N/A	S001	Fertilizer and Landscape Irrigation Codes	County will adopt and enforce Fertilizer Management and Landscape Irrigation Ordinances. Benefits: Reduce volume of runoff from over irrigation and reduce nutrient loading from use of fertilizers. Implements Alachua County Comp Plan Conservation and Open Space Element – Surface Water Systems Objective 4.6	Regulations, Ordinances, and Guidelines	Completed	Not provided	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	County General Fund	Not provided	N/A
Villages Center CDD	N/A	S002	Stormwater Management-Policy Adoption	Adopted policy prohibits illicit discharges for VCDD No. 1	Regulations, Ordinances, and Guidelines	Completed	Not provided	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CDD	Not provided	N/A
Lake County Economic Growth	N/A	S003	Golf Course Resource Management Plan	Golf course resource management plans are applicable to unincorporated portion of Lake County for new and existing golf courses; regulatory approach will provide protection to groundwater and surface water.	Regulations, Ordinances, and Guidelines	Completed	Not provided	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Lake County	Not provided	N/A

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Lake County Public Works	N/A	S004	Lake County Shoreline Protection Guide	Guide for lakefront land owners on water resource issues including shoreline protection, stormwater BMPs, erosion, and aquatic plants. Outreach program targeted at county residents. Inform property owners of better land management practices to improve water quality protection.	Regulations, Ordinances, and Guidelines	Completed	Not provided	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	County	Not provided	N/A
DEP – Division of State Lands	Marion County	S005	Acquisition of Indian Lake State Forest	Acquisition of 4,400 ac of sandhills and pasture land previously known as Avatar property. Forest is within 2- and 10-yr modeled capture areas for Silver Springs and contains Indian Lake, karst feature directly connected to Upper Floridan aquifer (UFA), and numerous sinkholes. Restoration of native sandhills is underway. Forest was acquired with FCT contributing \$76,000,000, with additional \$2,000,000 provided by Marion County.	Land Acquisition	Completed	2007	N/A	N/A	Silver Springs Basin	4,400.0	\$78,000,000	N/A	FCT/ Marion County	Not provided	N/A
DEP – Division of State Land	Marion County	S006	Silver Springs Conservation Area	Acquisition of 346 ac of undeveloped land directly across SR 35 from Silver Springs State Park. Land was acquired under Florida's First Magnitude Springs Project by Division of State Lands. By preserving land around springs, project will aid in protection of springs, karst windows, and Floridan aquifer from effects of commercial, residential, and agricultural runoff; clearcutting and mining; and unsupervised recreation.	Land Acquisition	Completed	2005	N/A	N/A	Silver Springs Basin	346.0	\$7,847,000	N/A	FCT	Not provided	N/A

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ACEPD	Not provided	S007	Little Orange Creek Land Acquisition	No increase in surface runoff of pollutants because of land use change, continued aquifer recharge and ecosystem/habitat preservation; implement Alachua County Comp Plan Conservation and Open Space Element – Alachua County Forever Policy 6.2.1.	Land Acquisition	Completed	2012	N/A	N/A	Silver Springs Basin	699.0	\$795,438	N/A	County Fee Simple/ Wild Spaces and Public Places Sales Tax/ North American Wetland Act Grant/ Alachua Conservation Trust	Not provided	N/A
ACEPD	Alachua Conservation Trust, Florida Conservation Trust	S008	Phifer Flatwoods Land Acquisition #1 – Lochloosa Creek	No increase in surface runoff of pollutants because of land use change, continued aquifer recharge and ecosystem/habitat preservation; implement Alachua County Comp Plan Conservation and Open Space Element – Alachua County Forever Policy 6.2.1.	Land Acquisition	Completed	2006	N/A	N/A	Silver Springs Basin	600.0	\$2,882,239	N/A	County Forever Bond Proceeds	Not provided	N/A
ACEPD	N/A	S009	Phifer Flatwoods Land Acquisition #2 – Lochloosa Creek; Little Lochloosa Creek	No increase in surface runoff of pollutants because of land use change, continued aquifer recharge and ecosystem/habitat preservation; implement Alachua County Comp Plan Conservation and Open Space Element – Alachua County Forever Policy 6.2.1.	Land Acquisition	Completed	2009	N/A	N/A	Silver Springs Basin	380.0	\$1,170,864	N/A	County Forever Bond Proceeds	Not provided	N/A
ACEPD	SJRWMD	S010	Longleaf Flatwoods Preserve Land Acquisition	No increase in surface runoff of pollutants because of land use change, continued aquifer recharge and ecosystem/habitat preservation; implement Alachua County Comp Plan Conservation and Open Space Element – Alachua County Forever Policy 6.2.1.	Land Acquisition	Completed	2003	N/A	N/A	Silver Springs Basin	1,388.5	\$2,259,654	N/A	County Forever Bond Proceeds	Not provided	N/A

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ACEPD	SJRWMD	S011	Rayonier Tract Acquisition (River Styx)	No increase in surface runoff of pollutants because of land use change, continued aquifer recharge and ecosystem/habitat preservation; implement Alachua County Comp Plan Conservation and Open Space Element – Alachua County Forever Policy 6.2.1.	Land Acquisition	Completed	2008	N/A	N/A	Silver Springs Basin	1,450.0	\$4,855,506	N/A	County Forever Bond Proceeds/ SJRWMD/ Federal Forest Legacy Program (FFLP)	Not provided	N/A
ACEPD	NRCS	S012	Freddy Wood Land Tract Acquisition	No increase in surface runoff of pollutants because of land use change, continued aquifer recharge and ecosystem/habitat preservation; implement Alachua County Comp Plan Conservation and Open Space Element – Alachua County Forever Policy 6.2.1.	Land Acquisition	Completed	2008	N/A	N/A	Silver Springs Basin	600.0	\$1,136,000	N/A	County Forever Bond proceeds/ FFLP	Not provided	N/A
SJRWMD	Alachua County	S013	LochLoosa Wildlife Conservation Area	Acquisition of land around Lochloosa Lake and around north side of Orange Lake for Lochloosa Wildlife Conservation Area. Benefits: No increase in surface runoff of pollutants because of land use change.	Land Acquisition	Completed	2003	N/A	N/A	Silver Springs Basin	28,337.0	\$16,058,211	N/A	SJRWMD Ad Valorem/ Preservation 2000/ Alachua County Cost-Share	Not provided	N/A
City of Ocala	SJRWMD, FDOT, DEP	S014	City of Ocala Silver Spring/ River Pollution Reduction Project	Addresses surface water discharge. Project provided water quality treatment for 4 drainage basins in City of Ocala. Basins historically discharged untreated stormwater runoff to Half-Mile Creek via SR 40/Silver Springs Blvd. Storm sewer system.	Not provided	Completed	2018	617	207	Silver Springs Basin	738.3	\$3,501,034	Not provided	SJRWMD/ FDOT/ DEP/ Community Budget Issue Request (CBIR)/ City Stormwater Utility Fees	Not provided	Not provided

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FDOT District 2	N/A	S015	SR 20 Widening	Addresses surface water. Eastern urban area of Gainesville and Alachua County. Widening of SR 20 from 2- to 4-lane road with stormwater runoff treatment; 3 wet detention ponds installed to treat stormwater runoff along with more than 100 ditch blocks to capture runoff. Benefits: Pollutant removal by treatment of stormwater runoff. No previous treatment.	Wet Detention Pond	Completed	2006	3,665	362	Silver Springs Basin	355.0	\$10,763,788	Not provided	State Legislature	\$10,763,788	N/A
FDOT District 5	N/A	S017	SR 500 (US Hwy. 441) Design Project-Basin C	238395-4, SR 500 (US Hwy. 441) from Martin Luther King to Lake Ella Rd.– Basin C/ Wet detention; open basin discharge to Lake Griffin.	Wet Detention Pond	Completed	2014	11	8	Silver Springs Basin	13.9	Not provided	Not provided	State Legislature	Not provided	N/A
FDOT District 5	N/A	S019	SR 500 (US Hwy. 441) Design Project-Basin E	238395-4, SR 500 (US Hwy. 441) from Martin Luther King to Lake Ella Rd.– Basin E/ Dry retention; open basin discharge to Lake Griffin.	Retention BMP	Completed	2014	59	8	Silver Springs Basin	9.9	Not provided	Not provided	State Legislature	Not provided	N/A
FDOT District 5	N/A	S027	SR 35 Design Project-Pond 9	238677-1, SR 35 from SR 464 (Maricamp Rd.) to SR 40 – Basin 9 (Pond 9)/ Dry rRetention.	Retention BMP	Completed	2012	3	0	Silver Springs Basin	3.3	Not provided	Not provided	State Legislature	Not provided	N/A
Marion County Office of the County Engineer	DEP/ SJRWMD	S030	31st St. Stormwater Retrofit	Construction of stormwater wetland to treat runoff from US Hwy. 441 and adjacent commercial land uses prior to discharge to active sinkhole. Project was jointly funded by Marion Conty, DEP, and SJRWMD. Post-construction monitoring found 72 % reduction in nitrate concentrations in wetland.	Wetland Treatment	Completed	2009	3	19	Silver Springs Basin	26.0	\$600,000	Not provided	County Stormwater Assessment/ SJRWMD/ DEP	Not provided	Not provided

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Marion County Office of the County Engineer	DEP/ SJRWMD/ FDOT	S031	Marion County Silver Springs/River Pollution Reduction Project	Addresses surface water discharge. Construction of pump station to intercept runoff from 42.6 ac of SR 40 right-of-way and adjacent commercial land uses prior to discharge to Half-Mile Creek, tributary of Silver River. Runoff is pumped to retention pond located on state lands across from Silver Springs Attraction. Marion County was lead agency for engineering design and construction. Project partners each contributed funds towards construction.	Retention BMP	Completed	2010	1,922	625	Silver Springs Basin	505.0	\$1,766,828	Not provided	County Stormwater Assessment/ SJRWMD/ DEP/ FDOT	Not provided	Not provided
Marion County Office of the County Engineer	DEP/ University of Central Florida (UCF)/ SJRWMD/ SWFWMD	S032	Hunter's Trace Retention Area Retrofit	Project was field-scale research installation of Bold and Gold™ soil amendment. Project goal was to assess pollutant-removal potential of 12 in of Bold and Gold™. Construction and postconstruction monitoring conducted through UCF. Final report to DEP found 50 % removal of nitrogen through soil amendment layer.	Retention BMP Retrofit with Nutrient-Reducing Media	Completed	2009	Not provided	N/A	Silver Springs Basin	56.0	\$500,000	Not provided	County Stormwater Assessment/ SWFWMD/ DEP	Not provided	Not provided
Marion County Office of the County Engineer	N/A	S033	Country Gardens Stormwater Retrofit	Proposed project to construct retention area to treat stormwater runoff from residential land uses that currently discharge to relict sinkhole/quarry.	Retention BMP	Planned	2017	14	3	Silver Springs Basin	33.2	\$188,500	Not provided	County Stormwater Assessment	Not provided	N/A
City of Belleview	DEP/ Marion County	S034	US Hwy. 441 Sewer Main Expansion	Construction of new sewer line south of city along US Hwy. 441. Sewer line will allow commercial and residential area to hook up to centralized system. Project will provide 79 central sewer connections to rapidly developing corridor, with potential	Wastewater Service Area Expansion	Completed	2016	1,889	N/A	Silver Springs Basin	N/A	\$1,000,000	Not provided	DEP/ Marion County Economic Development Infrastructure Grant (EDIG)	Not provided	Not provided

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				for up to 60 more connections.												
City of Ocala	DEP/ SJRWMD	S035	Citywide Septic Tank and Well Elimination Program	Project includes connection of remaining septic tanks in city at no cost to homeowners. Septic tanks contribute 26 % to 40 % of pollutant load to groundwater in springshed. Elimination of septic tanks will reduce nitrogen loading to Silver Springs by 20,321 lbs/yr.	Septic Tank Phase Out	Underway	2018	20,321	N/A	Silver Springs Basin	N/A	\$10,500,000	N/A	City/ DEP, SJRWMD/ Florida Legislature	DEP- \$5,000,000, SJRWMD – \$5,000,000 Florida Legislature – \$500,000	Not provided
City of Ocala	N/A	S036	Package Plant Abatement	Connection of White Oak Mobile Home Park (MHP), Magnolia Gardens, and 301 Plaza to central sewer.	Package Plant Phase Out, Wastewater Service Area Expansion	Completed	2015–16	546	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
Marion County Utilities	DEP, SJRWMD	S037	Divert Wastewater Flows from Silver Springs Regional WWTF to Silver Springs Shores (SSS) WWTF	Install 3-mi-long force main that will reroute all sewage from Silver Springs Regional wastewater plant to SSS WWTF. Route of new force main will allow other decentralized wastewater plants in vicinity of Silver Springs to connect in future.	Package Plant Phase Out, Wastewater Service Area Expansion	Completed	2015	16,438	N/A	Silver Springs Basin	N/A	\$1,023,114	Not provided	County Utilities Fund/, DEP TMDL Fund/ SJRWMD	County Utilities Fund – \$563,057 DEP TMDL Fund – \$463,056.96 SJRWMD – \$100,000	S0628
Marion County Utilities	N/A	S038	SSS WWTF Upgrade	Upgrading existing WWTP located in SSS to reclaimed quality effluent standards. Utility customers are already paying \$5,031,738 for treatment facility upgrades.	WWTF Upgrade	Completed	2015	10,331	N/A	Silver Springs Basin	N/A	\$5,031,738	Not provided	County Utilities	\$5,031,738	N/A
Villages Center CDD	N/A	S039	Villages Center Service Area (VCSA) WWTP – Anaerobic Denitrification	WWTP includes anoxic basin for denitrification of NO ₃ , which reduces NO ₃ discharge in WWTP effluent.	WWTF Nutrient Reduction	Completed	2012	Not provided	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CDD	Not provided	N/A
Villages Center CDD	N/A	S040	Little Sumter Service Area (LSSA) WWTP – Anaerobic Denitrification	WWTP includes anoxic basin for denitrification of NO ₃ , which reduces NO ₃ discharge in WWTP effluent.	WWTF Nutrient Reduction	Completed	2012	Not provided	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CDD	Not provided	N/A
Village Center CDD	N/A	S041	North Sumter Utilities (NSU) WWTP –	WWTP includes anoxic basin for denitrification of NO ₃ , which reduces NO ₃	WWTF Nutrient Reduction	Completed	2012	Not provided	N/A	Silver Springs Basin	N/A	Not provided	Not provided	North Sumter County Utility	Not provided	N/A

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			Anaerobic Denitrification	discharge in WWTP effluent.										Dependent District		
City of Ocala	Not provided	S042	Reuse Projects	Reuse projects to 3 golf courses and city parks and recreation sites. Courses may be served by any of sewer facilities because of infrastructure configuration.	Reclaimed Water	Completed	2015–16	Not provided	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
Villages Center CDD	N/A	S043	VCSA WWTP – Reuse	Public access reuse system provides reclaimed water for irrigation of golf courses and roadways.	Reclaimed Water	Completed	2012	21,706	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CDD	Not provided	N/A
Villages Center CDD	N/A	S044	LSSA WWTP – Reuse	Public access reuse system provides reclaimed water for irrigation of golf courses and roadways.	Reclaimed Water	Completed	2012	45,835	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CDD	Not provided	N/A
Villages Center CDD	North Sumter County Utility Dependent District	S045	NSU WWTP – Reuse	Public access reuse system provides reclaimed water for irrigation of golf courses.	Reclaimed Water	Completed	2012	42,974	N/A	Silver Springs Basin	N/A	Not provided	Not provided	North Sumter County Utility Dependent District	Not provided	N/A
Villages Center CDD	Central Sumter Utility (CSU)	S046	CSU WWTP – Reuse	Public access reuse system provides reclaimed water for irrigation of golf courses.	Reclaimed Water	Completed	2013	8,584	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CSU	Not provided	N/A
FDOT District 5	N/A	S047	Fertilizer Cessation	FDOT O&M fertilizer cessation.	Fertilizer Cessation	Completed	N/A	27,508	N/A	Silver Springs Basin	N/A	N/A	N/A	N/A	N/A	N/A
Villages Center CDD	N/A	S048	Staff Training	Train staff and certain subcontractors to aid in identification of illicit discharges as well as reduce/eliminate illicit discharges and improper disposal of waste internally.	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	N/A	Not provided	CDD/ North Sumter County Utility Dependent District/ Sumter Landing CDD	Not provided	N/A
Villages Center CDD	Sumter Landing CDD	S049	Pond Maintenance	Pond maintenance to ensure optimal pollutant removal and verify performance is at design criteria by monthly checks and treating nuisance species such as algae, grasses, hydrilla, spike rush, duckweed, cattails, etc., as necessary.	Stormwater System O&M	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	N/A	Not provided	CCD/ Sumter Landing CDD	Not provided	N/A

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Villages Center CDD	Sumter Landing CDD	S050	Stormwater System Inspections	Routine stormwater system inspections, cleaning, and maintenance performed as needed.	Stormwater System O&M	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	N/A	Not provided	CDD/ Sumter Landing CDD	Not provided	N/A
Town of Lady Lake	DEO	S051	Skyline Dr. Drainage Improvement	Improved stormwater conveyance system. Area covers Skyline Dr. north to Ray St., west to Summit St., and east to High St..	Stormwater System Rehabilitation	Completed	2014	Not provided	N/A	Silver Springs Basin	N/A	\$1,300,000	Not provided	Town/ DEO	Not provided	N/A
Town of Lady Lake	DEP/ City of Ocala (Potentially)	S052	Lady Lake Stormwater System Maintenance	Townwide curb and gutter cleaning and catch basin vacuuming. Removes pollutants and debris before entering storm sewer system. Benchmark frequency for this routine maintenance is quarterly or as needed.	BMP Clean Out	Completed	N/A	Not provided	N/A	Silver Springs Basin	N/A	N/A	Not provided	Town	Not provided	N/A
FDOT District 5	N/A	S053	SR40 Stormwater Pump Station O&M	O&M of pump station and collection system constructed as part of Marion County portion of Silver/Springs River Pollution Reduction Project. Activities include servicing and repair of pump station and clean out of accumulated sediment. Construction cost is FDOT contribution to Marion County project. Treated acres are portion of drainage area in FDOT rights-of-way.	Stormwater System O&M	Completed	N/A	249	33	Silver Springs Basin	42.6	\$595,927	Not provided	State Legislature	Not provided	N/A
City of Belleview	N/A	S054	Collection System Maintenance Program	Rehabilitation of 200 brick manholes to date and pipe replacement as needed.	Sanitary Sewer and WWTF Maintenance	Completed	2010	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocala	N/A	S055	Collection System Maintenance Program	Maintenance program has used TV inspection on entire collection system. Slip lining of 175,000 ft of clay pipe is complete and 40,000 ft/yr scheduled through 2020. Lift stations are upgraded at rate of about 3 per yr. System and plants are	Sanitary Sewer and WWTF Maintenance	Completed	2020	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Not provided	Not provided	N/A

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				SCADA controlled and flows can be rerouted.												
Marion County Utilities	N/A	S056	Collection System Maintenance Program	Collection system maintenance program includes lift station maintenance and addition of SCADA. Capital improvement plan (CIP) calls for lift station renovation every 10 yrs and identifies pipe replacement needs. Pipes replaced as funding allows.	Sanitary Sewer and WWTF Maintenance	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	N/A	Not provided	Not provided	Not provided	N/A
Villages Center CDD	North Sumter County Utility Dependent District, CSU	S057	Sanitary Sewer Repairs	Inspection of main pipelines and manholes and timely repair of sewer and service line breaks.	Sanitary Sewer and WWTF Maintenance	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	N/A	Not provided	CDD/ North Sumter County Utility Dependent District/ CSU	Not provided	N/A
Villages Center CDD	North Sumter County Utility Dependent District/ CSU	S058	Sanitary Sewer Cleaning	Cleaning of 10 % of collection system/yr.	Sanitary Sewer and WWTF Maintenance	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	N/A	Not provided	CDD/ North Sumter County Utility Dependent District/ CSU	Not provided	N/A
Villages Center CDD	North Sumter County Utility Dependent District/ CSU/ Sumter Water Conservation Authority	S059	Lift Station Rehabilitation	VCSA Lift Station No. 12 Rehabilitation.	Sanitary Sewer and WWTF Maintenance	Completed	2013	N/A	N/A	Silver Springs Basin	N/A	\$75,000	N/A	CDD/ North Sumter County Utility Dependent District/ CSU/ Sumter Water Conservation Authority	Not provided	N/A
Villages Center CDD	N/A	S060	Lift Station Rehabilitation	VCSA Lift Station Nos. 4, 8, 13, and 14 Rehabilitation	Sanitary Sewer and WWTF Maintenance	Completed	2014	N/A	N/A	Silver Springs Basin	N/A	\$150,000	N/A	CDD	\$150,000	N/A
Villages Center CDD	N/A	S061	Lift Station Rehabilitation	VCSA List Station Nos. 16 and 33 Replace risers and recoat wetwell; LSSA List Station No. 16 Replace risers and recoat wet well.	Sanitary Sewer and WWTF Maintenance	Completed	2016	N/A	N/A	Silver Springs Basin	N/A	\$118,000	N/A	CDD	\$118,000	N/A
Villages Center CDD	N/A	S062	Sanitary Sewer Replacement	VCSA Sanitary Sewer Replacement.	Sanitary Sewer and WWTF Maintenance	Completed	2016	N/A	N/A	Silver Springs Basin	N/A	\$250,000	N/A	CDD	\$250,000	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Villages Center CDD	N/A	S063	Street Sweeping	All shopping centers and all 3 downtown areas anywhere from 3 times per week to quarterly, depending on location.	Street Sweeping	Completed	N/A	Not provided	N/A	Silver Springs Basin	N/A	N/A	Not provided	Villages Center CDD	Not provided	N/A
FDOT District 2	City of Gainesville	S064	SR Street Sweeping	Street sweeping of state roads in urbanized areas that have curb and gutter. Includes US Hwy. 441, SR 26, SR 20, SR 24, SR 128, SR 222, and SR121. Areas are swept by City of Gainesville and contract personnel for FDOT. Minimum benchmark sweeping frequency is quarterly. Performance benchmark for debris and sediment collected is 125 tons/yr. Benefits: Remove debris, sediment, and potential pollutants from streets. Prevent entry into storm sewer system.	Street Sweeping	Completed	N/A	6,110	2,251	Silver Springs Basin	N/A	N/A	Not provided	Not provided	Not provided	N/A
Town of Lady Lake	N/A	S065	Lady Lake – Street Sweeping	Townwide street sweeping to remove dirt and debris. Benchmark frequency is quarterly or as needed. Removal of debris and potential pollutants prevents their entry into lakes. Performance benchmark is 250 cubic yds/yr of material removed.	Street Sweeping	Completed	N/A	12	N/A	Silver Springs Basin	N/A	N/A	\$25,000	Town	Not provided	N/A
DEP	U.S. Geological Survey (USGS)	S066	Groundwater-Surface Water Interaction Study Lake Lochloosa Area, Alachua and Marion Counties	Lake Lochloosa and Orange Lake Watersheds. Study examined groundwater pathways through which nutrients enter Lakes Lochloosa and Orange. Field investigations to determine levels of TP and TN in different aquifers associated with land use categories. Radon studies performed to estimate groundwater seepage into Lake	Study	Completed	2007	N/A	N/A	Silver Springs Basin	N/A	\$64,000	N/A	USGS	\$64,000	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				Lochloosa. Benefits: Better estimation of groundwater inputs of TP in TMDL models.												
SJRWMD	UF	S067	SJRWMD Springs Protection Initiative Science (SPIS)	<p>SJRWMD has initiated Springs Protection Initiative and recognizes effort as strategic priority for agency. Initiative includes 3 major components: projects, regulation, and science. Science component (SPIS) acknowledges that effective management of springs requires understanding of relative influences and manageabilities of numerous natural and anthropogenic factors that affect their ecological health, and that additional interdisciplinary research is needed to achieve this goal. Workgroups include Springshed Supergroup (Surface Water, Ground Water, and Nitrogen Biogeochemistry) and Springs Ecosystem Supergroup (Hydrology and Hydrodynamics, Biology, and Physicochemistry). Also, WMD has contracted with UF Water Institute for support. Work will focus on Silver Springs system and its springshed. Interdisciplinary workgroups will build on existing work and develop and merge data and models focusing on goal of providing sound scientific foundation for development of cost-effective approaches for management of activities to address issues in Silver</p>	Study	Completed	2017	N/A	N/A	Silver Springs Basin	N/A	Not provided	N/A	SJRWMD	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				Springs. Findings and results of 3-yr effort are expected to support future BMAP activities.												
SJRWMD	USGS	S068	SJRWMD Water Resource Information and Data Collection	SJRWMD has core monitoring in/on Silver Springs, Silver River, and contributing area to Silver Springs. Core monitoring consists of discharge monitoring, surface and groundwater levels, surface water and groundwater quality, and biological monitoring. As part of Springs Protection Initiative, WMD has added discharge monitoring site, increased number and sampling frequency of surface water and groundwater quality sites, increased biological monitoring, and added continuous water quality monitoring at 5 sites in Silver River. Upon conclusion of SPIS, some monitoring sites were eliminated.	Monitoring/ Data Collection	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	N/A	Not provided	SJRWMD	Not provided	N/A
ACEPD	City of Gainesville/ FDOT District 2	S069	Water Quality Protection BMP Training	Alachua County. Training and education for contractors, government, and citizens in sedimentation and erosion control to improve stormwater quality.	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	N/A	\$2,000	Gainesville Clean Water Partnership Cost-Share	Not provided	N/A
ACEPD	City of Gainesville/ FDOT District 2	S070	Pet Waste Outreach	Alachua County. Implement social marketing campaign to motivate citizens to scoop, bag, and trash dog wastes at home and in community. Benefits: Reduces bacteria and nutrient sources in all watersheds. Implements Alachua County Comp Plan Conservation and Open Space Element –	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	\$40,655	Not provided	Gainesville Clean Water Partnership Cost-Share	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				Surface Water Systems Objective 4.6.												
ACEPD	City of Gainesville/ FDOT District 2	S071	Landscape Debris Social Marketing	Alachua County. Implement social marketing campaign designed to get citizens to keep landscaping debris out of roads and stormwater collection systems. Benefits: Reduces bacteria and nutrient sources in all watersheds. Implements Alachua County Comp Plan Conservation and Open Space Element – Surface Water Systems Objective 4.6.	Education Efforts	Completed	2010	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Gainesville Clean Water Partnership Cost-Share	Not provided	N/A
ACEPD	City of Gainesville/ FDOT District 2	S072	Water Conservation and LID	Alachua County. Conduct targeted public outreach to encourage water conservation and rain harvesting. Includes rain barrel sales and LID promotion. Benefits: By harvesting rainwater and keeping stormwater on site, stormwater and pollutants it transports is decreased.	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Gainesville Clean Water Partnership Cost-Share	Not provided	N/A
ACEPD	City of Gainesville/ FDOT District 2	S073	Quantifying Nutrient Improvement in Street Sweeping	Gainesville urban area and Alachua County. Monitor and assess street sweepings to quantify nutrient reductions and subsequent potential water quality improvements. Benefits: Provide data to quantify nutrients in street sweepings and assess potential for water quality improvement. Implements Alachua County Comp Plan Conservation and Open Space Element – Surface Water Systems Objective 4.6 and policies.	Education Efforts, Monitoring/ Data Collection	Completed	2016	N/A	N/A	Silver Springs Basin	N/A	\$38,940	Not provided	Gainesville Clean Water Partnership Cost-Share	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
ACEPD	City of Gainesville/ FDOT District 2	S074	Landscaping Behavior Change Social Marketing	Gainesville urban area and Alachua County. Alachua County. Implement social marketing campaign designed to get citizens to make landscaping behavior changes that reduce nutrients in stormwater. Benefits: Reduces nutrient sources in all watersheds. Implements Alachua County Comp Plan Conservation and Open Space Element – Surface Water Systems Objective 4.6. Benefits: Behavior changes to reduce nutrient inputs to stormwater; implement Alachua County Comp Plan Conservation and Open Space Element – Education and Outreach Objective 2.2; Surface Water Systems Objective 4.6; Alachua County Unified Land Development Code (ULDC), Chapter 407 Article 4 Landscaping – 406.43 Water Resources Buffers; ULDC Article 9 Stormwater Management.	Education Efforts	Underway	TBD	N/A	N/A	Silver Springs Basin	N/A	Not provided	\$25,000	Gainesville Clean Water Partnership Cost-Share	Not provided	N/A
Villages Center CDD	North Sumter County Utility Dependent District	S076	Stormwater Management-Amenity Bill Inserts	Amenity bill inserts to address what residents can do to reduce stormwater impacts.	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	\$2,600	CDD/ North Sumter County Utility Dependent District	Not provided	N/A
Villages Center CDD	Villages Media Group/ North Sumter County Utility Dependent District	S077	Stormwater Management-Telephone Book Aid	Villages public service telephone book aid explaining purpose of stormwater program and how to participate in stormwater activities.	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CDD/ North Sumter County Utility Dependent District	Not provided	N/A
Villages Center CDD	Villages Media Group	S078	Stormwater Management-Public Service Newspaper Column	Created public service newspaper column in Villages newspaper to create awareness of effects of illicit	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Villages	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				discharges and illegal disposal.												
Villages Center CDD	North Sumter County Utility Dependent District/ CSU/ Sumter Water Conservation Authority/ UF-IFAS	S079	Stormwater Management-CDD School/ Hometown Social	Monthly public educational meeting with residents.	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	\$6,000	CDD/ North Sumter County Utility Dependent District/ CSU/ Sumter Water Conservation Authority	Not provided	N/A
Villages Center CDD	North Sumter County	S080	Illicit Discharge Awareness Notifications	Provide illicit discharge awareness notifications and educational material to area businesses to make them aware of hazards associated with illicit discharges and improper disposal of waste.	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	\$250	CDD/ North Sumter County Utility Dependent District	Not provided	N/A
Villages Center CDD	Sumter Landing CDD	S081	Stormwater Pollution on Website	Section of district website for residents provides education and links on stormwater pollution.	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CDD/ Sumter Landing CDD	Not provided	N/A
Town of Lady Lake	N/A	S082	Lady Lake NPDES Permit Education and Outreach	Town of Lady Lake uses consultant for education and outreach. Activities include PSAs in cooperation with City of Leesburg and SJRWMD, distribution of pamphlets, educational website, illicit discharge inspection and education program, utility bill inserts, and informational displays for proper irrigation techniques and landscape management.	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	\$7,500	Town	Not provided	N/A
Lake County Public Works	N/A	S083	Lake County NPDES Permit Education and Outreach	Activities include distribution of pamphlets and recurring and nonrecurring public outreach events. Other efforts include construction site pollution prevention, illicit discharge inspection and education, resource support of County Extension training in FFL/FYN and Adopt-a-	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	\$12,000	Lake County	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				Lake Program, formerly Watershed Action Volunteers (WAV) Program.												
Lake County Public Works	N/A	S084	Landscaper BMP training	Landscaper education about BMPs for landscapers and those who hire landscapers. Seminar was held in cooperation with Lake County Agricultural Center to educate landscapers about BMPs and BMP brochures were mailed out countywide to landscape companies.	Education Efforts	Completed	2010	N/A	N/A	Silver Springs Basin	N/A	\$1,276	N/A	County	\$1,276	N/A
City of Ocala	DEP/ City (Potentially)	S085	SkimBoss Filtration System – Tusawilla Pond	Addresses drainage well discharge. Retrofit Installation of SkimBoss Filtration System with Bold and Gold™ media – Tusawilla Pond.	Drainage Well	Underway	2019	1,320	309	Silver Springs Basin	336.0	\$236,397	\$5,000	Section 319(h) Grant/ City Stormwater Utility Fees	Not provided	Not provided
City of Ocala	DEP/ City (Potentially)	S086	SkimBoss Filtration System – Chazal Park Pond	Addresses drainage well discharge. Retrofit Installation of SkimBoss Filtration System with Bold and Gold™ media – Chazal Park Pond.	Drainage Well	Underway	2019	104	N/A	Silver Springs Basin	73.0	\$236,397	\$5,000	Section 319(h) Grant/ City Stormwater Utility Fees	Not provided	Not provided
City of Ocala	DEP/ FDOT/ City	S087	Silver Springs Protection/ Stormwater Nutrient Reduction Project (Cameo Pond)	Addresses surface water discharge. Silver Springs Protection/Stormwater Nutrient Reduction Project.	Not provided	Underway	2018	460	N/A	Silver Springs Basin	91.0	\$3,000,000	\$10,000	TMDL/ FDOT/ City Stormwater Utility Fees	Not provided	Not provided
Marion County Office of the County Engineer	N/A	S088	Bold and Gold™ Stormwater Retrofits in Silver Springs BMAP Area	Project proposes \$1,400,000 through FY 2019 for retrofit of county-owned drainage retention areas in Silver Springs BMAP area. Number and location of DRAs retrofitted depends on several factors including potential load reductions, land availability and location in PFAs identified in BMAP. Project is currently in preliminary scoping stages and is	Retention BMP Retrofit with Nutrient Reducing Media	Underway	2019	Not provided	N/A	Silver Springs Basin	Not provided	\$1,400,000	Not provided	County Stormwater Assessment	\$1,400,000	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				identified in adopted 2014 Stormwater Implementation Plan.												
DEP – Division of Recreation and Parks	N/A	S089	Silver Springs State Park Management Plan Amendment – Runoff	Management plan for Silver Springs State Park was formally amended in May 2014 to account for inclusion of former Silver Springs attraction into Silver River State Park. In addition to change in park name, management goals were developed to improve water quality, specifically to remove nitrate from surface discharges. Removal of animals and animal enclosures on Ross Allen Island will reduce nitrate inputs to Silver River and allow for existing water retention berm to be breached to reconnect wetlands to river. Evaluation of stormwater management system of park and amount of impervious area, particularly in parking lots, will also be undertaken. Impervious areas in parking lots and buildings will be removed and restored to natural communities. Sheet flow will be restored and stormwater system improved and maintained.	Study	Planned	Not provided	N/A	N/A	Silver Springs Basin	N/A	Not provided	N/A	DEP	Not provided	Not provided
DEP- Division of Recreation and Parks	N/A	S090	Silver Springs State Park Management Plan Amendment – State Park Sewer Connection	Management plan for Silver Springs State Park was formally amended in May 2014 to account for inclusion of former Silver Springs attraction into Silver River State Park. In addition to change in park name, management goals were developed to connect park services in former Silver River State	Septic Tank Phase Out	Completed	2015	2,018	N/A	Silver Springs Basin	N/A	\$977,490	Not provided	DEP	Not provided	Not provided

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				Park to central sewer, eliminating nitrate inputs to aquifer and Silver River.												
City of Ocala	Not provided	S091	City of Ocala Nitrogen Reduction Project	Upgrade of WRF #2 to AWT treatment standard for TN and decommissioning of WRF #1. WRF #1, constructed in 1949, is trickling filter facility and is not designed for removal of nitrate. WRF #2 and #3 have sufficient capacity to handle flows from WRF #1, and all plants will be interconnected to allow for routing of flows as needed. WRF #1 will remain operational as relay and to process stormwater for reuse.	WWTF Nutrient Reduction	Completed	2016	42,311	N/A	Silver Springs Basin	N/A	\$16,000,000	Not provided	City	City – \$9,600,001	Not provided
City of Ocala	SJRWMD	S092	City of Ocala WRF 2 Nutrient Reduction Plan	Upgrade existing WWTF to allow for advanced treatment and expand availability of reclaimed water for irrigation use. Project consists of construction of 2 3.25 mgd carousels equipped with 3 100-horsepower mechanical surface aerators with variable-frequency drives (VFDs) and lower impeller and anaerobic and anoxic zone submersible mixers. This will allow City of Ocala to reduce effluent TN to 3 mg/L or less; 500,000 gallons of day of public access reclaimed water will be made available from project, reducing draws on aquifer and increasing flows to springs.	WWTF Nutrient Reduction, Reclaimed Water	Completed	2016	27,593	N/A	Silver Springs Basin	N/A	\$12,144,000	Not provided	City/ SJRWMD/ Legislative Funding	City – \$8,304,000 SJRWMD – \$1,920,000 Legislative Funding – \$1,275,620	N/A
DEP – Division of Recreation and Parks	N/A	S093	Silver Springs State Park Management Plan	Management plan for Silver Springs State Park was formally amended in May 2014 to account for	WWTF Upgrade	Planned	TBD	Not provided	N/A	Silver Springs Basin	N/A	\$1,976,335	N/A	DEP	\$1,976,335	S089

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			Amendment – Sewer Upgrades	inclusion of former Silver Springs attraction into Silver River State Park. In addition to change in park name, management goals were developed to provide maintenance of sewer system for former attraction. Existing system was in poor repair, potentially leaking nitrogen to headspring and river.												
Marion County Parks	N/A	S094	Sports Field Maintenance Equipment Washdown Area	DEP has developed BMPs for Enhancement of Environmental Quality on Florida Golf Courses manual, which highlights BMPs that can be implemented to offset impacts of golf courses on environment. Active sports complexes can have same impacts. One commonly used BMP is construction of closed system equipment washdown area. Similar facilities would allow Parks staff to wash down mowers and other equipment which have been used while maintaining sports fields. Four sites (Brick City Adventure Park, Rotary Sportsplex, Shocker Park and Ralph Russell Memorial Park) are all within 10 mi of Silver Springs and therefore should receive higher priority for scheduling construction of washdown facilities.	Regulations, Ordinances, and Guidelines	Planned	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	County General Fund	Not provided	N/A

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Marion County Parks	N/A	S095	Parks Retention Pond Retrofits	Project is inventory of stormwater facilities in Marion County Parks to identify and prioritize them for potential retrofits to enhance nitrogen removal. Retrofits would involve removing layer of soil from bottom of basins and then constructing engineered soil matrix. Project goal is to retrofit specific stormwater basins to reduce groundwater pollution. Inventory will be conducted using GIS asset management tools.	Study	Planned	Not provided	N/A	N/A	Silver Springs Basin	N/A	Not provided	N/A	County General Fund	Not provided	N/A
Marion County Parks	N/A	S096	Septic System Connection Removal in County Parks	Project focuses on removal of OSTDS and connection to centralized wastewater facilities. A few parks in BMAP area are close to existing or planned wastewater facilities (Brick City Adventure Park, Rotary Sportsplex, and Baseline Rd. Trailhead). Project goal would be to remove as many septic systems within area as possible.	Septic Tank Phase Out, Wastewater Service Area Expansion	Completed	Not provided	72	N/A	Silver Springs Basin	N/A	Not provided	Not provided	County General Fund	Not provided	N/A
Marion County Parks	N/A	S097	Gore's Landing Package Plant Upgrade	DEP has 1 package plant wastewater facility located at Gore's Landing, flood-prone area located along Ocklawaha River. Current system is antiquated, may not meet current sewage disposal standards and should be upgraded. Project goal is to bring existing sewage treatment system into compliance with current standards and regulations while being mindful of potential park expansion. Exact dollar figures for	Wastewater System Upgrade	Planned	Not provided	45	N/A	Silver Springs Basin	N/A	Not provided	Not provided	County General Fund	Not provided	N/A

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				project are currently unknown.												
Marion County Utilities	SJRWMD/ Legislature	S098	SSS Reuse to Spruce Creek Golf and Country Club	<p>South Portion – Project will provide for delivery of reclaimed quality effluent and consists of reclaimed pumps, control valves, metering stations and 21,600 ft of 16-in pipeline from SSS WWTP to Spruce Creek Golf and Country Club (SCGCC) golf course located in southeast quadrant of Marion County 12 to 14 mi from Silver Springs. SSS WWTP is currently permitted to treat 1.5 mgd and has potential of generating close to 1.0 mgd of reuse quality water based on current flows. Removes 54,794 lbs-TN/yr. \</p> <p>North Portion – Project will provide for delivery of reclaimed quality effluent and consists of reclaimed pumps, control valves, metering stations and 8,000 ft of 12-in pipeline from SSS WWTP to SSS golf course and Lake Diamond located in southeast quadrant of Marion County 7 to 10 mi from Silver Springs. SSS WWTP is currently permitted to treat 1.5 mgd and has potential of generating close to 1.2 mgd of reuse quality water based on current flows. This will reduce use of potable water for irrigation, improve flow at Silver Springs, and reduce nutrient load to</p>	Reclaimed Water	Underway	2015 – 2017	54,794	N/A	Silver Springs Basin	N/A	\$3,192,000	Not provided	SJRWMD/ Florida Legislature	SJRWMD – \$1,596,000 Legislative Funding – \$1,275,620	N/A

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				Silver Springs and Silver River.												
Marion County Parks	N/A	S099	Marion/Aquifer-Friendly Fertilization Program for Sports Facilities	Project goal is to develop method of maintaining 67.77 ac (Wrigley Fields, Brick City Adventure Park, Shocker Park, Rotary Sportsplex, Ralph Russell Memorial Park, and Belleview Sportsplex) of sports fields to reduce, if not eliminate, pollutant loading while keeping fields healthy and safe. Program includes creation and use of specific fertilizer formulas on playing fields at various sports complexes that Parks Dept. manages.	Fertilizer Reduction	Planned	N/A	Not provided	N/A	Silver Springs Basin	N/A	Not provided	Not provided	County General Fund	Not provided	N/A
Lake County Growth Management	N/A	S100	Lake County Landscaping Ordinance	Landscaping Ordinance 2009-062 implements Water Wise and FFL, tree protection, and buffer requirements: Codified into LDR.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	County	Not provided	N/A
Lake County Growth Management	N/A	S101	Lake County Irrigation Ordinance	Irrigation Ordinance 2009-17 implements SJRWMD watering requirements and encourages water efficient landscape design: Codified into LDR.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	County	Not provided	N/A
Town of Lady Lake	N/A	S102	Lady Lake Landscape Requirements	County codes and ordinances require FFL principles to be applied in design and of landscapes and irrigation systems. Fertilizer application restrictions require 30 % or more slow-release nitrogen and restrict frequency to "as needed."	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Town	Not provided	N/A
Town of Lady Lake	N/A	S103	Lady Lake Irrigation Schedules	SJRWMD irrigation schedule is adopted, specific water conservation measures are	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Town	Not provided	N/A

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				encouraged, and 7 basic principles of water-efficient landscaping are incorporated. Intent is to establish minimum standards for development, installation, and maintenance of landscaped areas onsite with water use efficiency as goal without inhibiting use of creative landscape design.												
Town of Lady Lake	N/A	S104	Lady Lake Pet Waste Management	County code related to illicit discharges includes provisions requiring removal of pet waste.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Town	Not provided	N/A
Villages Center CDD	N/A	S105	VCSA WWTP – SCADA	SCADA installation and operation at VCSA plant and collection system lift stations.	WWTF Upgrade	Completed	Not provided	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CDD	Not provided	N/A
Villages Center CDD	N/A	S106	LSSA WWTP – SCADA	SCADA installation and operation at LSSA plant and collection system lift stations.	WWTF Upgrade	Completed	Not provided	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CDD	Not provided	N/A
Villages Center CDD	N/A	S107	NSU WWTP – SCADA	SCADA installation and operation at NSU plant and collection system lift stations.	WWTF Upgrade	Completed	Not provided	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CDD	Not provided	N/A
Villages Center CDD	CSU	S108	CSU WWTP – SCADA	SCADA installation and operation at CSU plant and collection system lift stations.	WWTF Upgrade	Completed	Not provided	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CSU	Not provided	N/A
Marion County Utilities	Not provided	S109	Package Plant Abatement	Baseline Square, Truck stops at CR 326 and I-75 package plants connected to central system. Removes 412 lbs TN/yr.	Package Plant Phase Out, Wastewater Service Area Expansion	Completed	2015	412	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
ACEPD	U.S. Dept. of Agriculture (USDA) Farm and Ranch Land Protection Program (FRPP)	S110	Cypress Point Creamery Land Acquisition	No increase in surface runoff of pollutants because of land use change, continued aquifer recharge and ecosystem/habitat preservation; implement Alachua County Comp Plan Conservation and Open Space Element – Alachua County Forever Policy 6.2.1.	Land Acquisition	Completed	2014	N/A	N/A	Silver Springs Basin	600.0	\$461,000	N/A	Wild Spaces and Public Places Surtax/ FRPP Cost-Share	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
ACEPD	USDA FRPP	S111	Higginbotham Ranch Acquisition	No increase in surface runoff of pollutants because of land use change, continued aquifer recharge and ecosystem/habitat preservation; implement Alachua County Comp Plan Conservation and Open Space Element – Alachua County Forever Policy 6.2.1.	Land Acquisition	Completed	2014	N/A	N/A	Silver Springs Basin	600.0	\$756,000	N/A	Wild Spaces and Public Places Surtax/ FRPP Cost-Share	Not provided	N/A
DEP, FDOH, Marion County	Local Utilities/ SJRWMD/ SWFWMD/ Other Interested Parties	S112	OSTDS 9-1-1 Strategy	Develop strategy for addressing OSTDS and other wastewater management issues. Goal is to enhance communication and coordination among utilities and agencies.	Study	Underway	2018	N/A	N/A	Silver Springs Basin	N/A	Not provided	N/A	Not provided	Not provided	Not provided
Marion County Parks	N/A	S113	Silver Springs Sandhill Acquisition	Marion County has applied to have Silver Springs Sandhill acquisition project added to Florida Forever list. Project would preserve 470 ac of high-recharge sandhills within 1 mi of Silver Springs. Project is located just south of Indian Lake State Forest and east of Cohadjoe Park (county). Majority of acreage is zoned for medium- and high-density residential use, but 221 ac are currently used for improved cattle, with balance in pasture unmanaged hardwoods. Acquisition has been assigned to third-party nonprofit organization to close sale. Site has been acquired and is under management by Marion County Parks and Recreation. Consultants are being solicited to write state-required Unit Management Plan.	Land Acquisition	Completed	2017	N/A	N/A	Silver Springs Basin	470.0	\$4,432,979	N/A	Florida Forever/ County	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
SJRWMD	DEP/ Marion County	S114	Silver Springs Forest	Project involves acquisition of 4,900 ac of managed forest land, owned by Rayonier, east of Indian Lake State Forest and west of CR 315. Acquired land will be restored to appropriate ecosystem and opened for recreational use. Tract is identified in Heather Island Florida Forever Project and as U.S. Forest Service Forest Legacy Project: Silver Springs Watershed (Phase 1).	Land Acquisition	Completed	2016	N/A	N/A	Silver Springs Basin	4,900.0	\$11,617,000	N/A	DEP/ SJRWMD/ Marion County	DEP – \$2,000,000 SJRWMD – \$8,700,000 Marion County – \$917,000	Not provided
City of Ocala	N/A	S115	Miscellaneous Water and Sewer	Miscellaneous extension of existng water, sewer, and reuse facilities to provide services.	Wastewater Service Area Expansion, Reclaimed Water	Underway	2020	Not provided	N/A	Silver Springs Basin	N/A	\$500,000	Not provided	City	\$500,000	N/A
City of Ocala	N/A	S116	Sanitary sewer smoke testing, TV inspecting, and lining program	Smoke testing and inspection of existing sanitary sewer system	Sanitary Sewer and WWTF Maintenance	Underway	2020	N/A	N/A	Silver Springs Basin	N/A	\$3,000,000	N/A	City	\$3,000,000	N/A
Marion County Parks	Not provided	S117	Heather Island Conservation Easement	Project would establish conservation easement on 5,223 ac of privately owned forest land east of CR 315 along Oklawaha River. Tract is part of Heather Island Florida Forever project and is identified as Phase 2 of Silver Springs Watershed Forest Legacy project. Land has been aquired by SJRWMD with plans for surface water improvements underway.	Land Acquisition	Completed	2016	N/A	N/A	Silver Springs Basin	5,223.0	Not provided	N/A	Not provided	Not provided	Not provided
City of Fruitland Park	Not provided	S118	Fruitland Park WWTF Decommisioning	Remove existing WWTF from service. Construct lift station to allow transfer of wastewater to Lady Lake for treatment. Improved treatment at Lady Lake facility.	WWTF Upgrade	Underway	2020	1,506	N/A	Silver Springs Basin	N/A	\$1,500,000	Not provided	Not provided	Not provided	Not provided
City of Fruitland Park	N/A	S119	Construction of New WWTF	New WWTF constructed with improved treatment and SCADA system.	WWTF Nutrient Reduction	Canceled	N/A	N/A	N/A	Silver Springs Basin	N/A	N/A	N/A	N/A	N/A	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				Expected 9 to 10 yrs for project completion.												
City of Fruitland Park	N/A	S120	Street Sweeping and Storm Drain Inlet Cleaning	Sweep streets 4 times/yr and clean out 12 storm drain inlets.	Street Sweeping	Completed	N/A	Not provided	N/A	Silver Springs Basin	N/A	N/A	Not provided	City	Not provided	N/A
City of Fruitland Park	N/A	S121	Fruitland Park NPDES Permit Education and Outreach	Landscaping, irrigation, fertilizer, and pet waste ordinances. City of Fruitland Park uses consultant for education and outreach. Activities include PSAs in cooperation with City of Leesburg and SJRWMD, distribution of pamphlets, educational website, illicit discharge inspection and education program, utility bill inserts, and informational displays for proper irrigation techniques and landscape management.	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	City	Not provided	N/A
Putnam County	N/A	S122	Education and Outreach	Provide educational materials including information about importance of protecting Silver Springs and implementing small farm equine BMPs at Ft. Gates Ferry kiosks and at agricultural center and county fair.	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	County	Not provided	N/A
Marion County Office of the County Engineer	N/A	S123	SSS Unit 55 Stormwater Retrofit	Project will retrofit two drainage retention areas in SSS Unit 55 with nitrogen-reducing Bold and Gold™ media. Both DRAs are adjacent to Baseline Golf Course. In addition to surface runoff from SSS Unit 55, runoff is also discharged into DRAs from golf course through pipes and as overland flow. retrofit will prevent 106 lbs of TN from reaching aquifer annually.	Retention BMP Retrofit with Nutrient Reducing Media	Underway	2016	106	N/A	Silver Springs Basin	30.1	\$370,000	Not provided	County Stormwater Assessment	\$370,000	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
City of Ocala	DEP/ City of Ocala	S124	City of Ocala – Retrofit Installation of SkimBoss Filtration System with Bold and Gold™	Installation of SkimBoss Filtration Systems using Bold and Gold™ media to treat water leaving ponds and flowing into recharge wells at 613 SE 13th Ave., NE 10th St @ 1200 Block, NE 14th St. and 12th Ct.	Drainage Well	Underway	2019	610	N/A	Silver Springs Basin	140.0	\$485,650	\$15,000	TMDL/ FY 2016 Legislative Appropriation/ City Stormwater Utility Fees	Not provided	Not provided
FDOT District 2	N/A	S125	Fertilizer Cessation	FDOT O&M fertilizer cessation.	Fertilizer Cessation	Completed	N/A	4,273	N/A	Silver Springs Basin	N/A	N/A	N/A	N/A	N/A	N/A
Town of McIntosh	N/A	S126	Town of McIntosh Education and Outreach	Town provides information at city hall about FFL, OSTDS maintenance, and agricultural BMPs.	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	Town	Not provided	N/A
City of Belleview	N/A	S127	Sanitary Sewer and Water Main Loop along SE 132nd from US Hwy. 441/27 to CR 484	Economic engine to promote residential and commercial growth along SE 132nd St. (Belleview Beltway).	Wastewater Service Area Expansion	Planned	Not provided	Not provided	N/A	Silver Springs Basin	N/A	\$1,300,000	Not provided	Special Legislative Appropriation	Not provided	N/A
City of Belleview	N/A	S128	Provide Reuse Irrigation Water to Belleview Sportplex	Meets requirement of Springs Protection Act by reducing groundwater withdrawals.	Reclaimed Water	Planned	Not provided	N/A	N/A	Silver Springs Basin	N/A	\$500,000	Not provided	City	\$500,000	N/A
City of Belleview	N/A	S129	Providing Water and Sewer to Residents in Utility Service Area Adjacent to and West of SE 92nd Loop	Multiyear project would serve over 1,200 single-family units currently on septic tanks and individual wells between US Hwy. 441 and - new SE 92nd Loop and from SE 105th Pl. south to SE 135th St. Meets requirement of Springs Protection Act by reducing and/or eliminating groundwater withdrawals and septic tank leachates. First year would consist of study to define phases and estimate construction costs of each phase.	Reclaimed Water	Planned	Not provided	28,689	N/A	Silver Springs Basin	N/A	\$100,000	Not provided	Not provided	Not provided	N/A
Marion County Office of the County Engineer	SJRWMD	S130	SSS Unit 7 Stormwater Retrofit – CP #77	Retrofit of drainage retention areas 7244 and 7396 with Bold and Gold™ biosorption	Retention BMP Retrofit with Nutrient-	Planned	2017	318	N/A	Silver Springs Basin	148.0	\$1,400,000	Not provided	County Stormwater Assessment/ SJRWMD Cooperative	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				activated media for nitrogen reduction.	Reducing Media									Funding/ Florida Legislature (Springs Funds)		
Marion County Utilities	SJRWMD/ DEP	S131	Sleepy Hollow Package Plant Abatement (lift station and force main)	Project is being funded via grant from SJRWMD and DEP to remove existing wastewater package plant in subdivision and replace it with new duplex lift station and 1,830 LF of new 6-in force main along SE 4th St. to tie into existing 16-in force main along SE 58th Ave. Nutrient reduction expected from project is 365 lbs/yr nitrates that are currently being discharged from Sleepy Hollow WWTF annually. This will reduce amount of nutrients reaching Silver Springs.	Package Plant Phase Out, Wastewater Service Area Expansion	Underway	2016	365	N/A	Silver Springs Basin	N/A	\$456,025	Not provided	SJRWMD/ County Utilities Funding	SJRWMD – \$309,000 County Utilities Funding – \$117,388.58	Not provided
Marion County Utilities	N/A	S132	CR464 FM	Installation of new 12-in polyvinyl chloride (PVC) force main with valves and appurtenances, using installation methods of open-cut trenching, jack and boring, horizontal directional drilling, to make connections to existing force mains and reconnection of services. Upsizing of force main will allow county to handle future flows at SSS WWTP from OSTDS abatement in primary protection zone for Silver Springs.	WWTF Upgrade	Completed	2015	Not provided	N/A	Silver Springs Basin	N/A	\$654,416	Not provided	County Utilities	\$654,416	N/A
Lake County Public Works	DEP	S133	Erosion Control Inspection Training and Certification	Provide training and exam to private construction and local government employees through qualified county staffer for free annually. Conduct ongoing site inspections for use of erosion control BMPs at	Education Efforts	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	County	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				all construction sites throughout unincorporated Lake County. Education of contractors and municipal employees on construction erosion control measures												
SJRWMD	DEP/ Marion County	S134	Silver Springs Forest	Project will address water resources at site and in receiving system with hydrology, attenuation, and sediment transport improvements. Project will provide reduction of turbid water discharges to Silver River and will reduce nutrient loading by up to 13,000 lbs/yr. Evaluation of final project elements is still underway.	Hydrologic Restoration	Completed	2018	TBD	N/A	Silver Springs Basin	4,900.0	\$2,370,000	N/A	SJRWMD/ DEP	SJRWMD – \$1,895,000 DEP – \$475,000	Not provided
City of Ocala	N/A	S135	Wetland Recharge Park	Creation of wetland park that will primarily use treated wastewater, along with some stormwater. Wetland area will be over 30 ac in size and will receive 3 to 5 mgd of treated wastewater/ stormwater. This water will then recharge Upper Floridan aquifer. Plants in wetland area will naturally uptake large portion of excess nutrients. This will potentially reduce nitrogen levels to near zero, along with notable reduction of all TN as well.	Reclaimed Water	Underway	2019	29,000	N/A	Silver Springs Basin	N/A	\$10,000,000	Not provided	SJRWMD Cost-Share/ DEP Springs Funding/ City	Not provided	Not provided
City of Ocala	N/A	S136	Southwood Villas and Lake Weir Sewer Expansion Project	Project objective is to design and construct sanitary sewer system that will remove from service 100 septic tanks from associated single-family residential lots.	Septic Tank Phase Out, Wastewater Service Area Expansion	Planned	2021	TBD	N/A	Silver Springs Basin	N/A	\$1,500,000	Not provided	City	\$1,500,000	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
SJRWMD	N/A	S137	SJRWMD SAV and Algae Monitoring	SJRWMD monitors SAV and algae annually on Silver River between April and June. WMD staff estimate SAV cover by species and algal cover collectively, using 0.25-square-meter quadrats and Braun-Blanquet cover scale. Separate worksheet has been added to file for map and more detail.	Monitoring/ Data Collection	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	N/A	Not provided	SJRWMD	Not provided	N/A
Lake County	N/A	S138	Lake County Enhanced Fertilizer Ordinance	November 2017 Lake County BOCC adopted enhanced fertilizer ordinance. Includes 15-foot application setback from waterbodies, 50 % slow-release content requirement, and summer phosphorus and nitrogen application blackout period from June 1 to Sept. 30.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Silver Springs Basin	N/A	Not provided	Not provided	County	Not provided	N/A
Villages Center CDD	CSU	S139	CSU WWTP – Anaerobic Denitrification	WWTP includes anoxic basin for denitrification of NO ₃ , which reduces NO ₃ discharge in WWTP effluent	Wastewater Nutrient Reduction	Completed	Not provided	Not provided	N/A	Silver Springs Basin	N/A	Not provided	Not provided	CSU	Not provided	N/A
Marion County Utilities	Not provided	S140	Provide Central Sewer Service to Old Platted Subdivision Served by Septic	Siver Springs Shores Subdivision was platted in early 1970s. Existing subdivision has 3,000 platted lots without access to centralized sewer system. Area was divided into 6 phases of 500 lots per phase. It is within Primary Protection Zone (PPZ) for Silver Springs.	Septic Tank Phase Out, Wastewater Service Area Expansion	Planned	Not provided	Not provided	N/A	Silver Springs Basin	N/A	Not provided	Not provided	County Utility Funds/ Grants	Not provided	Not provided
City of Ocala	DEP, State	S141	SkimBoss Filtration System – Chazal Park Pond	Retrofit Installation of SkimBoss™ Filtration System with Bold and Gold™ Media for Lake Anderson, Yum Yum Pond, and Heritage Pond.	Retention BMP Retrofit with Nutrient-Reducing Media	Underway	2019	TBD	TBD	Silver Springs Basin	167.0	\$660,000	Not provided	DEP/ FY Legislative Appropriation/ City	DEP – \$328,000 FY Legislative Appropriation – \$250,000 City – \$82,000	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Marion County Utilities	Not provided	S142	Provide Central Sewer Service to Major Commercial Corridor	Construct 5,800 LF of 12-in force main, and 9,200 LF of 16-in force main along CR 464. Project will provide infrastructure and capacity to connect future septic to sewer projects to SSS WWTF.	Septic Tank Phase Out, Wastewater Service Area Expansion	Underway	2019	Not provided	N/A	Silver Springs Basin	N/A	\$6,424,210	\$9,724	County Utility Funds/ Grants	Not provided	N/A
Marion County Utilities	Not provided	S143	Provide Central Sewer Service to Major Commercial Corridor	For this phase, project consists of constructing force main through commercial corridor in Silver Springs, Silver River, and Upper Silver River Springshed. Proposed sewer force main will be 17,000 LF of 12-in PVC sewer force main connecting Spruce Creek Golf and Country Club (SCGCC) sewer system to Stonecrest sewer system. This is first project being constructed with overall goal of making service available and providing opportunity for septic to sewer conversions in this corridor. By making connection to central sewer available in corridor, county can avoid additional septic tank installation in Silver Springs Springshed and possible conversion from septic to sewer in future.	Septic Tank Phase Out, Wastewater Service Area Expansion	Underway	2019	Not provided	N/A	Silver Springs Basin	N/A	\$1,791,600	\$7,553	County Utility Funds/ Grants	Not provided	N/A
Marion County Utilities	N/A	S144	SSS WWTP Nutrient and Capacity Improvement	Enhance nutrient removal capabilities to AWT standards and expand capacity at SSS WWTF by 500,000 gallons per day (gpd).	WWTF Upgrade	Underway	2020	TBD	N/A	Silver Springs Basin	N/A	\$6,424,210	\$362,413	County Utility Funds/ Grants	Not provided	N/A

Upper Wakulla River and Wakulla Springs BMAP

Background

The BMAP basin encompasses an area of 848,445 acres, or 1,325 square miles (**Figure B-5**). The Upper Wakulla River and Wakulla Springs are designated as OFWs. The river and springs are a very dynamic groundwater and surface water–fed system. Wakulla Springs, designated as an OFS, is one of the deepest freshwater springs in the world and the primary source of water for the Wakulla River. In the Upper Wakulla River and Wakulla Springs Basin, the Cody Scarp generally separates the semiconfined geologic features to the north (soils characterized with lower potential for groundwater impacts) and areas of unconfined geologic features to the south (highly permeable karst areas with a high potential for groundwater impacts).

DEP determined that the Upper Wakulla River segment is impaired by nitrate; the biological community in the river is affected by excessive algal mats linked to elevated nitrate concentrations from anthropogenic sources. In 2012, DEP adopted the Upper Wakulla River TMDL to reduce nitrate inputs to the river and springs. The TMDL defined the nitrate target as composed of both nitrate and nitrite as nitrogen. The Upper Wakulla River and Wakulla Springs BMAP was adopted in October 2015 to implement the TMDL.

Status of Projects

Through December 31, 2017, 116 projects have been completed. An additional 10 projects that are underway or planned have been added to the BMAP. The projects completed to date are estimated to achieve total reductions of 693,574 lbs/yr of TN.

As an OFS BMAP, additional information will be provided when the BMAP reaches its 5-, 10-, and 15-year milestones. If the milestones, or the 20-year target, will not be met, an explanation of possible causes and potential solutions will be provided. These milestones will be specified in a revised BMAP document. The revised Upper Wakulla River and Wakulla Springs BMAP is scheduled to be readopted by July 1, 2018, to meet the statutory requirements added by the 2016 Florida Legislature.

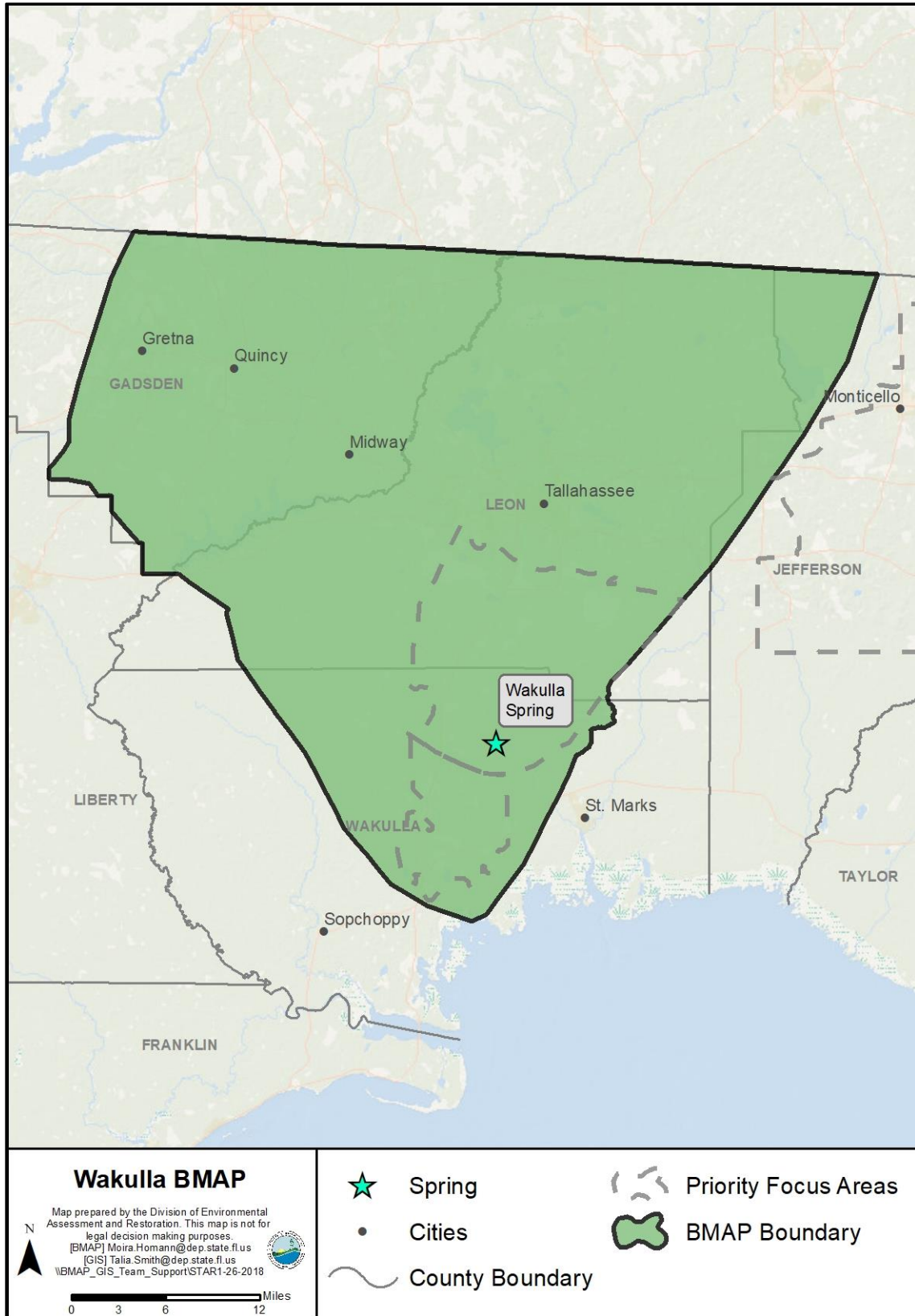


Figure B-5. Upper Wakulla River and Wakulla Springs BMAP area

Table B-5. Upper Wakulla BMAP Projects

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
City of Gretna	Not provided	CG-001	No Fertilizer Use	Fertilizer is not applied on any city-owned property.	Fertilizer Cessation	Completed	N/A	0	N/A	Outside	N/A	N/A	N/A	N/A	N/A	N/A
City of Quincy	Not provided	CQ-001	City of Quincy WWTF	AWT at WWTF.	WWTF Nutrient Reduction	Completed	2015	0	N/A	Outside	N/A	Not provided	Not provided	Not provided	Not provided	N/A
City of Quincy	Not provided	CQ-002	LDC – Watershed Conservation Measures	Ordinance that requires minimum stormwater treatment levels and use of BMPs including slow-release fertilizers.	Regulations, Ordinances, and Guidelines	Completed	N/A	0	N/A	Outside	N/A	N/A	N/A	N/A	N/A	N/A
City of Quincy	Not provided	CQ-003	Street Sweeping	Sweeping streets in south side of city one week and north side next week.	Street Sweeping	Completed	N/A	TBD	N/A	Outside	N/A	Not provided	Not provided	Not provided	Not provided	N/A
City of Tallahassee	N/A	COT-001	WWTF Upgrade to AWT	Upgrade to AWT to reduce nitrogen concentration by 75 % at spray field near Tram Rd. and improve quality of reuse.	WWTF Nutrient Reduction	Completed	2012	170,232	N/A	PFA1	N/A	\$227,000,000	\$9,400,000	Not provided	Not provided	N/A
City of Tallahassee	N/A	COT-002	Biosolids Application Elimination	Eliminated biosolids disposal in springshed.	WWTF Management	Completed	2006	372,563	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
City of Tallahassee	N/A	COT-003	Assessment and Rehabilitation of Sewer Collection System	Project consists of assessment and rehabilitation of sewer collection system.	Sanitary Sewer and WWTF Maintenance	Completed	2011	N/A	N/A	PFA1	N/A	\$10,000,000	Not provided	Not provided	Not provided	N/A
City of Tallahassee	N/A	COT-004	Fertilizer Use Ordinance (08-072AA)	Standard fertilizer ordinance credit from Education Credit Workbook.	Regulations, Ordinances, and Guidelines	Completed	N/A	108	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
City of Tallahassee	N/A	COT-004a	Fertilizer Use Ordinance (08-072AA)	Credit above and beyond standard credit for ordinances based on survey. Households that applied fertilizer (2007 vs. 2012) decreased 49 %, level of nitrogen applied per household decreased 27 %.	Regulations, Ordinances, and Guidelines	Underway	N/A	177	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
City of Tallahassee	N/A	COT-005	Public Education for Stormwater, Fertilizer, and Pet Waste	Public education using various media resources to promote behavioral changes for individuals and businesses to conserve water and reduce or eliminate pollution impacts to surface water and groundwater.	Public Education Efforts	Completed	N/A	216	N/A	PFA1	N/A	\$1,700,000	N/A	N/A	N/A	N/A
City of Tallahassee	N/A	COT-006	Spray Field Fertilizer Application	Eliminated fertilizer application on spray field (in springshed).	Fertilizer Cessation	Completed	N/A	48,708	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
City of Tallahassee	N/A	COT-007	Pet Waste Ordinance (Number 10-0-15AA)	34 % of dog owners began picking up after their pets.	Regulations, Ordinances, and Guidelines	Completed	N/A	108	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
City of Tallahassee	N/A	COT-008	Stormwater Improvement Projects	Conveyance improvements.	Regional Stormwater Treatment	Completed	2012	8	N/A	PFA1	Not provided	\$990,000	N/A	N/A	N/A	N/A
City of Tallahassee	N/A	COT-009	Primary Springs Protection Zone (PSPZ) Ordinance (08-0-68AA)	Identifies PSPZ where development must meet more stringent requirements.	Regulations, Ordinances, and Guidelines	Completed	N/A	0	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
City of Tallahassee	N/A	COT-010	Comprehensive Plan Provisions (Conservation Element Policy 4.2.5)	Reduced allowed development in urban fringe inside PSPZ.	Regulations, Ordinances, and Guidelines	Completed	N/A	0	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
City of Tallahassee	Leon County	COT-011/LC-029	Alternatives to Sewer Solutions Study	Study and develop preferred options for management alternatives to traditional OSTDS in unincorporated areas of Leon County, including PSPZ; identify preferred options for responsible management entities, including recommendations for financing and management structure for identified preferred options; identify other issues related to sewage treatment and disposal system financing.	Study	Planned	2019	N/A	N/A	PFA1	N/A	Not provided	N/A	Not provided	Not provided	N/A
City of Tallahassee	N/A	COT-012	Stormwater Treatment Projects	79 stormwater projects citywide (outside PFA1) completed since 2004, examples include Lower CDD, Frenchtown Pond, and Emory Court, Weems Pond projects.	Regional Stormwater Treatment	Completed	2015	Not provided	N/A	Outside	Not provided	\$82,303,740	N/A	Not provided	Not provided	N/A
City of Tallahassee	N/A	COT-013	Street Sweeping	Citywide street sweeping annually collects 2,000 tons of material and 2,000 lbs (942 kg) of TN removed.	Street Sweeping	Completed	2015	283	N/A	Outside	N/A	\$1,500,000	Not provided	Not provided	Not provided	N/A
City of Tallahassee	N/A	COT-014	Public Education-Wakulla Springs Nitrate Video	5-minute video educates homeowners on local groundwater system and explains need to address septic systems to restore Wakulla Springs. Shared via social media and WCOT TV.	Enhanced Public Education	Completed	N/A	0	N/A	PFA1	N/A	\$27,000	N/A	City Water Resources Engineering	Not provided	N/A
City of Tallahassee	NWFWMD/ DEP (Legislative)	COT-015	Septic Connection to Existing Sewer in	Facilitating connection of 130 properties currently on OSTDS to existing	OSTDS PhaseOut	Underway	2019	1,177	N/A	PFA1	Not provided	\$2,587,000	N/A	DEP – Legislative	\$637,000	NWFWMD-17-056

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
	Projects Grant/ City of Tallahassee		Wakulla BMAP Area	central sewer in Wakulla BMAP PFA1.										Projects Grant/ City		
City of Tallahassee	DEP FY 2015 319/ City of Tallahassee	COT-016	OSTDS Reduction Outreach Initiative – Outreach for City of Tallahassee's Connect Septic to Sewer Project	2017–19 City of Tallahassee will produce and distribute educational PSAs, billboards, and other media, to encourage city residents who are on septic systems in PFA 1, to connect to existing central sewer.	Enhanced Public Education	Underway	N/A	TBD	N/A	PFA1	N/A	\$170,000	N/A	DEP 2015-319/ City	\$100,000	NF022
City of Tallahassee	DEP FY 2017–20/ City of Tallahassee	COT-017	2017–20 Develop and Implement Educational Plan	Development and implementation of plan to educate residents about septic sewer and impact on WS – including PSAs.	Enhanced Public Education	Planned	N/A	TBD	N/A	PFA1	N/A	\$50,000	N/A	DEP FY 2017 319/ City Submitted to EPA	\$25,000	Not provided
City of Tallahassee	City of Tallahassee/ Leon County	COT-018	Interlocal Agreement for Provision of Sewer Service to Woodside Heights Subdivision	Interlocal agreement for provision of sewer service to Woodside Heights Subdivision.	Regulations, Ordinances, and Guidelines	Planned	N/A	TBD	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
DEP	N/A	FDEP-001	TN Requirements for WWTFs in PFA 1	Update permits, as needed, to incorporate new requirements to WWTFs in PFA 1.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Florida Agricultural and Mechanical University (FAMU)	N/A	FAMU-001	NPDES MS4 Permit	NPDES MS4 permit.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Outside	N/A	N/A	N/A	N/A	N/A	N/A
FDOT District 3	N/A	FDOT-001	Fertilizer Cessation	Eliminated fertilizer use for ongoing turf maintenance within entire basin, including areas outside PFAs.	Fertilizer Cessation	Completed	2015	2,756	N/A	PFA1, PFA2	N/A	Not provided	Not provided	Florida Legislature	N/A	N/A
FDOT District 3	N/A	FDOT-002	Street Sweeping	Contract for street sweeping of FDOT curb and gutter roads in urbanized areas of Leon County and City of Tallahassee.	Street Sweeping	Completed	2015	169	N/A	PFA1	N/A	Not provided	Not provided	Florida Legislature	N/A	N/A
FDOT District 3	N/A	FDOT-003	Innovative Nitrogen Removal Technologies	Investigating use of innovative nitrogen removal technologies as part of present work program in PFAs.	Study	Canceled	N/A	N/A	N/A	PFA1, PFA2	N/A	Not provided	Not provided	Florida Legislature	N/A	N/A
FDOT District 3	N/A	FDOT-004	Avoidance of Mapped Karst Caves	Avoid constructing ponds directly over mapped karst caves by providing 300-ft buffer.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Federal Correctional Institute	N/A	FCI-001	NPDES MS4 Permit	Stormwater system inspection and maintenance.	Stormwater System Rehabilitation	Completed	2015	N/A	N/A	Outside	Not provided	N/A	N/A	N/A	N/A	N/A

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Federal Correctional Institute	N/A	FCI-002	No Fertilizer Use	Fertilizer is not applied on facility grounds.	Fertilizer Cessation	Completed	2015	TBD	N/A	Outside	N/A	N/A	N/A	N/A	N/A	N/A
Florida State University (FSU)	N/A	FSU-001	Fertilizer Rule in University Master Plan	Fertilizer Rule in University Master Plan.	Regulations, Ordinances, and Guidelines	Completed	N/A	TBD	N/A	Outside	N/A	N/A	N/A	N/A	N/A	N/A
FSU	N/A	FSU-002	NPDES MS4 Permit	NPDES MS4 permit.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Outside	N/A	N/A	N/A	N/A	N/A	N/A
Gadsden County	N/A	GC-001	Comprehensive Plan Policy 4.5.1 and 5.2.11 in Infrastructure and Conservation Element	Comprehensive Plan Policy 4.5.1 and 5.2.11 in Infrastructure and Conservation Element.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Outside	N/A	N/A	N/A	N/A	N/A	N/A
Gadsden County	N/A	GC-002	Comprehensive Plan Policy 5.2.4 and 5.2.11 in Conservation Element	Comprehensive Plan Policy 5.2.4 and 5.2.11 in Conservation Element.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Outside	N/A	N/A	N/A	N/A	N/A	N/A
Gadsden County	N/A	GC-003	Comprehensive Plan Infrastructure Element	Comprehensive Plan Infrastructure Element.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Outside	N/A	N/A	N/A	N/A	N/A	N/A
Gadsden County	N/A	GC-004	Section 3.4 Special Drainage Basins – Water Quality (Pollution Abatement) in Stormwater Policies and Procedures Manual	Section 3.4 Special Drainage Basins – Water Quality (Pollution Abatement) in Stormwater Policies and Procedures Manual.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	Outside	N/A	N/A	N/A	N/A	N/A	N/A
Gadsden County	N/A	GC-005	Fertilizer Ordinance	Adoption of fertilizer ordinance.	Regulations, Ordinances, and Guidelines	Completed	N/A	14	N/A	Outside	N/A	N/A	N/A	N/A	N/A	N/A
Leon County	NWFWMD/ Blueprint	LC-001	Sewering in PSPZ	County identified project in adopted sewer master plan and water and sewer interlocal agreement with city as targeted area for sewer. Funds for the project are available through county's share of Blueprint Water Quality Funding supported by local infrastructure sales tax, subject to annual budget and appropriation.	OSTDS PhaseOut	Planned	Not provided	TBD	N/A	PFA1	N/A	\$24,500,000	N/A	Not provided	Not provided	N/A
Leon County	NWFWMD	LC-001a	Woodside Heights Septic- to-Sewer Project	Wastewater system expansion to provide service connections, eliminating over 150 OSTDS.	OSTDS Phase Out	Underway	2019	1,358	N/A	PFA1	N/A	\$4,900,000	Not provided	NWFWMD, Blueprint	\$2,450,000	N/A
Leon County	NWFWMD	LC-001b	Woodville Septic to Sewer Project Design	Wastewater system expansion design to provide service	OSTDS PhaseOut	Underway	2019	TBD	N/A	PFA1	N/A	\$3,000,000	Not provided	NWFWMD/ Blueprint	\$1,500,000	N/A

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				connections, eliminating 1,500 OSTDS.												
Leon County	N/A	LC-002	Septic Tank Inventory	GIS inventory of all septic systems in Leon County.	Study	Completed	2013	N/A	N/A	PFA1	N/A	\$50,000	N/A	Not provided	Not provided	N/A
Leon County	N/A	LC-003	Septic Tank Repairs	Proposed revision to septic tank ordinance to require repairs to have minimum 24-in separation between drainfield and seasonal high-water table.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Leon County	NFWFMD	LC-004	Septic Tank Nitrogen Removal Requirements	Pending results of FDOH evaluation of passive systems, as referenced in Section 381.0065(4)(x), F.S., county shall (1) review results of Florida study of nitrogen-reducing, performance-based OSTDS, including passive systems. (2) Identify passive systems regulated under Section 381.0065, F.S., that are approved by state for permitting and appropriate for use in Leon County. (3) Evaluate factors such as cost and operational feasibility of such passive systems. (4) Develop proposed amendment to code of laws requiring use of appropriate systems for new construction in PSPZ.	Study	Underway	Not provided	N/A	N/A	PFA1	N/A	Not provided	N/A	Not provided	Not provided	N/A
Leon County	NFWFMD/ FDOH/ DEP	LC-004a	Passive Onsite Sewage Nitrogen Reduction Pilot Project	Upgrade 37 OSTDS to AWT systems with followup monitoring to determine effectiveness.	OSTDS Enhancement	Underway	2019	335	N/A	PFA1	N/A	\$750,000	N/A	NFWFMD	\$750,000	N/A
Leon County	N/A	LC-005	Septic Tank Education	Add educational kiosks at Woodville Community Center to explain how septic systems work.	Public Education Efforts	Underway	N/A	N/A	N/A	PFA1	N/A	\$2,500	N/A	N/A	N/A	N/A
Leon County	N/A	LC-006	Enacted Comprehensive Fertilizer Ordinance (Number 09-34)	Requires commercial applicators to follow set of BMPs for application of fertilizers.	Regulations, Ordinances, and Guidelines	Completed	N/A	188	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Leon County	N/A	LC-007	Fertilizer Ordinance Modification	Consider modification to fertilizer ordinance to reduce nitrogen application rates below	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A

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				Cody Scarp, if allowable by Florida law.												
Leon County	N/A	LC-008	Education and Outreach	Outreach through FYN, Illicit Discharge Program, pamphlets, presentations, workshops, and special events.	Public Education Efforts	Completed	N/A	377	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Leon County	N/A	LC-009	Enacted Pet Waste Ordinance (Number 11-21)	Education program to promote cleanup of pet waste as contributor to surface water pollution.	Public Education Efforts	Completed	N/A	188	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Leon County	N/A	LC-010	Land Development Regulations	Adopted new minimum countywide environmental regulations that exceed state stormwater standards.	Regulations, Ordinances, and Guidelines	Completed	N/A	TBD	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Leon County	N/A	LC-011	Comprehensive Plan Provisions (Conservation Element Policy 4.2.5)	Reduced allowable development in urban fringe from up to 1 unit per ac to 1 unit per 3 ac. Transfer of density with no net increase in dwelling units as allowed on future land use map permitted.	Regulations, Ordinances, and Guidelines	Completed	N/A	1	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Leon County	N/A	LC-012	Lake Munson Erosion and Flood Protection Upgrades	Removed 15-ac nutrient sediment dam in 2002, stabilized Munson Slough to reduce erosion, and repaired dam for stabilization of lake hydroperiod.	Hydrologic Restoration	Completed	2002	93,299	N/A	PFA1	37,267	\$7,200,000	N/A	Not provided	Not provided	N/A
Leon County	N/A	LC-013	LID	Develop LID incentives to reduce nitrogen loading to surface waters and groundwater.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Leon County	N/A	LC-014	Street Sweeping	Contract for 821 mi of street sweeping annually; collects 124.75 tons/yr.	Street Sweeping	Completed	2015	38	90	PFA1	N/A	N/A	\$75,000	N/A	N/A	N/A
Leon County	N/A	LC-015	FYN Program	Participation in FYN Program through Cooperative Extension Service.	Public Education Efforts	Completed	N/A	1,131	N/A	PFA1	N/A	N/A	\$55,000	N/A	N/A	N/A
Leon County	N/A	LC-016	Irrigation Ordinance	Irrigation ordinance.	Regulations, Ordinances, and Guidelines	Completed	N/A	188	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Leon County	N/A	LC-017	Landscaping Ordinance	Landscaping ordinance.	Regulations, Ordinances, and Guidelines	Completed	N/A	188	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Leon County	N/A	LC-018	Aquifer Vulnerability Assessment	Study to determine areas with most direct connections to Wakulla Springs.	Study	Completed	2007	0	N/A	PFA1	N/A	\$73,000	N/A	N/A	N/A	N/A

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Leon County	City of Tallahassee/ Wakulla County	LC-019	Lombardo Report	In conjunction with City of Tallahassee and Wakulla County, compiled previous studies identifying nitrogen loading to Wakulla Springs, and identified treatment and management options, where central sewer is not available, for purpose of reducing nitrate loading to Wakulla Springs from septic systems in Leon and Wakulla Counties.	Study	Completed	2013	N/A	N/A	PFA1	N/A	\$60,000	N/A	N/A	N/A	N/A
Leon County	N/A	LC-020	Water Quality Sampling	Sampled 73 sites in 13 lakes, 27 streams, and 2 rivers.	Monitoring/Data Collection	Completed	2015	N/A	N/A	PFA1	N/A	\$250,000	N/A	N/A	N/A	N/A
Leon County	N/A	LC-021	Preparation of Annual Water Quality Report	Preparing and publishing annual water quality report to document health of natural systems and use for prioritization of water quality project needs.	Study	Completed	2015	N/A	N/A	PFA1	N/A	N/A	\$15,000	N/A	N/A	N/A
Leon County	EPA	LC-022	Woodville Recharge Aquifer Protection Study	EPA grant to study 60-square-mi Woodville Recharge Basin for flooding, water quality, and aquifer protection.	Study	Completed	2007	N/A	N/A	PFA1	N/A	\$300,000	N/A	EPA	Not provided	N/A
Leon County	N/A	LC-023	Annual Wakulla Springs Status Report	Commitment to develop annual status report on Wakulla Springs for BOCC.	Study	Completed	2014	N/A	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Leon County	N/A	LC-024	Established PSPZ (Number 09-12)	Enacted to establish defined area for enforcement for additional water quality protections in this zone.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	PFA1	98,029	N/A	N/A	N/A	N/A	N/A
Leon County	N/A	LC-025	Eight Mile Pond	Acquisition of 132 ac immediately upstream of Ames Sink to preserve/protect sink.	Land Acquisition	Completed	2010	TBD	N/A	PFA1	Not provided	N/A	N/A	N/A	N/A	N/A
Leon County	N/A	LC-026	Aquifer Wellhead Protection Ordinance (Number 07-20)	Includes Aquifer Protection Program.	Regulations, Ordinances, and Guidelines	Completed	N/A	TBD	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Leon County	N/A	LC-027	Litter Control Program	Maintain 2,316 mi of rights-of-way, collecting 78.4 tons of waste.	Public Education Efforts	Completed	N/A	TBD	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Leon County	N/A	LC-028	Adopt-A-Road Program	Maintain 112 mi of rights-of-way, collecting 2.11 tons of trash.	Public Education Efforts	Completed	N/A	TBD	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A

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Leon County	Blueprint	LC-029/COT-011	Alternatives to Sewer Solutions Study	Study and develop preferred options for management alternatives to traditional OSTDS in unincorporated areas of Leon County, including PSPZ; identify preferred options for responsible management entities, including recommendations for financing and management structure for identified preferred options; identify other issues related to sewage treatment and disposal system financing.	Study	Underway	Not provided	N/A	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Leon County	NFWFMD/ FEMA	LC-029	Harbinwood Estates Ponds	Constructed two stormwater retrofit ponds and planted/stabilized 1,200 LF of channel.	Wet Detention Pond and Shoreline Stabilization	Completed	2008	30	N/A	Outside	269	\$2,980,000	N/A	N/A	N/A	N/A
Leon County	NFWFMD	LC-030	Fuller Rd. Regional Facility	Constructed 10-ac stormwater retrofit facility at I-10 and US Hwy. 27.	STAs	Completed	2010	58	N/A	Outside	400	\$800,000	N/A	N/A	N/A	N/A
Leon County	N/A	LC-031	Fred George Basin Acquisition	Acquisition of 166 ac, including Fred George Sink for preservation/ protection of sink.	Land Acquisition	Completed	2012	TBD	N/A	Outside	N/A	\$2,600,000	N/A	N/A	N/A	N/A
Leon County	N/A	LC-032	Fred George Basin Wetland Rehydration	Wetland rehydration through grade restoration and construction of trash racks at inflow points are planned to improve water quality prior to runoff entering Fred George Sink.	Wetland Restoration	Underway	2019	N/A	N/A	Outside	2,668	\$1,000,000	N/A	N/A	N/A	N/A
Tallahassee Community College	N/A	TCC-001	Fertilizer Cessation	Fertilizer cessation	Fertilizer Cessation	Completed	2012	1	N/A	Outside	N/A	N/A	N/A	N/A	N/A	N/A
Talquin Electric	N/A	TEC-001	Oyster Bay WWTP Abandonment	Oyster Bay WWTP abandonment	WWTF Upgrade	Completed	2016	610	N/A	Outside	3	\$750,000	N/A	N/A	N/A	N/A
Talquin Electric	N/A	TEC-002	Gadsden East WWTP	Gadsden East WWTP – Construct treatment wetland by retrofitting 3 existing rapid infiltration basins (RIBs) and building additional treatment cells.	WWTF Disposal Site	Completed	2016	1,882	N/A	Outside	8	\$200,000	N/A	N/A	N/A	N/A
Talquin Electric	N/A	TEC-003	Hwy. 267 Sewer	Hwy. 267 sewer.	Sanitary Sewer and WWTF Maintenance	Completed	2008	2	N/A	Outside	3	\$400,000	N/A	N/A	N/A	N/A
Talquin Electric	N/A	TEC-004	Beech Ridge Trail Sewer	Beech Ridge Trail sewer	Sanitary Sewer and WWTF Maintenance	Completed	2004	2	N/A	Outside	13	\$40,000	N/A	N/A	N/A	N/A

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Town of Havana	N/A	TH-001	Street Sweeping	Street sweeping	Street Sweeping	Completed	2015	0	N/A	Outside	N/A	N/A	Not provided	N/A	N/A	N/A
Wakulla County	N/A	WC-001	Comprehensive Plan Infrastructure Policy 1.3.6	Requires AWT for any WWTF or spray field located in Wakulla Springs Special Planning Area.	Regulations, Ordinances, and Guidelines	Completed	N/A	N/A	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-002	Otter Creek WWTP Upgrade and Capacity Expansion	Proposed upgrades and expansion to include contributing systems in PFA2 to WWTF for improved treatment.	WWTF Nutrient Reduction	Underway	5/12/2018	TBD	N/A	PFA2	Not provided	\$7,644,346	N/A	USDA Rural Development (RD) Loan/Grant	N/A	N/A
Wakulla County	N/A	WC-003	Public Education on OSTDS	Provide citizens and officials with best available information for decision making regarding use of OSTDS and decentralized wastewater systems to reduce nutrients in groundwater to springs.	Public Education Efforts	Completed	N/A	N/A	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-004	Comprehensive Plan Infrastructure Policy 1.3.7	Requires nitrogen-reducing septic systems on parcels smaller than 5 ac in Wakulla Springs Special Planning Area; within 150 ft of surface water, swallet, or other karst feature, or within 300 ft of first or second magnitude spring; and on all parcels less than 0.229 ac in size.	Regulations, Ordinances, and Guidelines	Completed	N/A	TBD	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla County	NFWFMD	WC-005	Magnolia Gardens Sewer – Phase I	Installation of central sewer and proper abandonment of 159 septic systems.	OSTDS PhaseOut	Underway	2018	1,599	N/A	PFA2	Not provided	\$2,300,000	N/A	Legislative Springs Protection Funds	\$2,300,000	Not provided
Wakulla County	NFWFMD	WC-006	Wakulla Gardens Sewer – Phase I	Installation of central sewer and proper abandonment of 51 septic systems.	OSTDS Phase Out	Underway	2018	513	N/A	PFA2	Not provided	\$2,300,000	N/A	Legislative Springs Protection Funds	\$2,300,000	Not provided
Wakulla County	N/A	WC-007	Greiner's Addition Central Sewer Installation	Planned central sewer installation for Greiner's Addition neighborhood.	OSTDS Phase Out	Planned	TBD	TBD	N/A	PFA2	Not provided	N/A	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-008	Wakulla County WWTF – Plantation River Estates	Wakulla County will assume ownership and management of River Plantation Estates WWTP sewer system and WWTF. Project includes removal and replacement of existing facility.	WWTF Upgrade	Completed	2015	0	N/A	PFA2	Not provided	\$4,900,000	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-009	Wakulla Springs Watershed	Inspection and repair of old, damaged, and failing	OSTDS Enhancement	Planned	TBD	TBD	N/A	PFA1, PFA2	Not provided	\$1,380,300	N/A	N/A	N/A	N/A

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				systems in Wakulla Springs Watershed.												
Wakulla County	N/A	WC-010	Crawfordville TIF District	TIF District for Crawfordville area to fund improvements, including basic infrastructure.	OSTDS PhaseOut	Completed	2015	0	N/A	PFA2	Not provided	N/A	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-011	Fertilizer Use Ordinance 2010-1	Adopts model ordinance on FFL fertilizer use on urban landscapes.	Regulations, Ordinances, and Guidelines	Completed	N/A	71	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-012	Fertilizer Management Education	Education and outreach to public about fertilizer management.	Regulations, Ordinances, and Guidelines	Completed	N/A	143	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-013	Comprehensive Plan Future Land Use Policies 1.2.10, 1.2.10.3, Special Area Plans	Establishes special area plans for Bloxham Special Area Plan, Special Area Plan #2, and Spring Creek Hwy. Special Area Plan in Wakulla Springs Basin. Requires nitrate loading analyses for development. Establish standards for stormwater, karst feature protections, landscaping, and open space.	Regulations, Ordinances, and Guidelines	Completed	N/A	13	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-014	Wakulla County Aquifer Vulnerability Assessment	Modeling effort to identify most vulnerable areas in county.	Study	Completed	2009	Part of WC-10	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-015	Comprehensive Plan Future Land Use Polity 1.2.9.1 – Northeast Wakulla Sustainable Community	Establishes standards for 606 ac in Wakulla Springs Basin. Requires no net increase in nutrients or phosphorus loading to groundwater. Sustainable community standards established for stormwater, groundwater, open space, and BMPs. Requires AWT standards for sanitary sewer service to site.	Regulations, Ordinances, and Guidelines	Completed	N/A	0	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-016	Ordinance 2006-58 (Multiple Objectives and Policies in Comprehensive Plan Conservation and Future Land Use Elements)	Add karst buffers; require nitrate loading study for proposed development greater than 1 ac; incorporate FYN practices and landscaping standards that promote native vegetation for new subdivisions; reduce nitrates from public facilities; and address	Regulations, Ordinances, and Guidelines	Completed	N/A	0	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A

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				stormwater, water conservation, wastewater facilities, treated wastewater reuse, and natural water flows.												
Wakulla County	N/A	WC-017	Comprehensive Plan Conservation Objective 12.0	Develop solutions to restore health of Wakulla Springs by reducing pollutants in groundwater and implementing policies for Wakulla Springs Special Planning Area.	Regulations, Ordinances, and Guidelines	Completed	N/A	0	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-018	Comprehensive Plan Conservation Objective 12.1	Establishes transfer of development rights policy to encourage development in Crawfordville with connection to sewer service, "no net increase in dwelling units above 2 units per acre" allowed by future land use map in Wakulla Springs Special Planning Area, fertilizer restrictions based on FYN Program.	Regulations, Ordinances, and Guidelines	Completed	N/A	0	N/A	PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-019	Comprehensive Plan Conservation Objective 12.2	County shall consider expanding Wakulla Springs Special Planning Area based on geologic vulnerability.	Regulations, Ordinances, and Guidelines	Completed	N/A	0	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-020	Comprehensive Plan Infrastructure Objective 2.5	To protect functions of groundwater recharge areas, springs, and springsheds.	Regulations, Ordinances, and Guidelines	Completed	N/A	0	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-021	Groundwater Extraction Ordinance	Requests NFWMD establish minimum flows and levels for Wakulla Springs and requests NFWMD deny permits to transport water from Wakulla Springs springshed and Ochlocknee and St. Marks Rivers.	Regulations, Ordinances, and Guidelines	Completed	N/A	0	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla County	N/A	WC-022	Litter Regulations. Code of Ordinances Section 27.049	Prohibits litter and dumping along roadways and waterways, and establishes penalties.	Regulations, Ordinances, and Guidelines	Completed	N/A	0	N/A	PFA1, PFA2	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla County	NFWMD	WC-023	Wakulla Gardens Sewer – Phase II	Installation of central sewer and proper abandonment of 181 septic systems.	OSTDS PhaseOut	Underway	2018	1,820	N/A	PFA2	Not provided	\$4,240,000	N/A	Legislative Springs Protection Funds	\$4,240,000	Not provided
Wakulla County	NFWMD	WC-024	Magnolia Gardens Sewer – Phase II	Installation of central sewer and proper	OSTDS Phase Out	Underway	2018	985	N/A	PFA2	Not provided	\$1,560,000	N/A	Legislative Springs	\$1,560,000	Not provided

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				abandonment of 98 septic systems.										Protection Funds		
Wakulla County	NFWFMD	WC-025	Wakulla Gardens Sewer – Phase III	Upgrades and rerouting of 319 lift station.	OSTDS Phase Out	Underway	2018	TBD	N/A	PFA2	Not provided	\$1,066,280	N/A	Legislative Springs Protection Funds	\$1,066,280	Not provided
Wakulla County	N/A	WC-026	WINCO WWTP Purchase	Nitrogen reduction – Northeast Wakulla County.	Wastewater Management	Planned	TBD	TBD	N/A	TBD	Not provided	Not provided	N/A	TBD	N/A	N/A
Wakulla Springs State Park	N/A	WP-001	Learning in Florida's Environment	Annual environmental education program.	Public Education Efforts	Completed	N/A	0	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla Springs State Park	N/A	WP-002	Project Learning Tree	Annual environmental education program.	Public Education Efforts	Completed	N/A	0	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla Springs State Park	N/A	WP-003	Green Guide Class	Annual environmental education program.	Public Education Efforts	Completed	N/A	0	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla Springs State Park	N/A	WP-004	Wakulla Wildlife Festival	Annual environmental education program.	Public Education Efforts	Completed	N/A	0	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
Wakulla Springs State Park	N/A	WP-005	Park Ranger Programs	Annual environmental education program.	Public Education Efforts	Completed	N/A	0	N/A	PFA1	N/A	N/A	N/A	N/A	N/A	N/A
FDACS	N/A	FDACS-01	Agricultural Farm Fertilizer BMP Implementation	Enrollment and verification of BMPs by agricultural producers.	Agricultural BMPs	Underway	2023	25,158	N/A	Inside	TBD	TBD	TBD	TBD	TBD	N/A
FDACS	N/A	FDACS-02	Agricultural Livestock Waste BMP Implementation	Enrollment and verification of BMPs by agricultural producers.	Agricultural BMPs	Underway	2023	2,384	N/A	Inside	TBD	TBD	TBD	TBD	TBD	N/A
Golf Courses	TBD	GC-01	Golf Course Reduction Credits	10 % BMP credit on golf course load to groundwater, assuming 100 % BMP implementation by golf course owners.	Golf Course BMPs	Planned	Not provided	4,013	N/A	Inside	TBD	TBD	TBD	TBD	TBD	N/A
Sports Fields	TBD	SF- 01	Sports Field Reduction Credits	6 % BMP credit on sports field load to groundwater, assuming 100 % BMP implementation by sports field owners.	Sport Field BMPs	Planned	Not provided	136	N/A	Inside	TBD	TBD	TBD	TBD	TBD	N/A
Wastewater Utilities	TBD	WU-01	WWTF Policy Reductions	Achieved by WWTF policy if implemented BMAP-wide, achieving 3 or 6 mg/L.	Wastewater Management	Planned	Not provided	2,097	N/A	Inside	TBD	TBD	TBD	TBD	TBD	N/A

Wekiva River, Rock Springs Run, and Little Wekiva Canal BMAP

Background

The Wekiva River system (including the main stem of the Wekiva River and Rock Springs Run) is designated by the state as an OFW, the Wekiva River and portions of its tributaries are designated as a state Aquatic Preserve worthy of special protection because of their natural attributes, and the river is also designated by the federal government as a Wild and Scenic River. The BMAP area includes the Wekiva River surface water basin, a large portion of the springshed for the group of springs that contributes flow (and nutrients) to the system, the Little Wekiva Canal Basin, and the surface water basin of the Little Wekiva River and Blackwater Creek. The BMAP area is 513 square miles (**Figure B-6**).

DEP determined that the Wekiva River and Rock Springs Run is impaired by elevated TP and nitrate-nitrogen, based on evidence of an imbalance in aquatic flora. The Little Wekiva Canal was verified as impaired for DO and nutrients based on elevated levels of chlorophyll-*a* and was subsequently verified as impaired for DO attributable to elevated TN and BOD. In 2008, DEP adopted the nutrient TMDLs for the Wekiva River, Wekiwa Springs, and Rock Springs Run (nitrate and TP), as well as the nutrient and DO TMDLs for the Little Wekiva Canal. The Wekiva River, Rock Springs Run, and Little Wekiva Canal BMAP was adopted in October 2015 to implement nitrate, TN, TP, and BOD reductions to achieve the TMDLs.

Status of Projects

Through December 31, 2017, 264 projects have been completed. An additional 53 projects that are underway or planned have been added to the BMAP. The projects completed to date are estimated to achieve total reductions of 138,874 lbs/yr of TN.

Additional information will be provided when the OFS BMAP reaches its 5-, 10-, and 15-year milestones. If the milestones, or the 20-year target, will not be met, an explanation of possible causes and potential solutions will be provided. These milestones will be specified in a revised BMAP document. The revised Wekiva River, Wekiwa Springs, and Rock Springs Run BMAP is scheduled to be readopted by July 1, 2018, to meet the statutory requirements added by the 2016 Florida Legislature.

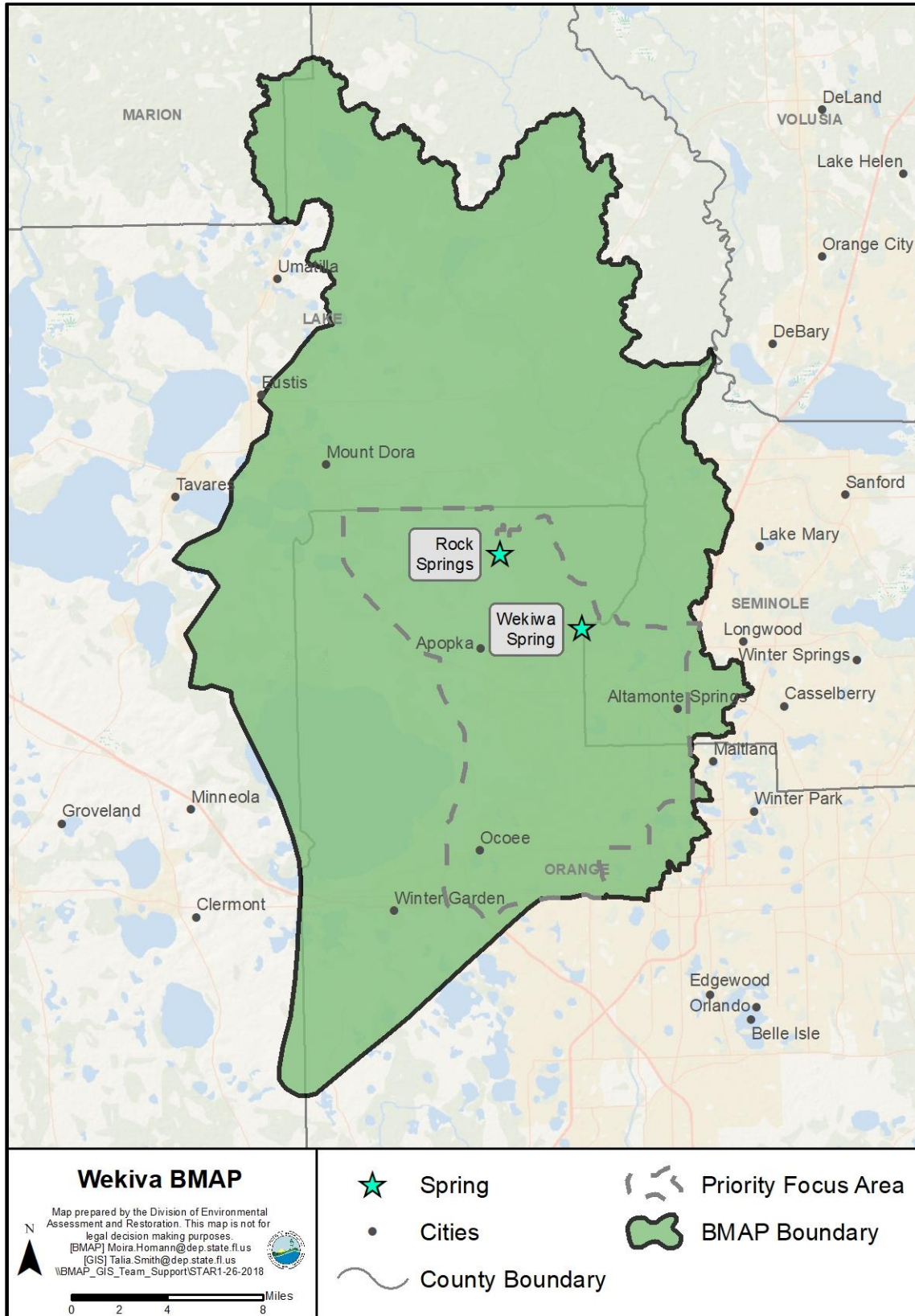


Figure B-6. Wekiva River, Rock Springs Run, and Little Wekiva Canal BMAP area

Table B-6. Wekiva BMAP projects

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
City of Apopka	Not provided	A-01	Lester Rd. Improvement	City paved and improved stormwater collection system.	Stormwater System Rehabilitation	Completed	2014	Not provided	Not provided	Inside Springshed	Not provided	\$30,288,140	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-02	Shopke-Lester Rd. Pond Expansion and Improvement	Improve existing drainage system and dry retention pond to increase inflow mass and reduce outflow mass; pollutant removal efficiency increased from 75 % to 93 %.	Online Retention BMP	Completed	2010	Not provided	1	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-03	Street Sweeping	City Streets Dept. swept total of 1,700 mi in 2017 with total of 844,540 lbs collected.	Street Sweeping	Completed	N/A	72	305	Inside Springshed	~1,200	Not provided	Not provided	Stormwater Service Fees	Not provided	N/A
City of Apopka	Not provided	A-04	Chalet North Mobile Home Park	City worked in cooperation with Orange County Environmental Protection Dept. (OCEPD) and park to decommission package WWTF and effluent percolation pond and connect to city collection system.	WWTF Upgrade	Completed	1992	22,224	9,644	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-05	Individual Septic-to-Sewer Projects	Dr. Philip Trinh Dental Office (place existing septic on city wastewater collection system); Honey Transport Inc. (abandon existing septic and place business on city collection system); United Pentecostal Church (work with church to abandon existing septic system during its expansion and connect to city collection system); Robinsons Restaurant (work with restaurant to transfer wastewater effluent treatment from	Septic Phase Out	Completed	2015	735	557	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				septic system to city collection system).												
City of Apopka	Not provided	A-06	Kelly Park Rd. at Rock Springs (Orange County Park)	Expand Rock Springs Rd. and Kelly Park Rd. collection system, allowing city to connect Orange County's Kelly Park recreation area to city collection system and abandon septic	Septic Phase Out	Completed	2010	282	213	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-07	Kelly Park Rd. 8-in Force Main	Install 1,250 ft of 8-in force main along east end of Kelly Park Rd.; allows Orange County's Kelly Park to connect to city collection system and abandon septic; also allows for future septic connections near Wekiwa and Rock Springs area.	Septic Phase Out	Completed	2009	Not provided	Not provided	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-08	US Hwy. 441 Force Main Extension	Extend city wastewater collection system by installing 12,236 ft of 12-in force main to Jones Ave., making connections to Zellwin Farms and Zellwood Elementary School), and providing availability for future connections in area.	Wastewater Service Area Expansion	Completed	2007	Not provided	Not provided	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-09	Yothers Rd. and Zellwood Station	City installed 5,375 ft of 10-in force main and lift station that allowed Zellwood Mobile Home Park to decommission its package WWTF and effluent percolation pond, reducing effluent load to basin.	Decommissioned WWTF	Completed	2006	13,424	5,825	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-10	Sanlando Utilities Corp. Reuse to City	City is in design stage of receiving Sanlando Utilities Corp. reclaimed water that is currently being discharged into Little	Reclaimed Water	Completed	2013	1,732	4,566	Inside Springshed	N/A	\$3,800,000	Not provided	Not provided	Not provided	Not provided

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				Wekiva, starting at 1 mgd; this will also reduce groundwater withdrawal from city.												
City of Apopka	Not provided	A-11	Northwest Reclaimed/ Stormwater Storage Pond	Constructed 120-million-gallon (mg) lined reclaimed storage pond; pond also collects stormwater from 300-ac northwest recreation facility that is filtered and distributed for irrigation; this will also reduce groundwater withdrawal.	Reclaimed Water	Completed	2007	Not provided	Not provided	Inside Springshed	N/A	\$750,000	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-12	Northwest Reclaimed/ Stormwater Storage Pond B	Construction of 21-mg lined reclaimed storage pond; pond also collects stormwater from 300-ac northwest recreation facility that is filtered and distributed for irrigation; this will also reduce groundwater withdrawal.	Reclaimed Water	Completed	2016	Not provided	Not provided	Inside Springshed	N/A	\$1,587,000	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-13	Northwest Reclaimed/ Stormwater Storage Pond C	Construction of 68-mg lined reclaimed storage pond; pond also collects stormwater from 300-ac northwest recreation facility that is filtered and distributed for irrigation; this will also reduce groundwater withdrawal.	Reclaimed Water	Underway	2005	Not provided	Not provided	Inside Springshed	N/A	\$1,380,000	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-14	Altamonte Springs to Apopka	Altamonte is in construction stage of sending 3.5 mgd of reuse water to Apopka with potential to discharge to Little Wekiva River.	Reclaimed Water	Completed	2016	Not provided	Not provided	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
City of Apopka	Not provided	A-15	Orange County Reuse to City	City is in design stage for receiving 3 mgd of reclaimed water that is currently going to Orange County RIBs; will also reduce groundwater withdrawal from city.	Reclaimed Water	Completed	2013	2,308	6,088	Inside Springshed	N/A	\$490,000	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-16	Lift Station 9 and 10 Wet Wells	Rehabilitate lift station wet well because hydrogen sulfide is dissolving concrete walls.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	2008	Not provided	Not provided	Inside Springshed	N/A	\$41,945	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-17	Manholes (Alabama and 8th St.; Little St. and 9th St.; Park Ave; Charleston Park Subdivision)	Reline manholes with supercoat spray to prevent leaking between bricks.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	2011	Not provided	Not provided	Inside Springshed	N/A	\$28,420	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-18	Victoria Plaza, Forest Ave., 3rd St., Park Ave.	Reline to correct leaking joints.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	Prior to 2015	Not provided	Not provided	Inside Springshed	N/A	\$200,591	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-19	WWTP Expansion and Nutrient Removal	City is in design stage of upgrading existing treatment plant and expanding capacity to 8 mgd.	WWTF Nutrient Reduction	Underway	2019	TBD	Not provided	Inside Springshed	N/A	\$63,000,000	Not provided	Not provided	Not provided	Not provided
City of Apopka	Not provided	A-20	Harry St. Project	Drainage easement located off Harry St. in Apopka has become dumping ground. City is removing all garbage, debris, and litter; installing new fence to protect retention area; and sodding hill slope to prevent erosion.	BMP Clean Out	Underway	2018	Not provided	Not provided	Inside Springshed	~0.5	\$26,000	Not provided	Stormwater Service Fees	\$26,000	N/A
City of Apopka	Not provided	A-21	MS4 Lake Sampling	Six lakes connected to major outfalls are being sampled monthly. This monthly sampling will set baseline of yearly fluctuations in nutrients and parameters. Marshall Lake, monitored under TMDL Program, is	Monitoring/ Data Collection	Underway	2018	Not provided	Not provided	Inside Springshed	Not provided	\$6,000	Not provided	Stormwater Service Fees	\$6,000	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				sampled quarterly to monitor nutrient loading and parameters.												
City of Apopka	Not provided	A-22	Fertilizer Reduction	City has adopted Orange Fertilizer Ordinance. Grounds Dept. only fertilizes twice annually instead of quarterly on all city-owned and maintained (not recreational nor sports arena) landscapes.	Regulations, Ordinances, and Guidelines	Completed	N/A	278	Not provided	Inside Springshed	~8	N/A	N/A	N/A	N/A	N/A
City of Altamonte Springs	City / SJRWMD/ Seminole County/ Orange County	AS-01	Little Wekiva River Erosion Management Projects (1, 2, and 3)	Install structural controls to provide riverbank stabilization.	Shoreline Stabilization	Completed	2000	25	17	Inside Springshed	N/A	\$350,000	\$1,000	Not provided	350,000	N/A
City of Altamonte Springs	City / SJRWMD/ Seminole County/ Orange County	AS-02	Riverbend Apartments Shoreline Stabilization	Install structural controls to provide riverbank stabilization.	Shoreline Stabilization	Completed	2004	11	8	Inside Springshed	N/A	\$250,000	\$500	Not provided	250,000	N/A
City of Altamonte Springs	N/A	AS-03	Stimmell Tract Land Preservation (Audubon Society)	Conservation project – purchase 268 ac of land for preservation.	Land Preservation	Completed	2004	N/A	N/A	Inside Springshed	268	\$398,444	N/A	N/A	\$398,444	N/A
City of Altamonte Springs	N/A	AS-04	Altamonte Springs Shopping Center (Crossroads) Development	Construct 20,602-square-ft retail/restaurant building with attendant parking and site utilities, plus stormwater facilities, on 2.06-ac site, providing higher level of stormwater treatment as result of city ordinance.	Stormwater BMP	Completed	2010	0	0	Inside Springshed	2	N/A	N/A	Private Development – unknown	N/A	N/A
City of Altamonte Springs	N/A	AS-05	Brantley Terrace Condo	Phase 3 of Lake Lotus Club, multifamily condominium development.	Stormwater BMP	Completed	2002	1	Not provided	Inside Springshed	15	N/A	N/A	Private Development – unknown	N/A	N/A
City of Altamonte Springs	N/A	AS-09	Gateway Clinic and Gateway Crossing Development	Stormwater management system with online dry retention/detention area, providing higher level of stormwater	Stormwater BMPs	Completed	2006	6	11	Inside Springshed	34	N/A	N/A	Private Development – unknown	N/A	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				treatment as result of city ordinance.												
City of Altamonte Springs	N/A	AS-13	Spring Oaks, San Sebastian, and River Run Inlet Skimmer Baskets	Install 39 inlet skimmer baskets.	Catch Basin Inserts	Completed	2006	1	1	Inside Springshed	91	\$23,890	\$1,000	Stormwater Utility Fund	23,890	N/A
City of Altamonte Springs	N/A	AS-14	West Altamonte Operations and Administration Center	Identified area does not contribute to Wekiva River; however, closed basin was not removed from consideration in TMDL because of potential influence on springshed.	Closed Basin	Completed	2008	26	24	Inside Springshed	29	\$8,000,000	\$500	Public Works Capital Project Fund	8,000,000	N/A
City of Altamonte Springs	N/A	AS-15	Street Sweeping	Street sweeping occurs daily; total swept = 5,000 mi/yr – Split between springshed and surface.	Street Sweeping	Completed	N/A	518	N/A	Inside Springshed	245	\$480,000 (\$240,000/sweeper)	\$100,000	Stormwater Utility Fund	\$480,000 (\$240,000/sweeper)	N/A
City of Altamonte Springs	N/A	AS-16	Citywide Pollutant Loading Model/ Hydrologic and Hydraulic (H&H) Study	City is contracting with consultants to complete citywide pollutant model and H&H study.	Study	Planned	TBD	N/A	N/A	Inside Springshed	N/A	\$200,000	N/A	Stormwater Utility Fund	TBD	N/A
City of Altamonte Springs	N/A	AS-17	Lake Orienta, Adelaide, and Florida Hydrologic/ Nutrient Budgets and Management Plans	City contracted with consultants to determine phosphorus and nitrogen loadings to Lakes Orienta, Florida, and Adelaide; best pollutant load reduction options recommended based on study results.	Study	Completed	2009	N/A	N/A	Inside Springshed	N/A	\$105,000	N/A	Stormwater Utility Fund	TBD	N/A
City of Altamonte Springs	City/ FDOT/ SJRWMD/ DEP/ Apopka	AS-23	Altamonte Springs- FDOT Integrated Reuse and Stormwater Treatment (A-FIRST)	Collection, treatment, and reuse of stormwater from Cranes Roost Basin (including I-4 widening) and elimination of 2 direct wastewater discharge points to Little Wekiva River.	Stormwater Reuse	Completed	2016	TBD	TBD	Inside Springshed	1,931	\$12,500,000	TBD	DEP/ FDOT/ SFRWMD/ City	\$1,500,000 \$4,500,000 \$3,500,000 \$3,000,000	S0651

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
City of Altamonte Springs	N/A	AS-25	Citywide Inflow & Infiltration (I&I) Study	Contract with consultant to evaluate city's sewer system to identify areas prone to I&I and develop schedule for repair.	Study	Underway	TBD	N/A	N/A	Inside Springshed	N/A	\$80,000	N/A	Public Works Capital Project Fund	80,000	N/A
City of Altamonte Springs	N/A	AS-26	Fertilizer Ordinance	Fertilizer ordinance adopted citywide.	Regulations, Ordinances, and Guidelines	Completed	N/A	33	N/A	Inside Springshed	6187	N/A	N/A	N/A	N/A	N/A
FDACS	N/A	FDACS-01	Agricultural Farm Fertilizer BMP Implementation	Enrollment and verification of BMPs by agricultural producers.	Agricultural Farm Fertilizer BMP Implementation	Underway	2023	16,513	N/A	Inside Springshed	TBD	TBD	TBD	TBD	TBD	N/A
FDACS	N/A	FDACS-02	Agricultural Livestock Waste BMP Implementation	Enrollment and verification of BMPs by agricultural producers.	Agricultural Livestock Waste BMP Implementation	Underway	2023	832	N/A	Inside Springshed	TBD	TBD	TBD	TBD	TBD	N/A
FDACS	N/A	FDACS-03	Agricultural Nurseries Fertilizer BMP Implementation	Enrollment and verification of BMPs by agricultural producers.	Agricultural Nurseries Fertilizer BMP Implementation	Underway	2023	5,364	N/A	Inside Springshed	TBD	TBD	TBD	TBD	TBD	N/A
FDOT District 5	N/A	FDOT-02	FM: 239289 (2 Treatment Projects)	SR 438: Treatment Basin 2 (Ponds 2A, 2B, and 2C) and Wet Detention Pond 4 providing treatment for runoff generated from existing and proposed pavement.	Wet Detention Pond	Completed	2004	13	9	Inside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-02b	FM: 239289 (2 Treatment Projects)	SR 438: Treatment basin – Pond 2B.	Wet Detention Pond	Completed	2004	N/A	N/A	Inside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-02c	FM: 239289 (2 Treatment Projects)	SR 438: Treatment basin – Pond 2C.	Dry Retention Pond	Completed	2004	N/A	N/A	Inside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-02d	FM: 239289 (2 Treatment Projects)	SR 438: Wet detention – Pond 4.	Wet Detention Pond	Completed	2004	N/A	N/A	Inside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-07	FM: 410983-1	SR 50: from Avalon Rd. to SR 429/ Western Beltway; Wet Detention Pond L-4, L-7, M-10/11, and N-2/2A providing treatment for existing and new pavement.	Stormwater BMP Retrofit/Expansion	Completed	2014	59	42	Inside Springshed	6.6	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-07b	FM: 410983-1	SR 50: from Avalon Rd. to SR Wet Detention Pond L-4,	Stormwater BMP Retrofit/Expansion	Completed	2014	N/A	N/A	Inside Springshed	6.6	Not provided	Not provided	Florida Legislature	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				L-7, M-10/11, and N-2/2A providing treatment for existing and new pavement.												
FDOT District 5	N/A	FDOT-07c	FM: 410983-1	SR 50: from Avalon Rd. to SR 429/Western Beltway; Wet Detention Pond L-4, L-7, M-10/11, and N-2/2A providing treatment for existing and new pavement.	Stormwater BMP Retrofit/Expansion	Completed	2014	N/A	N/A	Inside Springshed	6.6	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-07d	FM: 410983-1	SR 50: from Avalon Rd. to SR 429/Western Beltway; Wet Detention Pond L-4, L-7, M-10/11, and N-2/2A providing treatment for existing and new pavement.	Stormwater BMP Retrofit/Expansion	Completed	2014	N/A	N/A	Inside Springshed	6.6	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-07e	FM: 410983-1	SR 50: from Avalon Rd. to SR 429/Western Beltway; Wet Detention Pond L-4, L-7, M-10/11, and N-2/2A providing treatment for existing and new pavement.	Stormwater BMP Retrofit/Expansion	Completed	2014	N/A	N/A	Inside Springshed	6.6	Not provided	Not provided	Florida Legislature	Not provided	N/A
Golf Courses	TBD	GC-01	Golf Course Reduction Credits	10 % BMP credit on golf course load to groundwater, assuming 100 % BMP implementation by golf course owners.	Golf Course Reduction Credits	Planned	TBD	7,408	N/A	Inside Springshed	2,412	TBD	TBD	TBD	TBD	N/A
Lake County	N/A	LC-13	Fertilizer Ordinance	Enhanced fertilizer ordinance above model ordinance requirements.	Regulations, Ordinances, and Guidelines	Completed	N/A	8	N/A	Inside Springshed	N/A	Not provided	Not provided	Lake County	Not provided	Not provided
City of Ocoee	N/A	O-01	ABC Fine Wine and Spirits Store # 52	2.96-ac project; proposed surface water management system will retain and recover 3 in of runoff from increase in impervious area; sewer area.	Stormwater BMPs	Completed	2008	0	1	Inside Springshed	2.96	Not provided	Not provided	Not provided	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
City of Ocoee	N/A	O-02	Arden Park South	98.52-ac project; construct 157 single-family residential subdivision with 4 dry retention ponds; surface water management system to store and recover pre- vs. post-development runoff volume from 25-yr, 96-hr event; sewer area.	Online Retention BMP	Completed	2013	0	1	Inside Springshed	98.52	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-03	Cambridge Village Subdivision	Cambridge Village is 8.97-ac single-family residential subdivision located southeast of intersection of White Rd. and Clarke Rd. in Ocoee; surface water management system includes 30 lots, associated road, and 1 dry retention system.	Online Retention BMP	Completed	2002	0	0	Inside Springshed	8.97	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-04	Forest Trails Subdivision	3 dry retention ponds to serve 51.8-ac single-family residential development.	Online Retention BMP	Completed	2004	0	0	Inside Springshed	51.80	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-05	Hackney Prairie Park	4.26-ac project served by stormwater treatment retention system; sewer area.	Online Retention BMP	Completed	2015	0	0	Inside Springshed	4.26	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-06	Ingram Estates Subdivision	11.47-ac residential site, single lots, with stormwater system; 2 dry retention systems; recharge volume to be recovered within 72 hrs; sewer area.	Online Retention BMP	Completed	2007	0	1	Inside Springshed	11.47	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-07	Oak Trail Reserve	Construct and operate surface water management system serving 61 single-family lots on 34.57-ac residential development located in Wekiva River Protection Basin; sewer area.	Stormwater BMPs	Completed	2017	1	2	Inside Springshed	34.57	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-08	Ocoee Carwash	1.79-ac car wash facility, Lake Lotta	Septic Phase Out	Completed	2009	2	4	Inside Springshed	1.79	Not provided	Not provided	Not provided	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				Watershed; sewer area.												
City of Ocoee	N/A	O-09	Olympia Planned Unit Development	21.2-ac commercial and public development, including Walgreens store and public library; one wet detention system and one dry retention system constructed.	Stormwater BMPs	Completed	2001	1	1	Inside Springshed	21.20	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-10	Orchard Park Phase III Subdivision	Orchard Park Phase III – 30.7-ac subdivision is located west of Lake Addah, on south side of Clarcona-Ocoee Rd., in west Orange County; site is located in Wekiva River Hydrologic Basin, south of SR 436, within Most Effective Recharge Area, but does not contain any portions of Riparian Habitat Protection Zone (RHPZ); project consists of construction of 65-lot single-family residential subdivision and dry retention pond; applicant does not propose any development.	Online Retention BMP	Completed	2001	0	0	Inside Springshed	30.70	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-11	Peach Lake Manor Drainage Improvements	Construct and operate dry retention system (retrofit) of BMPs to serve 60-ac residential subdivision with no conventional stormwater treatment; sewer area.	Online Retention BMP	Underway	2014	TBD	24	Inside Springshed	60.00	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-12	Prairie Lake Reserve	Construct surface water management system to serve 42-ac residential subdivision (townhomes); 3 retention ponds permitted.	Online Retention BMP	Completed	2007	0	0	Inside Springshed	42.00	Not provided	Not provided	Not provided	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
City of Ocoee	N/A	O-13	Remington Oaks Phase I and II Subdivision	140-lot single-family 49.5-ac subdivision with 2 dry retention ponds.	Online Retention BMP	Completed	1999	0	0	Inside Springshed	49.50	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-14	Sabinal Ct. and Geneva St. Drainage Improvements – Prima Vista Subdivision	City applied for government modification in accordance with Paragraph 40C-42.024(2)(c), F.A.C.; city requested permission to perform construction activities in existing channel system that connects to Lake Lotta within Wekiva Recharge Protection Basin, but does not lie in Lake Apopka Basin; construction activities include removing and replacing concrete stormwater junction box, removing segment of 30-in reinforced concrete pipe (RCP), installing 18-in RCP, installing 42-in RCP to replace 30-in RCP, installing 2nd-generation baffle box, pipe end treatments, repairing and regrading channel side slopes, and installing stabilization matting; proposed improvements will alleviate flooding, improve safety, and improve water quality in subdivision that has no permitted stormwater management treatment system.	Baffle Boxes – 2nd Generation	Completed	2011	TBD	4	Inside Springshed	45.20	\$76,500	Not provided	City	Not provided	N/A
City of Ocoee	N/A	O-15	Villa Roma	8.92-ac project; construct 52-townhome subdivision to be served by wet	Wet Detention Pond	Completed	2011	1	1	Inside Springshed	8.92	Not provided	Not provided	Not provided	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				detention system; project will provide 100-yr compensating storage, sewer area.												
City of Ocoee	N/A	O-16	Villages of West Oak Subdivision	Construct 2 dry retention ponds to serve 33-lot, single-family, 5.5-ac subdivision.	Online Retention BMP	Completed	2000	0	0	Inside Springshed	5.50	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-17	Wellington Place Subdivision	Construct surface water management system to serve 14-ac residential subdivision.	Stormwater BMPs	Completed	2003	0	0	Inside Springshed	14.00	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-18	West Colonial Property	Construct 6.95-ac commercial development; sewer area.	Stormwater BMPs	Underway	2015	1	0	Inside Springshed	6.95	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-19	Street Sweeping	Streets are swept daily; all debris collected from street sweeping and pollution boxes is stockpiled and sent to landfill; length = 82 mi; road length swept = 3,500 mi/yr; 600 tons of debris removed annually.	Street Sweeping	Completed	N/A	87	368	Inside Springshed	Not provided	Not provided	Not provided	City Stormwater Fund	Not provided	N/A
City of Ocoee	N/A	O-20	Lift Station #7 Rehabilitation and Relocation	Existing lift station at end of life cycle and experiencing operational issues; relocate replacement station north 900 ft, provide new generator set, provide bypass pumping, and increase pump horsepower.	Sanitary Sewer Collection System Rehabilitation, aintenance, or Replacement	Completed	2015	Not provided	N/A	Inside Springshed	N/A	\$1,901,067	Not provided	City	Not provided	N/A
City of Ocoee	N/A	O-21	Willows on the Lake	Construct surface water management system to serve 86-unit, single-family, 15.18-ac subdivision and 9.99-ac Publix shopping center.	Stormwater BMPs	Completed	2001	1	1	Inside Springshed	15.18	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-22	Bluford Ave. and Orlando Ave, Storwater Improvements Project	Project consists of retrofitting area with no stormwater collection and treatment.	Stormwater BMPs	Completed	2016	TBD	3	Inside Springshed	23.7	\$1,425,549	Not provided	City Stormwater Fund	Not provided	N/A

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City of Ocoee	N/A	O-23	Downtown Redevelopment Master Plan – Bluford Ave. Area	Project consists of revitalizing downtown area of city with retrofitting with regional stormwater collection and treatment.	Regional Stormwater Treatment	Planned	TBD	Not provided	Not provided	Inside Springshed	100.0	\$50,000,000	Not provided	City Funding and Bond	Not provided	N/A
City of Ocoee	N/A	O-24	Public Works Complex Stormwater Management System	Retrofitting Public Works Complex with stormwater management system	Wet Detention Pond	Completed	2016	TBD	10	Inside Springshed	7.5	\$147,041	Not provided	City Stormwater Fund	Not provided	N/A
City of Ocoee	N/A	O-25	White Rd. Stormwater Improvements	Retrofitting road with exfiltration system design.	Exfiltration Trench	Completed	2017	TBD	3	Inside Springshed	1.6	\$405,960	Not provided	City Stormwater Fund	Not provided	N/A
City of Ocoee	N/A	O-26	Arden Park North Phase 2	310-ac site with construction of 7 dry retention ponds (2 of which are interconnected) for future construction. Runoff will be conveyed to master system for required treatment volume and attenuation and discharge as in predevelopment condition. Master system has been designed for future buildout condition of 595 single-family lots, roadways, storm sewer system, clubhouse, and school.	Online Retention BMP	Completed	2016	N/A	N/A	Inside Springshed	310.0	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-27	McCormick Reserve	Project consists of 133 single-family lots, roadway, storm sewer system, extending portion of Clark Rd. and 1 dry retention pond. Runoff from site will be conveyed to dry retention pond for required treatment volume and attenuation and discharge to match predevelopment condition. O&M for portion of Clark Rd. to	Online Retention BMP	Completed	2016	N/A	N/A	Inside Springshed	38.1	Not provided	Not provided	Not provided	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				be constructed under application is City of Ocoee.												
City of Ocoee	N/A	O-28	Forest Lake Estates	Major modification to existing permit known as Whispering Pines Subdivision because of project name change, ownership change, product change, layout change and associated changes to drainage patters and infrastructure. Ocoee Pines is proposed single-family development that will consist of 278 single-family homes and community amenity center located in City of Ocoee on both east and west side of Clarcona-Ocoee Rd. There will be expansion to existing pond previously permitted with Clarcona-Ocoee Rd. under ERP 40-095-70576-6.	Stormwater BMP Retrofit/Expansion	Completed	2016	N/A	N/A	Inside Springshed	97.7	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-29	Spring Lake Reserve	Proposed project is single-family subdivision, and system includes 79 single-family lots, roads, storm sewer system, and 3 dry retention ponds (2 interconnected). Project is located in Wekiva River Hydrologic Basin.	Online Retention BMP	Completed	2016	N/A	N/A	Inside Springshed	17.4	Not provided	Not provided	Not provided	Not provided	N/A
City of Ocoee	N/A	O-30	Flewelling Ave. Stormwater Treatment System Project	Proposed modification consists of retrofitting 113-ac watershed with 2nd-generation baffle box	Baffle Boxes – 2nd Generation	Underway	2018	TBD	10	Inside Springshed	113.7	\$340,000	Unknown at this time	City of Ocoee Stormwater Utility Fund	\$1	N/A

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City of Ocoee	N/A	O-31	Fertilizer Ordinance – Orange County Ordinance No. 2017-14	Fertilizer management ordinance – countywide.	Regulations, Ordinances, and Guidelines	Completed	N/A	135	N/A	Inside Springshed	N/A	N/A	N/A	N/A	N/A	N/A
City of Ocoee	N/A	O-32	Local Landscaping Ordinance	Landscaping ordinance	Regulations, Ordinances, and Guidelines	Completed	N/A	135	N/A	Inside Springshed	N/A	N/A	N/A	N/A	N/A	N/A
City of Ocoee	N/A	O-33	PSAs	Information pamphlets, IDDE training, and pamphlets.	Public Education Efforts	Completed	N/A	270	N/A	Inside Springshed	N/A	N/A	N/A	N/A	N/A	N/A
Town of Oakland	Individual property owners	OAK-01	Single-Family Residential Infill Depressions	Install depressional retention on all new infill single-family residences in old part of town to increase recharge and decrease surface flow.	Online Retention BMP	Completed	Prior to 2015	N/A	N/A	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Town of Oakland	Town of Oakland	OAK-02	Southern Oaks – Phase 1 and 2	Drainage conveyance maintenance in established neighborhood to enable proper treatment of stormwater flows. Lack of maintenance had caused sheet flows to bypass existing treatment ponds.	Stormwater System Rehabilitation	Completed	2017	N/A	N/A	Inside Springshed	approx. 15 ac	\$30,000	Not provided	Not provided	Not provided	Not provided
Town of Oakland	Town of Oakland	OAK-03	Speer Park Stormwater	Construct earthen berm to intercept sheet flows from Speer Park and adjacent streets. Improvements provide attenuation and treatment of stormwater flows to reduce pollutant loading and erosion.	Stormwater BMPs	Completed	2016	Not provided	Not provided	Inside Springshed	approx. 5 ac	\$15,000	Not provided	Not provided	Not provided	Not provided
Town of Oakland	DEP/EPA 319(h)/ SJRWMD/ DEP TMDL/ Town of Oakland	OAK-04	Stormwater/Drainage Improvements – Mid-Town – Phase 1	Construct new stormwater collection system comprising biofiltration retention ponds, storm pipes and inlets, and swales in town's Lower Basin (Phase 1). Three existing retention ponds will be modified and will use Bold and	Stormwater BMPs	Underway	2018	8	10	Inside Springshed	39	Design Cost – unknown Construction Cost – Phase 1 \$579,787	Not provided	Not provided	Not provided	DEP #NF008 SJRWMD #28782

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				Gold™ bioabsorption material.												
Town of Oakland	Town of Oakland	OAK-05	Townwide Drainage Maintenance	Drainage conveyance maintenance in established neighborhoods to enable proper treatment of stormwater flows.	Stormwater System Rehabilitation	Completed	2017	N/A	N/A	Inside Springshed	TBD	TBD	TBD	Town	2017 – \$20,000 2018 – \$20,000	N/A
Town of Oakland	Town of Oakland	OAK-06	Oakland Sewer Master Plan	Creation of centralized wastewater system to enable "zero growth" of septic systems and to allow for conversions of existing septic systems.	Wastewater Service Area Expansion	Completed	2016	N/A	N/A	Inside Springshed	N/A					N/A
Town of Oakland	DEP	OAK-07	Oakland Sanitary Sewer – Phase 1A	Construction of regional sewage lift station and force main that conveys sewage to Clermont for treatment.	Wastewater Service Area Expansion	Completed	2017	N/A	N/A	Inside Springshed	Not provided	\$700,000+-	TBD	DEP	\$250,000	LP4803I
Town of Oakland	DEP	OAK-08	Oakland Sanitary Sewer – Phase 1B and 1C	Expansion of wastewater system to eliminate existing septic systems and allow new growth without septic.	Wastewater Service Area Expansion	Underway	2018	N/A	N/A	Inside Springshed	Not provided	Design cost – \$85,000 (est.) Construction cost – \$1,300,000 (est.)	TBD	DEP	\$1,000,000	LP4803J
Town of Oakland	Town of Oakland	Oak-09	Hull Island Development	Acquisition of 35 ac of wetlands and 2 ac of upland along south shore of Lake Apopka.	Land Acquisition	Underway	2018	N/A	N/A	Inside Springshed	37	\$500,000	N/A	N/A	N/A	N/A
Town of Oakland	DEP	Oak-10	Oakland Sewer Expansions – 2017	Installation of centralized sewer in existing industrial area (Industrial Extension) and improvements to serve areas east of SR 50 and Turnpike interchange.	Wastewater Service Area Expansion	Underway	2019	N/A	N/A	Inside Springshed	Not provided	Design cost – \$85,000 (est.) Construction cost – \$1,300,000 (est.)	TBD	DEP	\$1,000,000	LP4803L
Town of Oakland	Pulte Homes	Oak-11	Turnpike Force Main and Longleaf at Oakland Development	Construction of sanitary sewer force main under SR 50 and Florida Turnpike interchange, and sewer network to serve 200 residential units.	Wastewater Service Area Expansion	Underway	2018	N/A	N/A	Inside Springshed	Not provided	Design cost – \$40,000 Construction cost – \$5,450,000	TBD	Pulte Homes	\$5,000,000	N/A

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Town of Oakland	Town of Oakland	Oak-12	Railroad Ave. Sanitary Sewer Lift Station	Construct regional sewage lift station and associated gravity sewer to allow for future septic system abandonments.	Wastewater Service Area Expansion	Underway	2018	N/A	N/A	Inside Springshed	Not provided	Design cost – \$35,000 Construction cost – \$400,000	TBD	Town	\$430,000	N/A
Orange County	Not provided	OC-01	Elba Way	Erosion protection of Little Wekiva River; install gabions, grade control structures, river reshaping.	Shoreline Stabilization	Completed	Prior to 2015	24	35	Inside Springshed	N/A	\$1,000,000	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-02	Gusty Lane	Remove existing triple aluminum pipes along Little Wekiva River at Gusty Lane Dr. and replace with control structure using rip-rap and gabion materials; install pipe and inlet for existing ditch adjacent to canal.	Control Structure	Completed	Prior to 2015	5	8	Inside Springshed	N/A	\$132,000	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-03	NRCS Riverside Acres	Erosion protection of Little Wekiva river bank, install rip-rap; project length = 287 ft.	Shoreline Stabilization	Completed	Prior to 2015	7	11	Inside Springshed	N/A	\$650,000	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-04	NRCS Riverside Park Ave.	Erosion protection of Little Wekiva riverbank, install rip-rap; project length 150 ft.	Shoreline Stabilization	Completed	Prior to 2015	4	6	Inside Springshed	N/A	\$350,000	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-05	Riverside Acres Arch Pipe	Replace existing 1,750 ft of pipe-arch pipe in Riverside Acres Subdivision with open channel section and restore to reflect original river configuration.	Hydrologic Restoration	Completed	Prior to 2015	Not provided	Not provided	Inside Springshed	N/A	\$5,000,000	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-06	Riverside Park Rd.	Banks in main stem of river and into Lake Lovely Outfall Canal, including grade control structure; project includes gabions, Reno mattress, and riprap channel bottom and side bank protection.	Shoreline Stabilization	Completed	Prior to 2015	25	38	Inside Springshed	N/A	\$600,000	Not provided	Not provided	Not provided	Not provided

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Orange County	Not provided	OC-07	Sherry Dr.	Erosion protection of Little Wekiva River bank; install gabion block and Reno mattress; project length = 400 ft.	Shoreline Stabilization	Completed	Prior to 2015	10	15	Inside Springshed	N/A	\$600,000	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-08	Little Wekiva Slope Stabilization West/East Banks	Eliminate bank erosion by using steel sheet pile.	Shoreline Stabilization	Completed	Prior to 2015	32	49	Inside Springshed	N/A	\$700,000	Not provided	Not provided	Not provided	Not provided
Orange County	Orange County	OC-09	Lake Lucie Conservation Area	Previous land use = agriculture; management focus = scrub habitat and water resource, passive recreational; ac = 166.22.	Land Use Change	Completed	Prior to 2015	9	11	Inside Springshed	166	\$4,397,800	N/A	N/A	Inside Springshed	N/A
Orange County	Orange County/ SJRWMD/ Orlando-Orange County Central Florida Expressway Authority (OOCEA)/ Lake County/ TIF	OC-10	Neighborhood Lakes	DEP, SJRWMD, OOCEA, and Lake and Orange Counties partnered to buy land and put into conservation; previous land use = agriculture; management focus = water resource, passive; ac = 1,584 (498 ac in Orange County).	Land Acquisition	Completed	Prior to 2015	N/A	N/A	Inside Springshed	498	\$7,000,000	N/A	Not provided	Not provided	N/A
Orange County	Orange County	OC-11	Pine Plantation	Previous land use = agriculture; management focus = passive recreation, preservation; ac = 40.	Land Use Change	Completed	Prior to 2015	0	0	Inside Springshed	40	\$1,000,000	N/A	N/A	N/A	N/A
Orange County	Orange County	OC-12	Sandhill Preserve	Previous land use = agriculture; management focus = water resource, sandhill; ac = 83.03.	Land Use Change	Completed	Prior to 2015	7	8	Inside Springshed	83	\$3,320,000	N/A	N/A	N/A	N/A
Orange County	Not provided	OC-13	Stormwater Pond Inspection	Inspect private/public stormwater ponds for compliance with performance and permit conditions.	Stormwater BMP Inspections	Completed	Prior to 2015	N/A	N/A	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-14	Tree Planting at Elba Way/Riverside Park	Project will reduce temperature of water and improve SCI.	Tree Planting	Completed	Prior to 2015	N/A	N/A	Inside Springshed	N/A	\$55,000	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-15	11th and 12th St. Improvement	New stormwater treatment to serve 11th and 12th Sts.; 8.8 ac.	Stormwater BMP	Completed	Prior to 2015	12	69	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided

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Orange County	Not provided	OC-16	Clarcona Ocoee East and West Segments	Four-lane road improvement; existing 2 lanes do not have stormwater treatment; project length = 2.5 mi.	Stormwater BMP	Underway	Not provided	8	47	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-22	Rock Spring Rd.	Four-lane road improvement; existing 2 lanes do not have stormwater treatment; project length = 2 mi.	Stormwater BMPs	Completed	Prior to 2015	7	39	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-23	11th Ave.	Pave .3-ac dirt road; treatment with open swales and ditch blocks.	Grass Swales with Swale Blocks or Raised Culverts	Completed	Prior to 2015	0	2	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-24	13th Ave.	Pave .5-ac dirt road; treatment with open swales and ditch blocks.	Grass Swales with Swale Blocks or Raised Culverts	Completed	Prior to 2015	1	4	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-25	15th Ave.	Pave .3-ac dirt road; treatment with open swales and ditch blocks.	Grass Swales with Swale Blocks or Raised Culverts	Completed	Prior to 2015	0	2	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-26	17th Ave.	Pave .6-ac dirt road; treatment with open swales and ditch blocks.	Grass Swales with Swale Blocks or Raised Culverts	Completed	Prior to 2015	1	5	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-27	Lake Pleasant Rd. Improvement	Pave .12-ac dirt road; treatment with open swales and ditch blocks.	Grass Swales with Swale Blocks or Raised Culverts	Completed	Prior to 2015	0	1	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-28	Quenton Ave. and Range Dr.	Pave 0.3-ac dirt road; treatment with open swale and ditch blocks	Grass Swales with Swale Blocks or Raised Culverts	Completed	Prior to 2015	0	2	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-29	Ridge Terrace and Roan Rd.	Pave 1-ac dirt road; treatment with open swale and ditch blocks.	Grass Swales with Swale Blocks or Raised Culverts	Completed	Prior to 2015	1	9	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-30	New Hampshire	Pave 0.6-ac dirt road; treatment with open swale and ditch blocks.	Grass Swales with Swale Blocks or Raised Culverts	Completed	Prior to 2015	1	6	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-31	Sadler Rd.	Pave 1.1-ac dirt road; treatment with open swales and ditch blocks.	Grass Swales with Swale Blocks or Raised Culverts	Completed	Prior to 2015	2	9	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-32	Alternative Surface Program – Group IIIA Projects	Pave 98.93-ac dirt road; treatment with open swales and ditch blocks.	Grass Swales with Swale Blocks or Raised Culverts	Completed	Prior to 2015	140	780	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Orange County	Not provided	OC-33	Alternative Surface Program – Group IIB Projects	Pave 61.53-ac dirt roads; treatment with open swales and ditch blocks.	Grass Swales with Swale Blocks or Raised Culverts	Completed	Prior to 2015	87	485	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-34	Boxwood Dr. and Bull Run Rd.	Pave 0.9-ac dirt road; treatment with open swales and ditch blocks.	Grass Swales with Swale Blocks or Raised Culverts	Completed	Prior to 2015	1	7	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-35	Hereford Rd., Highland St., and Holly St.	Pave 1.5-ac dirt road; treatment with open swales and ditch blocks.	Grass Swales with Swale Blocks or Raised Culverts	Completed	Prior to 2015	2	12	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-36	Street Sweeping	Streets are swept every 6 wks; 481,128 lbs/yr of material removed.	Street Sweeping	Completed	N/A	29	121	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	N/A
Orange County	Not provided	OC-37	Lake Gandy Hydrologic and Nutrient Study	Study to evaluate hydrologic conditions and nutrient loadings to Lake Gandy.	Study	Completed	Prior to 2015	N/A	N/A	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	N/A
Orange County	Not provided	OC-39	Force Main/Gravity Replacement	Install 1,200 ft of 4-in force main; new force main expected to prevent wastewater leakage; All American Blvd. from Clarcona Ocoee to Kennedy; force main from Avalon Rd. to Hiwassee Rd. 7,600 LF 36-in force main; 760 LF 30-in force main; and 1,200 LF 12-in force main. Many parcels near 35-21-28-0000-00-150; install 4,500 LF of 12-in force main. New force main expected to prevent wastewater leakage. Clarcona Ocoee Rd. from Ingram to Clarke; install 11,000 LF of force main from Indian Hill Rd. to PS #3411. New force main will prevent wastewater leakage. North Pine Hills Rd. at Indian Hill Rd. and Clarcona	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Underway	TBD	N/A	N/A	Inside Springshed	N/A	\$10,494,000	Not provided	Not provided	Not provided	Not provided

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				Ocoee Rd.; relocate 710 LF 4-in force main 1,280 LF 16-in force main; and 710 LF 8-in gravity main. Many parcels near 30-21-29-0521-00-010.												
Orange County	Not provided	OC-40	Pump Station Removal/Relocation (R/R)	Replace multiple pump stations.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	Prior to 2015	N/A	N/A	Inside Springshed	N/A	\$13,263,500	Not provided	Not provided	Not provided	Not provided
Orange County (Utilities)	Not provided	OC-41	Force Main/ Gravity Sewer Rehabilitation	Combine cured in place pipe (CIPP) and point repairs to restore 10,000 LF of 8-in gravity sanitary sewer, including lining or coating 40 manholes. Near 20-22-29-4552-08-001; in addition to upsized storm pipes that go to Lake Robin, project includes replacing force main, gravity line, and manhole; replacement of force main will reduce leakage of sewage. Near 24-22-	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Underway	2016	TBD	TBD	Inside Springshed	N/A	\$1,780,000	Not provided	Not provided	Not provided	Not provided

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				28-7573-15-250; remove and relocate Pump Station #3045, plus remove existing force main and install 800 ft of gravity sewer., 29-21-29-4940-00-230.												
Orange County	Not provided	OC-42	Little Wekiva STA	Stormwater treatment train.	BMP Treatment Train	Planned	2021	TBD	TBD	Inside Springshed	Not provided	\$5,000,000	Not provided	County	Not provided	Not provided
Orange County	Not provided	OC-43	Lake Gandy BMP	Stormwater treatment train.	BMP Treatment Train	Canceled	N/A	N/A	N/A	Inside Springshed	150	\$1,000,000	Not provided	County	Not provided	Not provided
Orange County	Orange County Utilities (OCU)	OC-45	Northwest WRF Phase III Expansion	Project consists of design and construction of new physical, biological and chemical treatment facilities for raw sewage. WRF will be upgraded from 7.5 to 11.25 mgd and nitrogen will be reduced to less than 3 mg/L. Pretreatment structural improvements, additional biological nutrient removal basins, modification of clarifier equipment, addition of cloth filtration, additional chlorine contact facilities.	WWTF Nutrient Reduction	Completed	2012	TBD	45,000	Inside Springshed	N/A	\$31,000,000/ Capital Dollars	Not provided	OCU Capital Improvements Program Budget	Not provided	N/A
Orange County	Not provided	OC-46	Little Wekiva CIBs	Install 180 CIBs around Little Wekiva Basin.	Catch Basin Inserts	Completed	2017	11	18	Inside Springshed	N/A	\$196,899	22,000	County	Not provided	Not provided
Orange County	OCEPD	OC-47	Trimble Park Office Septic	Septic upgrade to passive nitrogen treatment.	Septic Enhancement	Completed	2018	TBD	1	Inside springshed	N/A	\$0	Not provided	Vendor	Not provided	Not provided

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Orange County	Facilities/Parks	OC-48	Magnolia Park Sanitary Connection	Conversion of park facilities from septic to sanitary.	Septic Phase Out	Underway	2018	TBD	86	Inside springshed	N/A	\$400,000	Not provided	DEP	\$250,000	Appropriation
Orange County	Facilities/Parks	OC-49	Camp Joy Sanitary Connection	Conversion of park facilities from septic to sanitary.	Septic Phase Out	Underway	2019	TBD	4	Inside springshed	N/A	Not provided	Not provided	County	Not provided	Not provided
Orange County	Orange County Library System (OCLS)	OC-50	North Orange Branch Sanitary Connection	Conversion of facilities from septic to sanitary.	Septic Phase Out	Underway	2018	TBD	22	Inside springshed	N/A	\$105,832	Not provided	OCLS	Not provided	Not provided
Orange County	OCEPD	OC-51	Lake Gandy BMP	Treatment train consisting of activated media beds, modular wetlands.	Other	Planned	2020	TBD	9	Inside springshed	N/A	\$1,000,000	Not provided	County	Not provided	Not provided
City of Orlando	Not provided	ORL-01	Compliance Inspections of Private Stormwater Systems	Inspect annually all 233 commercial, single-family, and multifamily systems in basin for functionality; systems include, but are not limited to, retention and detention ponds, underdrains, exfiltration, and underground vaults; by maintaining ponds at design criteria, city is ensuring optimal level of pollutant removal efficiency is being achieved.	Stormwater BMP Inspections	Completed	1989	N/A	N/A	Inside Springshed	N/A	Not provided	Not provided	City/ Streets and Stormwater Division	Not provided	Not provided
City of Orlando	Not provided	ORL-02	Stormwater System Inspections	Inspection and perform routine maintenance on 13 ponds and 31 ditches in basin to ensure systems are maintained at optimal pollutant removal efficiency (and flood prevention).	Stormwater BMP Inspections	Completed	1970	N/A	N/A	Inside Springshed	N/A	Not provided	Not provided	City/ Streets and Stormwater Division	Not provided	Not provided
City of Orlando	Not provided	ORL-03	Two Inlet Baskets Around Lake Daniel	Install (2006) 2 inlet baskets in Lake Daniel Basin; 1.89 cubic yds/yr of material collected.	Catch Basin Inserts	Completed	N/A	0	2	Inside Springshed	N/A	\$1,500	Not provided	City /Streets and Stormwater Division	Not provided	Not provided
City of Orlando	Not provided	ORL-04	22 Inlet Baskets Around Lake Orlando	Install (2008) 22 inlet baskets in Lake Orlando Basin; 47.29 cubic yds/yr of material collected.	Catch Basin Inserts	Completed	N/A	11	45	Inside Springshed	22	\$7,770	Not provided	City /Streets and Stormwater Division	Not provided	Not provided

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City of Orlando	Not provided	ORL-12	Street Sweeping	Streets are swept every 2 wks; 5,023.2 cubic yds/yr of material collected.	Street Sweeping	Completed	N/A	23	98	Inside Springshed	Not provided	Not provided	Not provided	City /Streets and Stormwater Division	Not provided	N/A
City of Orlando	Not provided	ORL-13a	Little Wekiva River – Preliminary Engineering Evaluation Lake Lawne, Center of Commerce, and Lake Orlando Sites	Nutrient reduction projects in Little Wekiva River Watershed, using suggested drainage improvements from CDM report.	Study	Completed	2008	N/A	N/A	Inside Springshed	N/A	\$49,900	N/A	City /Streets and Stormwater Division	Not provided	N/A
City of Orlando	Not provided	ORL-15	Fairview Shores – North Service Area	Improve sanitary sewer, drainage, and roadway; install new sanitary force main, lift station (#65), and gravity pipes in area with septic tanks to reduce nutrient seepage into groundwater table; install 2 Stormceptors™ to capture pollutants before they reach lake.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	2008	Not provided	Not provided	Inside Springshed	N/A	\$4,522,401	Not provided	City /Water Reclamation Division	Not provided	Not provided
City of Orlando	Not provided	ORL-20	Lift Station #85 Variable Frequency Drive	Install variable frequency drives that will extend life of pump motors, preventing potential overflows; will also be more energy efficient at future cost savings to city.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	Prior to 2015	Not provided	Not provided	Inside Springshed	N/A	N/A	Not provided	City of Orlando/Water Reclamation Division	Not provided	Not provided
City of Orlando	Not provided	ORL-21	Lift Station #93 Improvements	Relocate and completely rebuild lift station with new, upgraded equipment, including generator not present at previous location.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	2001	Not provided	Not provided	Inside Springshed	N/A	\$767,632	Not provided	City /Water Reclamation Division	Not provided	Not provided
City of Orlando	DEP	ORL-28	Water Conserv II Treatment Improvements	Updated WWTF infrastructure to achieve lower nutrient concentrations – Replaced aging blowers and diffusers; added internal recycle and big bubble mixing. rebuilt secondary	WWTF Nutrient Reduction	Completed	2016	69,436	Not provided	Inside Springshed	1,160	12,500,000	Not provided	DEP State Revolving Fund (SRF)	\$11,700,000	WW480400

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				clarifiers with spiral scrapers and clarifier inlet.												
City of Orlando	N/A	ORL-30	OSTDS Identification, Assessment and Alternatives Development Study	Identify and inventory OSTDS areas with in city service area and Wekiva Overlay District; Develop ranking criteria and cost estimates for retrofit of OSTDS; Prioritize areas for retrofit consideration.	Study	Underway	2018	N/A	N/A	Inside Springshed	N/A	112,000	N/A	City /Water Reclamation Division	\$112,000	N/A
Seminole County	Not provided	SC-01	Sweetwater Cove Dredging and Drainage Improvements and Sweetwater Tributary Erosion Project	Increase water quality treatment resonance time through water quality treatment pond expansion, construct online sedimentation basin; carry out erosion control measures along Sweetwater Creek; area served = 2,181 ac.	Stormwater BMP Retrofit/Expansion	Completed	2010	396	68	Inside Springshed	2,181	\$2,700,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-02	Grade Control Structures 6 and 7	Reduce sediment loads through bank stabilization and river grade control structures in Little Wekiva River; area served = >5,000 ac.	Shoreline Stabilization	Completed	2001	26	18	Inside Springshed	N/A	\$300,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-03	Horse Lovers Lane Erosion Control Project	Reduce sediment loads through bank stabilization along Spring Lake outfall, tributary to Little Wekiva River; use gabions and grade control structures plus replace culverts; area served = >1,000 ac.	Shoreline Stabilization	Completed	2004	17	12	Inside Springshed	N/A	\$700,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-04	North Western Erosion Control Project	Reduce sediment loads through bank stabilization along Little Wekiva River;	Shoreline Stabilization	Completed	2004	5	3	Inside Springshed	N/A	\$950,000	Not provided	Not provided	Not provided	Not provided

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				area served = >5,000 ac.												
Seminole County	Not provided	SC-05	Weathersfield Erosion Control Project	Reduce sediment loads through bank stabilization along Little Wekiva River; area served = >5,000 ac.	Shoreline Stabilization	Completed	2001	4	3	Inside Springshed	N/A	\$750,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-10	Mirror Lake	Exotics removal/ revegetation with native species. Accomplished using in-house staff, residents, and volunteers.	Exotic Vegetation Removal	Completed	2010	Not provided	Not provided	Inside Springshed	N/A	\$75,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-14	Bear Lake Rd. Reconstruction	Provide water quality treatment to existing roadway and subdivision through increased wet retention and use of existing dry retention pond; area served = 32 ac.	Stormwater BMPs	Completed	2008	14	32	Inside Springshed	Not provided	\$2,200,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-15	Bunell Rd. Widening	Provide treatment to untreated roadway through construction of new wet retention basin and exfiltration trench; designed to hold treatment volume plus 50 %; area served = 7.5 ac.	Stormwater BMPs	Completed	2010	5	9	Inside Springshed	Not provided	\$3,200,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-16	Eden Park Rd.	Provide treatment to untreated roadway through exfiltration, installation of CDS units, and new wet retention basin; area served = 10.6 ac.	Stormwater BMPs	Completed	2010	9	14	Inside Springshed	Not provided	\$3,500,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-19	Triangle Dr. Treatment Pond	Construct wet detention pond and provide ecological restoration on drainage parcel near Triangle Dr. prior to draining into Lake Brantley; area served = 372 ac.	Wet Detention Pond	Canceled	N/A	34	146	Inside Springshed	Not provided	\$800,000	Not provided	Not provided	Not provided	Not provided

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Seminole County	Not provided	SC-20	Wekiva Springs Rd. at Wekiva Springs State Park	Construct 2 interconnected sedimentation ponds to provide additional water quality treatment for 2 square mi of residential development; area served = 2 square mi.	Online Retention BMP	Completed	2005	25	50	Inside Springshed	2 square mi	\$220,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-21	Wekiva Springs Rd. Hunt Club to Fox Valley	Provide water quality treatment to existing roadway through swales; area served = 7 ac.	Grass Swales with Swale Blocks or Raised Culverts	Completed	2008	8	9	Inside Springshed	Not provided	\$1,800,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-22	West Wekiva Tr. Treatment Pond	Construct wet detention pond and provide ecological restoration on drainage parcel north of West Wekiva Tr. prior to discharge into Wekiva River; area served = 220 ac.	Wet Detention Pond	Underway	TBD	17	74	Inside Springshed	Not provided	\$900,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-24	Wekiva Springs Rd. – SR 434 to Sabal Point	Provide water quality treatment for new impervious portions of roadway improvements through construction of online exfiltration trench; area served = 3.4 ac.	Exfiltration Trench	Completed	2008	2	3	Inside Springshed	Not provided	\$6,900,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-25	Street Sweeping	Street sweeping in Big Wekiva and Little Wekiva Basins.	Street Sweeping	Completed	N/A	3	14	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	N/A
Seminole County	Not provided	SC-26	Bear Lake Chain-of-Lakes Hydrology/ Nutrient Budget and Water Quality Management Plan	Detailed nutrient and hydrologic study, identifying and quantifying all nutrient sources, including internal loading, groundwater, surface water, precipitation, etc.; management plan includes potential structural and nonstructural improvements that can be made to protect and enhance water quality.	Study	Completed	Prior to 2015	N/A	N/A	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	N/A

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Seminole County	Not provided	SC-27	Spring Lake/Spring Lake Watershed Hydrology/Nutrient Budget and Water Quality Management Plan	Detailed nutrient and hydrologic study, identifying and quantifying all nutrient sources, including internal loading, groundwater, surface water, precipitation, etc.; management plan includes potential structural and nonstructural improvements that can be made to protect and enhance water quality.	Study	Underway	TBD	N/A	N/A	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	N/A
Seminole County	Not provided	SC-28	Wekiva Basin Stormwater Pond Enhancement Feasibility Study for Nitrogen Transport	Preliminary analysis of nitrogen transport into and out of retention pond/groundwater, and follow-up analysis of improvements made to groundwater discharge after addition of Bold and Gold™ amendment to pond bottom.	Study	Underway	TBD	N/A	N/A	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	N/A
Seminole County	Not provided	SC-29	Seminole County Water Quality Master Plan	Countywide assessment of all water quality data, monitoring programs, regional ponds, CIP projects, etc., to improve efficiency and effectiveness of existing programs and identify additional structural/nonstructural improvement projects.	Study	Underway	TBD	N/A	N/A	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	N/A
Seminole County	Not provided	SC-31	Bridgewater Dr.	Manhole sealing.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	Prior to 2015	N/A	N/A	Inside Springshed	N/A	\$16,179	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-33	Lift Station Rehabilitation	Seal wet well and rehabilitate lines at lift stations (Wilson School, Breckenridge, Stockbridge, Lake Forest #5, Buckingham, Retreat at Wekiva, Aster	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	Prior to 2015	N/A	N/A	Inside Springshed	N/A	\$324,353	Not provided	Not provided	Not provided	Not provided

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				Farms, Bel-Aire #3, Bel-Aire #1, Heathrow Master).												
Seminole County	Not provided	SC-35	Bear Lake Drainage Improvements (Hamilton Pond)	Regional stormwater facility (RSF) for Bear Lake, Little Bear Lake.	Regional Stormwater Treatment	Underway	2018	Not provided	Not provided	Inside Springshed	23	\$1,150,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-37	Alton Dr. Stormwater Pond	Modify existing stormwater pond to increase treatment efficiency and reroute untreated stormwater into existing pond.	Wet Detention Pond	Underway	2019	Not provided	Not provided	Inside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	Not provided
Seminole County	Not provided	SC-39	Lake Asher Restoration	Mechanical removal of vegetative material and associated organic matter. Shoreline planting with natives.	Aquatic Vegetation Harvesting	Completed	2017	Not provided	Not provided	Inside Springshed	N/A	\$285,000	Not provided	Florida Legislature	Not provided	Not provided
Seminole County	Not provided	SC-43	Sweetwater Cove Shoreline Restoration	Planted native aquatic vegetation along individual homeowner shorelines.	Creating/Enhancing Living Shoreline	Completed	2017	Not provided	Not provided	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-44	Lake Brantley Shoreline Restoration	Planted native aquatic vegetation along individual homeowner shorelines.	Creating/Enhancing Living Shoreline	Completed	2017	Not provided	Not provided	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-45	Mirror Lake Shoreline Restoration	Planted native aquatic vegetation along individual homeowner shorelines.	Creating/Enhancing Living Shoreline	Completed	2017	Not provided	Not provided	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-46	Bear Lake Shoreline Restoration	Planted native aquatic vegetation along individual homeowner shorelines.	Creating/Enhancing Living Shoreline	Planned	TBD	Not provided	Not provided	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-47	Sweetwater Cove Lyngbya Harvesting	Harvesting of lyngbya.	Macroalgal Harvesting	Completed	2017	Not provided	Not provided	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-48	Nutrient Filter Pilot Project	Not provided.	TBD	Planned	TBD	Not provided	Not provided	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	N/A
Seminole County	Not provided	SC-52	Lynwood Gravity Main and Manhole Repairs	Seal and coat 5 manholes; CIPP lining of 1,445 LF of 8-in gravity main.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	2017	Not provided	Not provided	Inside Springshed	Not provided	\$57,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-53	Foxwood Pump Station Rehabilitation	Rehabilitation including 2 new Flygt, new pump base plates and elbow; new 4-in stainless steel discharge piping.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	2017	Not provided	Not provided	Inside Springshed	Not provided	\$48,000	Not provided	Not provided	Not provided	Not provided

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Seminole County	Altamonte/Casselberry/Lake Mary/Longwood/Oviedo	SC-54	Seminole County Fertilizer Ordinance	Reduction of nitrogen and phosphorus sources, through public education and restrictions on usage.	Regulations, Ordinances, and Guidelines	Completed	N/A	1,736	Not provided	Inside Springshed	14,267	150,000	65,000	Ad Valorem Taxes and FFL Cost-Share	\$28,000 Annual City Cost-Share Total/ \$37,000 County Portion	NF034
Seminole County	Altamonte/Casselberry/Lake Mary/Longwood/Oviedo	SC-54a	Seminole County Ordinance and Education Credits	Additional credits from Seminole County ordinance outside of standard 6 %. Ordinance is more restrictive than state model as follows: 15-foot setback from waterbodies; no nitrogen fertilizer during rainy season (June 1 to Sept. 30); at least 50 % slow-release nitrogen (SRN) outside rainy season, increasing to 65 % SRN after 3 yrs. Seminole County is working on quantifying reductions attributed to ordinance through multipronged assessment of Wekiva Subbasin, including educational outreach, behavioral surveys, and nutrient studies. Estimated nitrogen reductions are based on leaching calculations.	Regulations, Ordinances, and Guidelines	Planned	TBD	TBD	Not provided	Inside Springshed	14,267	150,000	65,000	Ad Valorem Taxes and FFL Cost-Share	\$28,000 Annual City Cost-Share Total/\$37,000 County Portion	NF034
Seminole County	Not provided	SC-55	Spring Lake Baffle Box	Retrofit existing inlet as pollutant removal structure.	Baffle Boxes – 2nd Generation	Planned	TBD	Not provided	21	Inside Springshed	55	200,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-56	Spring Lake Outfall Canal Excavation	Excavate and recontour outfall canal to remove existing accumulations of organic muck and vegetation debris.	Muck Removal/Restoration Dredging	Planned	TBD	Not provided	Not provided	Inside Springshed	Not provided	580,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-57	Spring Lake Hills Outfall Weir Rehabilitation	Rehabilitate weir in Spring Lake Hills wetland to maximize retention time.	Control Structure	Underway	2018	Not provided	108	Inside Springshed	Not provided	15,000	Not provided	Not provided	Not provided	Not provided

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Seminole County	Not provided	SC-58	Hibiscus Lane Stormwater Pump Station	Small pumping station at Sunset Rd. and Balmy Beach Dr. to pump discharges through drainage system into existing treatment pond.	Other	Planned	TBD	Not provided	Not provided	Inside Springshed	Not provided	400,000	Not provided	Not provided	Not provided	Not provided
Sanlando Utilities Corp.	Not provided	SUC-02	Wekiva WWTF Rehabilitation	Improved treatment process that results in increased reliability and consistency in producing reuse quality effluent.	Reclaimed Water	Underway	2018	Not provided	Not provided	Inside Springshed	N/A	\$1,837,324	Not provided	Sanlando Utilities	N/A	N/A
Sanlando Utilities Corp.	Not provided	SUC-03	Wekiva Filter Media Replacement	Improved treatment process that results in increased reliability and consistency in producing reuse quality effluent.	Reclaimed Water	Completed	2016	Not provided	Not provided	Inside Springshed	N/A	\$85,747	Not provided	Sanlando Utilities	N/A	N/A
Sanlando Utilities Corp.	Not provided	SUC-04	Shadow Hills WWTF Diversion	Shadow Hills WWTF is in secondary zone of Wekiva Protection Area, uses perolation ponds for disposal. Project will divert all plant flow to Wekiva Hunt Club, treated to reuse standards, and thus reduce nutrient load on surficial aquifer.	Reclaimed Water	Underway	2018	Not provided	Not provided	Inside Springshed	N/A	\$7,781,739	Not provided	Sanlando Utilities	N/A	N/A
Turnpike Enterprise	Not provided	TP-01	Widen Turnpike, Beulah to SR 50	Roadway; 3 in treated in dry retention; recovered in 72 hrs.	Online Retention BMP	Completed	2016	62	53	Inside Springshed	223	\$82,632,000	\$41,855	Not provided	Not provided	Not provided
Turnpike Enterprise	Not provided	TP-02	Widen Turnpike, Gotha to Beulah	Roadway; 1.25 in treated in dry retention, recovered in 72 hrs	Online Retention BMP	Completed	2016	158	151	Inside Springshed	279	\$55,248,000	\$37,628	Not provided	Not provided	Not provided
Turnpike Enterprise	N/A	TP-04	Education Efforts	No fertilizer on rights-of-way; educational signage; illicit discharge training	Fertilizer Cessation	Completed	N/A	Not provided	Not provided	Inside Springshed	N/A	N/A	N/A	N/A	N/A	N/A
Turnpike Enterprise	N/A	TP-05	Street Sweeping	Street sweeping mile post (MP) (265-274) 600 lane mi/yr.	Street Sweeping	Completed	N/A	TBD	70	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	N/A
City of Winter Garden	Not provided	WG-01	Tucker Ranch	City purchased 208 ac of agricultural land to convert to primitive campground/park.	Land Use Change	Completed	2016	302	Not provided	Inside Springshed	208	\$2,100,000	N/A	N/A	N/A	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
City of Winter Garden	Not provided	WG-02	Dillard Street Pond Expansion	Project is part of permitting process for new city hall in Winter Garden; modify storm sewer system adjacent to pond to treat previously untreated runoff.	Stormwater BMP Retrofit/Expansion	Completed	2009	41	Not provided	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
City of Winter Garden	Not provided	WG-03	Plant St. Segment 1	Project involves widening Plant St., including blowing out intersection of West Crown Point Rd. in Winter Garden; no stormwater treatment for this section of road prior to widening.	Stormwater BMP Retrofit/Expansion	Completed	2016	38	Not provided	Inside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
City of Winter Garden	Not provided	WG-04	Street Sweeping	Streets are swept weekly; total swept = 12,266 mi/yr. Catch basins vacuumed quarterly. Total material collected was 1,772,000 lbs split between sweeping and BMP clean outs.	Street Sweeping	Completed	N/A	202	838	Inside Springshed	14,868	Not provided	Not provided	Not provided	Not provided	N/A
City of Winter Garden	Not provided	WG-05	SR 50 Utility Relocation	Replace city utilities because of widening of SR 50; project includes replacement of 5,210 LF of 24-in clay pipe and 2,650 LF of 18-in clay pipe.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	2012	Not provided	Not provided	Inside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
City of Winter Garden	SJRWMD/ DEP	WG-06	Stormwater Capture and Reuse and Recharge	Berming of 2 direct-discharge canals to Lake Apopka and treat stormwater to reuse standards to be put into distribution system.	Stormwater Reuse	Completed	2018	TBD	2,794	Inside Springshed	980.0	\$3,360,000	Not provided	City/ DEP/ SJRWMD	DEP – \$750,000 SJRWMD – \$750,000 City – \$1,860,000	28432
Wekiwa State Park	Not provided	WSP-01	Pine Plantation	Previous land use = agriculture; Management focus = groundwater recharge, natural community restoration and preservation; ac = 344.73.	Land Use Change	Completed	Prior to 2015	Not provided	Not provided	Inside Springshed	345	Not provided	N/A	N/A	Inside Springshed	N/A
Wekiwa State Park	Not provided	WSP-02	Remove Wekiva State Park from Septic	Four-phase plan.	Septic Phase Out	Underway	TBD	Not provided	Not provided	Inside Springshed	N/A	\$1,616,775	Not provided	Not provided	Not provided	Not provided

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
Wastewater Utilities	TBD	WU-01	WWTF Policy Reductions	Achieved by WWTF policy if implemented BMAP-wide, achieving 3 or 6 mg/L.	WWTF Policy Reductions	Planned	TBD	54,754	N/A	Inside Springshed	N/A	TBD	TBD	TBD	TBD	N/A
Orange County	Not provided	OC-44	Kathleen Dr.	Erosion control.	Erosion Control	Underway	2018	TBD	TBD	Not provided	1,000	\$514,000	Not provided	County	Not provided	Not provided
City of Altamonte Springs	N/A	AS-06	Cracker Barrel Development	Redevelop commercial site and expand existing exfiltration system, raising level of treatment to current city standards.	Exfiltration Trench	Completed	2002	1	0	Outside Springshed	2	N/A	N/A	Private Development – unknown	N/A	N/A
City of Altamonte Springs	N/A	AS-07	Fairfield Marriot Suites Development	Construct 92-room Fairfield Suites Hotel to replace commercial development constructed prior to stormwater development rules, raising level of water quality treatment onsite to meet city standards.	Stormwater BMP	Completed	2000	4	1	Outside Springshed	3	N/A	N/A	Private Development – unknown	N/A	N/A
City of Altamonte Springs	N/A	AS-08	Florida Hospital Development	Proposed development is for construction of 6,000 square-ft worship center, associated paved parking, and upgrades to existing stormwater management system to replace existing parking lot.	Stormwater BMP	Completed	2005	12	1	Outside Springshed	31	N/A	N/A	Private Development – unknown	N/A	N/A
City of Altamonte Springs	N/A	AS-10	Maitland Ave. Walgreens Development	Redevelop 1.46-ac commercial site and expand existing exfiltration system, raising level of treatment to current city standards.	Exfiltration Trench	Completed	2002	6	1	Outside Springshed	1	N/A	N/A	Private Development – unknown	N/A	N/A
City of Altamonte Springs	N/A	AS-11	Panera Bread (SR 434) Development	Demolish and remove existing impervious area for construction of new 4,479-square-ft restaurant; replace existing commercial building and residential areas; raise level of treatment to meet city standards.	Stormwater BMP	Completed	2007	1	0	Outside Springshed	1	N/A	N/A	Private Development – unknown	N/A	N/A

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City of Altamonte Springs	N/A	AS-12	River Run South Pond 23 Improvement Project	Enlarge existing retention pond.	Online Retention BMP	Completed	2004	2	1	Outside Springshed	4	\$100,000	\$1,000	Stormwater Utility Fund	100,000	N/A
City of Altamonte Springs	N/A	AS-15a	Street Sweeping	Street sweeping occurs daily; total swept = 5,000 mi/yr – Split between springshed and surface.	Street Sweeping	Completed	N/A	3,413	4,440	Outside Springshed	245	\$480,000 (\$240,000/sweeper)	\$100,000	Stormwater Utility Fund	\$480,000 (\$240,000/sweeper)	N/A
City of Altamonte Springs	N/A	AS-18	Wekiva GeoPark Restoration Project	Conservation project – Restore 20 ac of wetlands in Wekiva Basin GeoPark; includes removal of logging roads.	Wetland Restoration	Completed	2000	N/A	N/A	Outside Springshed	N/A	\$387,500	N/A	Stormwater Utility Fund/Capital Projects	387,500	N/A
City of Altamonte Springs	N/A	AS-19	Adventist Health System Headquarters Development	Remove 5 septic systems within 200 meters of receiving waterbody by connecting them to city sanitary system.	Septic Phase Out	Completed	2011	72	13	Outside Springshed	N/A	N/A	N/A	Private Development – unknown	N/A	N/A
City of Altamonte Springs	N/A	AS-20	Spring St., Central St., Marker St., and Campello St. Septic System Removal	Remove 7 septic systems within 200 meters of receiving waterbody by connecting them to city sanitary system.	Septic Phase Out	Completed	2011	101	18	Outside Springshed	N/A	N/A	N/A	Private Development – unknown	N/A	N/A
City of Altamonte Springs	N/A	AS-21	640 Jasmine Ave. Septic System Removal	Remove 1 septic system within 200 meters of receiving waterbody by connecting it to city sanitary system.	Septic Phase Out	Completed	2011	15	3	Outside Springshed	N/A	N/A	N/A	Private Development – unknown	N/A	N/A
City of Altamonte Springs	N/A	AS-22	Storage and Retrieval of Reclaimed Water in Cranes Roost RSF	DEP-permitted storage and retrieval of reclaimed water in Cranes Roost in 2002.	Reclaimed Water	Completed	2002	3,827	1,481	Outside Springshed	N/A	\$152,284	N/A	N/A	N/A	N/A
City of Altamonte Springs	N/A	AS-24	Central Parkway Force Main Replacement from Lift Station 54 to Montgomery Rd.	Replace 1,230 LF of failing 8-in force main.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	2007	5	4	Outside Springshed	N/A	\$245,133	N/A	Public Works Capital Project Fund	245,133	N/A
City of Eustis	Not provided	E-01	Cardinal Pond	Retention for area along Bates Ave. between Glover St. and Wall St.	Online Retention BMP	Completed	2015	Not provided	Not provided	Outside Springshed	Not provided	\$300,000	Not provided	Not provided	Not provided	Not provided

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City of Eustis	Not provided	E-02	Downtown Master Stormwater Project	Wet detention for downtown area; 32.4-ac drainage basin; project will provide pollutant reduction of 64.5 % TN and 40 % TP; small eastern portion of new lines falls in springshed.	Wet Detention Pond	Completed	2015	Not provided	Not provided	Outside Springshed	Not provided	\$4,000,000	Not provided	Not provided	Not provided	Not provided
City of Eustis	SJRWMD	E-03	Eastern WWTP Expansion	Eastern WWTP is currently being upgraded to 1.3 mgd to serve new developments in area.	WWTF Upgrade	Underway	TBD	Not provided	Not provided	Outside Springshed	767.0	\$7,500,000	Not provided	City and SJRWMD Funded	Not provided	Not provided
City of Eustis	Not provided	E-04	Stormwater Design Rules	Eustis code sec. 115-5. Eustis stormwater rules for new development are more stringent than state or SJRWMD rules.	Regulations, Ordinances, and Guidelines	Completed	N/A	Not provided	Not provided	Outside Springshed	N/A	N/A	N/A	N/A	N/A	N/A
FDOT District 5	N/A	FDOT-01	FM: 238406 (1 treatment project)	SR 44: Swales and ditch blocks providing treatment for runoff generated from existing and proposed pavement.	Grass Swales with Swale Blocks or Raised Culverts	Completed	2002	15	2	Outside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-03	FM: 239496-2 (2 Treatment Projects)	SR 423: Add lanes from Shader Rd. to SR 424 (Edgewater Dr.). Wet Detention Pond 100 and Pond 200 providing treatment for JYP.	Wet Detention Pond	Completed	2016	156	17	Outside Springshed	20	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-03b	FM: 239496-2 (2 Treatment Projects)	SR 423: Add lanes from Shader Rd. to SR 424 (Edgewater Dr.). Wet Detention Pond Pond 200 providing treatment for JYP.	Wet Detention Pond	Completed	2016	N/A	N/A	Outside Springshed	20	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-04	FM: 240231-2 (7 Treatment Projects) Dry Detention Pond IN-1/ Pond IN-2	Add lanes to SR 434: from SR 414, Lotus Landing Blvd., then to SR 436: Dry Detention Pond 1N-1, 1N-2 2N, P, Wet Detention WTC Ponds 1 and 2; Exfiltration System 4N-1 and 5N providing treatment for runoff generated from	Stormwater BMP Retrofit/Expansion	Completed	2008	60	7	Outside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A

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				existing and proposed pavement.												
FDOT District 5	N/A	FDOT-04b	FM: 240231-2 (Seven Treatment Projects) Wet Detention Pond 2N	Add lanes to SR 434: from SR 414, Lotus Landing Blvd., then to SR 436: Dry Detention Pond 1N-1, 1N-2 2N, P, Wet Detention WTC Ponds 1 and 2; Exfiltration System 4N-1 and 5N providing treatment for runoff generated from existing and proposed pavement.	Stormwater BMP Retrofit/Expansion	Completed	2008	N/A	N/A	Outside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-04c	FM: 240231-2 (Seven Treatment Projects) Exfiltration System	Add lanes to SR 434: from SR 414, Lotus Landing Blvd., then to SR 436: Dry Detention Pond 1N-1, 1N-2 2N, P, Wet Detention WTC Ponds 1 and 2; Exfiltration System 4N-1 and 5N providing treatment for runoff generated from existing and proposed pavement.	Stormwater BMP Retrofit/Expansion	Completed	2008	N/A	N/A	Outside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-04d	FM: 240231-2 (Seven Treatment Projects) WTC Pond 1/ WTC Pond 2	Add lanes to SR 434: from SR 414, Lotus Landing Blvd., then to SR 436: Dry Detention Pond 1N-1, 1N-2 2N, P, Wet Detention WTC Ponds 1 and 2; Exfiltration System 4N-1 and 5N providing treatment for runoff generated from existing and proposed pavement.	Stormwater BMP Retrofit/Expansion	Completed	2008	N/A	N/A	Outside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-05	FM: 238314-1 (Dry Retention Pond 2)	SR 500: Dry Retention Ponds 2, 4, 6; Wet	Online Retention BMP	Completed	2008	218	20	Outside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	TN Reduction (lbs/yr)	TP Reduction (lbs/yr)	Location	Acres Treated	Cost Estimate	Cost Annual O&M	Funding Source	Funding Amount	DEP Contract Agreement Number
				Detention Ponds 3E, 5 A/B; Ponds 3B, 3C, 3D; French drain providing treatment for runoff generated from existing and proposed pavement.												
FDOT District 5	N/A	FDOT-05b	FM: 238314-1 (Wet Detention Pond 3E)	SR 500: Dry Retention Ponds 2, 4, 6; Wet Detention Ponds 3E, 5 A/B; Ponds 3B, 3C, 3D; French drain providing treatment for runoff generated from existing and proposed pavement.	Online Retention BMP	Completed	2008	N/A	N/A	Outside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-05c	FM: 238314-1 (Dry Retention Pond 4)	SR 500: Dry Retention Ponds 2, 4, 6; Wet Detention Ponds 3E, 5 A/B; Ponds 3B, 3C, 3D; French drain providing treatment for runoff generated from existing and proposed pavement.	Online Retention BMP	Completed	2008	N/A	N/A	Outside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-05d	FM: 238314-1 (Wet Detention Pond 5a/5b)	SR 500: Dry Retention Ponds 2, 4, 6; Wet Detention Ponds 3E, 5 A/B; Ponds 3B, 3C, 3D; French drain providing treatment for runoff generated from existing and proposed pavement.	Online Retention BMP	Completed	2008	N/A	N/A	Outside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-05e	FM: 238314-1 (Dry Retention Pond 6)	SR 500: Dry Retention Ponds 2, 4, 6; Wet Detention Ponds 3E, 5 A/B; Ponds 3B, 3C, 3D; French drain providing treatment for runoff generated from existing and proposed pavement.	Online Retention BMP	Completed	2008	N/A	N/A	Outside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-05f	FM: 238314-1 (Frenth Drain System)	SR 500: Dry Retention Ponds 2, 4, 6; Wet Detention Ponds 3E, 5 A/B; Ponds 3B, 3C, 3D; French drain providing treatment for runoff generated from	Online Retention BMP	Completed	2008	N/A	N/A	Outside Springshed	Not provided	Not provided	Not provided	Florida Legislature	Not provided	N/A

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				existing and proposed pavement.												
FDOT District 5	N/A	FDOT-06	FM: 239535-2	SR 50: Add lanes from east ramps of Turnpike to Avalon Rd.; Wet Detention Ponds A and B providing treatment for runoff from existing and proposed pavement.	Wet Detention Pond	Completed	2016	391	42	Outside Springshed	62.9	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	N/A	FDOT-06b	FM: 239535-2	SR 50: Add lanes from east ramps of Turnpike to Avalon Rd.; Wet Detention Ponds A and B providing treatment for runoff from existing and proposed pavement.	Wet Detention Pond	Completed	2016	N/A	N/A	Outside Springshed	62.9	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	Not provided	FDOT-08	Street Sweeping	Street sweeping occurs monthly; total swept = 2,247 mi/yr.	Street Sweeping	Completed	N/A	28	18	Outside Springshed	N/A	Not provided	Not provided	Florida Legislature	Not provided	N/A
FDOT District 5	Not provided	FDOT-09	Fertilizer Cessation	Reduction of bulk fertilizer use on state roadways in basin.	Fertilizer Cessation	Completed	N/A	1,098	0	Outside Springshed	N/A	N/A	N/A	N/A	N/A	N/A
Lake County	Not provided	LC-01	Northeast Lake County Scrub Preserve	60 ac of mature sand pine scrub community with wetlands in southeast; adjacent to Seminole State Forest; protection of land; no change in land use; thus no load reduction.	Land Acquisition	Completed	2008	N/A	N/A	Outside Springshed	60	\$950,000	N/A	Not provided	Not provided	N/A
Lake County	Not provided	LC-02	Lake May Reserve	136 ac of remnant citrus, xeric oak hammock and 20- ac Lake May.	Land Acquisition	Completed	2008	N/A	N/A	Outside Springshed	136	\$6,200,000	N/A	Not provided	Not provided	N/A
Lake County	Not provided	LC-03	Mt. Plymouth Lakes	Property consists of 184 ac of lake bottom and associated uplands in plat of Mt. Plymouth.	Land Acquisition	Completed	2007	N/A	N/A	Outside Springshed	184	Not provided	N/A	Not provided	Not provided	N/A

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Lake County	Not provided	LC-04	Neighborhood Lakes	Part of multiagency acquisition (DEP, SJRWMD, OOCEA, and Lake and Orange Counties) totaling 1,584 ac; Lake County partnered with SJRWMD to purchase 210 ac.	Land Acquisition	Completed	2007	N/A	N/A	Outside Springshed	1,584	\$5,000,000	N/A	Not provided	Not provided	N/A
Lake County	Not provided	LC-05	South Pine Lakes Reserve	Reserve consists of 2 adjoining properties totaling 128 ac, consisting of scrub, scrubby flatwoods, herbaceous marsh; bear habitat, possible sandhill crane nesting.	Land Acquisition	Completed	2008	N/A	N/A	Outside Springshed	128	\$985,250	N/A	Not provided	Not provided	N/A
Lake County	Lake Sumter State College; Umatilla Chamber of Commerce, Lake County Schools	LC-06	North Lake County Community Environmental Stewardship Program	Project goals are to provide teacher workshops and educational outreach to Grades K-12, provide exposure to various environmental careers to middle/high school students, increase number of volunteer water quality sample sites, and create community project showcase site using native shoreline vegetation; project partners include City of Umatilla, Umatilla Chamber of Commerce, Lake-Sumter Community College, Florida Lake Management Society, North Lake Newspaper, Altoona Charter School, Umatilla Elementary School, Umatilla High School, and private citizens.	Public Education Efforts	Completed	N/A	N/A	N/A	Outside Springshed	N/A	\$30,868	Not provided	Not provided	Not provided	Not provided

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Lake County	Lake County Water Authority (LCWA) – \$200,000 construction reimbursement grant	LC-07	Wolfbranch Drainage Retrofit	Project includes removing concrete flumes in right-of-way and piping area to 2 new dry retention ponds; what cannot be treated in ponds will be captured in CDS unit in right-of-way, and compensating treatment for this area will be treated in Pond B.	Stormwater BMPs	Completed	2016	66	9	Outside Springshed	13.5	\$1,530,000	\$2,200	Lake County/LCWA	Lake County – \$1,300,000 LCWA – \$200,000	Not provided
Lake County	Not provided	LC-08	Dirt Roadway Paving	Nutrient load reductions for 25 mi of road segments that were paved and improved with ditch blocks.	Grass Swales with Swale Blocks or Raised Culverts	Completed	2011	223	122	Outside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
Lake County	Not provided	LC-09	Royal Trails Drainage and Water Quality Improvements	Flood analysis, pollutant loading model, and conceptual project priorities are completed.	Study	Completed	2010	N/A	N/A	Outside Springshed	N/A	\$394,101	Not provided	Not provided	Not provided	N/A
Lake County	Lake County	LC-10	Firethorn Dirt Rd. Paving and Drainage	Paving of dirt road and construction of roadside swales for drainage and treatment.	Grass Swales with Swale Blocks or Raised Culverts	Completed	2016	10	2	Outside Springshed	3.0	\$238,000	Not provided	Lake County Special Assesment for road paving	Not provided	Not provided
Lake County	DEP Nonpoint Source Program	LC-11	Erosion Control Inspector Training	Lake County staff has become certified to instruct on DEP Sedimentation and Erosion Control Inspector's certification program. County hosts annual class and exam free to local contractors and municipal employees.	Erosion Control	Underway	TBD	N/A	N/A	Outside Springshed	N/A	Not provided	Not provided	Lake County	Not provided	Not provided
Lake County	N/A	LC-12	Pipe and Catch Basin Cleaning	Removal of sediments and nutrients from roadside catch basins and stormwater pipes.	BMP Clean Out	Completed	2017	82	50	Outside Springshed	N/A	\$6,500	Not provided	Lake County	Not provided	N/A
City of Maitland	Not provided	M-01	Street Sweeping	Streets are swept twice a month; roadway length swept = 23.86 mi/ 2 wks; total swept = 572.64 mi/yr.	Street Sweeping	Completed	N/A	4	15	Outside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	N/A

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City of Mt. Dora	Not provided	MD-01	5 th and McDonald Parking Lot	Install 3 36-in diameter exfiltration pipes under new parking lot.	Exfiltration Trench	Completed	Prior to 2015	Not provided	Not provided	Outside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
City of Mt. Dora	Not provided	MD-02	Hwy. 441 and Hwy. 46 StormTech Installation	Install StormTech system – 100 LF inline arrangement with "isolator rows" at each end for maintenance.	Exfiltration Trench	Completed	Prior to 2015	Not provided	Not provided	Outside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
City of Mt. Dora	Not provided	MD-03	St. Johns St. StormTech Installation	Install StormTech system: 2 50-LF rows with "isolator rows" for maintenance; regraded and paved road to improve drainage.	Exfiltration Trench	Completed	Prior to 2015	Not provided	Not provided	Outside Springshed	Not provided	\$18,000	Not provided	Not provided	Not provided	Not provided
City of Mt. Dora	Not provided	MD-04	5th Ave. and Rossiter NSBB Installation	Install Suntree NSBB at 5th Ave. and Rossiter discharge into Lake Franklin, which is isolated spring-fed lake.	Baffle Boxes – 2nd Generation	Completed	Prior to 2015	64	26	Outside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
City of Mt. Dora	Not provided	MD-05	1552 Hilltop Dr. Pipe Relining	Reline existing corrugated metal pipe (CMP) with high-density polyethylene (HDPE) to eliminate sinkhole formation and erosion into Lake Nettie.	Erosion Control	Completed	Prior to 2015	Not provided	Not provided	Outside Springshed	N/A	\$13,000	Not provided	Not provided	Not provided	Not provided
City of Mt. Dora	Not provided	MD-06	5th Ave. and McDonald St. Retention Pond Restoration	Remove accumulated sediment and debris from retention pond; install new inlet pipe to prevent erosion; replace erosion protection around inlet pipes.	BMP Clean Out	Completed	Prior to 2015	Not provided	Not provided	Outside Springshed	N/A	\$3,000	Not provided	Not provided	Not provided	N/A
City of Mt. Dora	Not provided	MD-07	Donnelly St. and Lincoln Ave. Pipe Repair	Headwall broke away from pipe; water undermining Donnelly St.; installed drop structure and extend pipeline 140 LF.	Stormwater System Rehabilitation	Completed	Prior to 2015	Not provided	Not provided	Outside Springshed	N/A	\$35,000	Not provided	Not provided	Not provided	Not provided
City of Mt. Dora	Not provided	MD-08	Pine and Jackson Pipe Repair	Replace crushed section of 36x54 CMP to allow proper drainage of northeast area of city.	Stormwater System Rehabilitation	Completed	Prior to 2015	Not provided	Not provided	Outside Springshed	N/A	\$3,000	Not provided	Not provided	Not provided	Not provided

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City of Mt. Dora	Not provided	MD-09	Street Sweeping	Streets are swept 15 times/yr; length of streets swept = 69 mi; total swept = 1,035 mi/yr.	Street Sweeping	Completed	N/A	1,304	2,033	Outside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	N/A
City of Mt. Dora	Not provided	MD-10	Lake John Rehabilitation	Lake John is part of greater Lake Gertrude Basin project; wetland was excavated to remove excess sediment and exotic vegetation; stepwise drainage reestablished between 3 ponds, and new vegetation planted.	Wetland Restoration	Completed	Prior to 2015	Not provided	Not provided	Outside Springshed	N/A	\$1,200,000	Not provided	Not provided	Not provided	Not provided
City of Mt. Dora	Not provided	MD-11	CBDG	Extend 8-in sewer main and install 4 laterals to connect 4 duplexes to city sewer on 11th Ave.; abandon existing septic systems.	Septic Phase Out	Completed	Prior to 2015	Not provided	Not provided	Outside Springshed	N/A	\$63,000	Not provided	Not provided	Not provided	Not provided
City of Mt. Dora	Not provided	MD-12	Lift Station #10 Piping Replacement (Pine Ave.)	Replace 602 ft of 8-in pipe and 2 manholes.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	Prior to 2015	Not provided	Not provided	Outside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
City of Mt. Dora	Not provided	MD-13	Pipe Lining 2007, 2008, 2009, and 2010	2007 – Line 7,094 ft of 8-in sewer main on Clayton and Liberty Sts. 2008 – Line 8,040 ft of 8- and 10-in sewer main (Grandview, Alexander, Tremain, Baker, Lake Dora Rd, Pine Ave., and Donnelly St.). 2009 – Line 3,746 ft of 8-in pipe on Old Eustis Rd. and Donnelly St. 2010 – Line 1,500 ft of 21-in pipe along Lake John.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	Prior to 2015	Not provided	Not provided	Outside Springshed	N/A	\$705,907	Not provided	Not provided	Not provided	Not provided
City of Mt. Dora	Not provided	MD-14	Lift Stations #1, 2, 3, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 20, 22, 25, 27, 28, 30, 31, and 34 Piping	Clean and inspect pipe.	Sanitary Sewer Inspections	Completed	Prior to 2015	N/A	N/A	Outside Springshed	N/A	\$21,000	Not provided	Not provided	Not provided	Not provided

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City of Mt. Dora	LCWA/ DEP TMDL	MD-15	7th Ave. Stormwater	Install concrete storm pipe as follows: 753 ft of 36 in, 466 ft of 30 in, 1,431 ft of 24 in, 425 ft of 18 in and stormwater treatment system.	STAs	Completed	2015	125	20	Outside Springshed	34	\$1,500,000	Not provided	DEP/ LCWA/ City	\$1,470,651	S0649
Orange County	Not provided	OC-17	Riverside Pond	Expand size of 0.8-ac existing treatment pond to 1.6 ac and add aeration to address DO impairment.	Stormwater BMP Retrofit/Expansion	Completed	Prior to 2015	4,533	Not provided	Outside Springshed	Not provided	\$766,918	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-18	Bay Lake Stormwater Improvement Project	Provide treatment for 2 drainage basins totaling 91.7 ac (Modular Wetlands with Bold and Gold™ media).	Advanced Engineered Wetland	Completed	Prior to 2015	14	1	Outside Springshed	Not provided	\$260,000	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-19	Lake Lawne Stormwater	Online wet detention with irrigation system for reuse on adjacent sports fields.	Stormwater Reuse	Underway	2018	721	229	Outside Springshed	650	\$2,500,000	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-20	Lake Weston CIBs	Install (2016) 49 curb/grate inlet baskets on storm drains and apply storm drain markers.	Catch Basin Inserts	Completed	2016	20	5	Outside Springshed	500	\$160,000	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-21	North Lake Lawne Stormwater Treatment Project (C-7)	Install 120 curb/grate inlet baskets on storm drains and apply storm drain markers.	Catch Basin Inserts	Completed	2016	46	13	Outside Springshed	Not provided	\$196,899	Not provided	Not provided	Not provided	Not provided
Orange County	Not provided	OC-36a	Street Sweeping	Streets are swept every 6 wks; 481,128 lbs/yr of material removed.	Street Sweeping	Completed	Prior to 2015	21	13	Outside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	N/A
Orange County	Not provided	OC-38	Lake Lawne Hydrologic and Nutrient Study	Study to evaluate hydrologic conditions and nutrient loadings to Lake Lawne.	Study	Completed	Prior to 2015	N/A	N/A	Outside Springshed	N/A	\$120,000	Not provided	Not provided	Not provided	N/A
City of Orlando	Not provided	ORL-01a	Compliance Inspections of Private Stormwater Systems	Inspect annually all 233 commercial, single, and multifamily systems in basin for functionality; systems include, but are not limited to, retention and detention ponds, underdrains, exfiltration, and underground vaults; by maintaining ponds at	Stormwater BMP Inspections	Completed	1989	N/A	N/A	Outside Springshed	N/A	Not provided	Not provided	City/ Streets and Stormwater Division	Not provided	Not provided

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				design criteria, city is ensuring optimal level of pollutant removal efficiency is being achieved.												
City of Orlando	Not provided	ORL-02a	Stormwater System Inspections	Conduct proactive inspections and perform routine maintenance on 13 ponds and 31 ditches in basin to ensure systems are being maintained at optimal pollutant removal efficiency (and flood prevention).	Stormwater BMP Inspections	Completed	1970	N/A	N/A	Outside Springshed	N/A	Not provided	Not provided	City/ Streets and Stormwater Division	Not provided	Not provided
City of Orlando	Not provided	ORL-03a	Two Inlet Baskets Around Lake Daniel	Install (2006) 2 inlet baskets in Lake Daniel Basin; 1.89 cubic yds/yr of material collected.	Catch Basin Inserts	Completed	N/A	0	3	Outside Springshed	N/A	\$1,500	Not provided	City/ Streets and Stormwater Division	Not provided	Not provided
City of Orlando	Not provided	ORL-05	Three Baffle Boxes on Ardsley	Capture gross pollutants and reduce levels of nitrogen entering basin by removing leaves and clippings before they enter Lake Silver; 13.25 cubic yds/yr of material collected.	Baffle Boxes – 1st Generation	Completed	2006	27	11	Outside Springshed	26	\$7,800	Not provided	City/ Streets and Stormwater Division	Not provided	Not provided
City of Orlando	Not provided	ORL-06	Four Inlet Baskets Around Lake Sarah	Install (2006) 3 inlet baskets in Lake Sarah Basin; 10.89 cubic yds/yr of material collected.	Catch Basin Inserts	Completed	N/A	17	10	Outside Springshed	4	\$2,250	Not provided	City/ Streets and Stormwater Division	Not provided	Not provided
City of Orlando	Not provided	ORL-07	Four Inlet Baskets Around Lake Silver	Install (2004) 4 inlet baskets in Lake Silver Basin; 6.5 cubic yds/yr of material collected.	Catch Basin Inserts	Completed	N/A	10	6	Outside Springshed	15	\$3,000	Not provided	City/ Streets and Stormwater Division	Not provided	Not provided
City of Orlando	Not provided	ORL-08	Lake Silver Treatment Structure (Westmoreland Dr. CDS Unit)	Install CDS unit to capture gross pollutants before they enter Lake Silver.	CDS Unit	Completed	2000	Not provided	19	Outside Springshed	Not provided	\$565,702	Not provided	City/ Streets and Stormwater Division	Not provided	Not provided

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City of Orlando	DEP/ SJRWMD/ FDOT/ Diocese of Orlando	ORL-09	Little Lake Fairview Restoration and Dubsdread Golf Course Renovation Project	Expand 5 wet detention ponds and create 10 additional wet detention ponds in golf course; construct 15 ponds in series of 3 interconnected systems; all systems eventually discharge to adjacent wetland, except during high flows, when runoff discharges to drainwell or ditch routed to Little Lake Fairview; restores hydroperiod of wetland and improves wetland functions; also raises drainwell elevation to allow for more treatment before discharge.	Wet Detention Pond	Completed	2008	265	Not provided	Outside Springshed	422	\$9,000,000	Not provided	City/ Streets and Stormwater Division	Not provided	TBD
City of Orlando	Not provided	ORL-10	Palomar Exfiltration	Install 20-ft pipe to capture debris in separate chamber before stormwater percolates into ground.	Exfiltration Trench	Completed	2006	6	3	Outside Springshed	Not provided	\$30,000	Not provided	City/ Streets and Stormwater Division	Not provided	Not provided
City of Orlando	Not provided	ORL-11	Sandbar Removal on Lake Sarah	Remove 300 cubic yds of sediment from Lake Sarah.	Muck Removal/ Restoration Dredging	Completed	2006	Not provided	Not provided	Outside Springshed	N/A	\$20,000	Not provided	City/ Streets and Stormwater Division	Not provided	Not provided
City of Orlando	Not provided	ORL-12a	Street Sweeping	Streets are swept every 2 wks; 5,023.2 cubic yds/yr of material collected.	Street Sweeping	Completed	N/A	6,312	4,048	Outside Springshed	Not provided	Not provided	Not provided	City/ Streets and Stormwater Division	Not provided	N/A
City of Orlando	Not provided	ORL-13	Little Wekiva River – Preliminary Engineering Evaluation Lake Lawne, Center of Commerce, and Lake Orlando Sites	Nutrient reduction projects in Little Wekiva River Watershed, using suggested drainage improvements from CDM report.	Study	Completed	2008	N/A	N/A	Outside Springshed	N/A	\$49,900	N/A	City of Orlando/ Streets and Stormwater Division	Not provided	N/A
City of Orlando	Not provided	ORL-14	Arthur Ave. Sewer Line	Install 1,200 ft of gravity lines in area with septic tanks to reduce nutrient seepage into groundwater table.	Wastewater Service Area Expansion	Completed	1998	Not provided	Not provided	Outside Springshed	N/A	\$53,977	Not provided	City of Orlando/ Water Reclamation Division	Not provided	Not provided

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City of Orlando	Not provided	ORL-16	Lynx Facility	Install sanitary sewer in area with septic tanks to reduce nutrient seepage into groundwater table.	Wastewater Service Area Expansion	Completed	2007	Not provided	Not provided	Outside Springshed	N/A	Not provided	Not provided	City/ Water Reclamation Division	Not provided	Not provided
City of Orlando	Not provided	ORL-17	Rio Grande Sanitary Sewer	Install gravity lines in area with septic tanks to reduce nutrient seepage into groundwater table.	Wastewater Service Area Expansion	Completed	2000	Not provided	Not provided	Outside Springshed	N/A	\$1,622,124	Not provided	City/ Water Reclamation Division	Not provided	Not provided
City of Orlando	Not provided	ORL-18	West Lake Fairview Sanitary Sewer	Install sanitary sewer in area with septic tanks to reduce nutrient seepage into groundwater table.	Wastewater Service Area Expansion	Planned	Prior to 2015	Not provided	Not provided	Outside Springshed	N/A	N/A	Not provided	City/ Water Reclamation Division	Not provided	Not provided
City of Orlando	Not provided	ORL-19	Lift Station #37 Improvements	Lift station is one of oldest in city; wet well is made of brick and starting to fail; replace lift station with precast concrete with liner and bigger capacity; install new pumping station and associated components, along with standby generator; also replace gravity pipes in area.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	2009	Not provided	Not provided	Outside Springshed	N/A	\$1,400,000	Not provided	City/ Water Reclamation Division	Not provided	Not provided
City of Orlando	Not provided	ORL-22	West Lake Silver Phase I and II	Line sewers to prevent untreated sewage from escaping through cracks and joints; project will reduce nutrient seepage into groundwater table.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	Prior to 2015	Not provided	Not provided	Outside Springshed	N/A	N/A	Not provided	City/ Water Reclamation Division	Not provided	Not provided
City of Orlando	Not provided	ORL-23	Mercy Dr. Sewer Rehabilitation	Install lift station in new commercial area.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	2002	Not provided	Not provided	Outside Springshed	N/A	\$878,400	Not provided	City/ Water Reclamation Division	Not provided	Not provided
City of Orlando	Not provided	ORL-24	Regent Ave. Force Main 2613	Replace force main on Mercy Dr. from south of Princeton to Lift Station #45; connect or replace new sanitary pipe to existing pipes.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	2010	Not provided	Not provided	Outside Springshed	N/A	\$2,000,000	Not provided	City/ Water Reclamation Division	Not provided	Not provided

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City of Orlando	Not provided	ORL-25	Sanitary System Inspections	Conduct proactive inspections and perform routine maintenance on lift stations and sanitary lines; identify problem areas and increase maintenance frequency or perform repairs to prevent overflows from occurring; also assist with Sunshine State One-Call of Florida ("Call Before You Dig"/Line Locater).	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	N/A	Not provided	Not provided	Outside Springshed	N/A	Not provided	Not provided	City/ Water Reclamation Division	Not provided	Not provided
City of Orlando	N/A	ORL-26	Lift Station #45 Improvements	Replace lift station.	WWTF Upgrade	Planned	2020	Not provided	Not provided	Outside Springshed	N/A	6,000,000	Not provided	City/ Water Reclamation Division	6,000,000	N/A
City of Orlando	N/A	ORL-27	Mercy Dr. Sewer Cleaning	Maintenance of sanitary line will prevent SSOs from occurring in basin that negatively impact water quality in lake.	WWTF and Sanitary Sewer Maintenance	Underway	2018	Not provided	Not provided	Outside Springshed	N/A	300,000	Not provided	City/ Water Reclamation Division	300,000	N/A
City of Orlando	N/A	ORL-29	Lift Station 8, 30, 47, and 77 Replacements	Lift station replacement (only #47 and #77 in Wekiva Basin).	WWTF Upgrade	Planned	2019	Not provided	Not provided	Outside Springshed	N/A	1,500,000	Not provided	City/ Water Reclamation Division	1,500,000	N/A
City of Orlando	Orange County Public Schools	ORL-31	Lake Silver Shores	Partner with Edgewater High School (EHS) to design and create joint wet pond on EHS property.	Baffle Boxes – 2nd-Generation with Media	Planned	2020	24.3	3	Outside Springshed	20	800,000	Not provided	City Stormwater Utility	800,000	N/A
City of Orlando	N/A	ORL-32	Ardsley Baffle Box Retrofits	Upgrade 3 existing 1st-generation baffle boxes to 2nd-generation baffle boxes with media`	Baffle Boxes – 2nd-Generation with Media	Planned	2019	191.2	28	Outside Springshed	42	450,000	Not provided	City Stormwater Utility	450,000	N/A
Seminole County	Not provided	SC-06	Little Wekiva Grade Control – Montgomery Rd. to SR 434	Reduce sediment loads through bank stabilization and construction of 2 river grade control structures in Little Wekiva River; area served = >5,000 ac.	Shoreline Stabilization	Completed	2011	298	31	Outside Springshed	N/A	\$850,000	Not provided	Not provided	Not provided	Not provided

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Seminole County	Not provided	SC-07	Wekiva Park Dr. Erosion Control Project	Reduce sediment loads through grade control structures; area served = 400 ac.	Shoreline Stabilization	Completed	2010	37	4	Outside Springshed	N/A	\$350,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-08	Lake Mobile	Exotics removal/ revegetation with native species. Accomplished using in-house staff, residents, and volunteers.	Exotic Vegetation Removal	Completed	2009	Not provided	Not provided	Outside Springshed	N/A	\$25,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-09	LWR @ Springs Landing Bridge	Exotics removal/ revegetation with native species. Accomplished using in-house staff, residents, and volunteers.	Exotic Vegetation Removal	Completed	2010	Not provided	Not provided	Outside Springshed	N/A	\$10,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-11	Spring Lake	Exotics removal/ revegetation with native species. Accomplished using in-house staff, residents, and volunteers.	Exotic Vegetation Removal	Completed	2009	Not provided	Not provided	Outside Springshed	N/A	\$75,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-12	Black Bear Wilderness Area	Previous land use = natural land; management focus = preservation, passive recreation; ac = 1,650.	Land Acquisition	Underway	2015	N/A	N/A	Outside Springshed	1,650	Not provided	N/A	Not provided	Not provided	N/A
Seminole County	Not provided	SC-13	Yankee Lake Scrub Jay Preservation Area	Previous land use = natural land; management focus = preservation, passive recreation; ac = 300.	Land Acquisition	Completed	Prior to 2015	N/A	N/A	Outside Springshed	300	Not provided	N/A	Not provided	Not provided	N/A
Seminole County	Not provided	SC-17	Markham Woods Rd. Widening from SR 434 to Springs Landing Blvd.	Provide water quality treatment for additional traffic lane through construction of new exfiltration trench; area served = 12.4 ac.	Exfiltration Trench	Completed	2003	32	4	Outside Springshed	Not provided	\$1,400,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-18	Markham Woods Rd. Widening from Lane Springs Landing Blvd. to EE Williamson Rd.	Provide water quality treatment to existing roadway through exfiltration trench; area served = 9.2 ac.	Exfiltration Trench	Completed	2006	46	8	Outside Springshed	Not provided	\$2,300,000	Not provided	Not provided	Not provided	Not provided

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Seminole County	Not provided	SC-23	Palm Springs Rd. Paving and Drainage	Pave dirt road and install 2nd-generation baffle box to provide water quality treatment; area served = 0.4 ac.	Baffle Boxes – 2nd-Generation	Completed	2003	1	0	Outside Springshed	Not provided	\$255,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-25a	Street Sweeping	Street sweeping in Big Wekiva and Little Wekiva Basins.	Street Sweeping	Completed	N/A	410	264	Outside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	N/A
Seminole County	Not provided	SC-27a	Spring Lake/Spring Lake Watershed Hydrology/Nutrient Budget and Water Quality Management Plan	Detailed nutrient and hydrologic study, identifying and quantifying all nutrient sources, including internal loading, groundwater, surface water, precipitation, etc.; management plan includes potential structural and nonstructural improvements that can be made to protect and enhance water quality.	Study	Underway	TBD	N/A	N/A	Outside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	N/A
Seminole County	Not provided	SC-29a	Seminole County Water Quality Master Plan	Countywide assessment of all water quality data, monitoring programs, regional ponds, CIP projects, etc., to improve efficiency and effectiveness of existing programs and identify additional structural/nonstructural improvement projects.	Study	Underway	TBD	N/A	N/A	Outside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	N/A
Seminole County	Not provided	SC-30	Apple Valley Lift Station	Relocate and build brand new lift station.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	Prior to 2015	N/A	N/A	Outside Springshed	N/A	\$351,975	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-32	Gravity Main Testing and Repairs	Lateral repair – 1512 Cherry Rdg., 2067 North Umbria, 169 Killarney Ct., Shadowmoss. Gravity main repair – 844 Preserve Terr., International Dr. and CR 46A, Lake Rena	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	Prior to 2015	N/A	N/A	Outside Springshed	N/A	\$401,878	Not provided	Not provided	Not provided	Not provided

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				Dr. Smoke test and seal laterals – Alaqua Lakes, Heathrow Woods # 1 and 2 lift stations, Lake Forest 1 and 2, Lake Forest 1 and 2. Additional work – Lake Forest 3 and 4, Aster Farms.												
Seminole County	Not provided	SC-33	Lift Station Rehabilitation	Seal wet well and rehabilitate lines at lift stations (Wilson School, Breckenridge, Stockbridge, Lake Forest #5, Buckingham, Retreat at Wekiva, Aster Farms, Bel-Aire #3, Bel-Aire #1, Heathrow Master).	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	Prior to 2015	N/A	N/A	Outside Springshed	N/A	\$324,353	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-34	Douglas Ave Pond	Pond retrofit with soil amendment aimed at reducing nitrate loading to groundwater	Stormwater BMP Retrofit/Expansion	Underway	TBD	Not provided	Not provided	Outside Springshed	Not provided	\$105,000	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-36	Spring Lake Hills Outfall Weir Rehabilitation	Construction retrofit project, replace existing failing weir	Control Structure	Completed	2016	Not provided	Not provided	Outside Springshed	537	\$4,500	Not provided	Not provided	Not provided	Not provided
Seminole County	Spring Lake Municipal Service Benefit Unit (MSBU)	SC-38	Spring Lake Alum Treatment	In-lake alum treatment.	Alum Injection	Underway	TBD	Not provided	Not provided	Outside Springshed	85	\$120,000	Not provided	Spring Lake MSBU	Not provided	Not provided
Seminole County	Not provided	SC-40	Spring Lake Shoreline Restoration	Planted native aquatic vegetation along individual homeowner shorelines.	Creating/Enhancing Living Shoreline	Completed	2017	Not provided	Not provided	Outside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-41	Spring Wood Lake Shoreline Restoration	Planted native aquatic vegetation along individual homeowner shorelines.	Creating/Enhancing Living Shoreline	Completed	2017	Not provided	Not provided	Outside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-42	Lake Destiny Canal Shoreline Restoration	Planted native aquatic vegetation along individual homeowner shorelines.	Creating/Enhancing Living Shoreline	Completed	2017	Not provided	Not provided	Outside Springshed	N/A	Not provided	Not provided	Not provided	Not provided	Not provided
Seminole County	Not provided	SC-49	Wilson's Landing Stormwater Bioretention Area	Convey runoff into bioretention area prior to discharge into Wekiva River.	Bioretention	Planned	2019	Not provided	Not provided	Outside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided

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Seminole County	Not provided	SC-51	Apple Valley Subdivision Gravity Main Rehabilitation	Seal and coat 10 manholes; CIPP lining of 2,700 LF of 8-in gravity main.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	2017	Not provided	Not provided	Outside Springshed	Not provided	\$108,000	Not provided	Not provided	Not provided	Not provided
Sanlando Utilities Corp.	Not provided	SUC-01	Sweetwater I&I Investigation and Collection System Repairs	Camera-inspect sanitary collection system in Sweetbrier Subdivision and correct noted deficiencies.	Sanitary Sewer Collection System Rehabilitation, Maintenance, or Replacement	Completed	Prior to 2015	N/A	N/A	Outside Springshed	N/A	\$1,553,000	Not provided	Sanlando Utilities	N/A	N/A
Turnpike Enterprise	N/A	TP-03	Minneola Interchange	Five dry retention ponds and 3 treatment swales.	Online Retention BMP	Completed	N/A	Not provided	Not provided	Outside Springshed	Not provided	\$27,866,200	Not provided	Not provided	Not provided	Not provided
Turnpike Enterprise	N/A	TP-04	Education Efforts	No fertilizer on rights-of-way, educational signage, illicit discharge training.	Fertilizer Cessation	Completed	N/A	Not provided	Not provided	Outside Springshed	N/A	N/A	N/A	N/A	N/A	N/A
Turnpike Enterprise	N/A	TP-05a	Street Sweeping	Street sweeping MP (265-274) 600 lane mi/yr.	Street Sweeping	Completed	N/A	144	70	Outside Springshed	Not provided	Not provided	Not provided	Not provided	Not provided	N/A