

**Appendix D: Fecal Indicator Bacteria (FIB) BMAPs**

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## Introduction

DEP is dedicated to identifying and reducing human health risks associated with bacteria. DEP's approaches to bacteria assessment and restoration of waterbodies impaired by bacteria are changing. Along with a recently revised standard (see the description in the box to the right), DEP is coupling FIB analytes with source-specific analytes for impairment determinations. It is important to note that swimming beaches enrolled in the FDOH Healthy Beaches Program are monitored by FDOH and assessed differently than other recreational waters. Healthy Beaches meet the state criterion if they are under advisories by FDOH for 20 days or less each calendar year (January 1 through December 31) of the 7.5-year verified period. The restoration goal for each FIB BMAP is to meet the state's bacteria standards.

In 2017, DEP piloted an intensive source identification monitoring strategy in six impaired waterbodies across the state. The strategy was designed to identify hot spots and areas in watersheds suspected to contain sources of untreated human waste. The suite of human waste indicators used comprised chemical tracers (sucralose and acetaminophen), a human biological marker, a dye called propidium monoazide, and the applicable FIB (*E. coli* or Enterococci).

The study demonstrated that entities can use this strategy to narrow down the size of the contributing watershed suspected of containing sources that are actively contributing FIB to impaired waters. Further investigative techniques such as dye traces, smoke tests, and camera deployment can be used to identify the exact location of some sources. However, some source locations may be more difficult to identify. As anthropogenic sources are identified, they are eliminated through existing remediation policies and processes. Lessons learned from this pilot study are guiding collaborative source investigation and monitoring efforts in FIB BMAPs beginning in 2018. This resource-intensive work can be used to guide future decisions about common sources types and aims to prevent future fecal waste loading.

The tables in **Appendix D** list the implementation status of the BMAP projects through the end of each individual BMAP's last annual reporting period. Project reporting is being revised in bacteria BMAPs so that projects tracked will be better focused on the identification, elimination, and prevention of fecal bacteria sources. The reporting periods for FIB BMAPs in the next statewide annual report will all end December 31, 2018.

These projects were submitted to provide reasonable assurance to DEP that each entity has a plan to identify and reduce bacterial sources to the BMAP waterbodies. However, the list of projects

In December 2015, DEP adopted the U.S. Environmental Protection Agency (EPA) criteria for *E. coli* bacteria (Class I and III fresh water) and Enterococci bacteria (Class III marine waters) to replace the previous Class III criteria for fecal coliform bacteria.

**Ten percent threshold criteria  
per the state standard for  
Class III recreational use waters**

**Previously**

400 colony-forming units per 100 milliliters  
(cfu/100mL) fecal coliform

**Currently**

Freshwater WBIDs  
410 cfu/100mL *E. coli*

Marine WBIDs  
130 cfu/100mL enterococci

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. For BMAPs in **Appendix D**, DEP works in collaboration with Northwest Florida Water Management District (NFWWMD), St. Johns River Water Management District (SJRWMD), and Southwest Florida Water Management District (SWFWMD).

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

- **Canceled:** Project or activity planned but will no longer take place. This includes the cessation of ongoing activities.
- **Completed:** Project, activity, or task is finished. This includes fully implemented activities (i.e., ongoing activities) that must continue indefinitely to maintain 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 is conceptual or proposed.
- **Underway:** Project or activity has commenced or been 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 not provided by the lead entity.
- **TBD:** To be determined. Information is not currently available but will be provided by the stakeholder when 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, F.S.

## **Alafia River BMAP**

### ***Background***

The Alafia River Basin covers an area of more than 410 square miles in Hillsborough and Polk Counties. The river originates in west-central Polk County and flows westward to Hillsborough Bay. It is bounded to the north by the Hillsborough River Basin, to the east by the Peace River Basin, and to the south by the Little Manatee River Basin. Major tributaries include the North Prong, South Prong, Little Alafia River, and Turkey Creek. The river is tidally influenced to Bell Shoals Rd., 11 river miles upstream from the mouth. During the dry season, much of the freshwater inflow to the tidal reach is contributed by groundwater inflows, notably from Lithia Springs and Buckhorn Springs, which are located southeast of Bloomingdale river miles upstream from the mouth.

The watershed contains few natural lakes, but numerous man-made lakes (such as Medard Reservoir) have been created because of phosphate-mining and other earth-moving activities. Mining, agriculture, and urban development are predominant land uses, with suburban, commercial, and industrial uses common in the northern and western portions. Agriculture and (increasingly) suburban uses are common in the southern portion, and mining-related uses dominate the eastern portion.

In portions of the Alafia River Basin, FIB and nutrients were identified as the primary pollutants causing impairment. In 2004, DEP adopted a TMDL for Thirty Mile Creek (WBID 1639). It later adopted TMDLs for Mustang Ranch Creek (WBID 1592C), Turkey Creek (WBID 1578B), English Creek (WBID 1552), and Poley Creek (WBID 1583) in 2009, as well as Alafia River Above Hillsborough Bay Tidal Segment (WBID 1621G) in 2011. **Figure D-1** shows the locations of these BMAP watersheds.

The BMAP was adopted in 2014 and includes the implementation of FIB source identification efforts such as Walk the Watershed, also known as Walk the WBID (WTW), and requires production agricultural operations in BMAP WBIDs to participate in the FDACS BMP Program or elect to perform water quality monitoring of their operations. This BMAP addresses four fecal coliform TMDLs (WBIDs 1578B, 1592C, 1552, and 1583) and three DO and nutrient TMDLs (WBIDs 1621G, 1592C, and 1639).

### ***Status of Projects***

From April 2014 through March 2015, 17 projects were reported as completed. Of these completed projects, 13 were implemented prior to BMAP adoption and 8 are ongoing, maintenance activities.

***Frequency of Exceedance***

**Table D-1** shows the frequency of exceedance of the ten percent threshold fecal coliform criterion from the Cycle 3 assessment verified period January 1, 2007, to June 30, 2014 (before BMAP adoption in 2014) and January 1, 2009, to June 30, 2016.

**Table D-1. Exceedance frequency for the Alafia River BMAP WBIDs**

<b>WBID</b>	<b>Waterbody Name</b>	<b>January 1, 2007, to June 30, 2014 % Exceedance</b>	<b>January 1, 2009, to June 30, 2016 % Exceedance</b>
<b>1578B</b>	Turkey Creek	51	52
<b>1592C</b>	Mustang Ranch Creek	75	52
<b>1552</b>	English Creek	42	44
<b>1583</b>	Poley Creek	66	64

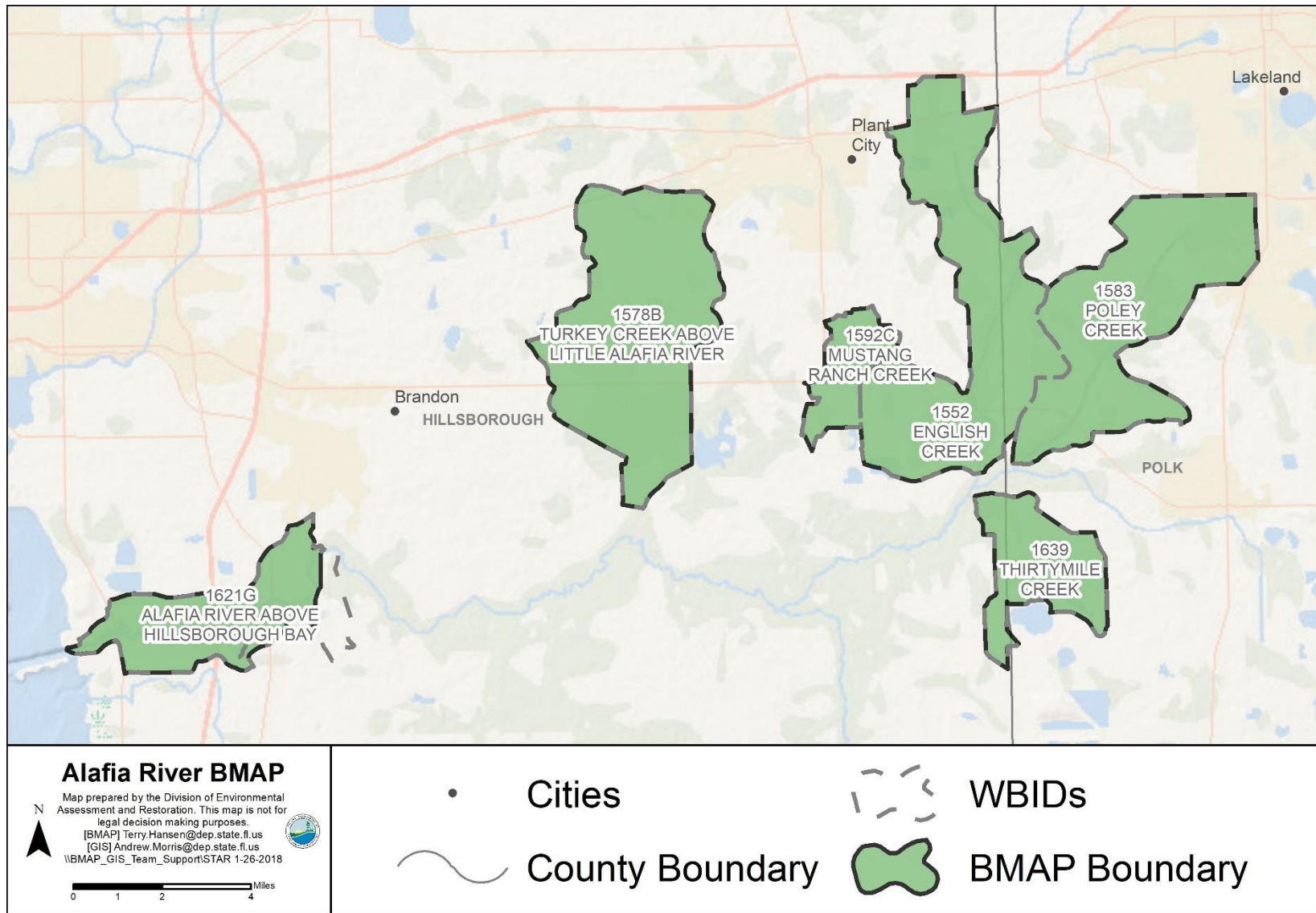


Figure D-1. Alafia River BMAP WBIDs

**Table D-2. Alafia River BMAP projects**

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
DEP	N/A	TBEP-0411	Alafia River Task Force (ARTF)	In May 1992, DEP convened ARTF to make recommendations for point and nonpoint source nutrient and pollutant load reductions.	Stormwater	Completed	Prior to 2014	Alafia River Basin	Not provided	N/A	Not provided
Environmental Protection Commission of Hillsborough County (EPCHC)	FDOT	EPCHC-0001	Monitoring for Pollutant Loading Estimate Project	Collection of additional water quality information.	Stormwater	Completed	Prior to 2014	Alafia River Basin	Not provided	N/A	Not provided
FDOT	N/A	FDOT-0001	Road BMPs	I-75 (10075), US Hwy. 301 (10010), and US Hwy. 41 (10060) street sweeping (typically monthly cycle) for curb and gutter sections.	Stormwater	Completed	Prior to 2014	Alafia River Basin	N/A	Not provided	Not provided
FDOT	N/A	FDOT-0002	US Hwy. 301 Underdrain Pond Reconstruction	Reconstruction of underdrain pond on US Hwy. 301 that discharges to Alafia River.	Stormwater	Completed	2013	Alafia River Basin	Not provided	Not provided	Not provided
FDOT	N/A	FDOT-0003	Road BMPs	SR 60 and SR 39 street sweeping for curb section.	Stormwater	Completed	Prior to 2014	Alafia River Basin	N/A	Not provided	Not provided
FDOT	N/A	TBEP-1317	Street Sweeping in Alafia River Basin	Street sweeping in Alafia River Basin.	Stormwater	Completed	2017	Alafia River Basin	N/A	Not provided	Not provided
Hillsborough County	N/A	HC-0001	Walk the Waterbody	Walk the Waterbody exercise for Turkey Creek to identify potential issues in watershed.	Source Identification Activities	Completed	2012	Alafia River Basin	Not provided	N/A	Not provided
Hillsborough County	N/A	HC-0002	Fertilizer Ordinance	Ongoing and future source reduction.	Stormwater	Completed	2013	Alafia River Basin	Not provided	Not provided	Not provided
Mosaic	N/A	TBEP-0843	Mosaic Riverview, Modifications to Outfall Automation and Monitoring	Installation of complex automated system at facility's main stormwater outfall (005), including redundant pH meters interlocked to shut down discharge in event of excursions or elevated nutrient loads.	Stormwater	Completed	2003	Alafia River Basin	Not provided	Not provided	Not provided
Mosaic	N/A	TBEP-0844	Mosaic Riverview, Enhanced Housekeeping and Street Sweeping	Water quality improvement through better operations management.	Stormwater	Completed	2005	Alafia River Basin	Not provided	Not provided	Not provided
Mosaic	N/A	TBEP-0845	Mosaic Riverview, Improved Drainage in Phosphoric Acid Production Areas	Water quality improvement through better operations management.	Industrial Wastewater	Completed	2005	Alafia River Basin	Not provided	Not provided	Not provided
Pasco County	N/A	TBEP-1068	Hillsborough County Pet Waste Campaign	Hillsborough County Pet Waste Campaign.	Stormwater	Completed	2009	Alafia River Basin	Not provided	Not provided	Not provided
Polk County	N/A	PC-0001	Walk the Waterbody	Walk the Waterbody exercise for Poley Creek to identify potential issues in watershed.	Source Identification Activities	Completed	2012	Alafia River Basin	Not provided	N/A	Not provided
Polk County	N/A	PC-0002	Fertilizer Ordinance	Public awareness, nutrient reduction from surface water runoff.	Stormwater	Completed	2013	Alafia River Basin	Not provided	Not provided	Not provided

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Polk County	N/A	TBEP-1302	Illicit Discharge Complaint Investigation	Illicit discharge complaint investigation.	Stormwater	Completed	2017	Alafia River Basin	Not provided	Not provided	Not provided
Tampa Bay Water	N/A	TBEP-0867	Source Water Protection – Land Use and Development Review Program	Source Water Protection – Land Use and Development Review Program.	Stormwater	Completed	2017	Alafia River Basin	Not provided	Not provided	Not provided
Tampa Bay Water	N/A	TBEP-0868	Alafia River Water Quality Protection Plan (WQPP)	Alafia River WQPP.	Stormwater	Completed	2017	Alafia River Basin	Not provided	Not provided	Not provided



## Bayou Chico BMAP

### *Background*

The Bayou Chico Watershed, which discharges to Pensacola Bay, is located in southern Escambia County, east of Blue Angel Parkway and north of Bayou Grande. Bayou Chico has a 10-square-mile drainage area and a water surface area of 0.4 square miles.

DEP identified the Bayou Chico Watershed as impaired for fecal coliform bacteria. In February 2008, DEP adopted the Bayou Chico Watershed TMDL, which called for a 61 % reduction in fecal coliform bacteria. The Bayou Chico BMAP was adopted in August 2011 and addresses Bayou Chico, Jones Creek, Jackson Creek, Bayou Chico Drain (also known as Maggie's Ditch), Bayou Chico Beach, and Sanders Beach, **Figure D-3**.

### *Status of Projects*

From August 2011 through October 2016, 76 projects were reported as completed. Of these 76 completed projects, 42 were implemented prior to BMAP adoption and 22 are ongoing, maintenance activities.

### *Frequency of Exceedance*

DEP adopted the EPA criteria for *E. coli* bacteria (Class I and III fresh water) in waters and Enterococci bacteria (Class III marine water) to replace the existing criteria for fecal coliform bacteria. **Table D-3** shows the frequency of exceedance of the ten percent threshold for the old fecal coliform criterion from the Cycle 2 assessment verified period (January 1, 2003, to June 30, 2010) (before BMAP adoption in 2011) for fecal coliform. **Table D-3** also shows the frequency of exceedance of the new ten percent threshold criteria for Jackson Creek, Bayou Chico, and Bayou Chico Drain. Based on the January 1, 2009, to July 1, 2016 data, these three waterbodies exceed the ten percent threshold criteria for either *E. coli* or Enterococci. After a 2017 evaluation of the salinity data from the original Jones Creek water quality station at the mouth of the river, DEP and Escambia County determined the station is more representative of Bayou Chico, a marine waterbody, than Jones Creek, a fresh waterbody. New, more representative water quality stations are being monitored to provide assessment data for Jones Creek.

**Table D-4** lists the number of beach advisories per year from January 1, 2010, through June 30, 2017. Based on these data, Bayou Chico Beach exceeded the number of advisory days allowed (20 days of advisories from January 1 to December 31) each year, and Sanders Beach exceeded the number of advisory days allowed in 3 of the last 7.5 years. **Figure D-2** shows a significant decrease in the number of advisory days since 2010 at Bayou Chico Beach. Since 2006, the number of advisory days at Sanders Beach is often near or under the 20-day annual maximum.

**Table D-3. Exceedance frequency for the Class III BMAP WBIDs**

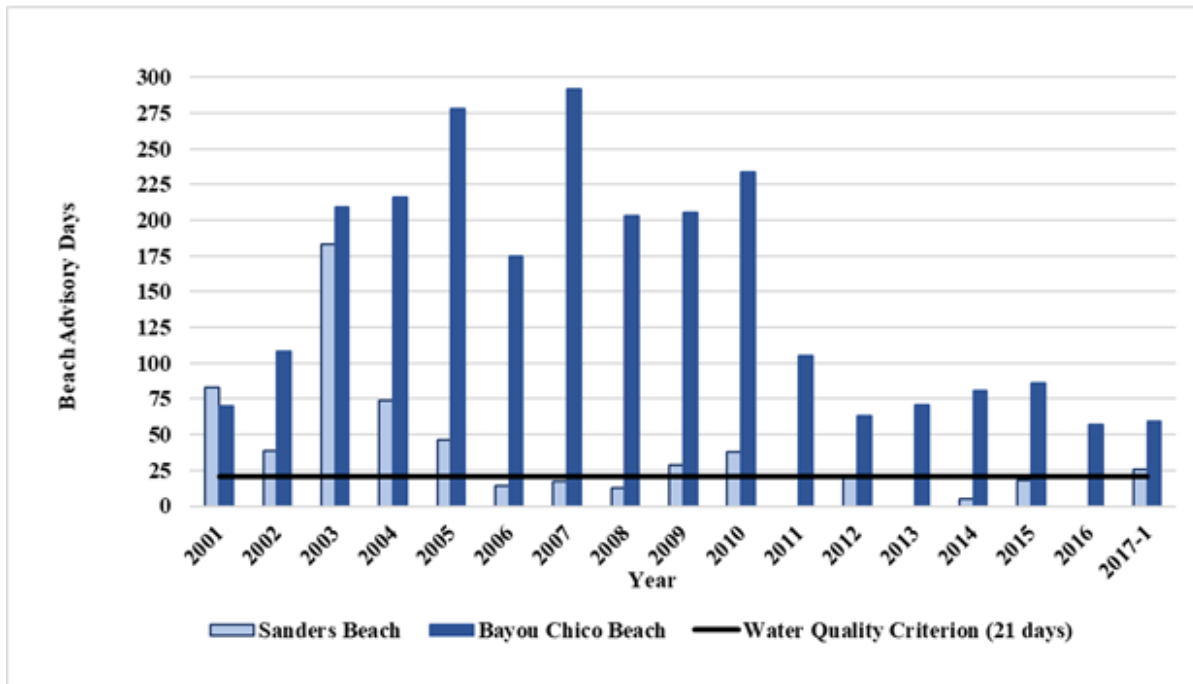
N/A = Not applicable

WBID	Waterbody Name	January 1, 2003, to June 30, 2010 Parameter	January 1, 2003, to June 30, 2010 % Exceedance	January 1, 2009, to June 30, 2016 Parameter	January 1, 2009, to June 30, 2016 % Exceedance
846A	Jones Creek	Fecal coliform	23	<i>E. coli</i> (future assessments)	N/A
846B	Jackson Creek	Fecal coliform	32	<i>E. coli</i>	35
846C	Bayou Chico Drain	Fecal coliform	19	Enterococci	40
846	Bayou Chico	Fecal coliform	19	Enterococci	35

**Table D-4. Number of beach advisories per year, 2010–17<sup>1</sup>**

<sup>1</sup>Date range January 1, 2017 – June 30, 2017

WBID	Waterbody Name	2010	2011	2012	2013	2014	2015	2016	2017 <sup>1</sup>
848DA	Sanders Beach	38	0	21	0	5	18	0	26
846CB	Bayou Chico Beach	234	105	63	71	81	86	57	59



**Figure D-2. Beach advisory days per year, January 1, 2017 – June 30, 2017**

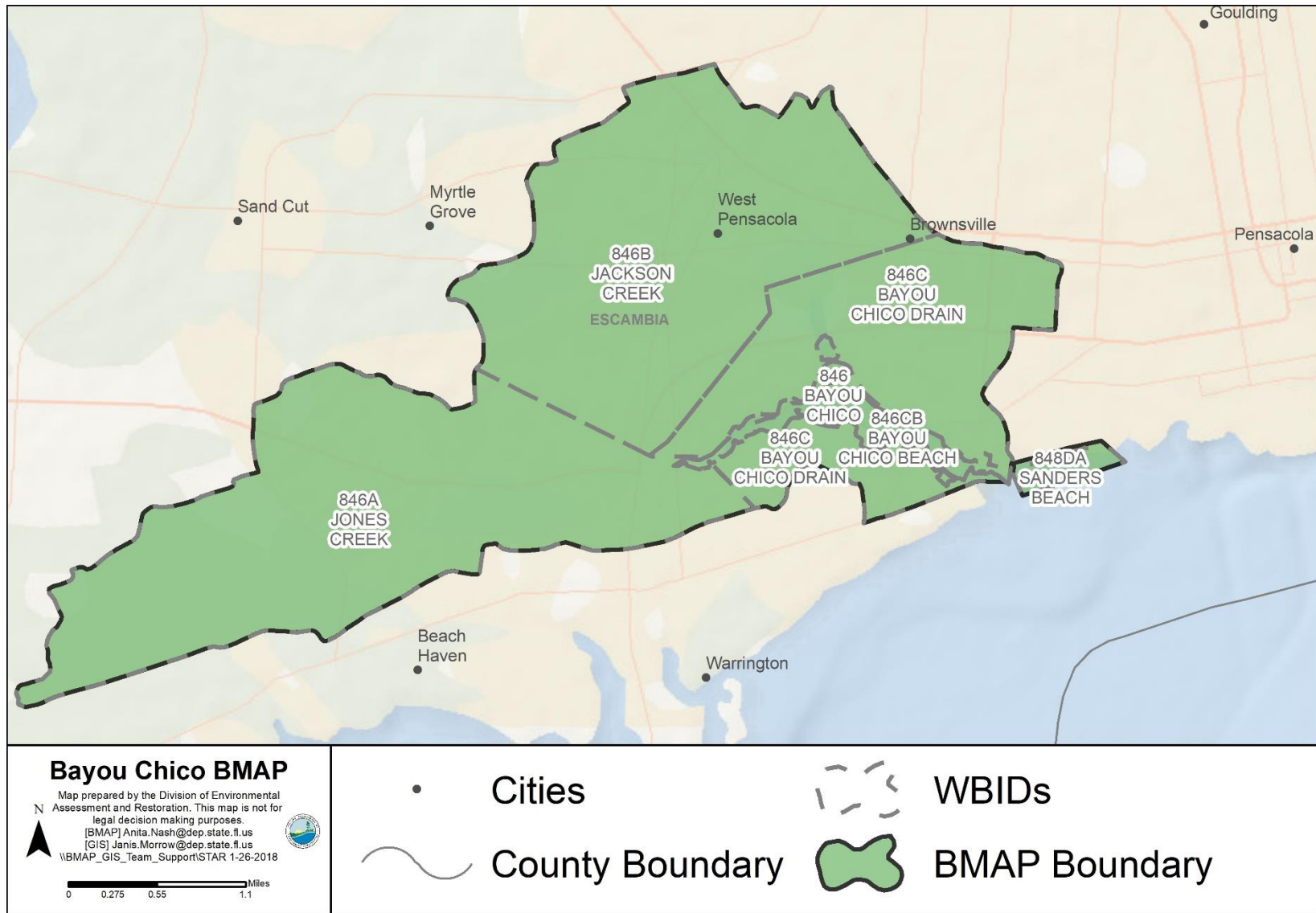


Figure D-3. Bayou Chico BMAP Area

**Table D-5. Bayou Chico BMAP projects**

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
ECUA	N/A	ECUA-001	Lakewood Phase I	183 OSTDS connections.	OSTDS	Completed	Prior to 2011	Multiple	\$1,431,866	N/A	ECUA
ECUA	N/A	ECUA-002	Lakewood Phase II	85 OSTDS connections.	OSTDS	Completed	Prior to 2011	846C	\$747,263	N/A	ECUA
ECUA	N/A	ECUA-003	Lakewood Phase III	112 OSTDS connections.	OSTDS	Completed	Prior to 2011	846C	\$723,964	N/A	ECUA
ECUA	HUD	ECUA and Escambia County-004	Lakewood Phase IV	Sewer extension.	Sanitary Sewer	Completed	2014	846C	\$128,845	N/A	HUD
ECUA	HUD	ECUA and Escambia County-005	Lakewood Phase V	256 OSTDS connections.	OSTDS	Completed	2013	846C	\$3,390,897	N/A	HUD
ECUA	HUD	ECUA and Escambia County-006	Lakewood Phase VI	Sewer extension.	Sanitary Sewer	Completed	2013	846C	Not provided	N/A	Partly funded through HUD
ECUA	N/A	ECUA-007	Edgewater Phase I	74 OSTDS connections.	OSTDS	Completed	Prior to 2011	846C	\$1,467,661	N/A	ECUA
ECUA	N/A	ECUA-008	Edgewater Phase II	295 OSTDS connections.	OSTDS	Completed	Prior to 2011	846C	Not provided	N/A	ECUA
ECUA	N/A	ECUA-009	FOG Program	FOG Program.	Sanitary Sewer	Completed	Prior to 2011	Basinwide	N/A	Not provided	ECUA
ECUA	N/A	ECUA-010	I&I Program	I&I Program.	Sanitary Sewer	Completed	Prior to 2011	Basinwide	N/A	Not provided	ECUA
ECUA	N/A	ECUA-011	SSO Response Plan	SSO response plan.	Sanitary Sewer	Completed	Prior to 2011	Basinwide	N/A	Not provided	ECUA
ECUA	N/A	ECUA-012	Emergency Power Generator Program	Emergency power generator.	Sanitary Sewer	Completed	Prior to 2011	Basinwide	N/A	Not provided	ECUA
ECUA	N/A	ECUA-013	Lift Station Upgrades	Main St. relocation to Cantonment.	Sanitary Sewer	Completed	Prior to 2011	Basinwide	Not provided	N/A	ECUA
Escambia County Health Dept. (ECHD)	FDOH	ECHD-014	Septic to Sewer Enforcement Program	Enforcement by notification and tracking of conversion compliance in Lakewood and Edgewater	OSTDS	Completed	Prior to 2011	Basinwide	N/A	Not provided	FDOH
ECHD	FDOH	ECHD-015	Environmental Analysis Program	Inspects septic tanks prior to property sales.	OSTDS	Completed	Prior to 2011	Basinwide	N/A	Not provided	FDOH
ECHD	FDOH	ECHD-016	OSTDS Permitting	Carries out all operational aspects of OSTDS Program, as described in Rule 64E-6, F.A.C.	OSTDS	Completed	Prior to 2011	Basinwide	N/A	Not provided	FDOH
ECHD	FDOH	ECHD-017	Industrial/Business Annual Operating Permits and Compliance Inspections	Issues permit when building served by OSTDS is located in area zoned or used for industrial/manufacturing purposes, or where business generates commercial sewage waste.	OSTDS	Completed	Prior to 2011	Basinwide	N/A	Not provided	FDOH
ECHD	FDOH	ECHD-018	Septic to Sewer Enforcement Program	Through notification and tracking, enforces conversion compliance for the septic tank phase out program done in concert with ECUA.	OSTDS	Completed	Prior to 2011	Basinwide	N/A	Not provided	FDOH
ECHD	N/A	ECHD-019	ECHD Research Program	Funded portion of research and manpower for study with University of West Florida (UWF) to develop method to distinguish human from nonhuman sources of pollution. Several avenues have been and are currently being explored.	Source Identification Activities	Completed	Prior to 2011	Basinwide	Not provided	N/A	ECHD
ECHD	FDOH	ECHD and Escambia County-20	Escambia County Ordinance 99-36, referenced in Escambia	Requires inspection by ECHD prior to sale or transfer of property with existing septic tank system. All	OSTDS	Completed	Prior to 2011	Multiple	N/A	Not provided	ECHD through FDOH

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
			County Ordinance, Chapter 98, Article III	required setbacks regarding system placement are also checked for compliance with Rule 64E-6, F.A.C., and Chapter 381, F.S. Inspection results must be made available to seller as well as buyer before or at time of closing.							
ECHD	FDOH/ UWF	ECHD-021	Healthy Beaches Program	Samples for fecal coliform and enterococci at specific sites in Bayou Chico, Lakewood Park, and Sanders Beach.	Source Identification Activities	Completed	Prior to 2011	848DA and 846CB	N/A	Not provided	ECHD through FDOH and UWF
Escambia County	N/A	Escambia County-022	Glynn Key	New stormwater BMPs and educational amphitheater and signage	Stormwater	Completed	Prior to 2011	846A	\$500,000	Not provided	Not provided
Escambia County	N/A	Escambia County-023	Bayou Chico Restoration Projects: W St. Weir	W St. Weir replacement.	Stormwater	Completed	Prior to 2011	846C	Not provided	Not provided	Not provided
Escambia County	N/A	Escambia County-024	Jackson Lakes	New stormwater BMPs and educational amphitheater and signage.	Stormwater	Completed	Prior to 2011	846C	\$500,000	Not provided	Not provided
Escambia County	N/A	Escambia County-025	Derelict Vessel Removal	Derelict vessel removal.	Stormwater	Completed	Prior to 2011	Multiple	\$50,000	N/A	Not provided
Escambia County	N/A	Escambia County-026	New Stormwater Ponds with New Development	New stormwater ponds with new development – 11 new BMPs.	Stormwater	Underway	TBD	Multiple	\$1,100,000	Not provided	Not provided
Escambia County	N/A	Escambia County-027	Illicit Discharge Detection	IDDE for high risk industries, small quantity generators, stormwater outfall monitoring.	Stormwater	Completed	Prior to 2011	Basinwide	\$50,000	N/A	Not provided
Escambia County	N/A	Escambia County-028	Stormwater Pond Inspection and Maintenance Program	Stormwater pond – Inspection and maintenance of more than 300 ponds.	Stormwater	Completed	Prior to 2011	Basinwide	N/A	\$300,000	Not provided
Escambia County	N/A	COP and ECUA-029	West Avery St. Drainage Improvements	Avery St. Drainage Improvements Phase I (Kupfiran Park Area Improvements) – Construction of new stormwater infrastructure in Kupfiran Park area.	Stormwater	Completed	2013	846C	\$1,000,000	Not provided	Not provided
Escambia County	N/A	Escambia County-030	Jones Swamp Wetland Preserve	Wetland Preservation – Purchase of 4 parcels at Fairfield Dr. and Albany Ave.	Stormwater	Completed	Prior to 2011	846A	\$300,000	N/A	Not provided
Escambia County	N/A	Escambia County-031	West Jones Creek Stream Restoration	Wetland restoration and maintenance carried out west of Navy Blvd., east of Fairfield Dr.; construct natural stream channel, restoration activities in floodplain.	Stormwater	Completed	Prior to 2011	846A	\$250,000	N/A	Not provided
Escambia County	N/A	Escambia County, Bay Area Resource Council (BARC), and BCA-032	Public Education and Outreach	Public education and outreach.	Stormwater	Completed	Prior to 2011	Basinwide	N/A	\$10,000	Not provided

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
NFWFMD and USACE	N/A	NFWFMD and USACE-033	Bayou Chico Dredging	Dredge entrance to Bayou Chico Channel.	Stormwater	Completed	Prior to 2011	Multiple	Not provided	N/A	USACE/ NFWFMD
Escambia County	N/A	Escambia County-034	Stormwater Outfall Monitoring	Sample as part of ongoing monitoring efforts for stormwater facilities located in bayou.	Stormwater	Completed	Prior to 2011	Basinwide	N/A	Not provided	Not provided
Escambia County	U.S. Navy	Escambia County and USN-035	Corry Station Retrofit Projects (Jones Creek East)	Construction of new stormwater infrastructure on NAS property designed to provide treatment for more than 100 ac of previously developed areas, including mixture of institutional, commercial, and residential land uses.	Stormwater	Underway	TBD	846A	\$500,000	Not provided	U.S. Navy and Escambia County
Escambia County	Florida Legislature	Escambia County and USN-036	Corry Station Runway Surface Restoration	Logistics to remove 5 ac of impervious surface, provide new stormwater treatment for runoff; concrete material will be available as base substrate for offshore fishery habitat improvements, oyster reefs, and other shoreline stabilization and restoration projects.	Stormwater	Canceled	N/A	846A	\$80,000	Not provided	Funded (FCT Grant)
Escambia County	N/A	Escambia County and USN-037	Jackson's Branch Headwater Restoration	Construction of new stormwater infrastructure on NAS property designed to provide treatment for more than 200 ac of previously developed areas, which include mixture of institutional, commercial, and residential land uses.	Stormwater	Underway	TBD	846B	\$500,000	Not provided	Not provided
Escambia County	N/A	Escambia County and USN-038	Corry Station Retrofit Projects (Jones Creek West)	Construction of new stormwater infrastructure on NAS property designed to provide treatment for more than 100 ac of previously developed areas, which include mixture of institutional, commercial, and residential land uses.	Stormwater	Underway	TBD	846A	\$500,000	Not provided	Not provided
Escambia County	N/A	Escambia County-039	Pet Waste Ordinance, Part 1, Article 1, Section 10-11(f)	Pass ordinance to define handling and removal of domestic pet waste countywide.	Stormwater	Completed	Prior to 2011	Basinwide	Not provided	Not provided	Escambia County
FDOT	N/A	FDOT-040	SR 292 Barrancas Ave. Bridge	(SR 292) Barracas Bridge replacement and stormwater treatment for bridge and roadway.	Stormwater	Completed	Prior to 2011	846C	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-041	US Hwy. 98 Navy Blvd. Bridge Replacement	Bayou Chico US Hwy. 98 (Navy Blvd.) Bridge replacement and stormwater treatment for 4-lane bridge where no treatment was provided previously.	Stormwater	Completed	Prior to 2011	846C	Not provided	Not provided	FDOT
Bayou Chico Association (BCA)	Escambia County/ DEP	BCA-042	Oyster Reef Project	Oyster reef project – Habitat restoration.	Stormwater	Completed	Prior to 2011	846C	Not provided	N/A	BCA/ Escambia County/ DEP
BCA	N/A	BCA-043	Bayou Chico Channel Dredging	Remove restrictive piling to open channel and increase flushing in tributaries of bayou.	Stormwater	Completed	2016	846C	\$68,000	N/A	BCA



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
BCA	N/A	BCA-044	Aeration Systems in Tributary (Jones Creek)	Install aeration systems to break down waste and allow aerobic activity and bacterial digestion.	Stormwater	Underway	TBD	846C	Not provided	Not provided	BCA
BCA	N/A	BCA-045	Floating Islands	Promote use of BioHaven® to enhance wetland functions and improve water quality.	Stormwater	Underway	TBD	846C	Not provided	Not provided	BCA
BCA	Marina Owner	BCA-046	Clean Marina – Clean Boatyard	Clean Marina Clean Boatyard – Pensacola Shipyard.	Stormwater	Completed	Prior to 2011	846C	Not provided	Not provided	Marina Owner
BCA	Marina Owner	BCA-047	Pumpout	Clean Marina – Bahia Mar Marina.	Stormwater	Completed	Prior to 2011	846C	Not provided	Not provided	Marina Owner
BCA	Marina Owner	BCA-048	Clean Marina	Clean Marina – Palm Harbor Marina.	Stormwater	Completed	Prior to 2011	846C	Not provided	Not provided	Marina Owner
BCA	Marina Owner	BCA-049	Clean Marina	Clean Marina – Island Cove Marina.	Stormwater	Completed	Prior to 2011	846C	Not provided	Not provided	Marina Owner
BCA	Marina Owner	BCA-050	Clean Marina	Clean Marina – Harbor View Marina.	Stormwater	Completed	Prior to 2011	846C	Not provided	Not provided	Marina Owner
BCA	Marina Owner	BCA-051	Clean Marina	Clean Marina Program – Pensacola Yacht Club.	Stormwater	Completed	Prior to 2011	846C	Not provided	Not provided	Marina Owner
BCA	Local Business Sponsors	BCA-052	Pumpout Facilities	Pumpout facilities (3, including mobile unit).	Stormwater	Completed	Prior to 2011	846	Not provided	Not provided	Funding from local business sponsors and grants through state
BCA	Marine Industry Operations and Ship or Commercial Boat Operators	BCA-053	Marine Industry Operations	Marine industry operations – Obtain NPDES stormwater permit.	Stormwater	Completed	Prior to 2011	846	Not provided	Not provided	Permittees consist of marine industry operations and ship or commercial boat operators
FWC	N/A	FWC-054	Compliance and Inspection Sweeps	Compliance and inspection sweeps for noncompliance on moored and live-aboard vessels.	Stormwater	Completed	Prior to 2011	846	Not provided	Not provided	FWC
BCA	N/A	BCA-055	Public Awareness and Outreach Campaign	Public awareness and outreach campaign (brochures/neighborhood outreach on pet waste, leaking oil, fertilizers, soaps, and detergents).	Stormwater	Completed	2015	846C	Not provided	Not provided	Not provided
BCA	N/A	BCA-056	Bayou Chico Dredging	Bayou Chico dredging.	Stormwater	Underway	TBD	846C	\$10,000,000	N/A	Not provided
City of Pensacola	N/A	COP-057	L and Zarragossa St. Drainage Improvements	New stormwater treatment.	Stormwater	Underway	TBD	846C	\$1,000,000	Not provided	Not provided
City of Pensacola	N/A	COP-058	Pace and Gregory St., Magnet School Baffle Boxes	Pace and Gregory St. magnet school baffle boxes.	Stormwater	Completed	2013	846C	\$230,000	Not provided	Not provided
City of Pensacola	N/A	COP-059	Street Sweeping Program	Street sweeping program.	Stormwater	Completed	2013	846C	\$745,000	Not provided	Not provided
BARC	N/A	BARC-060	Neighborhood Clean Sweep Program	Debris and garbage clean up basinwide.	Stormwater	Completed	2015	Basinwide	N/A	Not provided	Not provided
ECUA	N/A	ECUA-063	Beach Haven	1,720 connections total (half in Bayou Chico).	OSTDS	Underway	TBD	Not provided	\$1,200,000	N/A	Not provided

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
ECUA	N/A	ECUA-064	West Avery St. Sewer Upgrades	West Avery St. sewer upgrades.	Sanitary Sewer	Completed	2013	846C	Not provided	N/A	Not provided
Escambia County	N/A	Escambia County-065	Neighborhood Clean Sweeps/ Clean Ups	Neighborhood Clean Sweeps/ clean ups.	Stormwater	Completed	2013	Basinwide	\$50,000	Not provided	Not provided
Escambia County	N/A	Escambia County-066	Monitoring Plan Implementation	Monitor water quality to identify additional sources and assess water quality trends.	Source Identification Activities	Completed	2013	Basinwide	Not provided	Not provided	Not provided
FDOT	N/A	FDOT-067	MS4 Implementation	MS4 implementation.	Stormwater	Completed	2013	Basinwide	Not provided	Not provided	Not provided
FDOT	N/A	FDOT-068	FDOT Drainage Connection Program	Program will regulate and prescribe conditions for ansfer of stormwater to FDOT rights-of-way.	Stormwater	Completed	2013	Basinwide	Not provided	Not provided	Not provided
Escambia County	N/A	Escambia County and ECUA-069	Lakeview St. Drainage Improvements Phase II	Construction of new stormwater infrastructure in Kupfiran Park area.	Stormwater	Underway	TBD	846C	\$400,000	Not provided	Not provided
Escambia County	N/A	Escambia County and Area Housing Commission-070	Jones Creek East Stream Restoration	Restoration of 1,200 LF of East Jones Creek between Navy Blvd. and Old Corry Field Rd.; includes stream enhancement, floodplain expansion, riparian wetland restoration, invasive exotic species eradication, and elevated educational boardwalk.	Stormwater	Completed	2013	846A	\$400,000	Not provided	Not provided
Escambia County	N/A	Escambia County-071	Lexington Terrace Stormwater Retrofit	Construction of 4-ac stormwater treatment train system to capture and treat 60 ac of existing residential development; includes concrete vaults, dry retention, wet detention elements, and BMP effectiveness monitoring to be conducted postconstruction.	Stormwater	Completed	2013	846A	\$650,000	Not provided	Not provided
Escambia County	N/A	Escambia County-072	Maggie's Ditch Wetland Enhancement Phase I	Expansion of riparian wetlands along 250-ft section of headwaters of northeast arm of Bayou Chico in historical floodplain.	Stormwater	Completed	2013	846C	\$75,000	Not provided	Not provided
Escambia County	N/A	Escambia County and COP-73	Maggie's Ditch Wetland Enhancement Phase II	Expansion of riparian wetlands along 275-ft section of headwater of northeast arm of Bayou Chico in historical floodplain; also includes excavation and disposal of contaminated soils	Stormwater	Completed	2013	846C	\$175,000	Not provided	Not provided
Escambia County	N/A	Escambia County-074	W St. Sedimentation Basin Repairs	Rehabilitation of failed sediment basin; includes dredging basin and installation of new composite weir.	Stormwater	Completed	2013	846C	\$150,000	Not provided	Not provided
Escambia County	N/A	Escambia County and Pensacola State College-075	Southwest Greenway at Pensacola State College Warrington Campus	Construction of 3,000-ft elevated educational boardwalk.	Stormwater	Completed	2013	846A	\$400,000	Not provided	Not provided
Escambia County	N/A	Escambia County-076	Southwest Greenway 3rd Extension	Construction of 3,000-ft elevated educational boardwalk from Decatur St. west crossing Fairfield Dr.; also	Stormwater	Underway	TBD	846A	\$300,000	Not provided	Not provided



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				includes improvements to 0.5 mi of existing on-grade trail system.							
Escambia County	N/A	Escambia County-077	Jackson Lakes Stormwater Improvements	Construction of improvements to existing Jackson Lakes offline retention system; includes installation of one-way valve system at stormwater inlet and further expansion of littoral area. Repairs required to existing structure after April 2014 flood.	Stormwater	Underway	TBD	846B	\$1,000,000	Not provided	Not provided
Escambia County	N/A	Escambia County-078	Beach Haven Stormwater Improvement Project Phase I	Construction of new stormwater infrastructure for 250 ac of existing residential development along Jones Creek.	Stormwater	Underway	TBD	846A	\$5,000,000	Not provided	Not provided
BCA	N/A	BCA-079	Annual Bayou Chico Clean Up	Annual Bayou Chico cleanup.	Stormwater	Completed	2013	846C	N/A	Not provided	Not provided
City of Pensacola	N/A	COP-080	R and Wright St. Baffle Box	R and Wright St. baffle box.	Stormwater	Underway	TBD	846C	\$350,000	Not provided	Not provided
BARC	N/A	BARC-081	Environmental Symposium 2012	Public outreach and education on TMDLs, numeric nutrient criteria, and water quality.	Stormwater	Completed	2015	Basinwide	N/A	Not provided	Not provided
BARC	N/A	BARC-082	Environmental Symposium 2013	Held in fall with UWF.	Stormwater	Completed	2014	Basinwide	N/A	Not provided	Not provided
BARC	N/A	BARC-083	Stormwater Drain Markings	BARC staff and UWF student volunteers placed 149 Duracast polyurethane curb markers on concrete casing above curbside inlets in areas where stormwater runoff feeds directly to bayou, and distributed stormwater fact sheets to over 1,200 households in area.	Stormwater	Completed	2014	Basinwide	Not provided	N/A	Not provided
City of Pensacola	N/A	COP-084	Bayou Dr. Outfalls into Bayou Chico	Bayou Dr. outfalls into Bayou Chico.	Stormwater	Underway	TBD	846C	\$325,000	Not provided	Not provided
City of Pensacola	N/A	COP-085	Bill Gregory Park Stormwater Treatment Enhancement	Bill Gregory Park stormwater treatment enhancement.	Stormwater	Underway	TBD	846C	\$1,950,000	Not provided	Not provided
Escambia County	N/A	Escambia County-086	Beach Haven Stormwater Improvement Project Phase II	Construction of new stormwater infrastructure for 250 ac of existing residential development along Jones Creek.	Stormwater	Underway	TBD	846A	\$5,000,000	Not provided	Not provided
FDOT	N/A	FDOT-087	IDDE Training	IDDE training.	Stormwater	Completed	2014	Basinwide	N/A	Not provided	Not provided
Escambia County	N/A	Escambia County-088	Jones Creek Floodplain Restoration/ Expansion Project	Reestablish connection to historical floodplain along Jones Creek.	Stormwater	Underway	TBD	846A	\$1,500,00	N/A	Not provided
Escambia County	N/A	Escambia County-089	Jackson Creek Floodplain Restoration/ Expansion Project	Reestablish connection to historical floodplain along Jackson Creek.	Stormwater	Underway	TBD	846B	\$1,500,000	N/A	Not provided
Escambia County	N/A	Escambia County-090	East Jones Creek Stream Restoration	Restore 1,200 LF of East Jones Creek; stream enhancement and natural stream channel restoration	Stormwater	Completed	2015	846A	\$250,000	N/A	Not provided

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				project; floodplain restoration; wetlands restoration; elevated educational boardwalk.							
Escambia County	N/A	Escambia County-091	Southwest Greenway 4 <sup>th</sup> Extension	Construction of 1,800-ft elevated educational boardwalk west across Fairfield Dr.	Stormwater	Completed	2015	846A	\$250,000	N/A	Not provided
Escambia County	N/A	Escambia County-092	Corrydale	Restoration of 0.75 ac of wetland in Jones Swamp Wetland Preserve; project is associated with ECUA lift station relocation project.	Stormwater	Underway	TBD	846A	\$100,000	N/A	Not provided
Escambia County	N/A	Escambia County-093	Bayou Chico Dredging Phase I	Planning, design, and permitting of remediation of contaminated Bayou Chico sediments; future phases may include dredging, or other technology, to remove or otherwise mitigate impacts from contaminants in bayou sediments.	Stormwater	Underway	TBD	Basinwide	\$356,850	N/A	Not provided
Escambia County	N/A	Escambia County-094	Jackson Lakes Surface Water Quality Monitoring	Surface water quality monitoring in 3 former borrow pits along Jackson Creek.	Stormwater	Underway	TBD	846B	\$27,000	N/A	Not provided
Escambia County	N/A	Escambia County-095	Jones Swamp Wetland Preserve Management Plan Development and Implementation	Jones Swamp Wetland Preserve Management Plan development and implementation.	Stormwater	Underway	TBD	846A	\$400,000	Not provided	Not provided
BCA	N/A	BCA-096	Barge Cleanup	Barge cleanup at residential location.	Stormwater	Completed	2016	846C	Not provided	N/A	Not provided
City of Pensacola	N/A	COP-097	Sanders Beach Storm Sewer Reconstruction	Also known as Pensacola Yacht Club ditch rplacement – Reroute flow from contaminated (Superfund site) ditch.	Stormwater	Completed	2016	848DA	\$1,250,000	N/A	Not provided
FDOH	N/A	FDOH-098	Environmental Analysis Program	Inspect improperly installed and poorly maintained septic tank systems.	OSTDS	Completed	2016	Basinwide	Not provided	Not provided	Not provided
BARC	N/A	BARC-099	Environmental Symposium 2007	Public outreach and education on water, air, and land use issues and concerns.	Stormwater	Completed	2016	Basinwide	\$2,400	N/A	Not provided
BARC	N/A	BARC-100	BARC Watershed Tour 2007	BARC Watershed Tour 2007 – Public outreach and education on land use and water, and on point and nonpoint source pollution.	Stormwater	Completed	2016	Basinwide	\$1,200	N/A	Not provided
BARC	N/A	BARC-101	Public Education and Outreach	Distribution of brochures on green building design, ecological research programs, LID, sustainability, etc., at various events.	Stormwater	Completed	2016	Basinwide	\$31,000	Not provided	Not provided
BARC	N/A	BARC-102	Bay Day Public Education and Outreach	Distribution of brochures at Bay Day 2007–09 and hands-on environmental education activities.	Stormwater	Completed	2016	Basinwide	Not provided	N/A	Not provided

## Hillsborough River BMAP

### *Background*

The Hillsborough River extends over parts of 3 counties, including much of the northeastern quarter of Hillsborough County, a large area of central Pasco County, and a small portion of northwestern Polk County. The Hillsborough River Basin begins east-northeast of Zephyrhills in southeastern Pasco and northwestern Polk Counties. Its headwaters originate in the southwestern portion of the Green Swamp, where it also receives overflow from the Withlacoochee River. The river channel is not clearly defined until the river leaves the swamp. From there, it flows southwesterly 54 miles to upper Hillsborough Bay and drains more than 690 square miles (**Figure D-4**).

The Hillsborough River BMAP was adopted in 2009 to implement six fecal coliform TMDLs in the Hillsborough River Basin: Lower Hillsborough River (WBID 1443E), and intermittently flowing tributaries Blackwater Creek (WBID 1482), New River (WBID 1442), Spartman Branch (WBID 1561), Baker Creek (WBID 1522C), and Flint Creek (WBID 1522A). **Figure D-4** shows the BMAP geographic boundaries. The basins addressed by the BMAP include the urban and suburban areas of Tampa, Plant City, and Lakeland, and agricultural and natural lands.

### *Status of Projects*

From June 2009 through October 2016, 153 projects were reported as completed. Of these projects, 55 were implemented prior to BMAP adoption and 106 are ongoing, maintenance activities.

### *Frequency of Exceedance*

**Table D-6** lists the frequency of exceedance of the ten percent threshold fecal coliform criterion for the Cycle 2 assessment verified period (January 1, 2001, to June 30, 2008) (before BMAP adoption in 2009) and from January 1, 2009, to June 30, 2016.

**Table D-6. Exceedance frequency for the Class III BMAP WBIDs**

WBID Number	Waterbody Name	January 1, 2001, to June 30, 2008 % Exceedance	January 1, 2009, to June 30, 2016 % Exceedance
1443E	Lower Hillsborough River	22	13
1561	Spartman Branch	27	14
1522C	Baker Creek	33	16
1522A	Flint Creek	25	18
1482	Blackwater Creek	25	19
1442	New River	43	28

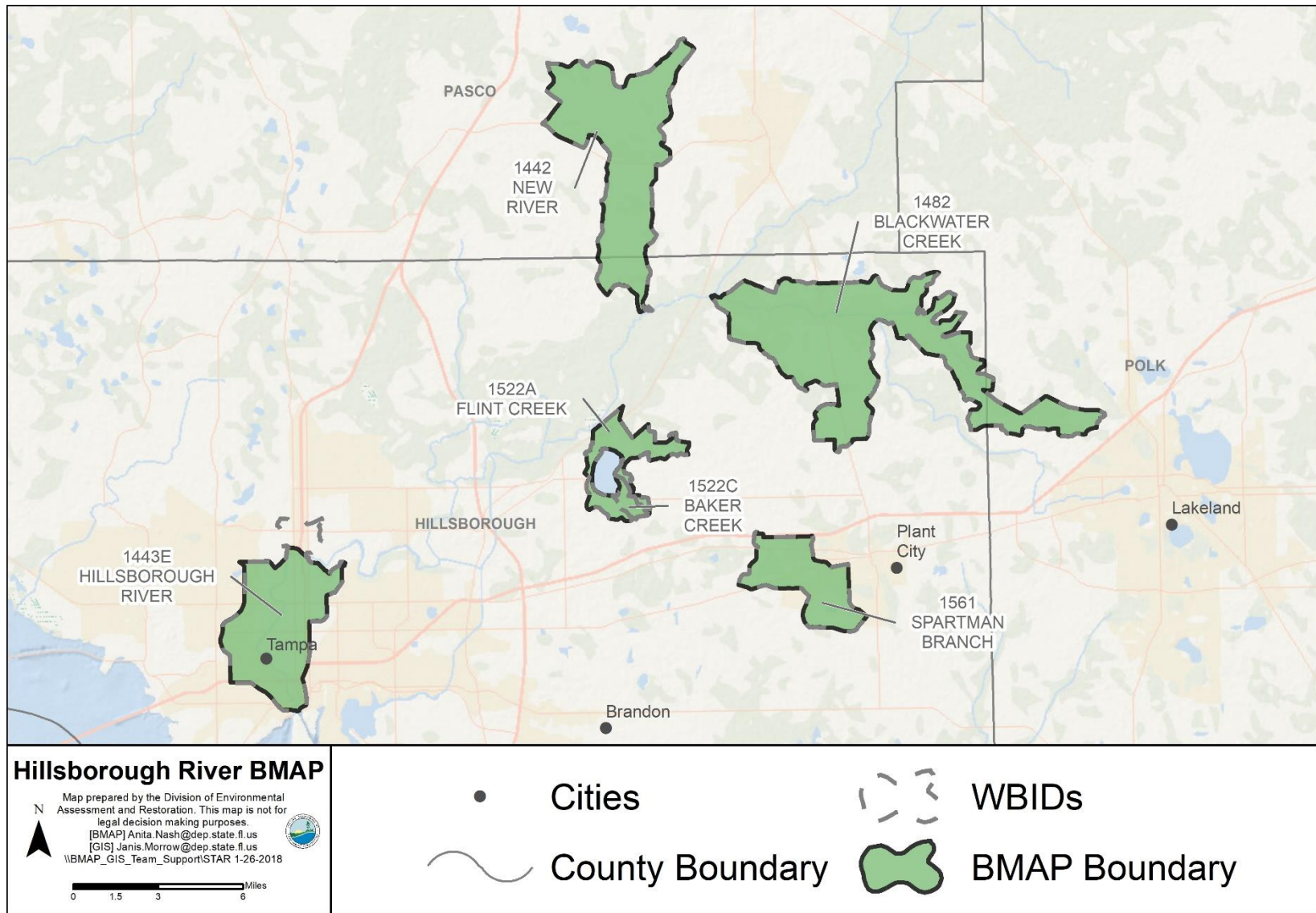


Figure D-4. Hillsborough River BMAP WBIDs



**Table D-7. Hillsborough River BMAP projects**

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
DEP	PBS&J/ University of South Florida (USF)/ HSW Engineering/ BMAP Steering Committee	BWC-001, LHR-001, NR-001, SBF-001	Microbial Source Tracking	Under contract to DEP, PBS&J is providing services to help identify sources of fecal coliform contamination in 6 Hillsborough River tributaries. Phase I comprises initial screening; Phases II and III (implementation and evaluation of results, respectively) will be developed based on Phase I Work Plan.	Source Identification Activities	Completed	2008	Blackwater Creek; Lower Hillsborough River; New River; Spartman Branch, Baker Creek, Flint Creek	\$42,528	N/A	DEP
Pasco County	N/A	BWC-002, NR-002	DNA Source Identification	Source tracking for 3 waters with coliform TMDLs in Pasco County. Funding was included in FY 2008 budget and future funding in subsequent budgets. Once source is identified, testing will focus on identifying its location.	Source Identification Activities	Planned	Not provided	Blackwater Creek, New River	\$100,000	N/A	Pasco County
Hillsborough County	N/A	BWC-003, LHR-002, NR-004, SBF-002	Septic Tank Mapping and Hot Spot Analysis	Update septic tank map using GIS and billing information, and evaluate potential hot spots based on hydrologic and soil conditions.	OSTDS	Completed	2008	Blackwater Creek; Lower Hillsborough River; New River; Spartman Branch, Baker Creek, Flint Creek	\$28,000	N/A	Specialized Services Unit Operating Budget
HCHD	Not provided	BWC-004, LHR-003, NR-003, SPF-003	High-Probability Areas Map for Septic System Failure	Areas of high probability for septic system failure were mapped throughout Hillsborough River Basin, not including City of Tampa wastewater or City of Plant City wastewater service areas.	OSTDS	Completed	2007	Blackwater Creek; Lower Hillsborough River; New River; Spartman Branch, Baker Creek, Flint Creek	\$1,250	N/A	Not provided
Hillsborough County	USF/ SWFWMD/ Ayres Associates	BWC-005, SBF-004	Bacteriological Source Tracking Study	Study used antibiotic resistance analysis to gain information on probable sources of fecal coliform contamination to Blackwater and Flint Creeks.	Source Identification Activities	Completed	2002	Blackwater Creek, Flint Creek	\$100,000	N/A	Hillsborough County/ SWFWMD
EPCHC	N/A	BWC-006, LHR-004, NR-005, SBF-005	Survey of Stormwater Associated with Industrial Facilities	Survey and identify industrial facilities that operate stormwater management systems.	Stormwater	Completed	2006	Blackwater Creek; Lower Hillsborough River; New River; Spartman Branch, Baker Creek, Flint Creek	\$30,080	N/A	EPCHC
HCHD	Not provided	BWC-007, SBF-006	Septic System 200-Ft Setback	Consists of ongoing enforcement. HCHD OSTDS Program has enforced state law on Hillsborough River since late 1980s. Any waivers were made by City of Tampa Water Dept.	OSTDS	Completed	1980s	Blackwater Creek; Spartman Branch, Baker Creek, Flint Creek	N/A	\$2,000	Not provided
Hillsborough County	SWFWMD	BWC-008, LHR-005, NR-008, SBF-007	Officer Snook	This countywide, in-school educational program targeting 2nd graders consists of 30-minute presentations on how students can prevent water pollution in their daily lives. Presentation addresses pet waste as source of pollution.	Stormwater	Canceled	2009	Blackwater Creek; Lower Hillsborough River; New River; Spartman Branch, Baker Creek, Flint Creek	N/A	\$9,000	Stormwater Fee plus Cooperative Funding

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Hillsborough County	SWFWMD	BWC-009, LHR-006, NR-009, SBF-008	Stormwater Ecologist Education Program	Program targets Grades 3 through 12. Students participate in critical thinking activities, demonstrations, and volunteer projects that highlight stormwater pollution and address pet waste, agricultural waste, septic systems, and water treatment plant overflow as they relate to stormwater pollution.	Stormwater	Completed	2009	Blackwater Creek; Lower Hillsborough River; New River; Spartman Branch, Baker Creek, Flint Creek	N/A	\$9,000	Stormwater Fee Plus Cooperative Funding
Hillsborough County	N/A	BWC-010, LHR-007, SBF-009	Pet Waste Campaign Study	Social marketing study on effectiveness of pet waste public education vs. ordinance enforcement.	Stormwater	Planned	Not provided	Blackwater Creek; Lower Hillsborough River; Spartman Branch, Baker Creek, Flint Creek	\$24,000	N/A	Specialized Services Unit Operating Budget
Hillsborough County	SWFWMD	BWC-011, LHR-008, SPF-010	LakeWatch and Hillsborough County Stream Water Watch	Public education on pollution prevention and BMPs through volunteer monitoring networks on lakes and streams in Hillsborough County. Includes data analysis of samples collected for nutrients.	Stormwater	Completed	2001	Blackwater Creek; Lower Hillsborough River; Spartman Branch, Baker Creek, Flint Creek	N/A	\$116,000	Stormwater Operating Budget/ SWFWMD Cooperative Funding
Hillsborough County	SWFWMD	BWC-012	2 Adopt-a-Ponds in Blackwater Creek Watershed	Pond restoration and environmental education.	Stormwater	Completed	1997	Blackwater Creek	N/A	\$138,000	Stormwater Operations Budget
Polk County	Not provided	BWC-013	Polk County Land Development Regulations	Adopted in 2000, contains many ordinances, including Surface Water Protection Ordinance. Development within 200 ft of ordinary high-water line (OHWL) of lakes and streams, enhanced septic tank drainfield location requirements. Requires undisturbed vegetative buffer averaging 25 ft wide (15-ft minimum) to all jurisdictional wetland lines or surface waters. Requires revegetation of surface water protection zone following construction. Additional limitations specific to mining activities in this zone are also included.	OSTDS	Completed	2000	Blackwater Creek	Not provided	Not provided	Not provided
City of Plant City	N/A	BWC-014, SBF-030	Plant City Stormwater Inlet Marking Program	Ongoing program to apply plaques to stormwater inlets that state in English and Spanish, "DO NOT POLLUTE THE WATER. DUMP NO WASTE. IT'S THE LAW." Printed educational pamphlets are distributed to residents in areas where plaques are applied, stressing importance of pollution prevention and describing BMPs that can be used to prevent pollution.	Stormwater	Completed	2009	Blackwater Creek; Spartman Branch, Baker Creek, Flint Creek	N/A	\$1,000	Utilities Revenues
Pasco County	SWFWMD	BWC-015, NR-	New River and Hillsborough River WMPs in Pasco County	Ardaman and Associates is under contract to develop a solid waste management master plan (SWMMP). Currently, \$600,000 is available, with additional funding in 2007-08 and 2008-09. Water	Stormwater	Completed	2009	Blackwater Creek	\$1,600,000	N/A	Pasco County, SWFWMD

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				quality portion of plan will focus on existing TMDLs. Program has been delayed because of FEMA Flood Map revisions.							
FDACS	Agricultural Producers	BWC-016, BWC-027, NR-011, SBF-014	Agricultural BMPs – FDACS BMP Program	Enroll agricultural producers in FDACS Farm BMP Program.	Stormwater	Completed	2009	Blackwater Creek; New River; Spartman Branch, Baker Creek, Flint Creek	Amount depends on BMPs implemented	Not provided	Agricultural Producers, with cost-share as available from legislative appropriations and partnering agencies
Hillsborough County	DEP	BWC-017	Cone Ranch Restoration Project	Project restored hydroperiod to 400 acres of ditched and drained wetlands in agricultural pasture. Seven constructed wetland ponds were created in project area for stormwater treatment. Project resulted in calculated TN load reduction of 331 lbs/yr.	Stormwater	Completed	1999	Blackwater Creek	\$392,000	Not provided	EPA 319(h) Grant/ in-kind services from project partners
City of Plant City	SWFWMD/ Hillsborough County/ DEP	BWC-018	McIntosh Park Water Quality/Wetland Enhancement	Wetland creation and enhanced stormwater treatment using alum. Project resulted in calculated TN load reduction of 2,702 lbs/yr.	Stormwater	Completed	2006	Blackwater Creek	\$3,824,564	Not provided	EPA 319(h) Grant/ in-kind services from project partners
City of Plant City	N/A	BWC-019, SBF-031	Plant City Spill Prevention/Response Program	Address SSOs and other spill incidents to prevent introduction of pollutants to environment.	Sanitary Sewer	Completed	2009	Blackwater Creek; Spartman Branch, Baker Creek, Flint Creek	N/A	\$50,000	Utilities Revenues
City of Plant City	N/A	BWC-020, SBF-032	Plant City Sewer Line Maintenance Program	Ongoing program to maintain over 120 mi of sanitary sewer lines. This includes repair of all associated manholes and connection of new service laterals to main collection lines. Program helps prevent both I&I of groundwater to collection system and exfiltration of wastewater to groundwater and surface water.	Sanitary Sewer	Completed	2009	Blackwater Creek; Spartman Branch, Baker Creek, Flint Creek	\$1,500,000	\$10,000	Utilities Revenues
City of Plant City	N/A	BWC-021, SBF-033	Plant City Lift Station Security Program	Maintain basic security (fences, gates, locks) for sanitary sewer lift stations. Currently 30 of 50 stations are secured in this fashion.	Sanitary Sewer	Completed	2009	Blackwater Creek; Spartman Branch, Baker Creek, Flint Creek	N/A	\$10,000	Utilities Revenues
City of Plant City	Florida Dept. of Community Affairs (FDCA)	BWC-022, SBF-034	Plant City Lift Station Auxiliary Power Program	Maintain auxiliary power generators at sanitary sewer lift stations. Currently, 21 of 50 stations have permanent onsite generators; 8 portable generators are also available as needed	Sanitary Sewer	Completed	2009	Blackwater Creek; Spartman Branch, Baker Creek, Flint Creek	N/A	\$130,000	Utilities Revenues/ FDCA Grant
City of Plant City	FDCA	BWC-023	Plant City Lift Station Maintenance	Annual maintenance of 50 lift stations.	Sanitary Sewer	Completed	2009	Blackwater Creek	N/A	\$500,000	Utilities Revenues/ FDCA Grant
City of Plant City	N/A	BWC-024, SBF-028	Plant City I&I Program	Clean, carry out video inspection of, and grout sanitary sewer lines and manholes.	Sanitary Sewer	Completed	2009	Blackwater Creek; Spartman Branch, Baker Creek, Flint Creek	\$1,500,000	N/A	Utilities Revenues

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
City of Plant City	N/A	BWC-025	Plant City Grease Management Program	Inspect, monitor, and educate facilities that generate cooking oil and grease to ensure BMPs are in use and that pretreatment systems are being managed properly.	Sanitary Sewer	Completed	2009	Blackwater Creek	N/A	\$50,000	Utilities Revenues
HCHD	EPCHC	BWC-026, LHR-026, NR-012, SBF-019	Septic System Complaint Response	Respond to citizen complaints on sanitary sewer and septic system discharges.	Sanitary Sewer	Completed	2009	Blackwater Creek; Lower Hillsborough River; New River; Spartman Branch, Baker Creek, Flint Creek	N/A	\$1,250	EPCHC
Hillsborough County	Audubon Ranch/ DEP/ SWFWMD	BWC-027	Floodplain Fencing for Cattle Restriction	Following construction of wetlands rehydration project (joint effort by EPA, DEP, SWFWMD, and Hillsborough County, based on concept developed by Hillsborough River Greenways Task Force) on Tiger Creek, a main tributary to Blackwater Creek on Cone Ranch, Audubon Ranch developed, installed, and maintains new network of fencing designed to keep cattle from entering Tiger Creek tributary. This helps with water quality improvements central to project design. Over past decade, Audubon Ranch has also installed new fencing designed to better control cattle movements and keep cattle from entering Blackwater Creek floodplain and streambed over most of Cone Ranch.	Stormwater	Completed	2009	Blackwater Creek	Not provided	Not provided	EPA/ DEP/ SWFWMD/ Hillsborough County
EPCHC	N/A	BWC-028, NR-013, SBF-020, LHR-027; SF-020	Private Pump Station Identification and Compliance Program	Identify private pump stations in cities of Tampa, Plant City, and Temple Terrace. Establish compliance inspection program to reduce number of SSOs from private pump stations.	Sanitary Sewer	Completed	2005	Blackwater Creek; Lower Hillsborough River; New River; Spartman Branch, Baker Creek, Flint Creek	N/A	\$22,200	EPCHC
EPCHC	Hillsborough County/ SWFWMD	BWC-029, LHR-028	Fecal Coliform Monthly Monitoring— Hillsborough County	EPCHC has maintained extensive, comprehensive water quality monitoring program with network of stations throughout Hillsborough County and Tampa Bay since 1974. All sample collection and analysis are conducted in accordance with DEP rules and guidance. EPCHC staff collect monthly water quality samples that are analyzed for bacterial contamination—i.e., fecal coliform and Enterococci—at 38 locations in Hillsborough River Basin. EPCHC also collects bacteria samples from 30 locations representing major and minor tributaries of Hillsborough River; 11 of these are sampled monthly, and 19	Source Identification Activities	Completed	1974	Blackwater Creek; Lower Hillsborough River	N/A	\$4,753	EPCHC



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				locations represent minor tributaries and are sampled quarterly.							
EPCHC	Hillsborough County	BWC-030, LHR-030, NR-016, SBF-022	SSO Database	Maintain database of reported SSOs from Hillsborough County, City of Tampa, and other municipalities. Database quantifies spill amounts and discharge locations.	Sanitary Sewer	Completed	2009	Blackwater Creek; Lower Hillsborough River; New River; Spartman Branch, Baker Creek, Flint Creek	Not provided	Not provided	Hillsborough County
EPCHC	Not provided	BWC-031, LHR-032, NR-017, SBF-023	Development and Application of Decision Matrix to Track Progress Towards Water Quality Criteria	Results of monitoring programs are used to assess progress toward water quality improvements through annual application of decision matrix developed by EPCHC in 2007. Decision rule is modeled after one developed by Tampa Bay Estuary Program (TBEP) and used to track water quality in Tampa Bay. Decision matrix includes statistical evaluation of water quality trends in Blackwater Creek watershed and will be applied annually. If water quality trends show degradation or lack of improvement over time, matrix will include definition of types of actions to be considered by implementing partners.	Source Identification Activities	Completed	2007	Blackwater Creek; Lower Hillsborough River; New River; Spartman Branch, Baker Creek, Flint Creek	Not provided	Not provided	Not provided
EPCHC	Not provided	BWC-032	Bacterial Contamination Complaint Response to Hillsborough County Health Dept. (HCHD)	Bacterial contamination complaints received by EPCHC possibly caused by septic system failure; complaints forwarded to HCHD for follow up.	Sanitary Sewer	Completed	2009	Blackwater Creek	Not provided	Not provided	Not provided
FDOT	N/A	BWC-033, NR-018	Public Education Program for Tampa Bay Regional Planning Council Distribution	Tampa Bay Regional Planning Council to coordinate selection and distribution of public education programs such as Museum of Science and Industry's (MOSI) Marine Gang, Keep Hillsborough Beautiful, Bay Soundings Environmental Journal, storm drain markers, "All the Way to the Ocean" books, etc.	Stormwater	Completed	1996	Blackwater Creek	N/A	\$65,000	FDOT
HCHD	Not provided	BWC-034, LHR-038, NR-019, SBF-026	Public Health Education Program	Ongoing annual countywide public health education program distributed via permit issuance.	Stormwater	Completed	2009	Blackwater Creek; Lower Hillsborough River; New River; Spartman Branch, Baker Creek, Flint Creek	N/A	\$500	Not provided
Pasco County	Not provided	BWC-035, NR-015	Fecal Coliform Quarterly Monitoring	Annual funding for fecal coliform quarterly monitoring for 3 yrs in response to NPDES permit. Quarterly samples are collected at 2 stations: New River at Creek Rd. (Site 15) and Trout Creek at County Line Site 5 (TC-0.0).	Source Identification Activities	Completed	2009	Blackwater Creek	\$6,000	N/A	Not provided
Polk County	Not provided	BWC-036	Stormwater Quality Management Ordinances	Ordinance 93-06 provides protection to surface waters from illicit discharges and	Stormwater	Completed	1993	Blackwater Creek	\$10,000	N/A	Not provided

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				requires construction BMPs to meet NPDES MS4 permit requirements.							
Polk County	Not provided	BWC-037	Surface Water Protection Ordinance	Ordinance 88-04 regulates setbacks from waterways for installation of OSTDS.	OSTDS	Completed	1988	Blackwater Creek	\$5,000	N/A	Not provided
Polk County	Not provided	BWC-038	Wastewater Residuals Management Ordinance	Ordinance 95-69 applies wastewater residuals management to unincorporated areas of Polk County.	Sanitary Sewer	Completed	1995	Blackwater Creek	\$10,000	N/A	Not provided
Polk County	N/A	BWC-039	Drainage Maintenance on Blackwater Creek	Annual removal of debris and snags from Blackwater Creek.	Stormwater	Completed	2009	Blackwater Creek	N/A	\$9,000	County
Polk County	N/A	BWC-040	Water Quality Ambient Monitoring for Blackwater Creek	Yearly monitoring of water quality in Blackwater Creek.	Source Identification Activities	Completed	2009	Blackwater Creek	N/A	\$5,200	County
Polk County	N/A	BWC-041	Illicit Discharge Complaint Investigations	Complaint investigations of NPDES illicit discharges on Blackwater Creek and Itchepackesassa Creek.	Stormwater	Completed	2009	Blackwater Creek	N/A	\$100	County
Polk County	N/A	BWC-042	Blackwater Creek WMP	Prepared easement documents for parcels acquired for maintenance for flood control.	Stormwater	Completed	2004	Blackwater Creek	\$206,000	N/A	County
Polk County	N/A	BWC-043	Routine Maintenance Erosion Control	Routine erosion-control maintenance countywide.	Stormwater	Completed	2009	Blackwater Creek	N/A	\$25,000	County
Polk County	N/A	BWC-044	MSTU	Establish MSTU for stormwater tax collection.	Stormwater	Completed	2013	Blackwater Creek	N/A	\$1,000,000	County
Polk County	N/A	BWC-045	Mapping High Probability for Septic Tank Failures	Not provided	OSTDS	Completed	2014	Blackwater Creek	Not provided	Not provided	County
City of Plant City	N/A	BWC-046; SBF-035	Plant City WRF Fecal Coliform Bacteria Reduction Plan	Implementation of operational protocol at city WRF to reduce bacteriological contamination in effluent.	Sanitary Sewer	Completed	2009	Blackwater Creek; Spartman Branch, Baker Creek, Flint Creek	N/A	\$72,000	City
Polk County	N/A	BWC-046	Pet Waste Campaign Study	Provide educational materials and portable pet waste bag containers at public functions.	Stormwater	Completed	2015	Blackwater Creek	N/A	\$2,000	County
Polk County	N/A	BWC-047	Monitoring for <i>E. coli</i>	Expanded ambient monitoring program to include <i>E. coli</i> .	Source Identification Activities	Completed	2015	Blackwater Creek	Not provided	Not provided	County
EPCHC	N/A	BWC-048, LHR-050, NR-021, SBF-037	Evaluation of Progress Towards Water Quality Improvements	Results of monitoring programs will be used to assess progress toward water quality improvements. Monitoring results will be reviewed annually to determine water quality trends over time. Results will be applied to decision matrix developed by DEP/EPCHC so that appropriate action in Blackwater Creek Watershed can be identified to implementing partners.	Source Identification Activities	Planned	Not provided	Blackwater Creek; Lower Hillsborough River; New River; Spartman Branch, Baker Creek, Flint Creek	N/A	Not provided	EPCHC
Polk County	N/A	BWC-048	Stormwater Inlet Labeling	Affix "Do Not Dump" decals on stormwater inlets.	Stormwater	Completed	2015	Blackwater Creek	N/A	\$1,000	County
Polk County	N/A	BWC-049	SSO Database	Maintain database of reported SSOs.	Sanitary Sewer	Completed	2015	Blackwater Creek	Not provided	Not provided	County

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Polk County	FDOH	BWC-049	Public Education Septic System Program	Flyers provided with septic system permits.	OSTDS	Completed	2015	Blackwater Creek	Not provided	Not provided	County/ FDOH
Polk County	N/A	BWC-049	MS4 Outfall Inventory	MS4 outfall inventory.	Stormwater	Completed	Not provided	Blackwater Creek	Not provided	Not provided	County
Polk County	N/A	BWC-050	Environmental Public Education Programs at Circle B Preserve	Student ecology programs given at Circle B Preserve.	Stormwater	Completed	2015	Blackwater Creek	Not provided	\$60,000	County
Polk County	N/A	BWC-050	Fertilizer Ordinance	Fertilizer ordinance implementation.	Stormwater	Completed	2013	Blackwater Creek	Not provided	Not provided	County
Polk County	N/A	BWC-051	Sanitary Sewer Line Maintenance Program	Inspect and repair sanitary sewer lines (1.5 mi in Blackwater Creek)	Sanitary Sewer	Completed	2015	Blackwater Creek	Not provided	Not provided	County
Polk County	N/A	BWC-058	Inspection of Stormwater at Industrial Facilities	Stormwater inspections at industrial facilities.	Stormwater	Completed	2015	Blackwater Creek	Not provided	\$1,200	County General Fund
Polk County	N/A	BWC-059	Sanitary Sewer Line I&I Program	Conduct I&I testing on sewer lines (1.5 mi in Blackwater Creek).	Sanitary Sewer	Completed	2015	Blackwater Creek	Not provided	Not provided	County
Polk County	N/A	BWC-060	Septic System Complaint Response	Respond to complaints; coordinate with FDOH and county code enforcement staff.	Sanitary Sewer	Completed	2015	Blackwater Creek	Not provided	Not provided	County
City of Lakeland	BMAP Stakeholders	COL-284	Participate in Hillsborough Tributaries BMAP Monitoring Team (HTBMT) Calls and Efforts	Continue participation in Hillsborough River and Tributaries Assessment Team (HRTAT) coordination calls and other related efforts.	Source Identification Activities	Completed	2015	City of Lakeland	Not provided	Not provided	City
City of Lakeland	N/A	COL-285	Source Identification Follow Up	Assist DEP in following up on source identification results that indicate human source.	Source Identification Activities	Completed	2015	City of Lakeland	Not provided	Not provided	City
City of Lakeland	N/A	COL-286	Sample Analysis	Monthly monitoring of up to 2 stations, with adjustments made as needed, and follow up on high counts per HRTAT protocol. Samples will be analyzed for both fecal coliform and <i>E. coli</i> .	Source Identification Activities	Completed	2015	City of Lakeland	Not provided	Not provided	City
City of Lakeland	N/A	COL-288	Tributary Clean Up and Search for Illicit Connections	Promote community awareness of waterbodies' health, organize annual community clean ups, and inspect for illicit connections. Provide FDACS with locations of bovine access to creeks.	Stormwater	Completed	2015	City of Lakeland	Not provided	Not provided	City
City of Lakeland	N/A	COL-290	Follow-up to 2014 Walk the WBID	City staff followed up with industrial facilities to discuss stormwater pollution prevention.	Source Identification Activities	Completed	2015	City of Lakeland	Not provided	Not provided	City
City of Plant City	BMAP Stakeholders	COPC-284	Participate in HTBMT Calls and Efforts	Participation in monthly HTBMT coordination calls and other HTBMT efforts.	Source Identification Activities	Completed	2015	City of Plant City	Not provided	Not provided	City
City of Plant City	N/A	COPC-285	Source Identification Follow Up	Assist DEP in following up on source identification results that indicate human source.	Source Identification Activities	Completed	2015	City of Plant City	Not provided	Not provided	City
City of Plant City	N/A	COPC-286	Assistance with Sample Analysis	Assistance with BMAP monitoring for fecal coliform, with adjustments made as needed, and follow up on high counts per HRTAT protocol.	Source Identification Activities	Completed	2015	City of Plant City	Not provided	Not provided	City
City of Plant City	N/A	COPC-288	Non-MS4 Tributary Search for Illicit Connections	Prioritize segments of creeks based on land use and historical problems. Inspect priority segments annually or more often	Stormwater	Completed	2015	City of Plant City	Not provided	Not provided	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				as needed to look for illicit connections on banks of tributary.							
City of Plant City	N/A	COPC-289	Implement Procedures to Maintain Stormwater Flow to Tributaries	Procedures to ensure stormwater projects return water to streams when designing stormwater treatment and flood prevention and relief projects.	Stormwater	Completed	2015	City of Plant City	Not provided	Not provided	City
City of Plant City	N/A	COPC-290	Walk the WBID Follow Up	Address action items identified as result of 2014 Walk the WBID.	Source Identification Activities	Completed	2015	City of Plant City	Not provided	Not provided	City
City of Plant City	N/A	COPC-291	Alleyway Sanitary Sewer Lining Project	Sewer lining for problematic lines in designated alleyways.	Sanitary Sewer	Completed	2016	City of Plant City	\$1,581,500	N/A	City
City of Tampa	BMAP Stakeholders	COT-284	Participate in HTBMT Calls and Efforts	Participation in monthly HTBMT coordination calls and other HTBMT efforts.	Source Identification Activities	Completed	2015	City of Tampa	Not provided	Not provided	City
City of Tampa	N/A	COT-285	Source Identification Follow Up	Assist DEP in following up on source identification results that indicate human source.	Source Identification Activities	Completed	2015	City of Tampa	Not provided	Not provided	City
City of Tampa	N/A	COT-286	Sample Analysis	Analyze 12 samples/yr for fecal coliform.	Source Identification Activities	Completed	2015	City of Tampa	Not provided	Not provided	City
City of Tampa	N/A	COT-288	Inspect and Inventory Sanitary Sewer Pop-Off Sites	Update GIS layer to reflect location of all pop-offs to Lower Hillsborough River; notate which have been plugged; inspect plugs	Sanitary Sewer	Completed	2015	City of Tampa	Not provided	Not provided	City
City of Tampa	N/A	COT-290	Walk the WBID Follow Up	Address action items identified as result of 2014 Walk the WBID.	Source Identification Activities	Completed	2015	City of Tampa	Not provided	Not provided	City
DEP	N/A	DEP-001	WWTF Follow-Up	Inspect WWTFs in Blackwater Creek and New River Watersheds, outside Hillsborough County.	Sanitary Sewer	Completed	2015	Hillsborough River Basin	Not provided	Not provided	DEP
DEP	N/A	DEP-002	Source Identification Monitoring for Human Waste Indicators	Actively monitor BMAP WBIDs for human waste sources. Follow up on human waste sources identified with cooperation of local entities to eliminate identified sources.	Source Identification Activities	Completed	2015	Hillsborough River Basin	Not provided	Not provided	DEP
DEP	BMAP Stakeholders	DEP-003	Facilitate HTBMT Calls and Efforts	Facilitate participation in HTBMT coordination calls and other HTBMT efforts.	Source Identification Activities	Completed	2015	Hillsborough River Basin	Not provided	Not provided	FDOH
FDOH	N/A	DOH-100	Source Identification Follow Up	Assist DEP in following up on source identification results that indicate human source.	Source Identification Activities	Completed	2015	Hillsborough River Basin	Not provided	Not provided	FDOH
FDOH	BMAP Stakeholders	DOH-101	Participate in HTBMT Calls and Efforts	Continue participation in HTBMT coordination calls and other HTBMT efforts.	Source Identification Activities	Completed	2015	Hillsborough River Basin	Not provided	Not provided	FDOH
FDOH	N/A	DOH-102	Florida Water Management Inventory	Identify drinking water source and wastewater treatment method for all built parcels in BMAP study area. Reporting will consist of GIS maps and summary tables.	Source Identification Activities	Completed	2017	Hillsborough River Basin	\$50,000	N/A	FDOH



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
FDACS	N/A	FDACS-001	Source Identification Follow Up	Assist DEP in following up on source identification results that indicate human source.	Source Identification Activities	Completed	2015	Hillsborough River Basin	Not provided	Not provided	FDACS
FDOT	N/A	FDOT-001	IDDE Training	Mandatory IDDE training for FDOT staff and contractors.	Stormwater	Completed	2015	Hillsborough River Basin	Not provided	Not provided	FDOT
Hillsborough County	BMAP Stakeholders	HCPWD-284	Participate in HTBMT Calls and Efforts	Participate in monthly HTBMT coordination calls and other HTBMT efforts.	Source Identification Activities	Completed	2015	Throughout Hillsborough County	Not provided	Not provided	County
Hillsborough County	N/A	HCPWD-285	Source Identification Follow Up	Assist DEP in following up on source identification results that indicate human source.	Source Identification Activities	Completed	2015	Throughout Hillsborough County	Not provided	Not provided	County
Hillsborough County	N/A	HCPWD-290	Walk the WBID Follow Up	Address any action items identified as result of 2014 Walk the WBID.	Source Identification Activities	Completed	2015	Throughout Hillsborough County	Not provided	Not provided	County
Hillsborough County	N/A	HCPWD-291	Public Education	Operate countywide public education programs and support existing regional programs.	Stormwater	Completed	2015	Throughout Hillsborough County	Not provided	Not provided	County
City of Tampa	USF/ Hillsborough County	LHR-009	City of Tampa Interactive Watershed Atlas	USF was contracted to develop interactive, web-based Watershed Atlas for city. This comprehensive data resource helps citizens and scientists make informed decisions on water resources. Educational elements are built into atlas informing public of stormwater system, pollution, and TMDL activities. Beginning in 2009, USF will be contracted to continually update and improve content and public education in atlas.	Stormwater	Completed	2010	Lower Hillsborough River	\$35,000	\$25,000	City
Hillsborough County	SWFWMD	LHR-010	10 Adopt-a-Ponds in Lower Hillsborough River (LHR) Watershed	Pond restoration and environmental education.	Stormwater	Completed	2004	Lower Hillsborough River	N/A	\$138,000	Specialized Services Unit Operating Budget
City of Tampa	N/A	LHR-011	North Tampa Pond Enlargements – Orchid Sink Retention Pond	Stormwater Dept. constructed retention pond at Orchid Sink to help improve drainage that treats 160 ac of residential land. Orchid Sink eventually drains to Lower Hillsborough River. Project is currently maintained by Tampa Stormwater Dept.	Stormwater	Completed	2002	Lower Hillsborough River	\$1,300,000	Not provided	City General Fund
City of Tampa	N/A	LHR-012	Lowry Park Zoo Stormwater Rehabilitation	Construction of 2-ac wet detention system to treat runoff from 100-ac basin.	Stormwater	Completed	2002	Lower Hillsborough River	\$345,000	Not provided	City General Fund
Hillsborough County	N/A	LHR-013	Stormwater Research Facility at 132nd St. and Taliaferro	Stormwater Dept. constructed retention pond along Sligh Ave. in Lowry Park Zoo. Retention pond accepts drainage from ditch via west, provides treatment to this drainage, and then discharges via ditch to Lower Hillsborough River.	Stormwater	Completed	2009	Lower Hillsborough River	\$1,400,000	Not provided	Not provided
City of Temple Terrace	FDOT/ SWFWMD SWIM	LHR-014	FDOT 56th St. Retrofit	Installation of CDS unit into existing stormwater system.	Stormwater	Completed	2003	Lower Hillsborough River	Not provided	Not provided	FDOT/ SWFWMD SWIM

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
City of Tampa	N/A	LHR-015	Tampa–Wastewater Collection System Study	Wastewater Dept. conducted comprehensive survey of wastewater collection system to prioritize areas that should be scheduled for replacement, relining, and/or repair. Study factored in prior occurrences of wastewater overflows and bypasses.	Sanitary Sewer	Completed	2007	Lower Hillsborough River	Not provided	Not provided	City
City of Tampa	N/A	LHR-016	Nebraska SR 69 to Hillsborough Ave. Pipeline Improvements	FDOT will construct improvements along Nebraska Ave. between SR 60 and Hillsborough Ave. Wastewater Dept. has identified several defects in gravity sewers in this corridor that could cause failures that would damage new roadway. To prevent possible damage to roadway, Wastewater Dept. plans to rehabilitate defective pipelines. Failure of these pipelines could also cause wastewater overflow that could enter Hillsborough River through stormwater collection system.	Sanitary Sewer	Planned	Not provided	Lower Hillsborough River	Not provided	Not provided	City Wastewater Enterprise Fund
City of Tampa	N/A	LHR-017	Tampa–Emergency Generators at Hanna Pump Station	Backup emergency generators installed to maintain Hanna pump station in event of power outage. This will prevent overflows and bypasses directly to Hillsborough River.	Sanitary Sewer	Completed	2007	Lower Hillsborough River	\$265,000	Not provided	City Wastewater Enterprise Fund
City of Tampa	Not provided	LHR-018	Tampa–Grease Ordinance	City enacted grease ordinance that prohibits discharge of grease and establishes inspection program for businesses. Grease ordinance should significantly reduce number of blockages that contribute to overflows. Enforcement of grease ordinance is supported by 2 full-time equivalent (FTE) positions funded by city's Wastewater Enterprise Fund.	Sanitary Sewer	Completed	2006	Lower Hillsborough River	N/A	\$100,000	Not provided
City of Tampa	N/A	LHR-019	12th St. Force Main Replacement	Force main replacement along 12th St. in area where there was 22-mg release in past.	Sanitary Sewer	Completed	2007	Lower Hillsborough River	\$17,000,000	N/A	City of Tampa
City of Tampa	FDOT District 7/ SWFWMD	LHR-020	River Tower Park Shoreline Restoration and Stormwater Improvements	City will restore northern bank of Hillsborough River from I-275 to Florida Ave. Project will stabilize bank, provide habitat, and improve water quality. Project will also include stormwater treatment controls for runoff from I-275 and contributing drainage area.	Stormwater	Planned	Not provided	Lower Hillsborough River	\$2,100,000	Not provided	City of Tampa/ FDOT
City of Tampa	Not provided	LHR-021	City of Tampa Riverwalk Project	Tampa Riverwalk project will create 15-foot walkway and bike path along east banks of Hillsborough River and Garrison Channel. Pedestrian-friendly walkway will be 2.2 mi long and will integrate various activities and destinations in downtown area by linking them with attractive	Stormwater	Planned	Not provided	Lower Hillsborough River	\$40,000,000	Not provided	City, State, Federal, Private funds

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				promenade with vibrant public art. Project will provide significant opportunities for public to connect with river. To benefit from this opportunity, city will construct public educational displays and information on stormwater control and treatment, and on importance of cleaning up pet waste. Stations will be constructed for dog waste cleanup and disposal.							
Hillsborough County	N/A	LHR-022	Claonia-May Stormwater Pond	Long detention pond with skimmer.	Stormwater	Completed	2000	Lower Hillsborough River	\$160,000	Not provided	CIP Project Monies
Hillsborough County	Not provided	LHR-023	Curiosity Creek Phase III	Not provided.	Stormwater	Completed	2004	Lower Hillsborough River	\$567,000	Not provided	Not provided
Hillsborough County	Not provided	LHR-024	Sharon Dr. Stormceptor™	Not provided.	Stormwater	Completed	2002	Lower Hillsborough River	\$112,000	Not provided	Not provided
Hillsborough County	Not provided	LHR-025	58th St. and 122nd Ave. Retention Pond	Not provided.	Stormwater	Completed	2002	Lower Hillsborough River	\$456,000	Not provided	Not provided
EPCHC	DEP/ City of Tampa	LHR-029	Tracking of City of Tampa Consent Order	Track progress of City of Tampa consent order addressing SSOs and other problems with sanitary sewer collection system; target completion date is 2012. Consent Order completed April 16, 2013.	Sanitary Sewer	Completed	2013	Lower Hillsborough River	N/A	\$1,750	EPCHC Budget
DEP	SWFWMD from 1999–2004; all monitoring now conducted by DEP	LHR-031	Surface Water Temporal Variability Network Monitoring Site	Sampling at site is part of multiyear temporal variability (Trend) monitoring network that consists of 13 surface water sites (SWTV) and 11 groundwater sites (GWTV) within SWFWMD boundary. Sites are part of Surface Water Temporal Variability Network in DEP's Watershed Monitoring Program. Data from this fixed station design network are used to examine changes in water quality and flow over time throughout area, and are used in concert with Status Network (random surface water and groundwater stations) to provide scientifically defensible information on important chemical, physical, and biological characteristics of surface waters and major aquifer systems of area/basin and state. Both networks are designed to measure condition using variety of threshold values. Resources monitored by temporal variability monitoring network include rivers, streams, and confined and unconfined aquifers. Data on fecal coliform and Enterococci levels from Hillsborough River surface water site (Station # FLO 13 33 0) are available from DEP.	Source Identification Activities	Completed	1999	Lower Hillsborough River	N/A	\$385,000	EPA 694 funds

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
EPCHC	Not provided	LHR-033, SBF-024	Bacterial Contamination Complaint Response to HCHD	Bacterial contamination complaints received by EPCHC possibly caused by septic system failure; complaints forwarded to HCHD for follow up.	OSTDS	Completed	2009	Lower Hillsborough River; Spartman Branch, Baker Creek, Flint Creek	Not provided	Not provided	Not provided
City of Tampa	SWFWMD/ FDOT	LHR-034	Robles Park Water Quality and Natural Systems Improvement	Not provided.	Stormwater	Planned	Not provided	Lower Hillsborough River	Not provided	Not provided	Not provided
FDOT	City of Tampa	LHR-036	Street Sweeping Curb and Bridge Roadway Sections	Street sweeping of all interstate roadway sections with curb and bridges in Hillsborough County, and street sweeping of all FDOT roadways with curb in City of Tampa.	Stormwater	Completed	2009	Lower Hillsborough River	N/A	Not provided	FDOT
City of Tampa	FDOT	LHR-036	City of Tampa Street Sweeping Maintenance	Regularly scheduled street sweeping in residential and business areas with curb and gutter. Residential area sweeping covers about 1,860 CM. Commercial area covers about 140 CM.	Stormwater	Completed	2015	Lower Hillsborough River	N/A	Not provided	City Stormwater Utility/ FDOT
FDOT	N/A	LHR-037, SBF-025	Public Education Program for Tampa Bay Regional Planning Council	Provide variety of program components targeting school age children, working residents, retirees, and all those in between. Key element of this regional education effort is "Bay Soundings," quarterly news journal that provides full range of public education and scientific information on watershed management.	Stormwater	Completed	1996	Lower Hillsborough River; Spartman Branch, Baker Creek, Flint Creek	N/A	\$115,000	FDOT
City of Tampa	N/A	LHR-039	North Blvd. Siphon Rehabilitation Project	Project includes rehabilitation of 300 LF of 24-in diameter CIPP gravity sewer line and 770 LF of 20-in diameter CIP siphon at North Blvd. Bridge River Crossing (North Blvd. and Ross Ave.). Work also includes rehabilitation of 1 inlet structure. Project should take 4 to 6 wks to complete.	Sanitary Sewer	Completed	2009	Lower Hillsborough River	\$350,000	N/A	City
City of Tampa	N/A	LHR-040	Manhole Rehabilitation Project	City has 2 contracts for manhole rehabilitation: (1) insertion of fiberglass liner into existing manhole; and (2) application of calcium aluminate cementitious structural coating system that is sprayed onto existing walls of manhole. Project locations are identified routinely.	Sanitary Sewer	Completed	2007	Lower Hillsborough River	N/A	\$750,000	City
City of Tampa	SWFWMD	LHR-041	Urban Lake Rescue – Lake Roberta	With funding from SWFWMD, city installed NSBB to capture pollutants in stormwater before they entered Lake Roberta. Additionally, exotic vegetation was removed and littoral shelf was planted with arrowhead and pickerelweed. Engineering controls were constructed in lake to improve residence time for stormwater treatment.	Stormwater	Completed	2008	Lower Hillsborough River	\$272,000	Not provided	SWFWMD Cooperative Funding (City 50 % Match)
City of Tampa	FDOT	LHR-042	Downstream Defender – Lake Roberta	On west side of Lake Roberta, stormwater drainage from Nebraska Ave. contributes	Stormwater	Completed	2006	Lower Hillsborough River	\$140,000	Not provided	City



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				large amount of trash and debris. City and FDOT partnered to install sediment and trash collection divide to treat stormwater prior to entering lake. Offline unit, Downstream Defender, was installed and is being maintained by Tampa Stormwater Dept.							Stormwater Utility/ FDOT
City of Tampa	FDOT	LHR-043	Epps Park Sediment Trap Installation	City in partnership with FDOT installed series of 6 sediment traps near Epps Park. Sediment traps capture trash and debris, preventing these materials from being discharged to Hillsborough River. Tampa Stormwater Dept. crews maintain and operate sediment traps, removing debris on routine basis.	Stormwater	Completed	2003	Lower Hillsborough River	\$350,000	Not provided	City Stormwater Utility/ FDOT
City of Tampa	FDOT/ SWFWMD	LHR-044	Robles Park Drainage Improvements (City of Tampa)	City of Tampa, FDOT, and SWFWMD are planning drainage improvements, water quality treatment, and park improvements to Robles Park, located in Tampa Heights neighborhood of Central Tampa. Project cooperators are compiling conceptual improvements that will be part of overall project but will likely include flood relief and stormwater quality treatment. Each entity will likely contribute funds for improvements as 50 % match with SWFWMD funds.	Stormwater	Planned	Not provided	Lower Hillsborough River	\$500,000	Not provided	SWFWMD Cooperative Funding/ FDOT and City Match
City of Tampa	FDOT	LHR-045	City of Tampa Street Sweeping Maintenance	Regularly scheduled street sweeping in residential and business areas with curb and gutter. Residential area sweeping covers 1,860 CM. Commercial area covers 140 CM.	Stormwater	Completed	2009	Lower Hillsborough River	Not provided	Not provided	City Stormwater Utility/ FDOT
City of Temple Terrace	Not provided	LHR-046	Broadway Outfall CDS Unit	Installed CDS unit into existing stormwater system.	Stormwater	Completed	2001	Lower Hillsborough River	Not provided	Not provided	Not provided
Hillsborough River Watershed Alliance (HRWA)	SWFWMD	LHR-048	HRWA	This nonprofit organization educates citizens on value of Hillsborough River Watershed. Undertakes water quality runoff studies from various land uses along river.	Stormwater	Completed	1994	Lower Hillsborough River	N/A	\$30,000	Multiple Sources, including SWFWMD
City of Tampa	SWFWMD	LHR-051	Reed Restoration	Located on Emma St., off North Blvd., north of Martin Luther King Blvd. Shoreline restoration, bank stabilization, and stormwater detention.	Stormwater	Completed	2007	Lower Hillsborough River	\$750,000	N/A	SWFWMD/ City
City of Tampa	SWFWMD	LHR-052	Lake Edna	Distribution of stormwater education brochures to residents in watershed.	Stormwater	Completed	2005	Lower Hillsborough River	\$2,000	N/A	SWFWMD/ City
City of Tampa	SWFWMD	LHR-053	River Garden	Located on Columbus Ave. and Rome Ave. Shoreline restoration and bank stabilization.	Stormwater	Completed	2003	Lower Hillsborough River	\$1,100,000	N/A	SWFWMD/ City
City of Tampa	SWFWMD	LHR-054	30th and Hillsborough Water Quality Improvements	Located on 30th and Hillsborough Ave. Stormwater detention pond.	Stormwater	Completed	2011	Lower Hillsborough River	\$800,000	N/A	SWFWMD/ City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
SWFWMD	Hillsborough County Public Schools	LHR-055	Stewart Middle School Shoreline Restoration	Located on Spruce St. north of North Blvd. Shoreline restoration and bank stabilization.	Stormwater	Completed	2008	Lower Hillsborough River	\$250,000	\$500	SWFWMD/ County Public Schools
City of Tampa	N/A	LHR-056	Cypress St. Outfall	Construction of box culvert at Cypress St. outfall to North Blvd; large junction box at North Blvd. and Cypress St.; and dual box culvert from North Blvd. to Cass St. with stub-out at Cass St. to serve future stormwater upgrades.	Stormwater	Completed	2016	Lower Hillsborough River	\$10,000,000	N/A	City
City of Tampa	Not provided	LHR-057	30th St. Outfall	City is evaluating purchase of property on east side of outfall. Intent is to enlarge discharge channel and, if necessary, construct larger outfall structure to accommodate future pipes.	Stormwater	Planned	Not provided	Lower Hillsborough River	\$500,000	N/A	Not provided
City of Tampa	N/A	LHR-058	New Orleans/11th St. Pond	Construction of stormwater pond.	Stormwater	Completed	2011	Lower Hillsborough River	\$150,000	N/A	City
City of Tampa	N/A	LHR-059, LHR-061	Box Culvert Miscellaneous Rehabilitation	Repair major culverts within roadways prior to resurfacing or rebuilding roads.	Stormwater	Completed	2017	Lower Hillsborough River	\$750,000	N/A	City
City of Tampa	N/A	LHR-060	Idell St. Roadway Improvements	Construction of roadway features, stormwater laterals, new inlets and pond to convey runoff to Hillsborough River.	Stormwater	Completed	2015	Lower Hillsborough River	\$100,000	N/A	City
City of Tampa	N/A	LHR-062	Collection System Repair Contract	Collection system repairs throughout city.	Sanitary Sewer	Completed	2008	Lower Hillsborough River	N/A	\$1,000,000	City
City of Tampa	N/A	LHR-063	CIPP Rehabilitation	Pipe rehabilitation throughout city.	Sanitary Sewer	Completed	2006	Lower Hillsborough River	N/A	\$1,000,000	City
City of Tampa	N/A	LHR-067	Mulberry Pump Station Rehabilitation	Pump station rehabilitation on Mulberry Dr. next to river.	Sanitary Sewer	Planned	2018	Lower Hillsborough River	\$600,000	N/A	City
City of Tampa	N/A	LHR-068	Pump Station SCADA Improvements	SCADA improvements throughout city.	Sanitary Sewer	Completed	2014	Lower Hillsborough River	N/A	\$100,000	City
City of Tampa	N/A	LHR-069	Louisiana Pump Station Rehabilitation	Pump station rehabilitation on Louisiana Ave. next to river.	Sanitary Sewer	Planned	2017-2018	Lower Hillsborough River	\$6,000,000	N/A	City
City of Tampa	N/A	LHR-071	Oak Pump Station Replacement	Replace pump station on Oak Ave. next to river.	Sanitary Sewer	Planned	2017-2018	Lower Hillsborough River	\$300,000	N/A	City
City of Tampa	N/A	LHR-072	Watrous Canal Rehabilitation	Improvement of ditch system to extend useful life of ditch and improve conveyance of storm flows from drainage basin.	Stormwater	Completed	2017	Lower Hillsborough River	\$2,250,000	N/A	City
City of Tampa	N/A	LHR-073	Krause Pump Station Rehabilitation	Pump station rehabilitation located on Ashley Dr. downtown next to river	Sanitary Sewer	Completed	2016	Lower Hillsborough River	\$6,000,000	N/A	City
City of Tampa	N/A	LHR-074	Rowlett Park Dr. Ditch Stabilization	Emergency project to rebuild eroded drainage ditch and exposed water pipe at outfall to river.	Stormwater	Completed	2016	Lower Hillsborough River	\$260,000	N/A	City
City of Tampa	N/A	LHR-075	Ditch Stabilization Project	Project will repair eroded ditch banks and install stabilization material at 6 locations in city.	Stormwater	Planned	Not provided	Lower Hillsborough River	\$1,000,000	N/A	City
City of Tampa	N/A	LHR-076	Riverside Pipe Relocation	Project will eliminate 2 direct stormwater pipes to river and divert flow through existing treatment system prior to discharge.	Stormwater	Planned	Not provided	Lower Hillsborough River	\$125,000	N/A	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
City of Tampa	N/A	LHR-077	Perry Ave. Siphon Hydraulic Modeling	Siphon hydraulic modeling along river from Perry Ave. to downtown.	Stormwater	Completed	2016	Lower Hillsborough River	\$50,000	N/A	City
TBEP	Not provided	LHR-47	Pooches for the Planet	TBEP developed pilot project in small neighborhood park using poster/map that showed locations of dog waste piles. Locations were recorded with GPS during initial visual assessment and used monthly as key educational tool at park information station. Information resulted in significant decline in number of dog waste piles recorded in park since start of project.	Stormwater	Completed	2001	Lower Hillsborough River	\$5,000	N/A	Not provided
HCHD	Not provided	NR-006	Septic System 200-Ft Setback for Hillsborough River—Potable Supply Protection	Implement setback requirement when issuing septic system permits.	OSTDS	Completed	Prior to 2009	New River	N/A	\$2,000	Not provided
Hillsborough County	Not provided	NR-007	Hillsborough County Land Development Code (Section 4.01.16)—Septic System Setback	In 2006, Hillsborough Land Development Code was amended and Section 4.01.16, River Protection, was added; it requires 200-ft setbacks to Hillsborough, Alafia, and Little Manatee Rivers, and their primary tributaries.	OSTDS	Completed	2006	New River	Not provided	N/A	Not provided
EPCHC	Hillsborough County Public Works Dept./ SWFWMD	NR-014	Fecal Coliform Quarterly Monitoring—Hillsborough County	EPCHC has maintained extensive, comprehensive water quality monitoring program with network of stations throughout Hillsborough County and Tampa Bay since 1974. All sample collection and analysis are conducted in accordance with DEP rules and guidance. EPCHC staff collect monthly water quality samples that are analyzed for bacterial contamination—i.e., fecal coliform and enterococci—at 38 locations in Hillsborough River Basin. EPCHC also collects bacteria samples from 30 locations representing major and minor tributaries of Hillsborough River; 11 of these are sampled monthly, and 19 locations represent minor tributaries and are sampled quarterly.	Source Identification Activities	Completed	Prior to 2009	New River	N/A	\$190	Hillsborough County
TBEP	Not provided	NR-020, SBF-036	Annual Progress Report Coordination	On an annual basis, TBEP will coordinate development of brief update summarizing bacteriological monitoring data and updated project status, including (1) collating updated project descriptions from BMAP partners, (2) working with EPCHC to develop annual monitoring report, (3) convening annual meeting of BMAP Basin Working Group (BWG) and Technical Stakeholders (TS) to review and approve annual update, and (4) identifying any additional action needed to maintain progress towards meeting fecal coliform	Source Identification Activities	Planned	Not provided	New River; Spartman Branch, Baker Creek, Flint Creek	N/A	\$1,000	Not provided

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				TMDLs in these 6 Hillsborough River segments.							
Pasco County	BMAP Stakeholders	PC-284	Participate in HTBMT Calls and Efforts	Participate in monthly HTBMT coordination calls.	Source Identification Activities	Completed	2015	Pasco County	Not provided	Not provided	County
Pasco County	N/A	PC-285	Source Identification Follow Up	Assist DEP in following up on source identification results that indicate a human source.	Source Identification Activities	Completed	2015	Pasco County	Not provided	Not provided	County
Pasco County	N/A	PC-286	Assistance with Sample Analysis	Carry out BMAP monitoring for fecal coliform, with adjustments made as needed, and follow up on high counts per HTBMT protocol.	Source Identification Activities	Completed	2015	Pasco County	Not provided	Not provided	County
Pasco County	N/A	PC-288	MS4 Permit Implementation	Continue proactive IDDE Program and respond to citizen complaints regarding potential illicit connections. Continue ongoing public education efforts.	Stormwater	Completed	2015	Pasco County	Not provided	Not provided	County
Pasco County	N/A	PC-290	Walk the WBID Follow Up	Address any action items identified as result of 2014 Walk the WBID.	Source Identification Activities	Completed	2015	Pasco County	Not provided	Not provided	County
Hillsborough County	N/A	PH2-006	Lake and Stream Management Program	Provides education and technical assistance about water quality and natural system health to waterfront homeowners in unincorporated Hillsborough County. Contracts Florida LakeWatch to provide increased service to lake residents in Hillsborough County. Funds small water quality projects in cooperation with residents.	Stormwater	Completed	2015	Hillsborough County	Not provided	Not provided	County
Hillsborough County	N/A	PH2-009	Tools for Public Reporting of Illicit Discharges	Anonymous reporting of pollution via county website.	Stormwater	Completed	2015	Hillsborough County	Not provided	Not provided	County
Polk County	BMAP Stakeholders	POLK COUNTY-284	Participate in HTBMT Calls and Efforts	Continue participation in HTBMT coordination calls and other HTBMT efforts.	Source Identification Activities	Completed	2015	Polk County	Not provided	Not provided	County
Polk County	N/A	POLK COUNTY-285	Source Identification Follow Up	Assist DEP in following up on source identification results that indicate human source.	Source Identification Activities	Completed	2015	Polk County	Not provided	Not provided	County
Polk County	N/A	POLK COUNTY-286	Water Quality Sample Analysis	Quarterly monitoring of Station BLACKWATER Crk2, with adjustments made as needed, and follow up on high counts per HRTAT protocol. Samples are analyzed for both fecal coliform and <i>E. coli</i> .	Source Identification Activities	Completed	2015	Polk County	Not provided	Not provided	County
Polk County	N/A	POLK COUNTY-288	Tributary Clean Up and Search for Illicit Connections	Promote community awareness of waterbodies' health and inspect for illicit connections. Provide FDACS with locations of horse and livestock access to creeks.	Stormwater	Completed	2015	Polk County	Not provided	Not provided	County

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Polk County	N/A	POLK COUNTY-290	Walk the WBID Follow Up	Address action items identified during 2014 Walk the WBID.	Source Identification Activities	Completed	2015	Polk County	Not provided	Not provided	County
Hillsborough County	SWFWMD	SBF-011	Emerald Lakes Adopt-A-Pond	Pond restoration and environmental education.	Stormwater	Completed	2004	Spartman Branch, Baker Creek, Flint Creek	N/A	\$138,000	Specialized Services Unit Operations Budget
City of Plant City	SWFWMD	SBF-012	Lake Thonotosassa Diagnostic Assessment and Water Quality Treatment Project	Objective of project is to evaluate feasibility of implementing stormwater treatment system to treat mixture of stormwater and highly treated reclaimed water before discharging into Westside Canal. If determined feasible, project has potential to improve water quality in Westside Canal and ultimately Lake Thonotosassa. Westside Canal discharges into Pemberton/Baker Creek, tributary to Lake Thonotosassa, which is SWIM priority waterbody.	Stormwater	Canceled	N/A	Spartman Branch, Baker Creek, Flint Creek	\$100,000	N/A	Utilities Revenues/ Grant (SWFWMD Cooperative Funding)
Hillsborough County	SWFWMD	SBF-013	4 Adopt-a-Ponds in Baker-Spartman-Flint Watersheds	Pond restoration and environmental restoration.	Stormwater	Completed	2006	Spartman Branch, Baker Creek, Flint Creek	N/A	\$138,000	Specialized Services Unit Operations Budget
Hillsborough County	N/A	SBF-015	Pemberton Creek Stormwater Improvements	Created 5-ac water treatment pond.	Stormwater	Completed	2005	Spartman Branch, Baker Creek, Flint Creek	\$992,000	Not provided	Capital Improvement Tax (CIT) II
City of Plant City	SWFWMD	SBF-016	Pistol Range Stormwater Retrofit Project	Diversion of flow from about 620 acres through reconfigured borrow pit system to provide treatment prior to discharge into Pemberton Creek and Spartman Branch. TN reduction is calculated at 2,809 lbs/yr.	Stormwater	Completed	2000	Spartman Branch, Baker Creek, Flint Creek	\$649,810	Not provided	SWFWMD
SWFWMD	Hillsborough County/ FDOT	SBF-017	Lake Thonotosassa Project	Project was designed to reduce TN, TP, and sediment load from 80 acres of agricultural lake to lake by treatment through constructed wetland and sedimentation basin.	Stormwater	Completed	1999	Spartman Branch, Baker Creek, Flint Creek	\$1,380,000	N/A	Not provided
Hillsborough County	Not provided	SBF-018	Valrico Forest Subdivision Pond	Construct 10-ac retention pond.	Stormwater	Planned	Not provided	Spartman Branch, Baker Creek, Flint Creek	\$607,000	Not provided	CIP/CIT Funds
EPCHC	Hillsborough County/ SWFWMD	SBF-021	Fecal Coliform Monitoring- Hillsborough County	EPCHC has maintained extensive, comprehensive water quality monitoring program with network of stations throughout Hillsborough County and Tampa Bay since 1974. All sample collection and analysis are conducted in accordance with DEP rules and guidance. EPCHC staff collect monthly water quality samples that are analyzed for bacterial contamination—i.e., fecal coliform and enterococci—at 38 locations in Hillsborough River Basin. EPCHC also	Source Identification Activities	Completed	1980s	Spartman Branch, Baker Creek, Flint Creek	N/A	\$4,563	Hillsborough County



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				collects bacteria samples from 30 locations representing major and minor tributaries of Hillsborough River; 11 of these are sampled monthly, and 19 locations represent minor tributaries and are sampled quarterly.							
City of Plant City	N/A	SBF-027	Plant City Grease Management Program	Inspect, monitor, and provide education to facilities that generate cooking oil and grease to ensure BMPs are in use and that pretreatment systems are being managed properly.	Sanitary Sewer	Completed	2009	Spartman Branch, Baker Creek, Flint Creek	N/A	\$50,000	City
City of Plant City	N/A	SBF-029	Plant City WWTP/ Lift Station Maintenance	Annual maintenance of WRF and all appurtenances.	Sanitary Sewer	Completed	2009	Spartman Branch, Baker Creek, Flint Creek	N/A	\$500,000	City
TBEP	BMAP Stakeholders	TBEP-101	Participate in HTBMT Calls and Efforts	Continue participation in HTBMT coordination calls and other HTBMT efforts.	Source Identification Activities	Completed	2015	Hillsborough River Basin	Not provided	Not provided	TBEP

## **Lower St. Johns River (LSJR) Tributaries BMAP I and II**

### ***Background***

Fecal coliform bacteria were identified as the primary pollutant causing impairment in portions of the LSJR Basin. In 2006, 2009, and 2010, DEP adopted fecal coliform TMDLs for 25 verified impaired waterbodies in Duval County, all in the LSJR Basin. The tributaries' watersheds are dense urban and suburban areas of the City of Jacksonville, Neptune Beach, Atlantic Beach, and Jacksonville Beach.

DEP adopted 2 BMAPs to implement the fecal coliform TMDLs in the basin. BMAP I was adopted in December 2009 and addresses the 10 most impaired tributaries. BMAP II was adopted in August 2010 and addresses the remaining 15 impaired tributaries. **Figures D-5 and D-6** show the locations of the BMAP I and II watersheds, respectively.

### ***Status of Projects***

From December 2009 through October 2016, 185 projects within the BMAP I WBIDs were reported as completed. Of these projects, 103 were implemented prior to BMAP adoption and 97 are ongoing, maintenance activities.

From August 2010 through October 2016, 508 projects within the BMAP II WBIDs were reported as completed. Of these projects, 351 were implemented prior to BMAP adoption and 152 are ongoing, maintenance activities.

**Frequency of Exceedance**

**Table D-8** lists the frequency of exceedance of the ten percent threshold fecal coliform criterion for the Cycle 2 assessment verified period (January 1, 2001, to June 30, 2008) (before BMAP adoptions in 2009 and 2010) and from January 1, 2009, to June 30, 2016, for the BMAP I and BMAP II waterbodies.

**Table D-8. Exceedance frequency for the Class III BMAP WBIDs**

NA = Too few samples to assess.

WBID Number	Waterbody Name	January 1, 2001, to June 30, 2008 % Exceedance	January 1, 2009, to June 30, 2016 % Exceedance
2240A	Greenfield Creek (Marine Segment)	17	NA
2203A	Trout River Lower Reach	21	25
2265C	Pottsburg Creek (Freshwater Segment)	27	35
2203	Trout River Middle Reach (Freshwater Segment)	44	35
2240B	Greenfield Creek (Freshwater Segment)	48	38
2265D	Pottsburg Creek (Marine Segment)	35	44
2227	Sherman Creek	36	45
2381	Cormorant Branch	56	48
2324	Fishing Creek	64	48
2326B	Goodbys Creek (Marine Segment)	62	48
2203B	Trout River Middle Reach (Marine Segment)	67	49
2256	Deer Creek	60	53
2282	Wills Branch (North Prong)	51	54
2299A	Open Creek (Marine Segment)	54	57
2228B	Moncrief Creek (Freshwater Segment)	54	59
2207	Blockhouse Creek	65	61
2326A	Goodbys Creek (Freshwater Segments)	46	61
2257	McCoy Creek	67	63
2299 B	Open Creek (Fresh Segment)	73	66
2266	Hopkins Creek	62	70
2304	Miramar Creek	94	71
2235	Newcastle Creek	80	71
2204	Terrapin Creek	71	73
2361	Deep Bottom Creek	88	73
2228A	Moncrief Creek (Marine Segment)	63	77
2280B	Big Fishweir Creek (Marine Segment)	88	77
2252	Hogan Creek	78	80
2316	Williamson Creek	73	83
2287	Miller Creek	86	89
2322	Butcher Pen Creek	92	91
2297	Craig Creek	83	94
2280A	Big Fishweir Creek (Freshwater Segment)	82	95



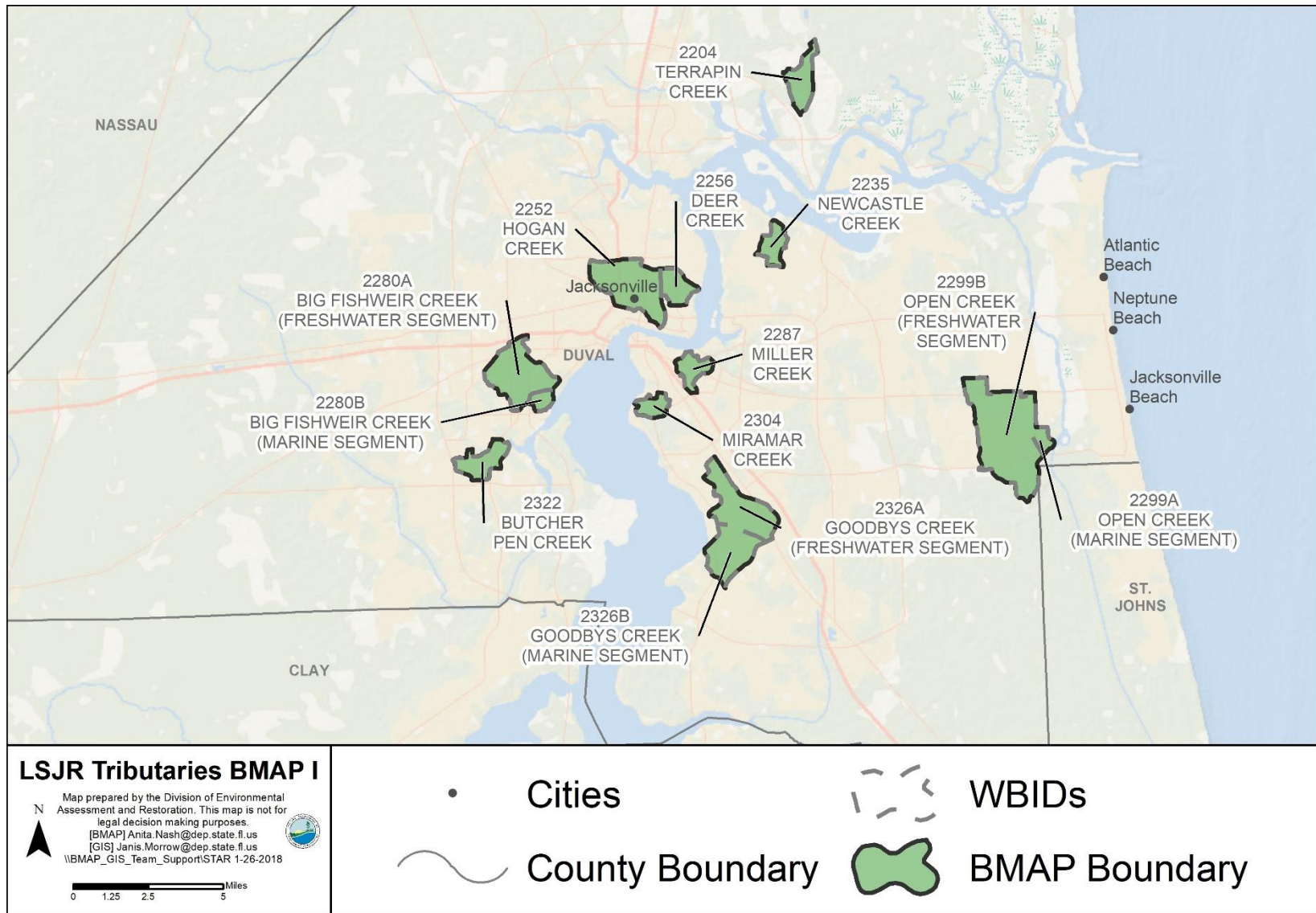


Figure D-5. LSJR Tributaries BMAP I WBIDs

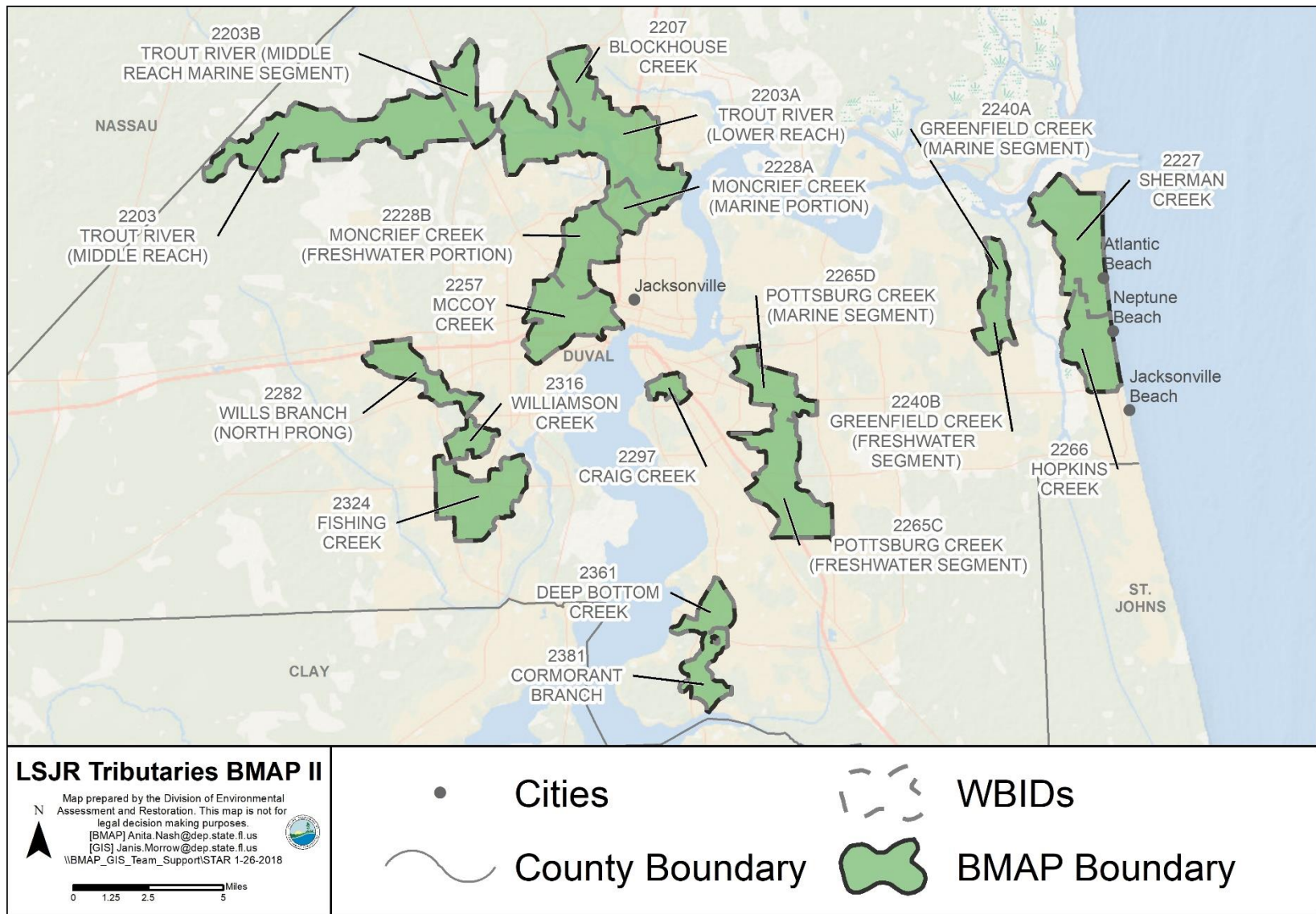


Figure D-6. LSJR Tributaries BMAP II WBIDs

**Table D-9. LSJR Tributaries BMAP I and II projects**

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Atlantic Beach	Property Owner	AB-001, AB-051	Septic Tank Inspections and Enforcement	When septic tanks fail, city code requires connection to sewer system, if available.	OSTDS	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	Not provided	N/A	Paid by Property Owner
Atlantic Beach	HUD	AB-002, AB-003	Septic Tank Phase Out	Septic-to-sewer resolution by City Commission requires connection at various dates. Includes Septic Conversion Assistance Policy, passed by City Commission in 2000. Provides city financing of septic-to-sewer conversions and contracting coordination and assistance.	OSTDS	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	\$39,000	N/A	CDBG/ Homeowners/ City
Atlantic Beach	N/A	AB-003	Sewer Line Upgrades	Repair sewer and manholes close to Lift Station E, near 799 Mayport Rd.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$49,170	N/A	City
Atlantic Beach	N/A	AB-004	Sewer Line Upgrades	Replace sewer force main at Mayport Rd. and Forrestal	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$10,000	N/A	City
Atlantic Beach	N/A	AB-005	Sewer Line Upgrades	Rehabilitate sanitary sewer in entire Royal Palms Subdivision using CIPP.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$747,143	N/A	City
Atlantic Beach	N/A	AB-006	Sewer Line Upgrades	Replace sewer main crossing drainage ditch near Lift Station F – behind 720 Aquatic Dr.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$10,715	N/A	City
Atlantic Beach	N/A	AB-007	Sewer Line Upgrades	Line sewer in easement from Donner Rd. to Stanley Rd., Donner Subdivision; includes 12 manholes lined.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$91,370	N/A	City
Atlantic Beach	N/A	AB-008	Sewer Line Upgrades	Replace force main from Lift Station C to WWTF – Donner Rd.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$94,257	N/A	City
Atlantic Beach	N/A	AB-009	Manhole Inspections and Rehabilitation	Rehabilitate/install Spectrashield coating of all manholes in Royal Palms Subdivision.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$81,653	N/A	City
Atlantic Beach	N/A	AB-010	Manhole Inspections and Rehabilitation	Conduct engineering analysis of failing manholes – Donner Subdivision.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$2,500	N/A	City
Atlantic Beach	N/A	AB-011	Manhole Inspections and Rehabilitation	Rehabilitate and replace manholes– Ardella Rd. area.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$36,135	N/A	City
Atlantic Beach	HUD	AB-012	Manhole Inspections and Rehabilitation	Rehabilitate and replace manholes – Donner Subdivision.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$58,205	N/A	CDBG
Atlantic Beach	N/A	AB-013	Manhole Inspections and Rehabilitation	Line manholes in easement from Donner to Stanley.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	Not provided	N/A	City
Atlantic Beach	N/A	AB-014	Manhole Inspections and Rehabilitation	Replace effluent outfall manhole at Mayport and Donner Rd.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$12,800	N/A	City
Atlantic Beach	N/A	AB-015, AB-170	Pump Station Inspections and Maintenance	Inspect and maintain daily Monday–Friday; all monitored by SCADA system with automatic callout 24 hrs/day, 7 days/wk, with technician on call; stations designed with redundancy; large stations have onsite emergency generators with automatic transfer switch; portable genset and	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	Not provided	City



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				pumps available for smaller stations; all mechanical/electrical problems are addressed immediately.							
Atlantic Beach	N/A	AB-016	Pump Station Inspections and Maintenance	Improve valves at Lift Stations C, E, F (65 Donner Rd., 799 Mayport Rd., 858 Cavalla Rd.).	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$40,000	N/A	City
Atlantic Beach	N/A	AB-017	Pump Station Inspections and Maintenance	Replace emergency generator at Cavalla Rd. Lift Station, 858 Cavalla Rd.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$24,000	N/A	City
Atlantic Beach	N/A	AB-018	Pump Station Inspections and Maintenance	Install SCADA system for all lift stations. Those in Hopkins Creek Watershed are Lift Stations C, E, and F (65 Donner Rd., 799 Mayport Rd., 858 Cavalla Rd.).	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$19,500	N/A	City
Atlantic Beach	N/A	AB-019	Preventive SSO Investigations	Clean and inspect, using CCTV, sewer main, ditch crossings near Lift Station E and F – behind 720 Aquatic Dr. and behind 39 Saratoga Cir. North.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$1,780	N/A	City
Atlantic Beach	N/A	AB-020, AB-098	Preventive SSO Investigations	Conduct I&I analysis of entire collection system, prepare GIS system, obtain global positioning system (GPS) locations of all manholes, analyze lift station needs, and make CIP recommendations.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	\$60,000	N/A	City
Atlantic Beach	N/A	AB-021	Preventive SSO Investigations	Clean and inspect, using CCTV, sewer mains crossing Mayport Rd.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$6,700	N/A	City
Atlantic Beach	N/A	AB-022, AB-103	Preventive SSO Investigations	Sewer Master Plan Update –Analyze entire sewer system for prioritizing capital improvement program, including review of I&I analysis.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	\$58,100	N/A	City
Atlantic Beach	N/A	AB-023, AB-104	Preventive SSO Investigations	Implement FOG Program to monitor grease trap maintenance at restaurants.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-024	1999 Stormwater Improvements Project	Implement flood-control capital projects and stormwater water quality BMPs on Donner Rd. and Aquatic Gardens.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$414,711	Not provided	City
Atlantic Beach	HUD	AB-025	Jordan St. Paving and Drainage	Implement flood-control capital projects located off Frances St., North Donner Rd.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$109,129	Not provided	CDBG
Atlantic Beach	Florida Legislature	AB-026	Hopkins Creek RSF	Implement stormwater water quality BMPs and flood-control project located just north of Atlantic Blvd., off Aquatic Dr.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$2,058,694	Not provided	City/ Legislative Appropriation
Atlantic Beach	Florida Legislature	AB-027	Hopkins Creek RSF	Carry out water sampling–Section 319 grant requires 1 yr of inlet and outlet water grab samples taken monthly; includes fecal coliform	Stormwater	Completed	Prior to 2010	Hopkins Creek	Not provided	Not provided	City/ Legislative Appropriation

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Atlantic Beach	N/A	AB-028, AB-112	Public Education through WAV	Implement stormwater water quality BMPs; carry out public education for stormwater and sewer	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	\$10,000	City
Atlantic Beach	N/A	AB-029, AB-113	Ditch and Canal Inspection	Visually inspect stormwater systems weekly, and take corrective action as needed; mow, use weedeater, and pick up litter weekly during growing season, and as needed during colder months.	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-030, AB-114	Ditch and Canal Maintenance	Routinely clean and maintain ditch as required by MS4 permit.	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-031, AB-115	Stormwater Treatment Ponds Inspections	Routinely inspect pond as required by MS4 permit.	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-032, AB-116	Stormwater Treatment Ponds Cleaning and Maintenance	Carry out routine pond maintenance as required by MS4 permit.	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-033, AB-117	Stormwater Treatment Ponds, Ditch and Canal Aquatic Weed Control	Weed control by Bluewater Environmental.	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	\$21,000	City
Atlantic Beach	N/A	AB-034, AB-118	Stormwater Control Structure Inspection	Conduct routine control structure inspections as required by MS4 permit.	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-035, AB-119	Stormwater Control Structure Maintenance	Do only when inspection shows additional effort required; carry out routine cleaning and maintenance as required by MS4 permit.	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-036	Stormwater Pump Station Inspections	Routinely inspect Town Center pump station as required by MS4 permit.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-037	Stormwater Pump Station Maintenance	Routinely maintain Town Center pump station as required by MS4 permit.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-038, AB-120	Stormwater Inlets/Catch Basins/Grates Inspections	Routinely inspect inlets and catch basins as required by MS4 permit.	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-039, AB-121	Stormwater Inlets/Catch Basins/Grates Maintenance	Maintain as required by MS4 permit.	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-040, AB-122	Stormwater Pipe Inspection and Maintenance	Schedule stormwater pipe cleaning routinely, and in response to complaints; required by MS4 permit.	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-041, AB-123	Stormwater Pipe Maintenance (Repair/Replacement)	Repair or replace stormwater pipe.	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-042, AB-124	Total Miles of Rights-of-Way Maintained	Maintain rights-of-way.	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-043, AB-125	Litter Collection	Collect litter.	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	N/A	Not provided	City
Atlantic Beach	N/A	AB-044	Ardella Rd. Drainage Project	Implement drainage improvements; located between Mayport Rd. and Richardson Lane; pipe burst because existing pipe crossed 2 parcels of	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$36,332	Not provided	City



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				private property where no drainage easement existed.							
Atlantic Beach	N/A	AB-045	Royal Palms Drainage Rehabilitation Project	Implement flood-control capital project; Royal Palms is major (600-home) subdivision between Mayport Rd. and Seminole Rd.; completion 10/2010.	Stormwater	Completed	2012	Hopkins Creek	\$3,450,000	Not provided	City
Atlantic Beach	N/A	AB-046	Royal Palms Drainage System Point Repairs	Implement stormwater system point repairs necessitated by spot failures; anticipate need in Royal Palms to be minimal once above improvements completed.	Stormwater	Completed	Prior to 2010	Hopkins Creek	Not provided	N/A	City
Atlantic Beach	N/A	AB-047, AB-133	Pet Feces Control	Install, maintain, and stock Dogi-Pot stations throughout city.	Stormwater	Completed	Prior to 2010	Hopkins Creek, Sherman Creek	\$5,000	Not provided	City
Atlantic Beach	N/A	AB-048	Pet Feces Control	City Code 12.(b).14 requires removal and proper disposal of pet waste.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	N/A	City
Atlantic Beach	N/A	AB-049	Street Sweeping	Sweep streets throughout city.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	\$18,000	City
Atlantic Beach	N/A	AB-050	IDDE	Conduct field inspections to identify and remove illicit connections.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Atlantic Beach	HUD	AB-053	Septic Tank Phase Out	Carry out septic-to-sewer conversions through CDBG.	OSTDS	Completed	Prior to 2010	Sherman Creek	\$4,900	N/A	CDBG
Atlantic Beach	N/A	AB-054	Sewer Line Upgrades	Install new sewer system on Beach Ave., Seminole Rd., Ocean Grove, Dewees areas.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$400,000	N/A	City
Atlantic Beach	N/A	AB-055	Sewer Line Upgrades	Replace sewer main in area of Pioneer Dr.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$17,000	N/A	City
Atlantic Beach	N/A	AB-056	Sewer Line Upgrades	Slipline sewer on Sherry Dr.; replace sewer in part of Salt Air Subdivision.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$643,000	N/A	City
Atlantic Beach	N/A	AB-057	Sewer Line Upgrades	Repair, line, and rehabilitate sewer in Oak Harbor Subdivision.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$500,000	N/A	City
Atlantic Beach	N/A	AB-058	Sewer Line Upgrades	Repair sewer force main near Renault Dr. and Mayport Rd.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$20,000	N/A	City
Atlantic Beach	N/A	AB-059	Sewer Line Upgrades	Install new sewer line on Church Rd. (now Dutton Island Rd.).	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	Not provided	N/A	City
Atlantic Beach	N/A	AB-060	Sewer Line Upgrades	Repair effluent gravity outfall on Levy Rd.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$33,000	N/A	City
Atlantic Beach	N/A	AB-061	Sewer Line Upgrades	Replace sewer lines crossing Levy Rd. at Orchid, Rose, Violet, and Hibiscus.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$28,000	N/A	City
Atlantic Beach	N/A	AB-062	Sewer Line Upgrades	Implement sewer extension on Dudley St.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$25,000	N/A	City
Atlantic Beach	N/A	AB-063	Sewer Line Upgrades	Line sewers near Lift Station A, Palm Ave.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$40,000	N/A	City
Atlantic Beach	N/A	AB-064	Sewer Line Upgrades	Replace sewer force main and sanitary sewer on Wonderwood Rd.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$604,609	N/A	City
Atlantic Beach	N/A	AB-065	Sewer Line Upgrades	Replace sewer main and manholes in Town Center—Ocean Blvd. from 1st to 2nd St.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$14,177	N/A	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Atlantic Beach	FEMA	AB-066	Sewer Line Upgrades	Line sewer and replace services– Ahern St. through 10th St. from Sherry Dr./Seminole Rd. to East Coast Dr.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$1,079,800	N/A	City/ Hazard Mitigation Grant
Atlantic Beach	N/A	AB-067	Sewer Line Upgrades	Repair effluent force main Sherman Creek crossing pilings.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$54,701	N/A	City
Atlantic Beach	N/A	AB-068	Sewer Line Upgrades	Install new force main from Lift Station B, 465 11th St. to 1100 Sandpiper Lane.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$120,685	N/A	City
Atlantic Beach	N/A	AB-069	Sewer Line Upgrades	Replace sewer main and manholes on 11th St. and 12th St.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$368,425	N/A	City
Atlantic Beach	N/A	AB-070	Sewer Line Upgrades	Clean and inspect (using CCTV) sewer main in Selva Marina Subdivision; repair sewer mains, 19th St. and side streets.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$70,000	N/A	City
Atlantic Beach	N/A	AB-071	Sewer Line Upgrades	Line sewer and replace services Seminole Rd. and 11th St. to Lift Station B.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$105,630	N/A	City
Atlantic Beach	N/A	AB-072	Sewer Line Upgrades	Install new sewer line for Sawgrass Chapel Place–Mealy Lane, north of Dutton Island Rd.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$66,808	N/A	City
Atlantic Beach	N/A	AB-073	Sewer Line Upgrades	Install new sewer main and abandon old lift station at Shangri La Dr.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$146,572	N/A	City
Atlantic Beach	N/A	AB-074	Sewer Line Upgrades	Line sewer main in Seaspray Subdivision.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$239,997	N/A	City
Atlantic Beach	N/A	AB-075	Manhole Inspections and Rehabilitation	Carry out engineering analysis of failing manholes–Seminole Rd. area.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$2,500	N/A	City
Atlantic Beach	N/A	AB-076	Manhole Inspections and Rehabilitation	Line 5 manholes near Lift Station A– Palm Ave.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$15,000	N/A	City
Atlantic Beach	N/A	AB-077	Manhole Inspections and Rehabilitation	Rehabilitate (Spectrashield) manholes on Sherry Dr. from Atlantic Blvd. to Plaza.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$11,270	N/A	City
Atlantic Beach	N/A	AB-078	Manhole Inspections and Rehabilitation	Rehabilitate (Spectrashield) manholes from Ahern through 10th St. and Sherry Dr. to East Coast Dr.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$279,826	N/A	City
Atlantic Beach	N/A	AB-079	Manhole Inspections and Rehabilitation	Rehabilitate (Spectrashield) all manholes in Seaspray Subdivision.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$25,597	N/A	City
Atlantic Beach	N/A	AB-080	Pump Station Inspections and Maintenance	Improve valves at Lift Stations A, B, and D (Palm Ave., 11th St., Selva Marina Blvd.) .	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$40,000	N/A	City
Atlantic Beach	N/A	AB-081	Pump Station Inspections and Maintenance	Rehabilitate wet well at lift station at Courtyards Apartments.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$19,690	N/A	City
Atlantic Beach	N/A	AB-082	Pump Station Inspections and Maintenance	Line wet well at West End lift station, 2567 West End St.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$18,900	N/A	City
Atlantic Beach	N/A	AB-083	Pump Station Inspections and Maintenance	Line wet well at Selva Norte Lift Station, 404 20th St.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$21,900	N/A	City
Atlantic Beach	N/A	AB-084	Pump Station Inspections and Maintenance	Construct new master lift station to WWTP #1, 1100 Sandpiper Lane.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$676,500	N/A	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Atlantic Beach	N/A	AB-085	Pump Station Inspections and Maintenance	Upgrade West End Lift Station—new pumps and electrical, 2567 West End Dr.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$47,000	N/A	City
Atlantic Beach	N/A	AB-086	Pump Station Inspections and Maintenance	Upgrade Lift Station H—2301 Mayport Rd.; new pumps and electrical.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$120,281	N/A	City
Atlantic Beach	N/A	AB-087	Pump Station Inspections and Maintenance	Upgrade Lift Station I—960 Park St.; new pumps and electrical.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$70,281	N/A	City
Atlantic Beach	N/A	AB-088	Pump Station Inspections and Maintenance	Replace emergency generator at Lift Station C, 65 Donner Rd.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$24,000	N/A	City
Atlantic Beach	N/A	AB-089	Pump Station Inspections and Maintenance	Install SCADA system at all 19 lift stations in Sherman Creek Watershed.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$130,000	N/A	City
Atlantic Beach	N/A	AB-090	Pump Station Inspections and Maintenance	Replace emergency generator at Lift Station A, 460 Palm Ave.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$27,161	N/A	City
Atlantic Beach	N/A	AB-091	Pump Station Inspections and Maintenance	Replace emergency generator at Lift Station B, 469 11th St.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$21,507	N/A	City
Atlantic Beach	N/A	AB-092	Pump Station Inspections and Maintenance	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$2,950	N/A	City
Atlantic Beach	N/A	AB-093	Pump Station Inspections and Maintenance	Replace emergency generator at Mimosa Cove Lift Station, 1030 Mimosa Cove Ct.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$32,000	N/A	City
Atlantic Beach	N/A	AB-094	Preventive SSO Investigations	Clean and inspect (using CCTV) effluent gravity outfall line from WWTP #1.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$3,000	N/A	City
Atlantic Beach	N/A	AB-095	Preventive SSO Investigations	Clean and inspect (using CCTV) sewer mains at SR A1A and Wonderwood Rd.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$1,200	N/A	City
Atlantic Beach	N/A	AB-096	Preventive SSO Investigations	Clean and inspect (using CCTV) sewer mains in core city from east of East Coast Dr. to ocean, from Atlantic Blvd. to 16th St.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$30,834	N/A	City
Atlantic Beach	N/A	AB-097	Preventive SSO Investigations	Smoke test sewers in core city from Sherry Dr. to East Coast Dr. from Atlantic Blvd. to 12th St.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	Not provided	N/A	City
Atlantic Beach	N/A	AB-099	Preventive SSO Investigations	Clean and inspect (using CCTV) sewer main on Selva Marina Dr. and side streets.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$9,000	N/A	City
Atlantic Beach	N/A	AB-100	Preventive SSO Investigations	Implement root removal and tuberculation removal on Seminole Rd.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$2,400	N/A	City
Atlantic Beach	N/A	AB-101	Preventive SSO Investigations	Clean and inspect (using CCTV) sewer main on Seminole Rd., Selva Linkside, and Selva Lakes Subdivisions.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$27,094	N/A	City
Atlantic Beach	N/A	AB-102	Preventive SSO Investigations	Clean and inspect (using CCTV) sewer main at Mayport Rd. crossings.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$6,656	N/A	City
Atlantic Beach	N/A	AB-105	1999 Stormwater Improvements Project	Implement flood-control capital project and stormwater water quality	Stormwater	Completed	Prior to 2010	Sherman Creek	\$414,711	Not provided	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				BMPs on Pine St., PW Yard, and Seminole.							
Atlantic Beach	DEP	AB-106	Core City Improvements Project	Implement flood-control capital project and stormwater water quality BMPs – area bounded by Sherry Dr. and East Coast Dr., 1st St. and 12th St.	Stormwater	Completed	Prior to 2010	Sherman Creek	\$4,784,008	Not provided	City/ DEP/ EPA
Atlantic Beach	DEP	AB-107	Core City Improvements Project	Carry out water sampling and public education.	Source Identification Activities	Completed	Prior to 2010	Sherman Creek	\$81,370	Not provided	City/ DEP/ EPA
Atlantic Beach	N/A	AB-108	Levy Rd. Improvements Project	Implement flood-control capital project – Levy Rd. between Mayport Rd. and Orchid St.	Stormwater	Completed	Prior to 2010	Sherman Creek	\$300,284	Not provided	City
Atlantic Beach	N/A	AB-109	Sherry Dr. Reconstruction Project	Implement flood-control capital project–Sherry Dr. between Atlantic Blvd. and Seminole Rd.	Stormwater	Completed	Prior to 2010	Sherman Creek	\$1,371,530	Not provided	City
Atlantic Beach	N/A	AB-110	Flood-control capital projects	Implement flood-control capital project–Deweese, Coquina, Shell, and Coral Drainage and Paving Project.	Stormwater	Completed	Prior to 2010	Sherman Creek	\$120,716	Not provided	City
Atlantic Beach	N/A	AB-111	Church Rd. Extension (now Dutton Island Rd.)	Implement flood-control capital project–between George St. and Mealy St.	Stormwater	Completed	Prior to 2010	Sherman Creek	\$152,180	Not provided	City
Atlantic Beach	HUD	AB-126	George and Dudley Drainage Improvements	Implement stormwater water quality BMPs – Dudley St. between Mayport Rd. and George St.	Stormwater	Completed	Prior to 2010	Sherman Creek	\$97,930	Not provided	CDBG
Atlantic Beach	N/A	AB-127	County Club Lane Storm Pipe Lining	Implement flood-control capital project – between Johansen Park and Selva Lagoon; no septic tanks in project area.	Stormwater	Completed	Prior to 2010	Sherman Creek	\$83,574	Not provided	City
Atlantic Beach	N/A	AB-128	Ocean and 13th St. Drainage Project	Implement flood-control capital project.	Stormwater	Completed	Prior to 2010	Sherman Creek	\$138,734	Not provided	City
Atlantic Beach	N/A	AB-129	Seminole Ditch Headwall	Implement flood-control capital project – 800 block of Seminole Rd.	Stormwater	Completed	Prior to 2010	Sherman Creek	\$12,974	Not provided	City
Atlantic Beach	N/A	AB-130	Selva Tierra Ditch Improvements	Implement flood-control capital project – north of Saturiba Dr., between Selva Grande and Tierra Verde.	Stormwater	Completed	Prior to 2010	Sherman Creek	\$25,953	Not provided	City
Atlantic Beach	N/A	AB-131	Ocean Blvd. 14th–16th St. Drainage Improvements	Flood Implement flood-control capital projects and stormwater water quality BMPs.	Stormwater	Completed	Prior to 2010	Sherman Creek	\$271,693	Not provided	City
Atlantic Beach	N/A	AB-132	Orangeburg Pipe Replacement Program	Replace obsolete/failing Orangeburg (fiber) storm sewer pipe; annual funding (\$15,000/yr); completion 9/2014.	Stormwater	Underway	TBD	Sherman Creek	\$75,000	N/A	City
Atlantic Beach	N/A	AB-134	Pump Station Inspections and Maintenance	Lift Station E Upgrades (799 Mayport Rd.); new emergency generator, new high efficiency motors.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$49,482	N/A	City
Atlantic Beach	Division of Emergency Management	AB-135	Sewer Line Upgrades	Line sewer mains in Salt Air Subdivision with CIPP.	Sanitary Sewer	Completed	2011	Sherman Creek	\$335,730	N/A	Atlantic Beach, Division of



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
											Emergency Management
Atlantic Beach	N/A	AB-136	Sewer Line Upgrades	Line sewer mains in Selva Marina Subdivision with CIPP.	Sanitary Sewer	Completed	2011	Sherman Creek	\$264,936	N/A	City
Atlantic Beach	N/A	AB-137	Sewer Line Upgrades	Replace sewer main near Selva Marina Lift Station 1799 Selva Marina Dr.	Sanitary Sewer	Completed	2011	Sherman Creek	\$27,400	N/A	City
Atlantic Beach	Division of Emergency Management	AB-138	Manhole Inspections and Rehabilitation	Rehabilitate manholes in Salt Air Subdivision.	Sanitary Sewer	Completed	2011	Sherman Creek	\$44,952	N/A	City, Division of Emergency Management
Atlantic Beach	N/A	AB-139	Manhole Inspections and Rehabilitation	Rehabilitate manholes in Selva Marina Subdivision.	Sanitary Sewer	Completed	2011	Sherman Creek	\$21,790	N/A	City
Atlantic Beach	N/A	AB-140	Pump Station Inspections and Maintenance	Mimosa Cove Lift Station upgrades (1030 Mimosa Cove Ct.) – New pumps, motors, electrical, sitework/grading, building repairs.	Sanitary Sewer	Completed	2011	Sherman Creek	\$83,023	N/A	City
Atlantic Beach	N/A	AB-141	Pump Station Inspections and Maintenance	Electrical upgrades at 3 lift stations (404 20th St., 995 Gavagan and 914 Schooners Bay).	Sanitary Sewer	Completed	2011	Sherman Creek	\$24,743	N/A	City
Atlantic Beach	CDBG – Disaster Mitigation	AB-142	Pump Station Inspections and Maintenance	Rehabilitate sanitary sewer mains in Donner Subdivision (portions of Jackson Rd., Stanley Rd., Francis Ave., and Jordan Rd.) using CIPP.	Sanitary Sewer	Completed	2012	Hopkins Creek	\$146,604	N/A	CDBG – Disaster Mitigation
Atlantic Beach	Not provided	AB-143	Sewer Line Upgrades	Rehabilitate sanitary sewer mains on Plaza Rd. from Manholes 76 and 77 using CIPP.	Sanitary Sewer	Completed	2012	Hopkins Creek	\$7,800	N/A	City
Atlantic Beach	CDBG – Disaster Mitigation	AB-144	Manhole Inspections and Rehabilitation	Rehabilitate manholes in Donner Subdivision (on Jackson Rd., Stanley Rd., Francis Ave., and Jordan Rd.) using Spectrashield.	Sanitary Sewer	Completed	2012	Hopkins Creek	\$27,208	N/A	CDBG – Disaster Mitigation
Atlantic Beach	N/A	AB-145	Manhole Inspections and Rehabilitation	Rehabilitate Manholes 76 and 77 on Plaza Rd. using Spectrashield.	Sanitary Sewer	Completed	2012	Hopkins Creek	\$1,560	N/A	City
Atlantic Beach	N/A	AB-146	Preventive SSO Investigations	Clean and televise sanitary sewer mains near Donner Rd. lift station and manhole cleaning.	Sanitary Sewer	Completed	2012	Hopkins Creek	\$1,300	N/A	City
Atlantic Beach	N/A	AB-147	Sewer Line Upgrades	Rehabilitate deteriorated cast iron sanitary sewer mains in Johns Creek, Mimosa Cove, Cove Landing, Aspen Ridge, Selva Marina Dr., and Seminole Rd. using CIPP.	Sanitary Sewer	Completed	2012	Sherman Creek	\$61,700	N/A	City
Atlantic Beach	N/A	AB-148	Sewer Line Upgrades	Rehabilitate vitrified clay sewer mains on East Coast Dr. from Plaza Rd. to 10th St.	Sanitary Sewer	Completed	2012	Sherman Creek	\$14,530	N/A	City
Atlantic Beach	N/A	AB-149	Sewer Line Upgrades	Replace cast iron sewer main in easement south of Willow Cove Ct. East.	Sanitary Sewer	Completed	2012	Sherman Creek	\$86,829	N/A	City
Atlantic Beach	N/A	AB-150	Manhole Inspections and Rehabilitation	Rehabilitate manholes on East Coast Dr. with Spectrashield.	Sanitary Sewer	Completed	2012	Sherman Creek	\$3,300	N/A	City
Atlantic Beach	N/A	AB-151	Preventive SSO Investigations	Clean and televise sewer mains on Dudley Rd. and Dutton Island Rd.	Sanitary Sewer	Completed	2012	Sherman Creek	\$1,300	N/A	City



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Atlantic Beach	N/A	AB-152	Preventive SSO Investigations	Clean and televise sewer main near Mimosa Cove lift station.	Sanitary Sewer	Completed	2012	Sherman Creek	\$2,500	N/A	City
Atlantic Beach	N/A	AB-153	Sewer Line Upgrades	Rehabilitate sanitary sewer mains on East Coast Dr., Ocean Blvd., and Beach Ave. between 12th St. and 15th St. using CIPP.	Sanitary Sewer	Completed	2013	Sherman Creek	\$91,559	N/A	City
Atlantic Beach	N/A	AB-154	Manhole Inspections and Rehabilitation	Rehabilitate manholes on East Coast Dr., Ocean Blvd., and Beach Ave. between 12th St. and 15th St. using Spectrashield.	Sanitary Sewer	Completed	2013	Sherman Creek	\$5,460	N/A	City
Atlantic Beach	N/A	AB-155	Sewer Line Upgrades	Rehabilitate sanitary sewer mains on Francis Ave., Jordan St., and Lewis St. using CIPP.	Sanitary Sewer	Completed	2014	Sherman Creek	\$133,238	N/A	City
Atlantic Beach	N/A	AB-156	Manhole Inspections and Rehabilitation	Rehabilitate manholes on Francis Ave., Jordan St., and Lewis St. using Spectrashield.	Sanitary Sewer	Completed	2014	Sherman Creek	\$7,000	N/A	City
Atlantic Beach	N/A	AB-157	Sewer Line Upgrades	Rehabilitate sanitary sewer mains on Saturiba Dr., 15th St., and 16th St. using CIPP.	Sanitary Sewer	Completed	2014	Sherman Creek	\$133,315	N/A	City
Atlantic Beach	N/A	AB-158	Manhole Inspections and Rehabilitation	Rehabilitate manholes on Saturiba Dr. with fiberglass liners, and on Sea Oats with Spectrashield.	Sanitary Sewer	Completed	2014	Sherman Creek	\$52,212	N/A	City
Atlantic Beach	N/A	AB-159	East Coast Dr. Stormwater Improvements Project	Construction of stormwater piping with catch basins, manholes and curb inlets, sanitary sewer service line encasement.	Stormwater	Completed	2014	Sherman Creek	\$209,000	N/A	City
Atlantic Beach	N/A	AB-160	Effluent Gravity Outfall Inspection and Maintenance	Perform cleaning and CCTV inspection of 21-in gravity outfall on Donner Rd. Perform needed repairs if identified and root-cutting.	Sanitary Sewer	Underway	TBD	Hopkins Creek	\$50,000	N/A	City
Atlantic Beach	N/A	AB-161, AB-165	Vacuum Truck Cleaning of Stormwater Pipers and Sanitary Sewer Clogs	Purchase of Vac-Con truck for in-house cleaning of storm sewers and sanitary sewer facilities to more effectively prevent stormwater backups and SSOs.	Sanitary Sewer	Planned	TBD	Hopkins Creek, Sherman Creek	\$330,000	N/A	City
Atlantic Beach	N/A	AB-163	Sewer Line Upgrades	Rehabilitate sanitary sewer mains on Sea Oats Dr., Park Terr. East, Park Terr. West, and 17th St. using CIPP.	Sanitary Sewer	Underway	TBD	Sherman Creek	\$150,000	N/A	City
Atlantic Beach	N/A	AB-164	Manhole Inspections and Rehabilitation	Rehabilitate manholes on Sea Oats Dr., Park Terr. East, Park Terr. West, and 17th St. using Spectrashield.	Sanitary Sewer	Underway	TBD	Sherman Creek	\$50,000	N/A	City
Atlantic Beach	N/A	AB-166	Salt Air Neighborhood Stormwater Improvements	Restoration of roadside swales and drainage infrastructure.	Stormwater	Completed	2015	Sherman Creek	\$292,000	N/A	City
Atlantic Beach	N/A	AB-167, AB-169	Stormwater Master Plan Update	Updating model and citywide capital needs to address recent storm events and level of service expectations.	Stormwater	Underway	TBD	Hopkins Creek, Sherman Creek	Not provided	N/A	City
Atlantic Beach	N/A	AB-168	Aquatic Pond Improvements	Adding control structure and bulkhead/bank restoration.	Stormwater	Underway	TBD	Hopkins Creek	\$25,000	N/A	City
COJ	N/A	COJ-001	Townsend Rd. (COJ-31)	Wet detention.	Stormwater	Completed	Prior to 2009	Newcastle Creek	Not provided	Not provided	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
COJ	N/A	COJ-002	Townsend Rd.	Townsend Rd. drainage system rehabilitation.	Stormwater	Completed	Prior to 2009	Newcastle Creek	\$173,326	N/A	City
COJ	N/A	COJ-003	Berrywood Lane	Ditch cleanout to remove sediments and vegetation.	Stormwater	Completed	Prior to 2009	Newcastle Creek	Not provided	N/A	City
COJ	N/A	COJ-004, COJ-027, COJ-045, COJ-061, COJ-081, COJ-106, COJ-129, COJ-145, COJ-159, COJ-177	Ditch /Creek Regrade/Erosion/Clean	Citizen Active Response Effort (CARE) requests. Costs limited to activities completed after release of work order system.	Stormwater	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$116,116	N/A	City
COJ	N/A	COJ-005, COJ-028, COJ-046, COJ-082, COJ-107, COJ-160, COJ-178, COJ-206, COJ-226, COJ-229	Lake or Pond Problem	All maintenance activities completed in response to CARE requests. Costs shown limited to activities completed after release of work order system.	Stormwater	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miramar Creek, Big Fishweir Creek, Goodbys Creek, Open Creek, Miller Creek, Deer Creek, Terrapin Creek	\$12,037	N/A	City
COJ	N/A	COJ-006, COJ-029, COJ-047, COJ-062, COJ-083, COJ-108, COJ-130, COJ-146, COJ-161, COJ-179	Structure Blocked/Repair/General Flooding	All maintenance activities completed in response to CARE requests. Costs shown limited to activities completed after release of work order system.	Stormwater	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$241,857	N/A	City
COJ	N/A	COJ-007, COJ-030, COJ-048, COJ-064, COJ-084, COJ-109, COJ-131, COJ-147, COJ-162, COJ-180	Illicit Water Discharge	CARE-initiated inspection.	Stormwater	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$11,660	N/A	City
COJ	N/A	COJ-008	Sewer Drains into Yard/Ditch	CARE initiated.	Stormwater	Completed	Prior to 2009	Newcastle Creek	\$212	N/A	City
COJ	N/A	COJ-009, COJ-033, COJ-051, COJ-067, COJ-087, COJ-112, COJ-134, COJ-231, COJ-165, COJ-182, COJ-231	Sewer Overflow	CARE initiated.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek,	\$37,312	N/A	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
								Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek, Terrapin Creek			
COJ	N/A	COJ-010, COJ-034, COJ-052, COJ-068, COJ-088, COJ-115, COJ-135, COJ-149, COJ-166, COJ-183	Private Lift Station Inspection	Private lift station inspection and update GIS coverage.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$9,964	N/A	City
COJ	N/A	COJ-011, COJ-035, COJ-053, COJ-070, COJ-089, COJ-117, COJ-136, COJ-151, COJ-168, COJ-185	IDDE	Identify and remove illicit connections if found to be illicit.	Stormwater	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$62,328	N/A	City
COJ	N/A	COJ-012, COJ-037, COJ-055, COJ-071, COJ-090, COJ-120, COJ-137, COJ-153, COJ-170, COJ-187	Routine Surface Water Sampling	NPDES permit-related quarterly water quality sampling.	Source Identification Activities	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$250,731	N/A	City
COJ	N/A	COJ-013, COJ-038, COJ-056, COJ-072, COJ-091, COJ-121, COJ-138	TAT Sampling	Conducted by COJ Environmental Quality Division (EQD) to assess bacteria levels in creek and identify potential fecal bacteria sources.	Source Identification Activities	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek	\$84,930	Not provided	City
COJ	N/A	COJ-014	Eggleston Heights Failure Area – Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2009	Newcastle Creek	Not provided	N/A	City
COJ	N/A	COJ-015, COJ-040, COJ-058, COJ-074, COJ-096, COJ-123, COJ-141, COJ-154, COJ-172, COJ-188	Outside Failure Areas – Septic Tank Phase Out	Phase out program as provided by COJ ordinance.	OSTDS	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek,	\$27,335	Not provided	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
								Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek			
COJ	N/A	COJ-016, COJ-041, COJ-059, COJ-075, COJ-097, COJ-124, COJ-142, COJ-155, COJ-174, COJ-189	Septic Tank Maintenance Public Education	PSAs.	OSTDS	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	Not provided	Not provided	City
COJ	N/A	COJ-017, COJ-042, COJ-060, COJ-076, COJ-098, COJ-125, COJ-143, COJ-156, COJ-175, COJ-190	Pet/Animal Management Public Education	PSAs.	Stormwater	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	Not provided	Not provided	City
COJ	N/A	COJ-018	Durkeeville West	Wet detention.	Stormwater	Completed	Prior to 2009	Hogan Creek	Not provided	Not provided	City
COJ	N/A	COJ-019	Newtown Area	Flood improvement.	Stormwater	Planned	TBD	Hogan Creek	\$5,375,000	Not provided	City
COJ	N/A	COJ-020	Hogan Creek	Wet detention.	Stormwater	Completed	Prior to 2009	Hogan Creek	Not provided	Not provided	City
COJ	N/A	COJ-021	Edmonson West	Alleviate flooding by improving conveyances.	Stormwater	Completed	Prior to 2009	Hogan Creek	Not provided	Not provided	City
COJ	N/A	COJ-022	7th and Ionia	Standing water at curb.	Stormwater	Completed	2011	Hogan Creek	Not provided	Not provided	City
COJ	N/A	COJ-023	Boulevard Railroad Crossing	Headwall has failed, causing dual drain pipes to break.	Stormwater	Completed	2011	Hogan Creek	\$100,000	N/A	City
COJ	N/A	COJ-024	W&M-18th and Fla	Drainage system rehabilitation project.	Stormwater	Completed	Prior to 2009	Hogan Creek	\$2,620	N/A	City
COJ	N/A	COJ-025	Trash Removal in Main Channel	Removed trash in main channel of creek as Walk the WBID follow up.	Trash Clean Up of Impaired Waterbody	Completed	Prior to 2009	Hogan Creek	Not provided	N/A	City
COJ	N/A	COJ-026	Venus and Mars Apartment Complex Pond Maintenance	Conducted maintenance activities at pond at apartment complex as Walk the WBID follow up.	Stormwater	Completed	Prior to 2009	Hogan Creek	Not provided	N/A	City
COJ	N/A	COJ-031, COJ-049, COJ-065, COJ-085, COJ-110, COJ-132, COJ-148, COJ-163, COJ-194, COJ-243	Pollution Water Illegal Discharge	CARE-initiated inspection.	Stormwater	Completed	Prior to 2009	Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek,	\$10,812	N/A	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
								Newcastle Creek, Open Creek			
COJ	N/A	COJ-032, COJ-050, COJ-066, COJ-086, COJ-111, COJ-133, COJ-164, COJ-181, COJ-230	Sewer Drains into Yard/Ditch	CARE-initiated inspection.	Stormwater	Completed	Prior to 2009	Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Goodbys Creek, Open Creek, Terrapin Creek	\$11,872	N/A	City
COJ	N/A	COJ-036, COJ-054, COJ-118, COJ-152, COJ-169, COJ-186	Follow Up on Outstanding Potential Illicit Connection (PIC)	Follow up on 1 open PIC in watershed.	Stormwater	Completed	2010	Hogan Creek, Butcher Pen Creek, Big Fishweir Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$13,214	N/A	City
COJ	N/A	COJ-039, COJ-122, COJ-139	Source Identification Sampling	Source identification sampling conducted when high levels of fecal coliform bacteria are noted.	Source Identification Activities	Completed	Prior to 2009	Hogan Creek, Big Fishweir Creek, Deer Creek	\$13,000	N/A	City
COJ	N/A	COJ-043	Wesconnett Blvd. (Blanding to Blanding)	Wet detention.	Stormwater	Completed	Prior to 2009	Butcher Pen Creek	Not provided	Not provided	City
COJ	N/A	COJ-044	La Moya Roadway Project	Wet detention.	Stormwater	Completed	Prior to 2009	Butcher Pen Creek	Not provided	Not provided	City
COJ	N/A	COJ-063	Thin Vegetation at Mayfair Rd. and Bridgewater Rd.	Thin vegetation at Mayfair Rd. and Bridgewater Rd.	Stormwater	Completed	2010	Miller Creek	Not provided	Not provided	City
COJ	N/A	COJ-069	Enforcement at The Preserve at St. Nicholas Apartments	Provide status of enforcement for annual progress report.	Stormwater	Completed	Prior to 2009	Miller Creek	\$3,000	N/A	City
COJ	N/A	COJ-073	Cedar River Failure Area – Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2009	Butcher Pen Creek	Not provided	N/A	City
COJ	N/A	COJ-073	Saint Nicholas Failure Area – Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2009	Miller Creek	Not provided	N/A	City
COJ	N/A	COJ-077	Inwood Terrace Area	Relieve flooding by improving conveyances.	Stormwater	Completed	Prior to 2009	Miramar Creek	\$572,000	N/A	City
COJ	N/A	COJ-078	Miramar Tributary Improvements	Flood improvement.	Stormwater	Completed	Prior to 2009	Miramar Creek	\$1,200,000	N/A	City
COJ	N/A	COJ-079	Pine Forest/Larson Acres Area	Flood improvement, wet detention.	Stormwater	Completed	2010	Miramar Creek	\$5,015,000	N/A	City
COJ	N/A	COJ-080	St Augustine Rd. (Emerson to US Hwy. 1)	Regional pond.	Stormwater	Completed	Prior to 2009	Miramar Creek	Not provided	Not provided	City
COJ	N/A	COJ-092	Point La Vista Failure Area – Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2009	Miramar Creek	Not provided	N/A	City
COJ	N/A	COJ-093	Freeman Rd. Failure Area – Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2009	Miramar Creek	Not provided	N/A	City



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
COJ	N/A	COJ-094	Inwood Terrace Failure Area – Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2009	Miramar Creek	Not provided	N/A	City
COJ	N/A	COJ-095	Emerson Failure Area – Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2009	Miramar Creek	Not provided	N/A	City
COJ	N/A	COJ-099	Hamilton at Jersey Outfall	Improve outfall to relieve flooding.	Stormwater	Completed	2015	Big Fishweir Creek	\$2,900,000	N/A	City
COJ	N/A	COJ-100	Lakeshore Woodcrest	Wet detention.	Stormwater	Completed	Prior to 2009	Big Fishweir Creek	Not provided	Not provided	City
COJ	N/A	COJ-101	Murray Hill Phase 1	Wet detention.	Stormwater	Completed	Prior to 2009	Big Fishweir Creek	Not provided	Not provided	City
COJ	N/A	COJ-102	Riverside Ave.	2nd-generation baffle box.	Stormwater	Completed	Prior to 2009	Big Fishweir Creek	Not provided	Not provided	City
COJ	N/A	COJ-103	Drainage Improvements to Arden St.	Arden St. floods private property.	Stormwater	Completed	2011	Big Fishweir Creek	Not provided	Not provided	City
COJ	N/A	COJ-104	Jersey St Drainage	Pipe roadside ditch.	Stormwater	Completed	2011	Big Fishweir Creek	\$75,000	N/A	City
COJ	N/A	COJ-105	Fairfax Manor Creek	Regrade ditch.	Stormwater	Completed	2011	Big Fishweir Creek	\$65,000	N/A	City
COJ	N/A	COJ-113	Sewer Repairs at The Loop Restaurant	Follow-up and enforcement of sewer repairs at restaurant.	Sanitary Sewer	Completed	Prior to 2009	Big Fishweir Creek	\$1,500	N/A	City
COJ	N/A	COJ-114, COJ-195, COJ-200, COJ-203, COJ-207, COJ-212, COJ-227, COJ-232, COJ-239, COJ-244	Septic Tank Inspection	CARE initiated. Enforcement action if required by Duval County Health Dept. (DCHD).	OSTDS	Completed	Prior to 2009	Big Fishweir Creek, Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$52,486	N/A	City
COJ	N/A	COJ-119	Walk the WBID PIC Investigations	Inspect 5 PICs between Cassat and Plymouth Ave. and black corrugated pipe on central branch.	Stormwater	Completed	Prior to 2009	Big Fishweir Creek	\$1,272	N/A	City
COJ	N/A	COJ-126	Lower Eastside Drainage Improvements – Phase 3	Eliminate flooding area bordered by 7th St., M.L. King Jr. Expressway, 1st St., Spearing St.	Stormwater	Underway	TBD	Deer Creek	\$6,500,000	N/A	City
COJ	N/A	COJ-127	Lower Eastside Pond Expansion	Pond expansion to provide compensating treatment for library, courthouse, and other downtown improvements. Replaced with Project COJ-127.	Stormwater	Underway	TBD	Deer Creek	\$4,250,000	N/A	City
COJ	N/A	COJ-128	Upper Deer Creek Regional BMP	Wet detention.	Stormwater	Completed	Prior to 2009	Deer Creek	Not provided	Not provided	City
COJ	N/A	COJ-140	Investigate High Fecal Coliform Counts in Downstream Portion of Watershed	Investigate and report results in first annual BMAP report; Walk the WBID may be needed.	Source Identification Activities	Completed	Prior to 2009	Deer Creek	Not provided	N/A	City
COJ	N/A	COJ-144	Faye Rd. – Area Floods	Faye Rd. drainage system rehabilitation.	Stormwater	Completed	Prior to 2009	Terrapin Creek	\$40,000	N/A	City
COJ	N/A	COJ-157	Powers Ave. at Old Kings Rd.	Regional pond.	Stormwater	Completed	Prior to 2009	Goodbys Creek	Not provided	Not provided	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
COJ	N/A	COJ-158	Repair Erosion at Sierra Madre Dr.	Bank repairs failed to prevent erosion.	Stormwater	Completed	Prior to 2009	Goodbys Creek	\$106,262	N/A	City
COJ	N/A	COJ-171	Beauclerc Gardens Failure Area – Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2009	Goodbys Creek	Not provided	N/A	City
COJ	N/A	COJ-173	Walk the WBID Effort	Conduct Walk the WBID in central portion of watershed to identify sources.	Source Identification Activities	Completed	2010	Goodbys Creek	Not provided	N/A	City
COJ	N/A	COJ-176	Improve Drainage Pine Tree Rd.	Road does not drain adequately.	Stormwater	Completed	2010	Open Creek	\$20,142	N/A	City
COJ	N/A	COJ-191	RSF	0.4-ac RSF planed under Master Stormwater Management Plan (MSMP); construction subject to funding.	Stormwater	Planned	2010	Newcastle Creek	\$110,000	N/A	City
COJ	N/A	COJ-192	3833 Hermitage Rd. East	Pipe replacement.	Stormwater	Completed	2010	Newcastle Creek	\$17,788	N/A	City
COJ	N/A	COJ-193, COJ-199, COJ-202, COJ-205, COJ-211, COJ-222, COJ-225, COJ-228, COJ-238, COJ-242	Ditch Hazardous Contaminated	CARE requests with costs for responses where work order was issued.	Stormwater	Completed	2010	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	N/A	Not provided	City
COJ	N/A	COJ-196, COJ-204, COJ-208, COJ-213, COJ-240, COJ-245	Re-Sampling	Conducted when high levels of fecal coliform bacteria are noted, to attempt to identify sources.	Source Identification Activities	Completed	2010	Newcastle Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Goodbys Creek, Open Creek	\$2,756	Not provided	City
COJ	N/A	COJ-197	Emerald Necklace and Liberty Ponds	MSMP construction schedule subject to funding.	Stormwater	Completed	2010	Hogan Creek	\$2,153,000	N/A	City
COJ	N/A	COJ-198	1500 8th St.	Pipe replacement.	Stormwater	Completed	2010	Hogan Creek	\$67,954	N/A	City
COJ	N/A	COJ-201	5000 Block Chadroe Rd.	Curb/gutter.	Stormwater	Completed	2010	Butcher Pen Creek	\$13,135	N/A	City
COJ	N/A	COJ-209	Conveyance Under San Jose Blvd	MSMP construction schedule subject to funding.	Stormwater	Planned	TBD	Miramar Creek	\$150,000	N/A	City
COJ	N/A	COJ-210	Pine Tree Rd. Drainage	Construction.	Stormwater	Completed	2010	Miramar Creek	\$57,309	Not provided	City
COJ	N/A	COJ-214	In-Line Dry Pond, Widen Downstream Channel	MSMP construction schedule subject to funding.	Stormwater	Planned	TBD	Big Fishweir Creek	\$2,500,000	N/A	City
COJ	N/A	COJ-215	5340 Royce Ave.	Pipe replacement.	Stormwater	Completed	2010	Big Fishweir Creek	\$63,608	N/A	City
COJ	N/A	COJ-216	Poppy Dr. Paving Rehabilitation	Construction.	Stormwater	Completed	2010	Big Fishweir Creek	\$58,357	N/A	City
COJ	N/A	COJ-217	1748 Harksheimer Ave.	Pipe replacement.	Stormwater	Completed	2010	Big Fishweir Creek	\$49,225	N/A	City
COJ	N/A	COJ-218	Quan Dr. Drainage Outfall	Drainage outfall improvement.	Stormwater	Completed	2012	Big Fishweir Creek	\$12,482	N/A	City
COJ	N/A	COJ-219	4700 Block Astral St.	Curb/gutter.	Stormwater	Completed	2010	Big Fishweir Creek	\$9,502	N/A	City
COJ	N/A	COJ-220	College/Talbot	Curb/gutter.	Stormwater	Completed	2010	Big Fishweir Creek	\$31,914	N/A	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
COJ	N/A	COJ-221	Murray Dr./French St.	Curb/gutter.	Stormwater	Completed	2010	Big Fishweir Creek	\$11,750	N/A	City
COJ	N/A	COJ-223	1405 Van Buran St.	Pipe replacement.	Stormwater	Completed	2010	Deer Creek	\$88,940	N/A	City
COJ	N/A	COJ-224	Jessie St.	Pipe CIPP.	Stormwater	Completed	2010	Deer Creek	\$237,952	N/A	City
COJ	N/A	COJ-233	BMAP Monitoring	COJ is not responsible for BMAP monitoring in watershed.	Source Identification Activities	Completed	2010	Terrapin Creek	N/A	N/A	City
COJ	N/A	COJ-234	Resampling	Conducted when high levels of fecal coliform bacteria are noted, to attempt to identify sources.	Source Identification Activities	Completed	2010	Terrapin Creek	N/A	Not provided	City
COJ	N/A	COJ-235	Berm, New Ponds with MAPS, Existing Pond with MAPS, and Borrow Pit with MAPS	MSMP construction schedule subject to funding.	Stormwater	Planned	TBD	Goodbys Creek	\$4,300,000	N/A	City
COJ	N/A	COJ-236	San Clerc/Sanchez Drainage	Construction.	Stormwater	Completed	2010	Goodbys Creek	\$229,524	Not provided	City
COJ	N/A	COJ-237	San Clerc Rd. Drainage Improvement	Drainage improvement.	Stormwater	Completed	2011	Goodbys Creek	\$541	Not provided	City
COJ	N/A	COJ-241	Conveyance Improvements Under Power Easement Near Deer Chase Pl. and Danforth Dr.	MSMP construction schedule subject to funding.	Stormwater	Planned	TBD	Open Creek	\$296,000	N/A	City
COJ	N/A	COJ-246	3931 Carmichael Ave.	Pipe replacement.	Stormwater	Completed	2014	Miller Creek	\$24,271	N/A	City
COJ	N/A	COJ-247	1290 Menna Dr.	Pipe replacement.	Stormwater	Completed	2014	Big Fishweir Creek	\$46,349	N/A	City
COJ	N/A	COJ-248	1748 Harkisheimer Dr.	Drainage improvement.	Stormwater	Completed	2014	Big Fishweir Creek	\$49,225	Not provided	City
COJ	N/A	COJ-249	Boone Park and Pine Grove	Drainage improvement.	Stormwater	Completed	2014	Big Fishweir Creek	\$2,502	Not provided	City
COJ	N/A	COJ-250	Rensselaer and Hollingsworth	Drainage improvement.	Stormwater	Completed	2014	Big Fishweir Creek	\$86,710	Not provided	City
COJ	N/A	COJ-251	San Clerc/Sanchez Drainage Improvement	Drainage improvement.	Stormwater	Completed	2014	Goodbys Creek	\$29,524	Not provided	City
COJ	N/A	COJ-252	Sanchez Rd.	Drainage improvement.	Stormwater	Completed	2014	Goodbys Creek	\$62,333	Not provided	City
COJ	N/A	COJ-253	1100 4th St.	Drainage improvement.	Stormwater	Underway	TBD	Hogan Creek	\$92,554	Not provided	City
COJ	N/A	COJ-254	6442 Romily Rd.	Drainage improvement.	Stormwater	Completed	2014	Butcher Pen Creek	\$20,208	Not provided	City
COJ	N/A	COJ-255	2121 Sessions Lane	Drainage improvement.	Stormwater	Completed	2014	Miramar Creek	\$45,903	Not provided	City
COJ	N/A	COJ-256	2120 Sessions Lane	Drainage improvement.	Stormwater	Completed	2014	Miramar Creek	\$38,165	Not provided	City
COJ	N/A	COJ-257	Woodruff Ave.	Drainage improvement.	Stormwater	Completed	2014	Big Fishweir Creek	\$24,239	Not provided	City
COJ	N/A	COJ-258	1525 Tallyrand Ave.	Drainage improvement.	Stormwater	Completed	2014	Deer Creek	\$38,421	Not provided	City
COJ	N/A	COJ-259	9439 San Jose Blvd.	Drainage improvement.	Stormwater	Completed	2014	Goodbys Creek	\$66,195	Not provided	City
COJ	N/A	COJ-260	Washburn Rd.	Drainage improvement.	Stormwater	Completed	2014	Open Creek	\$6,191	Not provided	City
COJ	N/A	COJ-261	Washburn Rd. Drainage	Drainage improvement.	Stormwater	Completed	2014	Open Creek	\$35,949	Not provided	City
COJ	N/A	COJ-262	Washburn Rd. Drainage Part A	Drainage improvement.	Stormwater	Completed	2014	Open Creek	\$72,692	Not provided	City
COJ	N/A	COJ-263	1003 15th St.	Design.	Stormwater	Planned	TBD	Hogan Creek	\$21,254	Not provided	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
COJ	N/A	COJ-264	Steele St. at Myrtle Ave.	Storm sewer.	Stormwater	Completed	2014	Hogan Creek	\$15,239	Not provided	City
COJ	N/A	COJ-265	4615 Harlow Blvd.	Storm sewer.	Stormwater	Underway	TBD	Butcher Pen Creek	\$80,487	Not provided	City
COJ	N/A	COJ-266	Harlow Blvd. at Bambi Lane	Drain line.	Stormwater	Completed	2014	Butcher Pen Creek	\$74,845	Not provided	City
COJ	N/A	COJ-267	4503 ISH Brant Rd. West and 4465 Ranier Rd.	Storm sewer.	Stormwater	Completed	2014	Butcher Pen Creek	\$8,595	Not provided	City
COJ	N/A	COJ-268	Kingsbury St. at Lark St.	Cave in.	Stormwater	Completed	2014	Big Fishweir Creek	\$10,177	Not provided	City
COJ	N/A	COJ-269	Plymouth St.	Design.	Stormwater	Underway	TBD	Big Fishweir Creek	\$8,339	Not provided	City
COJ	N/A	COJ-270	3900 Richmond St.	Storm sewer.	Stormwater	Completed	2014	Big Fishweir Creek	\$2,773	Not provided	City
COJ	N/A	COJ-271	Rensselaer Ave. at Hollingsworth St.	Construction.	Stormwater	Completed	2014	Big Fishweir Creek	\$56,470	Not provided	City
COJ	N/A	COJ-272	9115 Barnstaple Lane	Drain line.	Stormwater	Completed	2014	Goodbys Creek	\$40,006	Not provided	City
COJ	N/A	COJ-272	Quan Dr.	Construction.	Stormwater	Underway	TBD	Big Fishweir Creek	\$148,686	Not provided	City
COJ	N/A	COJ-273	8893 Brierwood Rd.	Storm sewer.	Stormwater	Completed	2014	Goodbys Creek	\$6,034	Not provided	City
COJ	N/A	COJ-274	Osprey Court	Construction.	Stormwater	Underway	TBD	Goodbys Creek	\$89,394	Not provided	City
COJ	N/A	COJ-275	Outfall Ditch Vegetation Management	Herbicide spraying and litter removal	Stormwater	Completed	2014	Newcastle Creek	Not provided	N/A	City
COJ	N/A	COJ-276, COJ-278, COJ-280, COJ-281, COJ-283	Outfall Ditch Vegetation Management	Herbicide spraying and litter removal.	Stormwater	Completed	2014	Hogan Creek, Butcher Pen Creek, Miramar Creek, Big Fishweir Creek, Goodbys Creek	\$29,829	N/A	City
COJ	N/A	COJ-277, COJ-279, COJ-282	Stormwater Action Team Proactive Maintenance Program	Roadside and outfall ditch regrade, vegetation removal, illegal dumping cleanup, and illicit discharge source removal.	Stormwater	Completed	2014	Butcher Pen Creek, Miramar Creek, Goodbys Creek	\$37,210	N/A	City
COJ	N/A	COJ-284	Participate in TAT Calls and Efforts	Continue participation in TAT coordination calls and other TAT efforts.	Source Identification Activities	Completed	2015	BMAP I Basinwide	N/A	Not provided	City
COJ	N/A	COJ-285	Source Identification Follow up	Assist DEP in following up on source identification results that indicate human source.	Source Identification Activities	Completed	2015	BMAP I Basinwide	N/A	Not provided	City
COJ	N/A	COJ-286	Sample Analysis	Continue BMAP monitoring, with adjustments made as needed, and follow up on high results per TAT protocol. Add <i>E. coli</i> and enterococci, as appropriate.	Source Identification Activities	Completed	2015	BMAP I Basinwide	N/A	Not provided	City
COJ	N/A	COJ-287	Dumpster Inspection Program	Develop inspection program for dumpster areas and behind restaurants, convenience stores, and grocery stores.	Stormwater	Completed	2015	BMAP I Basinwide	N/A	Not provided	City
COJ	N/A	COJ-288	Tributary Clean Up and Search for Illicit Connections	Promote community awareness of waterbodies' health, organize annual community cleanups, and inspect for illicit connections. This will occur in 10 WBIDs over next 5 years.	Trash Cleanup of Impaired Waterbody	Completed	2015	Deer Creek (2016), Goodbys Creek (2016, 2017), Big Fishweir Creek (2015-17), Butcher Pen Creek (2016,	N/A	Not provided	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
								2017), Hogan Creek (2015–17), Miller Creek (2016)			
COJ	N/A	COJ-289	Investigate Re-Routed Stormwater	Investigate stormwater projects in each BMAP WBID that may have diverted stormwater away from tributaries.	Stormwater	Completed	2015	BMAP I Basinwide	N/A	Not provided	City
COJ	N/A	COJ-290	Walk the WBID Follow Up	Address any action items identified as result of 2014 Walk the WBID.	Source Identification Activities	Completed	2015	BMAP I Basinwide	Not provided	N/A	City
COJ	N/A	COJ-291	Contractor Pond Maintenance	Vegetation management and remove litter.	Stormwater	Completed	2015	BMAP I Basinwide	N/A	Not provided	City
COJ	N/A	COJ-292	Work Type: Flooding	CARE response and proactive roadway/building flooding and general drainage problems.	Stormwater	Completed	2016	BMAP I Basinwide	N/A	Not provided	City
COJ	N/A	COJ-293	Work Type: Structure Cleaning	CARE response and proactive MS4 maintenance work orders.	Stormwater	Completed	2016	BMAP I Basinwide	N/A	Not provided	City
COJ	N/A	COJ-001	St Augustine Rd. (Emerson to US Hwy. 1) (Main Stem COJ-7)	Not provided.	Stormwater	Completed	Prior to 2010	Craig Creek	Not provided	Not provided	City
COJ	N/A	COJ-002	Vale Orchard Lane St. Improvements	Address area where previous street repair has settled and damaged side curbing.	Stormwater	Completed	2011	Craig Creek	Not provided	Not provided	City
COJ	N/A	COJ-003, COJ-037, COJ-058, COJ-081, COJ-103, COJ-124, COJ-147, COJ-163, COJ-175, COJ-192, COJ-208, COJ-225, COJ-244, COJ-268, COJ-288	Ditch /Creek Regrade/Erosion/Clean	All maintenance activities presented were completed in response to CARE requests. Costs shown are limited to activities completed after release of work order system.	Stormwater	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Creek, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$541,725	N/A	City
COJ	N/A	COJ-004, COJ-038, COJ-059, COJ-082, COJ-104, COJ-125, COJ-148, COJ-176, COJ-193, COJ-209, COJ-226, COJ-245, COJ-269, COJ-289	Lake or Pond Problem	All maintenance activities presented were completed in response to CARE requests. Costs shown are limited to activities completed after release of work order system.	Stormwater	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Cormorant Creek, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg	\$4,719	N/A	City



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
								Creek, Middle Trout River, Lower Trout River			
COJ	N/A	COJ-005, COJ-039, COJ-060, COJ-083, COJ-105, COJ-126, COJ-149, COJ-164, COJ-177, COJ-194, COJ-210, COJ-227, COJ-246, COJ-270, COJ-290	Structure Blocked/Repair/General Flooding	All maintenance activities presented were completed in response to CARE requests. Costs shown are limited to activities completed after release of work order system.	Stormwater	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Creek, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$277,721	N/A	City
COJ	N/A	COJ-006, COJ-040, COJ-061, COJ-084, COJ-106, COJ-127, COJ-150, COJ-165, COJ-178, COJ-195, COJ-211, COJ-247, COJ-271, COJ-291	Illicit Water Discharge	CARE initiated inspection.	Stormwater	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Creek, Wills Branch, Sherman Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$39,037	N/A	City
COJ	N/A	COJ-007, COJ-041, COJ-062, COJ-085, COJ-107, COJ-128, COJ-151, COJ-166, COJ-179, COJ-196, COJ-212, COJ, 228, COJ-248, COJ-272, COJ-292	Pollution Water Illegal Discharge	CARE initiated inspection.	Stormwater	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Creek, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$44,722	N/A	City
COJ	N/A	COJ-008, COJ-042, COJ-063, COJ-086,	Sewer Drains into Yard/Ditch	CARE initiated inspection.	Stormwater	Completed	Prior to 2010	Craig Creek, McCoy Creek,	\$18,571	N/A	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
		COJ-108, COJ-129, COJ-152, COJ-167, COJ-197, COJ-213, COJ-229, COJ-249, COJ-273, COJ-293						Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River			
COJ	N/A	COJ-009, COJ-043, COJ-064, COJ-087, COJ-109, COJ-130, COJ-153, COJ-168, COJ-180, COJ-198, COJ-241, COJ-230, COJ-250, COJ-274, COJ-294	Sewer Overflow	CARE initiated inspection.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Creek, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$117,490	N/A	City
COJ	N/A	COJ-010, COJ-044, COJ-065, COJ-091, COJ-110, COJ-132, COJ-154, COJ-169, COJ-181, COJ-199, COJ-215, COJ-231, COJ-252, COJ-275	Private Lift Station Inspection	Private lift station inspection and update GIS coverage.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Creek, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River	\$211,861	N/A	City
COJ	N/A	COJ-011, COJ-045, COJ-066, COJ-092, COJ-111, COJ-133, COJ-155, COJ-170, COJ-182, COJ-200, COJ-216, COJ-232, COJ-253, COJ-276, COJ-296	GIS Coverage Update	Update and verify private lift station GIS coverage.	Sanitary Sewer	Completed	2011	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins	Not provided	N/A	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
								Creek, Cormorant Creek, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River			
COJ	N/A	COJ-012, COJ-048, COJ-068, COJ-093, COJ-113, COJ-135, COJ-158, COJ-172, COJ-185, COJ-202, COJ-218, COJ-234, COJ-256, COJ-278, COJ-300	IDDE	Identify and remove illicit connections if found to be illicit.	Stormwater	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Creek, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$135,915	N/A	City
COJ	N/A	COJ-013, COJ-049, COJ-069, COJ-094, COJ-114, COJ-136, COJ-186, COJ-203, COJ-219, COJ-257, COJ-301	Follow Up on Outstanding PICs	Follow up on 2 open PICs in watershed.	Stormwater	Completed	2011	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Cormorant Creek, Wills Branch, Sherman Creek, Pottsburg Creek, Lower Trout River	\$32,693	N/A	City
COJ	N/A	COJ-014, COJ-050, COJ-070, COJ-095, COJ-115, COJ-137, COJ-159, COJ-173, COJ-187, COJ-204, COJ-220, COJ-235, COJ-258, COJ-279, COJ-302	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling.	Source Identification Activities	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Creek, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	N/A	Not provided	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
COJ	N/A	COJ-015, COJ-051, COJ-071, COJ-138	TAT Sampling	Conducted by COJ EQD to assess bacteria levels in creek and help identify potential fecal bacteria sources.	Source Identification Activities	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Moncrief Creek	N/A	Not provided	City
COJ	N/A	COJ-016	Freeman Rd./Inwood Failure Area– Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2010	Craig Creek	Not provided	N/A	City
COJ	N/A	COJ-017	Emerson Failure Area– Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2010	Craig Creek	Not provided	N/A	City
COJ	N/A	COJ-018, COJ-055, COJ-074, COJ-098, COJ-118, COJ-143, COJ-160, COJ-189, COJ-205, COJ-222, COJ-237, COJ-262, COJ-281, COJ-305	Septic Tanks Outside Failure Area– Septic Tank Phase Out	Phase out program as provided by COJ ordinance.	OSTDS	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Cormorant Creek, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	Not provided	Not provided	City
COJ	N/A	COJ-019, COJ-056, COJ-075, COJ-099, COJ-119, COJ-144, COJ-161, COJ-190, COJ-206, COJ-223, COJ-238, COJ-263, COJ-282, COJ-306	Septic Tank Maintenance Public Education	PSAs.	OSTDS	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Cormorant Creek, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	N/A	Not provided	City
COJ	N/A	COJ-020, COJ-057, COJ-076, COJ-100, COJ-120, COJ-145, COJ-162, COJ-191, COJ-207, COJ-224, COJ-239, COJ-264, COJ-283, COJ-307	Pet/Animal Management Public Education	PSAs.	Stormwater	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Cormorant Creek, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg	N/A	Not provided	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
								Creek, Middle Trout River, Lower Trout River			
COJ	N/A	COJ-021	Lenox Ave. (Hwy. to McDuff) (Main Stem COJ-32)	Construct wet detention pond.	Stormwater	Completed	Prior to 2010	McCoy Creek	Not provided	Not provided	City
COJ	N/A	COJ-022	McCoy Creek (Main Stem COJ-3)	Construct Ponds A and B.	Stormwater	Completed	Prior to 2010	McCoy Creek	Not provided	Not provided	City
COJ	N/A	COJ-023	McCoy Creek (Main Stem COJ-4)	Construct Pond F.	Stormwater	Completed	Prior to 2010	McCoy Creek	Not provided	Not provided	City
COJ	N/A	COJ-024	McCoy Creek (Main Stem COJ-22)	Construct Pond D.	Stormwater	Completed	Prior to 2010	McCoy Creek	Not provided	Not provided	City
COJ	N/A	COJ-025	McCoy Creek–Air Liquid Site	Retrofit pond and drainage.	Stormwater	Underway	TBD	McCoy Creek	\$1,000,000	Not provided	City
COJ	N/A	COJ-026	McCoy Creek Pond C	Construct pond, Hollybrook Park.	Stormwater	Completed	2013	McCoy Creek	\$3,955,522	Not provided	City
COJ	N/A	COJ-027	Melba St. and Green St.	Construct wet detention pond.	Stormwater	Completed	2011	McCoy Creek	\$2,701,500	Not provided	City
COJ	N/A	COJ-028	McCoy Creek	Construct Broward/Smith Pond.	Stormwater	Completed	2011	McCoy Creek	\$97,000	Not provided	City
COJ	N/A	COJ-029	Ontario St. Drainage Improvements	Implement drainage improvements to address flooding at 795 Ontario.	Stormwater	Completed	2011	McCoy Creek	Not provided	Not provided	City
COJ	N/A	COJ-030	Spruce/Price Drainage Improvements	Implement drainage improvements to address flooding at intersection during heavy rains.	Stormwater	Completed	2011	McCoy Creek	Not provided	Not provided	City
COJ	N/A	COJ-031	Correct Drainage at Westbrook Cir. West	Implement drainage improvements to address flooding at 1025 Westbrook.	Stormwater	Completed	2011	McCoy Creek	Not provided	Not provided	City
COJ	N/A	COJ-032	Correct Road Flooding at Labelle St.	Implement drainage improvements to address inadequate underdrain system that allows flooding.	Stormwater	Completed	2011	McCoy Creek	Not provided	Not provided	City
COJ	N/A	COJ-033	Winter St.	Implement drainage improvements to address ponding water.	Stormwater	Completed	Prior to 2010	McCoy Creek	Not provided	Not provided	City
COJ	N/A	COJ-034	Barber St. and Broadway Ave.	Implement drainage improvements to address flooding at intersection.	Stormwater	Completed	Prior to 2010	McCoy Creek	Not provided	Not provided	City
COJ	N/A	COJ-035	Dignan St./Day Ave.	Reconstruct ditches and culverts to provide positive drainage.	Stormwater	Completed	Prior to 2010	McCoy Creek	\$63,408	N/A	City
COJ	N/A	COJ-036	Acorn St. SW and Drainage	Replace sidewalks, install new curbing, and construct new drainage infrastructure on Acorn between McQuade St. and Windle St.	Stormwater	Completed	Prior to 2010	McCoy Creek	\$100,507	N/A	City
COJ	N/A	COJ-046	Verify Location of Private Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report	Sanitary Sewer	Completed	2011	McCoy Creek	Not provided	N/A	City
COJ	N/A	COJ-047	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report.	Sanitary Sewer	Completed	2011	McCoy Creek	Not provided	N/A	City
COJ	N/A	COJ-052, COJ-096, COJ-116, COJ-139, COJ-221, COJ236, COJ-280, COJ-315,	Source Identification Sampling	Conduct source identification sampling when high levels of fecal coliform bacteria are noted.	Source Identification Activities	Completed	Prior to 2010	McCoy Creek, Fishing Creek, Deep Bottom Creek, Moncrief	N/A	Not provided	City



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
		COJ-332, COJ-334, COJ-336, COJ-338, COJ-343, COJ-345, COJ-352						Creek, Sherman Creek, Greenfield Creek, Middle Trout River, Craig Creek, Blockhouse Creek, Hopkins Creek, Cormorant Branch, Wills Branch, Pottsburg Creek, Lower Trout River, Williamson Creek			
COJ	N/A	COJ-053	Follow Up on Thermal Anomalies	Using thermal imagery, followed up on anomalies in WBID; none were fecal coliform source.	Source Identification Activities	Completed	Prior to 2010	McCoy Creek	N/A	Not provided	City
COJ	N/A	COJ-054	Murray Hill A Failure Area – Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2010	McCoy Creek	Not provided	N/A	City
COJ	N/A	COJ-057	Cedar River Failure Area – Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2010	Williamson Creek	Not provided	N/A	City
COJ	N/A	COJ-067, COJ-089, COJ-112, COJ-156, COJ-171, COJ-183, COJ-201, COJ-233, COJ-254, COJ-298	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report.	Sanitary Sewer	Completed	2011	Williamson Creek, Fishing Creek, Deep Bottom Creek, Blockhouse Creek, Hopkins Creek, Cormorant Creek, Wills Branch, Greenfield Creek, Pottsburg Creek, Lower Trout River	\$500	N/A	City
COJ	N/A	COJ-072	Walk the WBID	Participated in Walk the WBID reconnaissance efforts and TAT sampling.	Source Identification Activities	Completed	Prior to 2010	Williamson Creek	Not provided	N/A	City
COJ	N/A	COJ-077	La Moya Roadway Project (Main Stem COJ-42)	Construct wet detention pond.	Stormwater	Completed	Prior to 2010	Fishing Creek	Not provided	Not provided	City
COJ	N/A	COJ-078	Wesconnett Blvd. (Blanding to Blanding) (Main Stem COJ-33)	Construct wet detention pond.	Stormwater	Completed	Prior to 2010	Fishing Creek	Not provided	Not provided	City
COJ	N/A	COJ-079	Replace Cross Drain at Perrine Dr.	Replace cross drain—too small to handle drainage area.	Stormwater	Completed	2011	Fishing Creek	Not provided	N/A	City
COJ	N/A	COJ-080	Redstone Dr. Drainage	Install cross drain and improve ditches.	Stormwater	Completed	Prior to 2010	Fishing Creek	\$150,000	N/A	City
COJ	N/A	COJ-088, COJ-131, COJ-251, COJ-295	Septic Tank Inspection	CAR- initiated inspection.	Sanitary Sewer	Completed	Prior to 2010	Lower Trout River, Fishing Creek, Moncrief Creek, Pottsburg Creek	\$107,257	N/A	City
COJ	N/A	COJ-090, COJ-134, COJ-157, COJ-184,	Pump Station Inspections	Inspect pump stations near surface waters to ensure they are functioning	Sanitary Sewer	Completed	2011	Fishing Creek, Moncrief Creek,	\$500	N/A	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
		COJ-217, COJ-255, COJ-277, COJ-299		properly and report status in first annual report.				Blockhouse Creek, Cormorant Creek, Sherman Creek, Pottsburg Creek, Middle Trout River, Lower Trout River			
COJ	N/A	COJ-097	Pernecia Failure Area–Septic Tank Phase Out	Phase out septic tanks in failure areas.	OSTDS	Completed	Prior to 2010	Fishing Creek	Not provided	N/A	City
COJ	N/A	COJ-101	Crown Point and Moorings Landing Drainage	Investigate ponds and design sewer across Crown Point.	Stormwater	Completed	2011	Deep Bottom Creek	Not provided	N/A	City
COJ	N/A	COJ-102	Cypresswood and Silkwood Intersection Improvements	Improve intersection – failing cross drain causing road to wash out.	Stormwater	Completed	Prior to 2010	Deep Bottom Creek	\$100,000	N/A	City
COJ	N/A	COJ-117	Scott Mill Failure Area–Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2010	Deep Bottom Creek	Not provided	N/A	City
COJ	N/A	COJ-121	Moncrief Creek (Main Stem COJ-27)	Construct wet detention pond at 30th St. West and Leonard Cir. West.	Stormwater	Completed	Prior to 2010	Moncrief Creek	Not provided	N/A	City
COJ	N/A	COJ-122	Royal Terrace Phases A, B, C, D, E, 1, 2, 3, 4 (Main Stem COJ-18)	Construct wet detention pond at 45th St. West and Ave. B.	Stormwater	Completed	Prior to 2010	Moncrief Creek	Not provided	Not provided	City
COJ	N/A	COJ-123	49th and Pearl	Implement drainage improvements–ponding water floods yard.	Stormwater	Completed	2011	Moncrief Creek	Not provided	Not provided	City
COJ	N/A	COJ-140	Lake Forest Failure Area–Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2010	Lower Trout River	Not provided	Not provided	City
COJ	N/A	COJ-141	Cristobel Failure Area–Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2010	Moncrief Creek	Not provided	Not provided	City
COJ	N/A	COJ-142	Royal Terrace Failure Area–Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2010	Moncrief Creek	Not provided	Not provided	City
COJ	N/A	COJ-146	Jennings Rd./Lem Turner Rd.	Repair failed cross drain.	Stormwater	Completed	Prior to 2010	Blockhouse Creek	\$23,000	N/A	City
COJ	N/A	COJ-174	Lorretto Rd. (SR 13 to Old St. Augustine Rd.) (Main Stem COJ-16)	Construct wet detention pond.	Stormwater	Completed	Prior to 2010	Cormorant Branch	Not provided	Not provided	City
COJ	N/A	COJ-188	Julington Hills Failure Area–Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2010	Cormorant Branch	Not provided	N/A	City
COJ	N/A	COJ-240	Barnes Rd. (University Blvd. to Parental Home) (Main Stem COJ-11)	Construct wet detention pond.	Stormwater	Completed	Prior to 2010	Pottsburg Creek	Not provided	Not provided	City
COJ	N/A	COJ-241	Parental Home Rd. Phase 2 (Beach Blvd. to Ibach Rd.) (Main Stem COJ-15)	Construct wet detention pond.	Stormwater	Completed	Prior to 2010	Pottsburg Creek	Not provided	Not provided	City
COJ	N/A	COJ-242	Parental Home Rd. Phase 1 (Bowden Rd. from	Construct wet detention pond.	Stormwater	Completed	Prior to 2010	Pottsburg Creek	Not provided	Not provided	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
			Salisbury to Dean Rd.) (Main Stem COJ-14)								
COJ	N/A	COJ-243	Wren Rd. Drainage	Implement drainage improvements along Wren Rd.	Stormwater	Completed	2011	Pottsburg Creek	\$45,000	N/A	City
COJ	N/A	COJ-259	Glynlea Failure Area-- Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2010	Pottsburg Creek	Not provided	N/A	City
COJ	N/A	COJ-260	Oakhaven Failure Area-- Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2010	Pottsburg Creek	Not provided	N/A	City
COJ	N/A	COJ-261	Murray Hill Failure Area-- Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2010	Pottsburg Creek	Not provided	N/A	City
COJ	N/A	COJ-265	Messer Area Drainage	Provide positive drainage to eliminate flooding; completion in 2013.	Stormwater	Planned	TBD	Middle Trout River	\$4,750,000	N/A	City
COJ	N/A	COJ-266	Garden St. Drainage Improvements	Address flooding at intersection of Garden St. and Iowa Ave.	Stormwater	Completed	2011	Middle Trout River	\$158,170	N/A	City
COJ	N/A	COJ-267	Allene Rd. Ditch Improvement	Address problem with eroding ditch that is flooding street.	Stormwater	Completed	2011	Middle Trout River	Not provided	N/A	City
COJ	N/A	COJ-284	Sherwood Forest Area	Implement project to reduce flooding.	Stormwater	Completed	Prior to 2010	Lower Trout River	\$3,190,400	N/A	City
COJ	N/A	COJ-285	La Villa Brooklyn (Broward Rd. at Smith Rd.)	Implement flood-control project and compensatory treatment for new downtown library.	Stormwater	Completed	2011	Lower Trout River	\$2,750,000	N/A	City
COJ	N/A	COJ-286	Riverview North	Implement wet detention/flood-control project.	Stormwater	Completed	Prior to 2010	Lower Trout River	\$1,646,045	N/A	City
COJ	N/A	COJ-287	Soutel/Bassett Drainage Improvements	Implement drainage improvements -- drain pipe beyond pond is 1 ft too high.	Stormwater	Completed	2011	Lower Trout River	Not provided	N/A	City
COJ	N/A	COJ-297	Private Lift Station Inspection	Inspect 9 private lift stations in WBID.	Sanitary Sewer	Completed	Prior to 2010	Lower Trout River	\$20,466	N/A	City
COJ	N/A	COJ-303	Lake Forest Failure Area-- Septic Tank Phase Out	Phase out septic tanks in failure areas.	OSTDS	Completed	Prior to 2010	Moncrief Creek	Not provided	N/A	City
COJ	N/A	COJ-304	Riverview Failure Area-- Septic Tank Phase Out	Phase out septic tanks in failure areas (also listed as part of larger LSJR Main Stem BMAP project).	OSTDS	Completed	Prior to 2010	Lower Trout River	Not provided	N/A	City
COJ	N/A	COJ-308	Harbor Cove/Inwood Terr.	Drainage improvement.	Stormwater	Completed	2011	Craig Creek	\$1,342	Not provided	City
COJ	N/A	COJ-309	Kingswood/Berwick Rd.	Road drainage design.	Stormwater	Completed	2011	Craig Creek	\$1,102	Not provided	City
COJ	N/A	COJ-310	Kingswood/Berwick Rd.	Road drainage construction.	Stormwater	Completed	2012	Craig Creek	\$23,060	Not provided	City
COJ	N/A	COJ-311	Berwick Rd.	Drainage improvement.	Stormwater	Completed	2013	Craig Creek	\$25,149	Not provided	City
COJ	N/A	COJ-312	Phillips Hwy. Pond	Wet detention pond.	Stormwater	Planned	TBD	Craig Creek	\$1,100,000	Not provided	City
COJ	N/A	COJ-313	Pine Forest	Wet detention pond.	Stormwater	Underway	TBD	Craig Creek	\$5,882,478	Not provided	City
COJ	N/A	COJ-314	Inwood Terrace	Drainage improvement.	Stormwater	Completed	2011	Craig Creek	\$650,000	Not provided	City
COJ	N/A	COJ-316	McCoy Creek Blvd	Channel improvement.	Stormwater	Planned	TBD	McCoy Creek	\$2,800,000	Not provided	City
COJ	N/A	COJ-317	Newtown Drainage Improvements	Wet detention pond.	Stormwater	Completed	2016	McCoy Creek	\$5,791,000	Not provided	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
COJ	N/A	COJ-318	Superior and Carter	Drainage improvement.	Stormwater	Completed	2013	McCoy Creek	\$40,583	Not provided	City
COJ	N/A	COJ-319	RSF w/MAPS	RSF w/MAPS.	Stormwater	Planned	BD	Williamson Creek	\$366,429	Not provided	City
COJ	N/A	COJ-320	Hugh Edwards Drainage	Wet detention pond.	Stormwater	Completed	2011	Williamson Creek	\$1,400,00	Not provided	City
COJ	N/A	COJ-321	6700 Jack Horner Lane	Drainage improvement.	Stormwater	Completed	2011	Williamson Creek	\$48,853	Not provided	City
COJ	N/A	COJ-323	RSF – MSMP	RSF w/MAPS + channel lining.	Stormwater	Planned	TBD	Fishing Creek	\$1,812,527	Not provided	City
COJ	N/A	COJ-324	4922 Ricker Rd.	Drainage improvement.	Stormwater	Completed	2013	Fishing Creek	\$77,660	Not provided	City
COJ	N/A	COJ-325	7560 Melvin Rd.	Drainage improvement.	Stormwater	Completed	2013	Fishing Creek	\$51,991	Not provided	City
COJ	N/A	COJ-326	Antoinette Lane	Outfall repair.	Stormwater	Completed	2013	Fishing Creek	\$149,071	N/A	City
COJ	N/A	COJ-327, COJ-329, COJ-333, COJ-341, COJ-355	BMAP Monitoring	COJ EQD is responsible for 4 sites (2 sampled monthly and 2 sampled quarterly), began Dec. 2010.	Source Identification Activities	Completed	2011	Fishing Creek, Deep Bottom Creek, Hopkins Creek, Sherman Creek, Cormorant Creek	N/A	Not provided	City
COJ	N/A	COJ-328	Pond Near Senior Center – MSMP	Wet detention pond.	Stormwater	Planned	TBD	Deep Bottom Creek	\$2,100,000	Not provided	City
COJ	N/A	COJ-330	RSF – MSMP	RSF + bank.	Stormwater	Planned	TBD	Moncrief Creek	\$6,700,000	Not provided	City
COJ	N/A	COJ-331	Chestnut Dr.	Drainage improvements.	Stormwater	Completed	2012	Moncrief Creek	\$23,350	Not provided	City
COJ	N/A	COJ-335	RSF – MSMP	2-ac facility + 2 to 5-ft CMP + bank.	Stormwater	Planned	TBD	Cormorant Branch	\$6,700,000	Not provided	City
COJ	N/A	COJ-337	1591 Lane Ave. South	Drainage improvements.	Stormwater	Completed	2013	Wills Branch	\$67,924	Not provided	City
COJ	N/A	COJ-339	RSF – MSMP	5-ac facility + conveyance improvements.	Stormwater	Planned	TBD	Sherman Creek	\$1,800,000	Not provided	City
COJ	N/A	COJ-340	Renault/Apollo	Drainage improvements.	Stormwater	Completed	2012	Sherman Creek	\$62,972	Not provided	City
COJ	N/A	COJ-342	RSF – MSMP	8-ac facility + 7.5-ac facility + MAPS in existing ponds.	Stormwater	Planned	TBD	Pottsburg Creek	\$11,112,000	Not provided	City
COJ	N/A	COJ-344	Riverview Area Drainage Improvements	Drainage improvements.	Stormwater	Completed	2011	Lower Trout River	\$1,400,000	Not provided	City
COJ	N/A	COJ-346	1633 Berwick	Road drainage design.	Stormwater	Completed	2013	Craig Creek	\$48,222	Not provided	City
COJ	N/A	COJ-347, COJ-362, COJ-373	Ditch Hazardous Contaminated	All maintenance activities presented were completed in response to CARE requests.	Stormwater	Completed	2012	Craig Creek, Wills Branch, Moncrief Creek	Not provided	Not provided	City
COJ	N/A	COJ-348	Orchard St.	Outfall improvement.	Stormwater	Completed	2013	McCoy Creek	\$9,436	N/A	City
COJ	N/A	COJ-349	2980 Ernest St.	Drainage improvements.	Stormwater	Completed	2013	McCoy Creek	\$20,662	Not provided	City
COJ	N/A	COJ-350	Wilson Blvd.	Culvert replacement.	Stormwater	Completed	2013	Williamson Creek	\$5,521	N/A	City
COJ	N/A	COJ-351	6700 Jack Horner Lane	Drainage improvement.	Stormwater	Completed	2012	Williamson Creek	\$48,853	Not provided	City
COJ	N/A	COJ-353	Timawatha Ave.	Drainage improvement.	Stormwater	Completed	2013	Fishing Creek	\$27,837	Not provided	City
COJ	N/A	COJ-354	Tampico Rd.	Drainage improvement.	Stormwater	Completed	2013	Fishing Creek	\$25,662	Not provided	City
COJ	N/A	COJ-356	1121 Cahoon Rd.	Drainage improvement.	Stormwater	Completed	2013	Wills Branch	\$251,529	Not provided	City
COJ	N/A	COJ-357	Cahoon North of Homestead Oaks	Drainage improvement.	Stormwater	Completed	2013	Wills Branch	\$22,232	Not provided	City
COJ	N/A	COJ-358	Cahoon and Burma	Drainage improvement.	Stormwater	Completed	2013	Wills Branch	\$64,267	Not provided	City



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
COJ	N/A	COJ-359	Cahoon (Burma North of Homestead Oaks Dr.)	Culvert improvement.	Stormwater	Completed	2013	Wills Branch	\$1,303	Not provided	City
COJ	N/A	COJ-360	Golfview West	Drainage improvement.	Stormwater	Completed	2013	Wills Branch	\$24,832	Not provided	City
COJ	N/A	COJ-361	Golfview West	Drainage improvement.	Stormwater	Completed	2013	Wills Branch	\$61,174	Not provided	City
COJ	N/A	COJ-363	3051 Herring Rd.	Drainage improvement.	Stormwater	Completed	2013	Pottsburg Creek	\$26,162	Not provided	City
COJ	N/A	COJ-363	Renault Dr./Apollo Dr. Part 2	Drainage improvements.	Stormwater	Completed	2013	Sherman Creek	\$13,789	Not provided	City
COJ	N/A	COJ-364	8602 Emerald Isle Cir. South	Drainage improvement.	Stormwater	Completed	2013	Pottsburg Creek	\$64,764	Not provided	City
COJ	N/A	COJ-365	Leafy Lanes	Drainage improvement.	Stormwater	Completed	2013	Pottsburg Creek	\$3,389	Not provided	City
COJ	N/A	COJ-366	10309 Iowa Ave.	Drainage improvement.	Stormwater	Completed	2013	Middle Trout River	\$86,748	Not provided	City
COJ	N/A	COJ-367	8921 Messer Rd.	Drainage improvement.	Stormwater	Completed	2013	Middle Trout River	\$25,671	Not provided	City
COJ	N/A	COJ-368	Sycamore Lane	Drainage improvement.	Stormwater	Completed	2013	Middle Trout River	\$51,186	Not provided	City
COJ	N/A	COJ-369	10435 Biscayne Blvd.	Drainage improvement.	Stormwater	Completed	2013	Lower Trout River	\$35,071	Not provided	City
COJ	N/A	COJ-370	120 Franklin St.	Drainage improvement.	Stormwater	Completed	2013	Lower Trout River	\$29,225	Not provided	City
COJ	N/A	COJ-371	904 Brandywine	Drainage improvement.	Stormwater	Completed	2013	Lower Trout River	\$366	Not provided	City
COJ	N/A	COJ-372	Gregory Place	Drainage improvement.	Stormwater	Completed	2013	Lower Trout River	\$18,361	Not provided	City
COJ	N/A	COJ-374	1025 Oriental Gardens	Construction.	Stormwater	Underway	TBD	Craig Creek	\$11,457	Not provided	City
COJ	N/A	COJ-375	Cecelia St.	Design.	Stormwater	Planned	TBD	McCoy Creek	\$31,209	Not provided	City
COJ	N/A	COJ-376	Nolan St @ Shearer Av	Design.	Stormwater	Planned	TBD	McCoy Creek	\$29,622	Not provided	City
COJ	N/A	COJ-377	Stockton St @ Edison Ave.	Storm sewer.	Stormwater	Completed	2014	McCoy Creek	\$13,713	N/A	City
COJ	N/A	COJ-378	Baldwin St.	Storm sewer.	Stormwater	Completed	2014	McCoy Creek	\$7,055	N/A	City
COJ	N/A	COJ-379	McCoys Creek @ Stockton St.	Storm sewer.	Stormwater	Completed	2014	McCoy Creek	\$7,123	N/A	City
COJ	N/A	COJ-380	Edison Ave. @ Lime Ave.	Storm sewer.	Stormwater	Completed	2014	McCoy Creek	\$27,772	N/A	City
COJ	N/A	COJ-381	Ledbury Dr. South at Anvers Blvd.	Storm sewer.	Stormwater	Completed	2014	Williamson Creek	\$4,328	N/A	City
COJ	N/A	COJ-382	6985 Wheat Rd.	Cave in.	Stormwater	Underway	TBD	Fishing Creek	\$5,306	N/A	City
COJ	N/A	COJ-383	6211 Firestone Rd.	Storm sewer.	Stormwater	Underway	TBD	Fishing Creek	\$42,318	N/A	City
COJ	N/A	COJ-384	4631 Benlocke Rd.	Storm sewer.	Stormwater	Underway	TBD	Fishing Creek	\$25,635	N/A	City
COJ	N/A	COJ-385	6562 Albicore Rd.	Storm sewer.	Stormwater	Completed	2014	Fishing Creek	\$1,973	N/A	City
COJ	N/A	COJ-386	5134 Ricker	Storm sewer.	Stormwater	Completed	2014	Fishing Creek	\$7,158	N/A	City
COJ	N/A	COJ-387	Helena St.	Storm sewer.	Stormwater	Completed	2014	Moncrief Creek	\$12,557	N/A	City
COJ	N/A	COJ-388	Chestnut Dr.	Construction.	Stormwater	Underway	TBD	Moncrief Creek	\$121,439	Not provided	City
COJ	N/A	COJ-389	University St.	Pond cease/desist.	Stormwater	Completed	2014	Moncrief Creek	\$15,999	N/A	City
COJ	N/A	COJ-390	3078 Purdom Dr.	Storm sewer.	Stormwater	Completed	2014	Cormorant Branch	\$3,511	N/A	City
COJ	N/A	COJ-391	Sewer Drains into Yard/Ditch	CARE-initiated inspection.	Stormwater	Completed	2013	Cormorant Branch	\$379	N/A	City
COJ	N/A	COJ-392	Hanson at Londonberry	Drain line.	Stormwater	Underway	TBD	Wills Branch	\$78,649	N/A	City



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
COJ	N/A	COJ-393	2444 Buttonwood Dr.	Storm sewer.	Stormwater	Underway	TBD	Pottsburg Creek	\$7,090	N/A	City
COJ	N/A	COJ-394	7518 Holiday Rd. S	Storm sewer.	Stormwater	Underway	TBD	Pottsburg Creek	\$5,974	N/A	City
COJ	N/A	COJ-395	8362 Hidden Lake	Storm sewer.	Stormwater	Underway	TBD	Pottsburg Creek	\$5,369	N/A	City
COJ	N/A	COJ-396	548 Bay Ridge Rd	Storm sewer.	Stormwater	Underway	TBD	Pottsburg Creek	\$2,616	N/A	City
COJ	N/A	COJ-397	Old Kings Rd.	Storm sewer rehabilitation.	Stormwater	Completed	2014	Middle Trout River	\$7,348	N/A	City
COJ	N/A	COJ-398	Moncrief-Dinsmore	Storm sewer rehabilitation.	Stormwater	Completed	2014	Middle Trout River	\$34,570	N/A	City
COJ	N/A	COJ-399	Iowa Ave. at Macklin St.	Drain line.	Stormwater	Underway	TBD	Middle Trout River	\$115,699	N/A	City
COJ	N/A	COJ-400	3307 Trout River	Drain line.	Stormwater	Underway	TBD	Lower Trout River	\$154,325	N/A	City
COJ	N/A	COJ-401	5330 Roanoke Blvd.	Cave in.	Stormwater	Completed	2014	Lower Trout River	\$4,985	N/A	City
COJ	N/A	COJ-402	Donnybrook Ave.	Storm sewer.	Stormwater	Completed	2014	Lower Trout River	\$34,910	N/A	City
COJ	N/A	COJ-403	Baldwin St. @ Barber St.	Storm sewer.	Stormwater	Completed	2014	Lower Trout River	\$30,103	N/A	City
COJ	N/A	COJ-404	10602 Civic Club Cr.	Drain line.	Stormwater	Completed	2014	Lower Trout River	\$41,850	N/A	City
COJ	N/A	COJ-405, COJ-407, COJ-409, COJ-411, COJ-413, COJ-415, COJ-417, COJ-418, COJ-419, COJ-420	Stormwater Action Team Proactive Maintenance Program	Roadside and outfall ditch regrades, vegetation removal, illegal dumping cleanup, and illicit discharge source removal.	Stormwater	Completed	2014	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Moncrief Creek, Blockhouse Creek, Cormorant Creek, Wills Branch, Pottsburg Creek, Middle Trout River	\$236,724	N/A	City
COJ	N/A	COJ-406, COJ-408, COJ-410, COJ-412, COJ-414, COJ-416	Outfall Ditch Vegetation Management	Herbicide spraying and litter removal.	Stormwater	Completed	2014	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Moncrief Creek, Blockhouse Creek	\$35,981	N/A	City
COJ	N/A	COJ-421	Contractor Pond Maintenance	Vegetation management and remove litter.	Stormwater	Completed	2015	BMAP II Basinwide	\$219,835	N/A	City
COJ	N/A	COJ-422	Participate in TAT Calls and Efforts	Continue participation in TAT coordination calls and other TAT efforts.	Source Identification Activities	Completed	2015	BMAP II Basinwide	N/A	Not provided	City
COJ	N/A	COJ-423	Source Identification Follow Up	Assist DEP in following up on source identification results that indicate human source.	Source Identification Activities	Completed	2015	BMAP II Basinwide	N/A	Not provided	City
COJ	N/A	COJ-424	Sample Analysis	Continue BMAP monitoring, with adjustments made as needed, and follow up on high results per TAT protocol. Add <i>E. coli</i> and enterococci, as appropriate.	Source Identification Activities	Completed	2015	BMAP II Basinwide	N/A	Not provided	City
COJ	N/A	COJ-425	Dumpster Inspection Program	Develop inspection program for dumpster areas and behind restaurants, convenience stores, and grocery stores.	Stormwater	Completed	2015	BMAP II Basinwide	N/A	Not provided	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
COJ	N/A	COJ-426	Tributary Clean Up and Search for Illicit Connections	Promote community awareness of waterbodies' health, organize annual community clean ups, and inspect for illicit connections. This will occur in 2 WBIDs/yr.	Trash Cleanup of Impaired Waterbody	Completed	2015	Lower Trout River (2015-2017), Sherman Creek (2015-2017), Fishing Creek (2015-2017), Pottsburg Creek (2015-2017), Cormorant Creek (2016, 2017), McCoys (2015-2017, monthly), Hopkins Creek (2015-2017), Craig Creek (2017), Moncrief Creek (2017)	N/A	Not provided	City
COJ	N/A	COJ-427	Investigate Rerouted Stormwater	Investigate stormwater projects in each BMAP WBID that may have diverted stormwater away from tributaries.	Stormwater	Completed	2015	BMAP II Basinwide	N/A	Not provided	City
COJ	N/A	COJ-428	Walk the WBID Follow Up	Address any action items identified as result of Phase 2 Walk the WBID.	Source Identification Activities	Completed	2015	BMAP II Basinwide	Not provided	N/A	City
COJ	N/A	COJ-429	Work Type: Flooding	CARE response and proactive roadway/building flooding and general drainage problems.	Stormwater	Completed	2016	BMAP II Basinwide	Not provided	Not provided	City
COJ	N/A	COJ-430	Work Type: Structure Cleaning	CARE response and proactive MS4 maintenance work orders.	Stormwater	Completed	2016	BMAP II Basinwide	Not provided	Not provided	City
FDOH	N/A	FDOH, 004, FDOH-010, FDOH-017, FDOH-024, FDOH-032, FDOH-041, FDOH-047, FDOH-053, FDOH-060, FDOH-068	Application/Plan Review and Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system.	OSTDS	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$600	N/A	FDOH
FDOH	N/A	FDOH-001, FDOH-007, FDOH-013, FDOH-020, FDOH-028, FDOH-037, FDOH-045, FDOH-050, FDOH-056, FDOH-065	OSTDS Program	Implementation of programs to address septic systems as potential sources.	OSTDS	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$16,100	N/A	FDOH
FDOH	N/A	FDOH-002, FDOH-015, FDOH-022,	SWIM Project	Implement broad-ranging septic tank ordinance	OSTDS	Completed	Prior to 2009	Newcastle Creek, Butcher Pen Creek,	Not provided	Not provided	FDOH

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
		FDOH,030, FDOH-039, FDOH-058						Miller Creek, Miramar Creek, Big Fishweir Creek, Goodbys Creek			
FDOH	N/A	FDOH-003, FDOH-009, FDOH-016, FDOH-023, FDOH-031, FDOH-040, FDOH-046, FDOH-052, FDOH-059, FDOH-067	FDOH-Sponsored Training Programs	Annual training programs held for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals.	OSTDS	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$2,500	N/A	FDOH
FDOH	N/A	FDOH-005, FDOH-011, FDOH-018, FDOH-025, FDOH-033, FDOH-042, FDOH-048, FDOH-054, FDOH-061, FDOH-069	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually.	OSTDS	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	N/A	Not provided	FDOH
FDOH	N/A	FDOH-006, FDOH-012, FDOH-019, FDOH-026, FDOH-034, FDOH-043, FDOH-049, FDOH-055, FDOH-062, FDOH-070	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations.	OSTDS	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	N/A	\$750	FDOH
FDOH	N/A	FDOH-008, FDOH-014, FDOH-021, FDOH-029, FDOH-038, FDOH,051, FDOH-057, FDOH-066, FDOH-077, FDOH-078	Annual Operating Permit	Annual operating permits issued for performance-based treatment systems (PBTS), systems located in industrial manufacturing zones (IMZ), and commercial systems.	OSTDS	Completed	Prior to 2009	Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Terrapin Creek, Goodbys Creek, Open Creek, Newcastle Creek, Deer Creek	N/A	\$22,600	FDOH
FDOH	DEP	FDOH-027, FDOH-036, FDOH-044, FDOH-064, FDOH-071, FDOH-072, FDOH-073, FDOH-074, FDOH-075, FDOH-076	Intensive Inspection Program	Intensive geospecific inspections in selected WBIDs based on repair permit applications, water quality information, and site conditions; additional WBIDs may be identified in future based on assessment efforts.	OSTDS	Completed	Prior to 2009	Miller Creek, Miramar Creek, Big Fishweir Creek, Goodbys Creek, Newcastle Creek, Hogan Creek, Butcher Pen Creek, Deer Creek,	N/A	\$260,000	FDOH, DEP, EPA Section 319 Nonpoint Source Management Program Implementation Grant

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
								Terrapin Creek, Open Creek			
FDOH	N/A	FDOH-035	OSTDS on Brooker Rd.	Investigate home on Brooker Rd. with potential OSTDS issues.	OSTDS	Completed	Prior to 2009	Miramar Creek	Not provided	N/A	FDOH
FDOH	N/A	FDOH-063	Walk the WBID Efforts	Conduct Walk the WBID in central portion of watershed to identify sources	Source Identification Activities	Completed	Prior to 2009	Goodbys Creek	Not provided	N/A	FDOH
FDOH	N/A	FDOH-079	Participate in TAT Calls and Efforts	Continue participation in TAT coordination calls and other TAT efforts	Source Identification Activities	Completed	Prior to 2009	Countywide	N/A	Not provided	FDOH
FDOH	N/A	FDOH-080	Source Identification Follow Up	Assist DEP in following up on source identification results that indicate human source	Source Identification Activities	Completed	Prior to 2009	Countywide	N/A	Not provided	FDOH
FDOH	N/A	FDOH-081	Walk the WBID Follow up	Address any mutually agreed-on action items identified as result of 2014 Walk the WBID.	Source Identification Activities	Completed	Prior to 2009	Countywide	Not provided	N/A	FDOH
FDOH	N/A	FDOH-082	DBPR reporting as appropriate	Develop inspection program for dumpster areas and behind restaurants, convenience stores, and grocery stores	Stormwater	Completed	Prior to 2009	Countywide	N/A	Not provided	FDOH
FDOH	N/A	FDOH-118	Walk the WBID Follow-Up	Address any action items identified as result of 2014 Walk the WBID	Source Identification Activities	Completed	Prior to 2009	Countywide	Not provided	N/A	FDOH
FDOH	N/A	FDOH-001, FDOH-008, FDOH-014, FDOH-021, FDOH-029, FDOH-035, FDOH-043, FDOH-050, FDOH-057, FDOH-063, FDOH-070, FDOH-076, FDOH083, FDOH-091, FDOH-098	OSTDS Program	Implementation of programs to address septic systems as potential sources	OSTDS	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Branch, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	N/A	\$40,300	FDOH
FDOH	N/A	FDOH-002, FDOH-009, FDOH-015, FDOH-023, FDOH-036, FDOH-044, FDOH-051, FDOH-064, FDOH-071, FDOH-077, FDOH-084, FDOH-092, FDOH-099	Annual Operating Permit	Annual operating permits issued for performance-based treatment systems, systems located in industrial manufacturing zones, and commercial systems	OSTDS	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek,	N/A	\$38,550	FDOH

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
								Middle Trout River, Lower Trout River			
FDOH	N/A	FDOH-003, FDOH-016, FDOH-022, FDOH-030, FDOH-037, FDOH-058, FDOH-085, FDOH-100	SWIM Project	Implement broad-ranging septic tank ordinance.	OSTDS	Completed	Prior to 2010	Craig Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Cormorant Branch, Pottsburg Creek, Lower Trout River	N/A	Not provided	FDOH
FDOH	N/A	FDOH-004, FDOH-010, FDOH-017, FDOH-024, FDOH-031, FDOH-038, FDOH-045, FDOH-052, FDOH-059, FDOH-065, FDOH-072, FDOH-078, FDOH-086, FDOH-093, FDOH-101	FDOH-Sponsored Training Programs	Annual training programs held for septic tank contractors, certified plumbers, maintenance entities, and environmental health professionals.	OSTDS	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Branch, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$2,500	N/A	FDOH
FDOH	N/A	FDOH-005, FDOH-011, FDOH-018, FDOH-025, FDOH-032, FDOH-039, FDOH-046, FDOH-053, FDOH-060, FDOH-066, FDOH-073, FDOH-079, FDOH-087, FDOH-094, FDOH-102	Application/Plan Review and Site Evaluations	FDOH performs plan review and site evaluation for each application received for OSTDS new construction, repair, or modification of existing system.	OSTDS	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Branch, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	N/A	Not provided	FDOH
FDOH	N/A	FDOH-006, FDOH-012, FDOH-019, FDOH-026, FDOH-033, FDOH-040, FDOH-047, FDOH-054, FDOH-061, FDOH-067, FDOH-074, FDOH-080,	Septic Tank Failure Area Ranking	Score and prioritize septic tank failure areas annually.	OSTDS	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant	N/A	Not provided	FDOH



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
		FDOH-088, FDOH-095, FDOH-103						Branch, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River			
FDOH	N/A	FDOH-007, FDOH-013, FDOH-020, FDOH-027, FDOH-034, FDOH-041, FDOH-048, FDOH-055, FDOH-062, FDOH-068, FDOH-075, FDOH-081, FDOH-090, FDOH-097, FDOH-104	Complaint Investigations	FDOH investigates all complaints received, performs site visit, and initiates enforcement action on sanitary nuisance violations.	OSTDS	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Branch, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$1,850	Not provided	FDOH
FDOH	DEP	FDOH-028, FDOH-042, FDOH-049, FDOH-056, FDOH-069, FDOH-082, FDOH-105, FDOH-106, FDOH-107, FDOH-108, FDOH-109, FDOH-110, FDOH-111, FDOH-112, FDOH-113	Intensive Inspection Program	Carry out intensive geospecific inspections in selected WBIDs based on repair permit applications, water quality information, and site conditions; additional WBIDs may be identified in future based on assessment efforts.	OSTDS	Completed	Prior to 2010	Fishing Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Wills Branch, Greenfield Creek, Lower Trout River, Williamson Creek, Craig Creek, McCoy Creek, Deep Bottom Creek, Cormorant Creek, Sherman Creek, Pottsburg Creek, Middle Trout Creek	\$570,935	N/A	FDOH/ DEP/ EPA Section 319 Nonpoint Source Management Program Implementation grant
FDOH	N/A	FDOH-089	Failure Area Evaluation	Work with COJ to evaluate why area south of Glynlea is not ranked as failure area.	OSTDS	Completed	Prior to 2010	Pottsburg Creek	Not provided	N/A	FDOH
FDOH	N/A	FDOH-096	Failure Area Evaluation	Work with COJ to evaluate if area south of Plummer Rd., north of Garden St. and Trout River Blvd., west to I-295, and east to Messer Rd. should be designated as failure area.	OSTDS	Completed	Prior to 2010	Middle Trout River	Not provided	N/A	General Revenue/ FDOH
FDOH	N/A	FDOH-116	Participate in TAT Calls and Efforts	Continue participation in TAT coordination calls and other TAT efforts.	Source Identification Activities	Completed	Prior to 2010	Countywide	Not provided	N/A	FDOH

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
FDOH	N/A	FDOH-117	Source Identification Follow-Up	Assist DEP in following up on source identification results that indicate human source.	Source Identification Activities	Completed	Prior to 2010	Countywide	Not provided	N/A	FDOH
FDOH	N/A	FDOH-118	Walk the WBID Follow Up	Address any action items identified as result of 2014 Walk the WBID.	Source Identification Activities	Completed	Prior to 2010	Countywide	Not provided	N/A	FDOH
FDOH	N/A	FDOH-119	Dept. of Business and Professional Regulation (DBPR) reporting as appropriate	Develop inspection program for dumpster areas and behind restaurants, convenience stores, and grocery stores.	Stormwater	Completed	Prior to 2010	Countywide	Not provided	N/A	FDOH
FDOT	N/A	FDOT-001, FDOT-004, FDOT-013, FDOT-019, FDOT-027, FDOT-035, FDOT-042, FDOT-049, FDOT-054, FDOT-063	PIC Program	Identify and remove illicit connections if found to be truly illicit.	Stormwater	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	N/A	\$37,605	FDOT
FDOT	N/A	FDOT-002, FDOT-005, FDOT-014, FDOT-020, FDOT-028, FDOT-036, FDOT-043, FDOT-050, FDOT-055, FDOT-064	PIC Program	Search for illicit connections.	Stormwater	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	N/A	\$37,605	FDOT
FDOT	N/A	FDOT-003, FDOT-006, FDOT-015, FDOT-021, FDOT-029, FDOT-037, FDOT-044, FDOT-051, FDOT-056, FDOT-065	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling.	Source Identification Activities	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	N/A	\$22,546	FDOT
FDOT	N/A	FDOT-007	SR 115/8th St. Project	Not provided.	Stormwater	Completed	Prior to 2009	Hogan Creek	\$2,941,944	Not provided	FDOT
FDOT	N/A	FDOT-008, FDOT-016, FDOT-022, FDOT-030, FDOT-038, FDOT-045, FDOT-052, FDOT-058, FDOT-067	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection.	Stormwater	Completed	Prior to 2009	Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	N/A	\$27,151	FDOT

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
FDOT	N/A	FDOT-009, FDOT-023, FDOT-031, FDOT-059	Adopt-A-Highway Program	Allow individuals or groups (after receiving FDOT training) to adopt stretch of road and collect trash and debris.	Stormwater	Completed	Prior to 2009	Hogan Creek, Miller Creek, Miramar Creek, Goodbys Creek	N/A	Not provided	FDOT
FDOT	N/A	FDOT-010, FDOT-024, FDOT-032, FDOT-039, FDOT-046, FDOT-060, FDOT-068	Sediment Accumulation, Trash, and Debris Removal	Sediment accumulation, trash, and debris removed as needed.	Stormwater	Completed	Prior to 2009	Hogan Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Goodbys Creek, Open Creek	N/A	\$325,944	FDOT
FDOT	N/A	FDOT-011, FDOT-017, FDOT-025, FDOT-033, FDOT-040, FDOT-047, FDOT-061, FDOT-070	Street Sweeping Program	Street sweeping.	Stormwater	Completed	Prior to 2009	Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Goodbys Creek, Open Creek	N/A	\$37,984	FDOT
FDOT	N/A	FDOT-012, FDOT-018, FDOT-026, FDOT-034, FDOT-041, FDOT-048, FDOT-053, FDOT-062, FDOT-069	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways.	Stormwater	Completed	Prior to 2009	Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	N/A	\$2,750,735	FDOT
FDOT	N/A	FDOT-057	Baymeadows Project from East of US 1 to Baymeadows Rd	Not provided.	Stormwater	Completed	Prior to 2009	Goodbys Creek	\$1,496,472	Not provided	FDOT
FDOT	N/A	FDOT-066	Beach Blvd. Widening from Intracoastal Waterway to East of Penman	Not provided.	Stormwater	Completed	Prior to 2009	Open Creek	\$230,910	Not provided	FDOT
FDOT	N/A	FDOT-071	Maintain Wet Stormwater Management System – Drainage Area 22 acres	Not provided.	Stormwater	Completed	Prior to 2009	Open Creek	N/A	Not provided	FDOT
FDOT	COJ	FDOT-071, FDOT-073, FDOT-075, FDOT-077	BMAP Monitoring	BMAP monitoring of Hogan Creek, Miller Creek, Miramar Creek, and Deer Creek.	Source Identification Activities	Completed	Prior to 2009	Hogan Creek, Miller Creek, Miramar Creek, Deer Creek	N/A	Not provided	FDOT, COJ
FDOT	COJ	FDOT-072, FDOT-074, FDOT-076, FDOT-078	Source Identification Sampling	Conducted when high levels of coliform bacteria results are noted and source identification is necessary.	Source Identification Activities	Completed	2015	Hogan Creek, Miller Creek, Miramar Creek, Deer Creek	N/A	Not provided	FDOT, COJ
FDOT	N/A	FDOT-079	Participate in TAT Calls and Efforts	Continue participation in TAT coordination calls and other TAT efforts.	Source Identification Activities	Completed	Prior to 2009	Countywide	N/A	Not provided	FDOT

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
FDOT	N/A	FDOT-080	Source Identification Follow up	Assist DEP in following up on source identification results that indicate human source discharging into its MS4 or rights-of-way.	Source Identification Activities	Completed	Prior to 2009	Countywide	N/A	Not provided	FDOT
FDOT	N/A	FDOT-100	Proactive IDDE Program	Continue to implement mandatory IDDE training for staff and contractors working in FDOT rights-of-way.	Stormwater	Completed	2015	Countywide	N/A	Not provided	FDOT
FDOT	COJ	FDOT-001, FDOT-007, FDOT-016, FDOT-025, FDOT-034, FDOT-041, FDOT-050, FDOT-055, FDOT-062, FDOT-068, FDOT-074, FDOT-080, FDOT-086, FDOT-092, FDOT-098	PIC Program	Search for illicit connections.	Stormwater	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Branch, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	N/A	\$37,605	FDOT, COJ
FDOT	COJ	FDOT-002, FDOT-008, FDOT-026, FDOT-042, FDOT-056, FDOT-087, FDOT-121, FDOT-123, FDOT-124, FDOT-127, FDOT-129, FDOT-130, FDOT-131, FDOT-132	PIC Program	Identify and remove illicit connections if found to be truly illicit.	Stormwater	Completed	Prior to 2010	Creek Creek, McCoy Creek, Fishing Creek, Moncrief Creek, Hopkins Creek, Pottsburg Creek, Williamson Creek, Blockhouse Creek, Cormorant Creek, Sherman Creek, Middle Trout River, Lower Trout River, Greenfield Creek-Freshwater, Greenfield Creek-Marine	N/A	\$37,605	FDOT, COJ
FDOT	COJ	FDOT-003, FDOT-010, FDOT-018, FDOT-028, FDOT-035, FDOT-044, FDOT-052, FDOT-057, FDOT-063, FDOT-069, FDOT-075, FDOT-081, FDOT-088, FDOT-093, FDOT-099	Routine Surface Water Sampling	Carry out NPDES permit-related quarterly water quality sampling.	Source Identification Activities	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Branch, Wills Branch, Sherman Creek, Greenfield	N/A	\$22,546	FDOT, COJ

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
								Creek, Pottsburg Creek, Middle Trout River, Lower Trout River			
FDOT	COJ	FDOT-004, FDOT-011, FDOT-019, FDOT-045	TAT Sampling	Conducted by COJ EQD to assess bacteria levels in stream and to help identify potential fecal bacteria sources.	Source Identification Activities	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Moncrief Creek	N/A	\$22,546	FDOT, COJ
FDOT	N/A	FDOT-005, FDOT-013, FDOT-017, FDOT-031, FDOT-038, FDOT-047, FDOT-051, FDOT-059, FDOT-065, FDOT-070, FDOT-078, FDOT-083, FDOT-089, FDOT-095, FDOT-100	DCP Program	Connecting entity must certify that all discharges to FDOT MS4 are treated prior to connection.	Stormwater	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Branch, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	N/A	\$27,151	FDOT
FDOT	N/A	FDOT-006, FDOT-015, FDOT-023, FDOT-024, FDOT-033, FDOT-040, FDOT-049, FDOT-054, FDOT-061, FDOT-067, FDOT-073, FDOT-079, FDOT-085, FDOT-091, FDOT-097, FDOT-104	Maintain FDOT Stormwater Systems	Clean drainage structures, replace/repair storm/cross/side drains, clean/reshape roadside ditches, clear/repair outfall ditches, mow, remove roadside litter, respond to citizen complaints, and sweep roadways.	Stormwater	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Branch, Wills Branch, Sherman Creek, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	N/A	\$2,750,735	FDOT
FDOT	COJ	FDOT-009, FDOT-027, FDOT-043	Follow Up on Outstanding PICs	Follow up on outstanding PICs.	Stormwater	Completed	2011	McCoy Creek, Fishing Creek, Moncrief Creek	N/A	\$37,605	FDOT, COJ
FDOT	COJ	FDOT-012, FDOT-029, FDOT-036, FDOT-046, FDOT-076, FDOT-082, FDOT-094, FDOT-105, FDOT-106, FDOT-111, FDOT-113, FDOT-114, FDOT-115, FDOT-	Source Identification Sampling	Conduct source identification sampling when high levels of fecal coliform bacteria are noted.	Source Identification Activities	Completed	Prior to 2010	McCoy Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Sherman Creek, Greenfield Creek, Middle Trout River, Craig Creek, Williamson	N/A	\$22,546	FDOT, COJ



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
		119, FDOT-120, FDOT-136, FDOT-137						Creek, Blockhouse Creek, Hopkins Creek, Cormorant Branch, Wills Branch, Pottsburg Creek, Lower Trout River, Pottsburg Creek-Fresh, Pottsburg Creek-Marine			
FDOT	N/A	FDOT-014	Stormwater Management Systems	Construct wet detention pond at intersection of I-10 and I-95.	Stormwater	Completed	2012	McCoy Creek	N/A	Not provided	FDOT
FDOT	N/A	FDOT-020, FDOT-032, FDOT-039, FDOT-048, FDOT-053, FDOT-060, FDOT-066, FDOT-071, FDOT-096, FDOT-101	Adopt-A-Highway Program	Allow individuals or groups (after receiving FDOT training) to adopt stretch of road and collect trash and debris.	Stormwater	Completed	Prior to 2010	Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Hopkins Creek, Cormorant Branch, Wills Branch, Middle Trout River, Lower Trout River	N/A	Not provided	FDOT
FDOT	N/A	FDOT-021	Stormwater Management Systems	Lane Ave.	Stormwater	Completed	Prior to 2010	Williamson Creek	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-022	Stormwater Management Systems	Wilson Ave.	Stormwater	Completed	Prior to 2010	Williamson Creek	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-030	Stormwater Management Systems	Construct I-295 retention/detention systems.	Stormwater	Completed	Prior to 2010	Fishing Creek	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-037	Stormwater Management Systems	Implement stormwater improvements as part of San Jose Blvd. widening.	Stormwater	Completed	Prior to 2010	Deep Bottom Creek	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-058	Stormwater Management Systems	Construct Mayport flyover.	Stormwater	Completed	Prior to 2010	Hopkins Creek	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-064	Stormwater Management Systems	Construct pond as part of SR 13 widening.	Stormwater	Completed	Prior to 2010	Cormorant Branch	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-072	Stormwater Management Systems	Construct wet ponds at intersection of I-295 and Normandy.	Stormwater	Completed	Prior to 2010	Wills Branch	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-077	Stormwater Management Systems	Wonderwood Connector project – construct wet pond.	Stormwater	Completed	Prior to 2010	Sherman Creek	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-084	Stormwater Management Systems	Atlantic Blvd. Widening stormwater project – construct wet ponds.	Stormwater	Completed	Prior to 2010	Greenfield Creek	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-090	Stormwater Management Systems	Construct stormwater ponds at Southside Blvd. and Beach Blvd. Interchange.	Stormwater	Completed	Prior to 2010	Pottsburg Creek	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-102	I-295 from West of Duval to Biscayne Blvd.	Construct stormwater pond to capture and treat runoff.	Stormwater	Completed	Prior to 2010	Lower Trout River	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-103	I-95 Improvement from South of Clark Rd. to I-295	Construct stormwater pond to capture and treat runoff.	Stormwater	Completed	Prior to 2010	Lower Trout River	Not provided	Not provided	FDOT

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
FDOT	N/A	FDOT-107	Stormwater Management Systems	Construct wet detention pond at Lane Ave. and at Wilson Ave.	Stormwater	Completed	Prior to 2010	Williamson Creek	Not provided	Not provided	FDOT
FDOT	COJ	FDOT-108, FDOT-109, FDOT-112, FDOT-117, FDOT-125	BMAP Sampling	COJ EQD is responsible for 15 sites (9 sampled monthly and 6 sampled quarterly) BMAP II monitoring began December 2010.	Source Identification Activities	Completed	Prior to 2010	Fishing Creek, Deep Bottom Creek, Hopkins Creek, Sherman Creek, Cormorant Creek	Not provided	\$22,546	FDOT, COJ
FDOT	N/A	FDOT-110	Stormwater Management Systems	Construct wet detention pond at San Jose Blvd.	Stormwater	Completed	Prior to 2010	Deep Bottom Creek	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-116	Stormwater Management Systems	Construct wet detention pond at intersection of Normandy Blvd. and I-295.	Stormwater	Completed	Prior to 2010	Wills Branch	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-118	Stormwater Management Systems	Construct wet detention pond at Wonderwood Dr.	Stormwater	Completed	Prior to 2010	Sherman Creek	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-133	I-10 Marietta Interchange Improvement	Construct 3 wet detention ponds to treat area of improvement.	Stormwater	Underway	TBD	Wills Branch	\$26,880,000	Not provided	FDOT
FDOT	N/A	FDOT-134	SR 208 (Wilson Blvd) Interchange Improvement	Construct stormwater management systems to treat areas of improvement.	Stormwater	Underway	TBD	Williamson Creek	\$3,340,000	Not provided	FDOT
FDOT	N/A	FDOT-135	I-295 Managed Lanes	Construct stormwater management systems to treat areas of improvement.	Stormwater	Underway	TBD	Deep Bottom Creek	\$88,950,000	Not provided	FDOT
FDOT	N/A	FDOT-138	I-95 Interchange Operational Improvements at SR 201 (JTB)	Construct stormwater management systems to treat areas of improvement.	Stormwater	Underway	TBD	Pottsburg Creek-Fresh	\$66,720,000	Not provided	FDOT
FDOT	N/A	FDOT-139	Participate in TAT Calls and Efforts	Continue participation in TAT coordination calls and other TAT efforts.	Source Identification Activities	Completed	Prior to 2010	Countywide	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-140	Source Identification Follow Up	Assist DEP in following up on source identification results that indicate human source discharging into its MS4 or rights-of-way.	Source Identification Activities	Completed	Prior to 2010	Countywide	Not provided	Not provided	FDOT
FDOT	N/A	FDOT-141	Walk the WBID Follow Up	Address any mutually agreed onaction items identified as result of Phase 2 Walk the WBID.	Source Identification Activities	Completed	Prior to 2010	Countywide	Not provided	Not provided	FDOT
Jacksonville Beach	N/A	JB-001	Septic Tank Phase Out	Phase out Section "A" - 16th St. North to 20th St. North to 8th Ave. North to 12th Ave. North.	OSTDS	Completed	Prior to 2010	Hopkins Creek	\$337,730	N/A	City
Jacksonville Beach	N/A	JB-002	Sewer System Inspection	Clean existing sanitary sewer system.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$26,000	N/A	City
Jacksonville Beach	N/A	JB-003	Sewer Manhole Inspection and Rehabilitation	Rehabilitate existing sewer manholes.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$55,757	N/A	City
Jacksonville Beach	N/A	JB-004	Sewer Pump Station Wetwells Inspections and Rehabilitation	Rehabilitate interior surface of existing sewer lift station wetwells with coating system.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$34,707	N/A	City
Jacksonville Beach	N/A	JB-005	Sewer Pump Station Inspection and Maintenance	Improve sewer lift station No. 10.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$736,481	N/A	City
Jacksonville Beach	N/A	JB-006	SSO Investigations	Improve Arden Way sewer system.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$342,000	N/A	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Jacksonville Beach	N/A	JB-007	SSO Investigations	Investigate 1 occurrence at 2000 3rd St. North.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$1,000	N/A	City
Jacksonville Beach	N/A	JB-008	SSO Investigations	Investigate 2 occurrences at 300 Palm Tree Rd.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$5,000	N/A	City
Jacksonville Beach	N/A	JB-009	Sewer Pump Station Inspection and Maintenance	Inspect lift stations Nos. 2, 7, 8, 9, 18, 19, and 23.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$47,230	N/A	City
Jacksonville Beach	N/A	JB-010	Sewer Pump Station Inspection and Maintenance	Inspect lift station No. 37 (Jarrett Point Unit II).	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$183,541	N/A	City
Jacksonville Beach	N/A	JB-011	Sewer System Replacement	Improve sewer system from Barbara Lane to 14th Ave. North and 8th St. to 13th St. North.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$1,065,000	N/A	City
Jacksonville Beach	N/A	JB-012	Sewer System Replacement	Improve sewer system from Patricia Lane to 18th Ave. North and 4th St. to 7th St. North.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$1,310,000	N/A	City
Jacksonville Beach	N/A	JB-013	Sewer System Replacement	Improve sewer system from Barbara Lane to 12th Ave. North and Patricia Lane to 7th St. North.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$386,000	N/A	City
Jacksonville Beach	N/A	JB-014	Sewer System Replacement	Improve sewer system from 2nd St. North to 3rd St. North and from easement to 6th Ave. North; 3rd St. North from easement to 7th Ave. North.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$88,000	N/A	City
Jacksonville Beach	N/A	JB-015	Flood-Control Capital Project	Improve stormwater system at 18th St. North, Tall Pine Park, perforated stormwater pipe.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$667,472	N/A	City
Jacksonville Beach	N/A	JB-016	Flood-Control Capital Project	Improve stormwater system at 1st St. North and 18th Ave. North; stormwater piping.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$128,817	N/A	City
Jacksonville Beach	DEP	JB-017	Flood-Control Capital Project	Improve stormwater system at North 2nd St. between 6th Ave. North to 13th Ave. North.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$3,500,00	N/A	City, EPA Grant
Jacksonville Beach	N/A	JB-018	Flood-Control Capital Project	Improve stormwater system at 11th Ave. North; new stormwater pump station, new drainage system piping, new drainage structures.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$450,000	N/A	City
Jacksonville Beach	N/A	JB-019	Flood-Control Capital Project	Improve stormwater system at 11th St. North; swale grading, impervious parking.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$670,000	N/A	City
Jacksonville Beach	SJRWMD	JB-020	Flood-Control Capital Project	Improve retention pond and infrastructure at Jacksonville Beach Golf Course; pond construction associated with construction of 2nd St. North stormwater improvement project.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$645,754	N/A	City/ SJRWMD Grant
Jacksonville Beach	N/A	JB-021	Flood-Control Capital Project	Improve paving, drainage, water and sewer in downtown development area.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$6,831,192	N/A	City
Jacksonville Beach	N/A	JB-022	Flood-Control Capital Project	Implement project at 19th St. North at 2nd Ave. North.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$25,000	N/A	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Jacksonville Beach	N/A	JB-023	Flood-Control Capital Project	Implement project at 19th St. North between 2nd Ave. North and 5th Ave. North.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$7,000	N/A	City
Jacksonville Beach	N/A	JB-024	Flood-Control Capital Project	Implement project at easement west of Penman Rd. from 6th Ave. North to 16th St. North.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$45,000	N/A	City
Jacksonville Beach	N/A	JB-025	Flood-Control Capital Project	Implement project at 17th St. North from 9th Ave. North to existing ditch.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$10,000	N/A	City
Jacksonville Beach	N/A	JB-026	Flood-Control Capital Project	Implement project at 11th Ave. North from 16th St. North to Penman Rd.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$14,000	N/A	City
Jacksonville Beach	N/A	JB-027	Flood-Control Capital Project	Implement project at 16th St. North from 11th to 12th Ave. North.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$10,000	N/A	City
Jacksonville Beach	N/A	JB-028	Flood-Control Capital Project	Implement project at 11th Ave. North from 17th to 18th St. North.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$15,000	N/A	City
Jacksonville Beach	N/A	JB-029	Flood-Control Capital Project	Implement project at 21st St. from 9th Ave. to 12th Ave. North.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$35,000	N/A	City
Jacksonville Beach	N/A	JB-030	Flood-Control Capital Project	Implement project at 12th Ave. North at 20th St. North.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$10,000	N/A	City
Jacksonville Beach	N/A	JB-031	Flood-Control Capital Project	Implement project at Tanglewood Rd. from Pinewood Lane to Sable Palm Lane.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$18,000	N/A	City
Jacksonville Beach	N/A	JB-032	Flood-Control Capital Project	Implement project at Tanglewood Rd. at Sable Palm Lane.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$10,000	N/A	City
Jacksonville Beach	N/A	JB-033	Flood-Control Capital Project	Implement project at Birchwood Rd. at Coral Way.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$14,000	N/A	City
Jacksonville Beach	N/A	JB-034	Flood-Control Capital Project	Implement project at Coral Way between Sunset Dr. and Birchwood Rd.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$10,000	N/A	City
Jacksonville Beach	N/A	JB-035	Flood-Control Capital Project	Implement project at Pinewood Rd. between Arden Way and Oakwood Rd.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$10,000	N/A	City
Jacksonville Beach	N/A	JB-036	Flood-Control Capital Project	Implement project at 1st Ave. North from 3rd to 4th St. North.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$10,000	N/A	City
Jacksonville Beach	N/A	JB-037	Flood-Control Capital Project	Implement project at 3rd Ave. North from 4th to 5th St. North.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$10,000	N/A	City
Jacksonville Beach	N/A	JB-038	Flood-Control Capital Project	Implement project at 3rd Ave. North from 5th to 6th St. North.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$15,000	N/A	City
Jacksonville Beach	N/A	JB-039	Flood-Control Capital Project	Implement project at 3rd Ave. North at 6th St. North.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$4,000	N/A	City
Jacksonville Beach	N/A	JB-040	Flood-Control Capital Project	Implement project at Cilewood Ct. at Tallwood Rd.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$4,000	N/A	City
Jacksonville Beach	Private Developer	JB-041	Flood-Control Capital Project	Implement project at Lois Lane and Seagate Ave.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$14,000	N/A	Private Developer
Jacksonville Beach	Private Developer	JB-042	Flood-Control Capital Project	Implement project at King Oaks Subdivision-Kings Rd. and Seagate Ave.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$12,000	N/A	Private Developer
Jacksonville Beach	N/A	JB-043	Ditch and Canal Maintenance	Install erosion control along ditches and ponds.	Stormwater	Completed	Prior to 2010	Hopkins Creek	Not provided	N/A	City



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Jacksonville Beach	N/A	JB-044	IDDE	Identify and remove illicit connections.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Jacksonville Beach	N/A	JB-045	Stormwater Education and Outreach Efforts	Carry out WAV public education, inlet marking, public notices, and stormwater flyer for residential and commercial permits.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Jacksonville Beach	N/A	JB-046	Pet Waste Management	Provide dog bags at Gonzales Park, Tallwood Pines Park and Dog Park.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Jacksonville Beach	N/A	JB-047	Pet Waste Ordinance	Pass Ordinance No. 7468-32-91, Section 32-106.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Jacksonville Beach	N/A	JB-048	Pet Waste Ordinance	Pass Ordinance No. 2005-7903, 24-18-05, Section 5-34.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Jacksonville Beach	N/A	JB-049	Noncontributing Basins	Areas in WBID that do not flow to Hopkins Creek: (1) Bentin Dr. North south to Beach Blvd., east to 11th St. and west to WBID boundary; (2) Rosewood Dr., Oakwood Rd., Pinewood Rd. to west WBID boundary; and (3) 3rd St. east to 1st St. and 13th Ave. North south to Beach Blvd.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	N/A	City
Jacksonville Beach	N/A	JB-050	Sewer System Inspection	Maintain existing sewer system.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$62,000	N/A	City
Jacksonville Beach	N/A	JB-051	Sewer Manhole Inspection and Rehabilitation	Maintain existing sewer manholes.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$185,000	N/A	City
Jacksonville Beach	N/A	JB-052	Sewer Pump Station Inspection and Maintenance	Routinely inspect existing pump stations.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Jacksonville Beach	N/A	JB-053	Restaurant Grease Trap Inspections	Routinely inspect restaurant grease traps.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Jacksonville Beach	N/A	JB-054	Stormwater System Ditch and Canal Maintenance	Routinely inspect drainage ditch at 12th Ave. North and 22nd St. North, Pinewood ditch, and spray for aquatic weeds.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Jacksonville Beach	N/A	JB-055	Stormwater System Pond Maintenance	Routinely inspect ponds after significant rainfall event and annually.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Jacksonville Beach	N/A	JB-056	Stormwater System Pond Maintenance	Inspect annually as required by MS4 NPDES permit.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Jacksonville Beach	N/A	JB-057	Stormwater Pump Stations	Inspect stormwater pumps after significant rainfall event.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Jacksonville Beach	N/A	JB-058	Street sweeping	Routinely sweep curbed and guttered streets citywide. (Mon. 17 mi; Fri. – Sun. and holidays 7 mi).	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Jacksonville Beach	N/A	JB-059	IDDE	Field observations to identify and coordinate removal of illicit connections.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Jacksonville Beach	DEP	JB-060	2nd St. North Sewer Main and Related Imps.	2nd St. North. from 14th Ave. North. to 20th Ave. North. and from 1st St. to 3rd St. North.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$1,843,083	N/A	City/ EPA Grant



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Jacksonville Beach	N/A	JB-061	Ocean Forest Drainage Imps	Ocean Forest area	Stormwater	Completed	2016	Hopkins Creek	\$1,276,202	Not provided	City
Jacksonville Beach	N/A	JB-062	Sewer Manhole Rehabilitation	Hopkins Creek Watershed.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$40,000	N/A	City
Jacksonville Beach	N/A	JB-063	4th St. N. Sewer Imps.	4th St. North from 13th to 18th Ave. North.	Sanitary Sewer	Underway	TBD	Hopkins Creek	\$566,000	N/A	City
Jacksonville Beach	N/A	JB-064	Effluent Outfall Modifications	Repairs to effluent outfall at St. Johns River.	Stormwater	Underway	TBD	Hopkins Creek	\$220,031	N/A	City
Jacksonville Beach	N/A	JB-065	Lift Station No. 7 Improvements	3rd St. and 18th Ave. North.	Sanitary Sewer	Underway	TBD	Hopkins Creek	\$945,000	N/A	City
Jacksonville Beach	N/A	JB-066	Lift Station No. 20 Abandonment	4th St. and 15th Ave. North.	Sanitary Sewer	Underway	TBD	Hopkins Creek	\$500,000	N/A	City
Jacksonville Beach	N/A	JB-067	Lift Station No.8 Abandonment	8th St. and 18th Ave. North.	Sanitary Sewer	Underway	TBD	Hopkins Creek	\$550,000	N/A	City
JEA	N/A	JEA-001, JEA-017, JEA-032, JEA-050, JEA-064, JEA-079, JEA-097, JEA-123, JEA-138	Pipe Bursting – Increase Carrying Capacity	Replace failing/leaking infrastructure.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Goodbys Creek, Open Creek	\$36,036,717	N/A	JEA
JEA	N/A	JEA-002, JEA-018, JEA-033, JEA-051, JEA-080, JEA-098	CIPP – Install New Inner Lining	Rehabilitate failing/leaking infrastructure.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Big Fishweir Creek, Deer Creek	\$2,772,383	N/A	JEA
JEA	N/A	JEA-003, JEA-020, JEA-035, JEA-052, JEA-065, JEA-082, JEA-100, JEA-112, JEA-125, JEA-140	Manhole Linings Rehabilitated	Repair deteriorating manhole linings.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$330,469	N/A	JEA
JEA	N/A	JEA-004, JEA-037, JEA-053, JEA-066, JEA-083, JEA-084, JEA-113, JEA-114, JEA-126, JEA-141, JEA-156	Air Release Valve (ARV) Inspection and Rehabilitation	ARV inspection and rehabilitation.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek, Hogan Creek	\$483,973	N/A	JEA

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
JEA	N/A	JEA-005, JEA-021, JEA-038, JEA-054, JEA-067, JEA-085, JEA-101, JEA-115, JEA-127, JEA-142	Pump Station SCADA Upgrades	Retrofitting completed in 2004; all stations constructed since have SCADA installed.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$22,000,000	N/A	JEA
JEA	N/A	JEA-006, JEA-022, JEA-039, JEA-055, JEA-068, JEA-086, JEA-102, JEA-116, JEA-128, JEA-143	Force Main Discharge Manholes Inspection and Repair	Program was implemented at manholes into which force mains discharge. Structure of manholes is subjected to increased deterioration because of higher concentration of corrosive sewer gases associated with pressurized discharges of sewage. Structures are inspected and repaired and rehabilitated as necessary.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$466,576	N/A	JEA
JEA	N/A	JEA-007, JEA-023, JEA-040, JEA-069, JEA-129, JEA-154, JEA-155	Pump Station Class I/II Rebuilding	Repair or replace components of existing pump stations.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miramar Creek, Goodbys Creek, Big Fishweir Creek, Open Creek	\$763,765	N/A	JEA
JEA	N/A	JEA-008, JEA-024, JEA-042, JEA-056, JEA-072, JEA-089, JEA-104, JEA-117, JEA-130, JEA-146	FOG Reduction Program	FOG Reduction Program.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	N/A	Not provided	JEA
JEA	N/A	JEA-009, JEA-025, JEA-043, JEA-057, JEA-090, JEA-105, JEA-131, JEA-147, JEA-157	Pipe TV Inspection	Inspect existing infrastructure through use of CCTV.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Big Fishweir Creek, Deer Creek, Goodbys Creek, Open Creek, Miramar Creek	\$163,099	N/A	JEA
JEA	N/A	JEA-010, JEA-026, JEA-044, JEA-058, JEA-073, JEA-091, JEA-106, JEA-132, JEA-148	Pipe Cleaning	Clean existing pipes to avoid blockages.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek,	\$743,054	N/A	JEA

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
								Deer Creek, Goodbys Creek, Open Creek			
JEA	N/A	JEA-011, JEA-027, JEA-045, JEA-059, JEA-074, JEA-092, JEA-107, JEA-118, JEA-133, JEA-149	CMOM Program	Program aimed at reducing SSOs and preserving wastewater infrastructure.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$163,269	N/A	JEA
JEA	N/A	JEA-012, JEA-028, JEA-046, JEA-060, JEA-075, JEA-093, JEA-180, JEA-119, JEA-134, JEA-150	Manhole Monitoring	Manhole monitoring.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$137,526	N/A	JEA
JEA	N/A	JEA-013, JEA-029, JEA-047, JEA-061, JEA-076, JEA-094, JEA-109, JEA-120, JEA-135, JEA-151	SSO Root Cause Program	SSO Root Cause Program	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	N/A	Not provided	JEA
JEA	N/A	JEA-014, JEA-030, JEA-048, JEA-062, JEA-077, JEA-095, JEA-110, JEA-121, JEA-136, JEA-152	Pop-Top Program	Pop-Top Program.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$64,324	N/A	JEA
JEA	N/A	JEA-015, JEA-031, JEA-049, JEA-063, JEA-078, JEA-096, JEA-111, JEA-122, JEA-137, JEA-153	Non-Destructive Testing Program/Pipe Integrity Testing	Non-Destructive Testing Program/Pipe Integrity Testing.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek, Hogan Creek, Butcher Pen Creek, Miller Creek, Miramar Creek, Big Fishweir Creek, Deer Creek, Terrapin Creek,	\$74,284	N/A	JEA

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
								Goodbys Creek, Open Creek			
JEA	N/A	JEA-016	Sewer Infrastructure Improvements	Lift Station @ 3254 Townsend Blvd. Upgrade station to address multiple SSOs related to electrical problems.	Sanitary Sewer	Completed	Prior to 2009	Newcastle Creek	\$70,000	N/A	JEA
JEA	N/A	JEA-019, JEA-034, JEA-081, JEA-099, JEA-124, JEA-139	Open Cut – Removal and Replacement	Replace failing/leaking infrastructure.	Sanitary Sewer	Completed	Prior to 2009	Hogan Creek, Butcher Pen Creek, Big Fishweir Creek, Deer Creek, Goodbys Creek, Open Creek	\$2,144,465	N/A	JEA
JEA	N/A	JEA-036	Sewer Infrastructure Improvements	Line inspection of manhole at 4557 Arthur Dr.	Sanitary Sewer	Completed	Prior to 2009	Butcher Pen Creek	Not provided	N/A	JEA
JEA	N/A	JEA-041	Sewer Infrastructure Improvements	Pump station repair at 4807 Ducheneau Dr.	Sanitary Sewer	Completed	Prior to 2009	Butcher Pen Creek	\$115,107	N/A	JEA
JEA	N/A	JEA-070, JEA-144	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report.	Sanitary Sewer	Completed	Prior to 2009	Miramar Creek, Open Creek	Not provided	N/A	JEA
JEA	N/A	JEA-071	Walk the WBID Follow Up	Follow up on seep under sewer line on northern branch as part of Walk the WBID.	Source Identification Activities	Completed	Prior to 2009	Miramar Creek	Not provided	N/A	JEA
JEA	N/A	JEA-087, JEA-103, JEA-145	Lift Station Inspection	Inspect lift stations near surface waters.	Sanitary Sewer	Completed	Prior to 2009	Big Fishweir Creek, Deer Creek, Open Creek	Not provided	N/A	JEA
JEA	N/A	JEA-088	Walk the WBID Follow Up	Repaired lift station at Merimac Ave. as part of Walk the WBID follow up.	Source Identification Activities	Completed	Prior to 2009	Big Fishweir Creek	Not provided	N/A	JEA
JEA	COJ	JEA-116, JEA, 150, JEA-167, JEA-184	Verify Location of Lift Stations in WBID Boundary	Verify stations on boundary.	Sanitary Sewer	Completed	2010	Big Fishweir Creek, Terrapin Creek, Goodbys Creek, Open Creek	\$2,332	N/A	COJ
JEA	N/A	JEA-158	Sewer Infrastructure Improvements	State St. and Union St. Sewer Improvements. JEA existing sewer infrastructure in core city downtown area has reached its useful life expectancy; project will replace deteriorated sewer mains within project boundaries.	Sanitary Sewer	Completed	2015	Hogan Creek	\$2,276,000	N/A	JEA
JEA	N/A	JEA-159	Sewer Infrastructure Improvements	111th and 12th St. Connector: Installation of new sewer infrastructure to accommodate stormwater improvements.	Sanitary Sewer	Completed	2015	Hogan Creek	\$29,000	N/A	JEA
JEA	N/A	JEA-160	Sewer Infrastructure Improvements	Lakeshore Force Main Replacement. Install 7,500 LF of 16-in PVC force main to replace deteriorating 16-in ductile iron force main.	Sanitary Sewer	Completed	2015	Big Fishweir Creek	\$1,292,301	N/A	JEA
JEA	N/A	JEA-160	Sewer Infrastructure Improvements	Lakeshore Force Main Replacement. Install 7,500 LF of 16-in PVC force	Sanitary Sewer	Completed	2015	Deer Creek	Not provided	N/A	JEA

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				main to replace deteriorating 16-in ductile iron force main.							
JEA	N/A	JEA-161	Sewer Infrastructure Improvements	Lower East Side Drainage Improvements. Installation of new sewer infrastructure to accommodate stormwater improvements.	Sanitary Sewer	Completed	2015	Deer Creek	\$429,000	N/A	JEA
JEA	N/A	JEA-162	TAT Calls and Efforts	Continue participation in TAT coordination calls and other TAT efforts.	Source Identification Activities	Completed	2015	BMAP I Tributaries	N/A	Not provided	JEA
JEA	N/A	JEA-163	Source Identification Follow Up	Assist DEP in following up on source identification results that indicate human source.	Source Identification Activities	Completed	2015	BMAP I Tributaries	N/A	Not provided	JEA
JEA	N/A	JEA-164	Prioritize Infrastructure Improvements	Give priority to improving/repairing infrastructure close to surface waterbodies and stormwater conveyances.	Sanitary Sewer	Completed	2015	BMAP I Tributaries	N/A	Not provided	JEA
JEA	N/A	JEA-165	Walk the WBID Follow Up	Address any action items identified as result of 2014 Walk the WBID.	Source Identification Activities	Completed	2015	BMAP I Tributaries	N/A	Not provided	JEA
JEA	N/A	JEA-166	Dumpster Inspection Program	Develop inspection program for dumpster areas and behind restaurants, convenience stores, and grocery stores.	Sanitary Sewer	Completed	2015	BMAP I Tributaries	N/A	Not provided	JEA
JEA	N/A	JEA-167	Sample Analysis	Continue to run analysis on up to 32 samples for DEP's Northeast District Office, and add <i>E. coli</i> and Enterococci sampling, as appropriate.	Source Identification Activities	Completed	2015	BMAP I Tributaries	N/A	Not provided	JEA
JEA	N/A	JEA-001, JEA-018, JEA-037, JEA-055, JEA-073, JEA-084, JEA-101, JEA-114, JEA-127, JEA-142, JEA-157, JEA-220	Pipe Bursting – Increase Carrying Capacity	Replace failing/leaking infrastructure.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Cormorant Branch, Wills Branch, Greenfield Creek, Pottsburg Creek, Lower Trout River	\$53,790,903	N/A	JEA
JEA	N/A	JEA-002, JEA-019, JEA-038, JEA-056, JEA-085, JEA-210, JEA-217, JEA-219, JEA-227, JEA-228, JEA-230, JEA-233	CIPP – Install New Inner Lining	Rehabilitate failing/leaking infrastructure.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Moncrief Creek, Greenfield Creek, Wills Branch, Greensfield Creek-Freshwater, Greenfield Creek-Marine, Pottsburg	\$626,970	N/A	JEA



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
								Creek- Freshwater, Pottsburg Creek-Marine			
JEA	N/A	JEA-003, JEA-021, JEA-039, JEA-058, JEA-074, JEA-086, JEA-102, JEA-115, JEA-128, JEA-143, JEA-158, JEA-171, JEA-187	Manhole Linings Rehabilitated	Repair deteriorating manhole linings.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Cormorant Branch, Wills Branch, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$150,000	N/A	JEA
JEA	N/A	JEA-004, JEA-023, JEA-041, JEA-060, JEA-077, JEA-090, JEA-105, JEA-118, JEA-132, JEA-147, JEA-162, JEA-173, JEA-188	Pump Station SCADA Upgrades	Retrofit completed in 2004; all stations constructed since have SCADA installed.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Cormorant Branch, Wills Branch, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$22,000,000	N/A	JEA
JEA	N/A	JEA-005, JEA-024, JEA-042, JEA-061, JEA-078, JEA-091, JEA-106, JEA-119, JEA-133, JEA-148, JEA-163, JEA-174, JEA-189	Force Main Discharge Manholes Inspection and Repair	Program was implemented at manholes into which force mains discharge. Structure of these manholes is subjected to increased deterioration because of higher concentration of corrosive sewer gases associated with pressurized discharges of sewage. Structures are inspected and repaired and rehabilitated as necessary.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Cormorant Branch, Wills Branch, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$466,576	N/A	JEA
JEA	N/A	JEA-006, JEA-025, JEA-062, JEA-149, JEA-175, JEA-190, JEA-200, JEA-205, JEA-112, JEA-113, JEA-222, JEA-224,	Pump Station Class I/II Rebuilding	Repair or replace components of existing pump stations.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Fishing Creek, Greenfield Creek, Middle Trout River, Lower Trout River, Deep Bottom	\$306,914	N/A	JEA

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
		JEA-226, JEA-231, JEA-234						Creek, Wills Branch, Moncrief Creek, Pottsburg Creek, Cormorant Branch, Moncrief Creek-Freshwater, Moncrief Creek-Marine, Pottsburg Creek-Freshwater, Pottsburg Creek-Marine			
JEA	N/A	JEA-007, JEA-063, JEA-088, JEA-116, JEA-130, JEA-145, JEA-160, JEA-176, JEA-191	Confirm Locations of Lift Stations on Boundary	Confirm locations of lift stations on boundary for first annual progress report.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, Fishing Creek, Moncrief Creek, Cormorant Branch, Wills Branch, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	Not provided	N/A	JEA
JEA	N/A	JEA-008, JEA-028, JEA-044, JEA-066, JEA-094, JEA-108, JEA-121, JEA-135, JEA-151, JEA-165, JEA-179, JEA-202, JEA-208	Pipe TV Inspection	Inspect existing infrastructure using CCTV.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Moncrief Creek, Blockhouse Creek, Cormorant Branch, Wills Branch, Greenfield Creek, Pottsburg Creek, Middle Trout River, Deep Bottom Creek, Lower Trout River	N/A	Not provided	JEA
JEA	N/A	JEA-009, JEA-030, JEA-046, JEA-067, JEA-095, JEA-109, JEA-122, JEA-136, JEA-152, JEA-166, JEA-180, JEA-182, JEA-201, JEA-207	Pipe Cleaning	Clean existing pipes to avoid blockages.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Moncrief Creek, Blockhouse Creek, Cormorant Branch, Wills Branch, Greenfield Creek, Pottsburg Creek, Middle Trout River, Deep Bottom Creek, Lower Trout River	N/A	Not provided	JEA
JEA	N/A	JEA-010, JEA-027, JEA-043, JEA-065, JEA-079, JEA-092, JEA-107, JEA-120,	FOG Reduction Program	FOG Reduction Program.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek,	N/A	Not provided	JEA

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
		JEA-134, JEA-150, JEA-164, JEA-178, JEA-193						Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Cormorant Branch, Wills Branch, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River			
JEA	N/A	JEA-011, JEA-031, JEA-047, JEA-068, JEA-080, JEA-096, JEA-110, JEA-123, JEA-137, JEA-153, JEA-167, JEA-183, JEA-194	CMOM Program	Program aimed at reducing SSOs and preserving wastewater infrastructure.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Cormorant Branch, Wills Branch, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$163,269	N/A	JEA
JEA	N/A	JEA-012, JEA-032, JEA-049, JEA-070, JEA-081, JEA-098, JEA-111, JEA-124, JEA-139, JEA-154, JEA-168, JEA-184, JEA-195	SSO Root Cause Program	SSO Root Cause Program.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Cormorant Branch, Wills Branch, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	Not provided	Not provided	JEA
JEA	N/A	JEA-013, JEA-033, JEA-050, JEA-071, JEA-082, JEA-099, JEA-112, JEA-125, JEA-140, JEA-155, JEA-169, JEA-185, JEA-196	Pop-Top Program	Pop-Top Program.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Cormorant Branch, Wills Branch, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$64,324	N/A	JEA

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
JEA	N/A	JEA-014, JEA-034, JEA-051, JEA-072, JEA-083, JEA-100, JEA-113, JEA-126, JEA-141, JEA-156, JEA-170, JEA-186, JEA-197	Nondestructive Testing Program/Pipe Integrity Testing	Nondestructive Testing Program/Pipe Integrity Testing.	Sanitary Sewer	Completed	Prior to 2010	Craig Creek, McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Cormorant Branch, Wills Branch, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$100,000	N/A	JEA
JEA	N/A	JEA-015	Walk the WBID Follow Up	Chronic Exceedances and Human Markers near CC2, TCC2, and TCC2A. Dye testing found no leaks, and additional inspections found no sewer problems.	Source Identification Activities	Completed	Prior to 2010	Craig Creek	Not provided	N/A	JEA
JEA	N/A	JEA-016	Walk the WBID Follow Up	Elevated Levels at TCC1. Investigated and found no sanitary sewer in area.	Source Identification Activities	Completed	Prior to 2010	Craig Creek	Not provided	N/A	JEA
JEA	N/A	JEA-017	Walk the WBID Follow Up	SSO at 2750 Hendricks Ave. manhole. No problems during inspection but will regularly check manhole to determine cause of SSOs.	Source Identification Activities	Completed	Prior to 2010	Craig Creek	Not provided	N/A	JEA
JEA	N/A	JEA-020, JEA-057, JEA-198, JEA-199, JEA-203, JEA-204, JEA-206, JEA-215, JEA-219, JEA-223, JEA-225, JEA-229, JEA-232	Open Cut – Removal and Replacement	Replace failing/leaking infrastructure.	Sanitary Sewer	Completed	Prior to 2010	McCoy Creek, Fishing Creek, Craig Creek, Depp Bottom Creek, Moncrief Creek, Wills Branch, Pottsburg Creek, Williamson Creek, Middle Trout River, Moncrief Creek-Freshwater, Moncrief Creek-Marine, Pottsburg Creek-Freshwater, Pottsburg Creek-Marine	\$531,960	N/A	JEA
JEA	N/A	JEA-022, JEA-040, JEA-059, JEA-075, JEA-087, JEA-103, JEA-129, JEA-144, JEA-159, JEA-172, JEA-214, JEA-216, JEA-221	ARV Inspection and Rehabilitation	ARV inspection and rehabilitation.	Sanitary Sewer	Completed	Prior to 2010	McCoy Creek, Williamson Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Wills Branch, Greenfield Creek, Pottsburg Creek, Middle	\$100,000	N/A	JEA

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
								Trout River, Craig Creek, Cormorant Branch, Lower Trout River			
JEA	N/A	JEA-026, JEA-064, JEA-076, JEA-089, JEA-104, JEA-117, JEA-131, JEA-146, JEA-161, JEA-177, JEA-192	Lift Station Inspection	Inspect pump stations near surface waters to ensure they are functioning properly and report status in first annual report.	Sanitary Sewer	Completed	Prior to 2010	McCoy Creek, Fishing Creek, Deep Bottom Creek, Moncrief Creek, Blockhouse Creek, Cormorant Branch, Wills Branch, Greenfield Creek, Pottsburg Creek, Middle Trout River, Lower Trout River	\$146,329	N/A	JEA
JEA	N/A	JEA-029, JEA-045, JEA-093, JEA-181, JEA-209, JEA-211	HDPE Pipe Cleaning	Clean existing HDPE pipes to avoid blockages.	Sanitary Sewer	Completed	Prior to 2010	McCoy Creek, Williamson Creek, Moncrief Creek, Middle Trout River, Fishing Creek, Lower Trout River	\$391,350	N/A	JEA
JEA	N/A	JEA-035	Walk the WBID Follow Up	Inspect dropInlet at Nelson and Plum. Inspections showed no problems with manholes.	Source Identification Activities	Completed	Prior to 2010	McCoy Creek	Not provided	N/A	JEA
JEA	N/A	JEA-036	Walk the WBID Follow Up	SSO at Manhole at Cherokee St. and Edison Ave. Repair manhole.	Source Identification Activities	Completed	Prior to 2010	McCoy Creek	Not provided	N/A	JEA
JEA	N/A	JEA-048, JEA-069, JEA-097, JEA-138	Manhole Monitoring	Manhole monitoring.	Sanitary Sewer	Completed	Prior to 2010	Williamson Creek, Fishing Creek, Moncrief Creek, Wills Branch	\$137,526	N/A	JEA
JEA	N/A	JEA-052	Walk the WBID Follow Up	Manhole SSO at Wilson Blvd. Repaired manhole riser section; CIPP along Wilson Blvd.; dye testing showed no problems.	Source Identification Activities	Completed	Prior to 2010	Williamson Creek	Not provided	N/A	JEA
JEA	N/A	JEA-053	Walk the WBID Follow Up	Inspections at Aldington Rd. Inspection showed no problems; past SSOs in areas that had been addressed.	Source Identification Activities	Completed	Prior to 2010	Williamson Creek	Not provided	N/A	JEA
JEA	N/A	JEA-054	Walk the WBID Follow Up	Investigate residential area on Blanco Court that has shallow lines and manhole problems.	Source Identification Activities	Completed	Prior to 2010	Williamson Creek	Not provided	N/A	JEA
JEA	N/A	JEA-232	TAT Calls and Efforts	Continue participation in TAT coordination calls and other TAT efforts.	Source Identification Activities	Completed	2015	BMAP II Tributaries	N/A	Not provided	JEA
JEA	N/A	JEA-233	Source Identification Follow Up	Assist DEP in following up on source identification results that indicate human source.	Source Identification Activities	Completed	2015	BMAP II Tributaries	N/A	Not provided	JEA
JEA	N/A	JEA-234	Prioritize Infrastructure Improvements	Give priority to improving/repairing infrastructure close to surface	Sanitary Sewer	Completed	2015	BMAP II Tributaries	N/A	Not provided	JEA



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
				waterbodies and stormwater conveyances.							
JEA	N/A	JEA-235	Walk the WBID Follow Up	Address any action items identified result of Phase 2 Walk the WBID.	Source Identification Activities	Completed	2015	BMAP II Tributaries	Not provided	N/A	JEA
JEA	N/A	JEA-236	Dumpster Inspection Program	Develop inspection program for dumpster areas and behind restaurants, convenience stores, and grocery stores.	Stormwater	Completed	2015	BMAP II Tributaries	Not provided	Not provided	JEA
JEA	N/A	JEA-237	Sample Analysis	Continue BMAP monitoring, with adjustments made as needed, and follow up on high results per TAT protocol. Add <i>E. coli</i> and Enterococci, as appropriate.	Source Identification Activities	Completed	2015	BMAP II Tributaries	N/A	Not provided	JEA
Neptune Beach	N/A	NB-001	Septic Tank Phase Out	Implement phase outs along Acacia Rd., Bay Rd., Florida Blvd., Marsh Point Rd., Oleander Place, Rosewood Dr., Sherwood Lane, and Pine Place.	OSTDS	Completed	Prior to 2010	Hopkins Creek	\$105,000	N/A	City
Neptune Beach	N/A	NB-002	Create GIS Mapping System Inventory Remaining Septic Tank Areas	Put together GIS mapping system and collect data to inventory remaining septic tank areas.	OSTDS	Completed	2011	Hopkins Creek	\$5,000	N/A	City
Neptune Beach	N/A	NB-003	Gravity Sanitary Sewer Collection System O&M	Carry out normal O&M of gravity sewer collection system in city.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	N/A	\$350,000	City
Neptune Beach	N/A	NB-004	SSO Investigations	Investigate SSOs as needed.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	N/A	\$1,000	City
Neptune Beach	N/A	NB-005	ARV Replacement	Replace broken ARVs.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	Not provided	N/A	City
Neptune Beach	N/A	NB-006	Light Lane Lift Station Renovation	Upgrade and rehabilitate existing wet well and station piping.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$13,000	N/A	City
Neptune Beach	N/A	NB-007	Fletcher Lift Station	Upgrade and rehabilitate existing wet well and station piping.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$13,000	N/A	City
Neptune Beach	Developer	NB-008	New Tara Court Lift Station	Install new lift station.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$80,000	N/A	Developer
Neptune Beach	Developer	NB-009	New Emma Lane Lift Station	Install new lift station.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$80,000	N/A	Developer
Neptune Beach	N/A	NB-010	Bay St. Lift Station Renovation	Upgrade and rehabilitate existing wet well and station piping.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$13,000	N/A	City
Neptune Beach	N/A	NB-011	Florida Lift Station Renovation	Upgrade and rehabilitate existing pumps.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$11,000	N/A	City
Neptune Beach	N/A	NB-012	Bal Harbor Lift Station Renovation	Upgrade and rehabilitate existing wet well and station piping.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$13,000	N/A	City
Neptune Beach	N/A	NB-013	5th St. Lift Station renovation	Upgrade and rehabilitate existing station piping.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$8,000	N/A	City
Neptune Beach	N/A	NB-014	Oceanwood Lift Station Renovation	Upgrade and rehabilitate existing wet well.	Sanitary Sewer	Completed	2011	Hopkins Creek	\$5,000	N/A	City
Neptune Beach	N/A	NB-015	Oceanwood Lift Station Renovation	Upgrade and rehabilitate existing station piping.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$8,000	N/A	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Neptune Beach	N/A	NB-016	Summer Sands Lift Station renovation	Upgrade and rehabilitate existing wet well and station piping.	Sanitary Sewer	Completed	2012	Hopkins Creek	\$13,000	N/A	City
Neptune Beach	N/A	NB-017	Penman Terrace Lift Station renovation	Upgrade and rehabilitate existing station piping.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$8,000	N/A	City
Neptune Beach	N/A	NB-018	Penman Terrace Lift Station renovation	Upgrade and rehabilitate existing wet well.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$5,000	N/A	City
Neptune Beach	N/A	NB-019	Leeward Landing Lift Station Renovation	Upgrade and rehabilitate existing pumps and station piping.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$10,000	N/A	City
Neptune Beach	N/A	NB-020	1st St. Lift Station Renovation	Upgrade and rehabilitate existing station valves.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$3,500	N/A	City
Neptune Beach	N/A	NB-021	Daily Inspection of Lift Stations	Visually inspect lift station.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	N/A	\$65,000	City
Neptune Beach	DEP	NB-022	Pipe Burst Existing Sewer Lines East of 3rd St.	Replace existing gravity sewer lines east of 3rd St. by means of pipe bursting, and spray manhole liners on existing manholes in work area to reduce I&I.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$3,000,000	N/A	DEP SRF Loan
Neptune Beach	N/A	NB-023	Rehabilitation of Manhole #57 on Hamlet Court	Rehabilitate existing manhole to reduce I&I.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$4,500	N/A	City
Neptune Beach	N/A	NB-024	Rehabilitation of Manhole #52 on Hamlet Court	Rehabilitate existing manhole to reduce I&I.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$4,500	N/A	City
Neptune Beach	N/A	NB-025	Rehabilitation of Manhole #119 on Penman Rd.	Rehabilitate existing manhole to reduce I&I.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$4,500	N/A	City
Neptune Beach	N/A	NB-026	Rehabilitation of Manhole #85 on 3rd St. and Davis Blvd.	Rehabilitate existing manhole to fix sagging/dropping manhole.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$4,500	N/A	City
Neptune Beach	N/A	NB-027	Rehabilitation of Manhole #23 on 1st St. at South St.	Rehabilitate existing manhole to reduce I&I.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	\$4,500	N/A	City
Neptune Beach	N/A	NB-028	Create GIS Mapping System for City Lift Station Inventory	Put together GIS mapping system and collect data for city's sanitary sewer lift station facilities.	Sanitary Sewer	Completed	2011	Hopkins Creek	\$2,000	N/A	City
Neptune Beach	N/A	NB-029	Create GIS mapping system for City Gravity Sanitary Sewer Inventory	Put together GIS mapping system and collect data for city's gravity sanitary sewer facilities.	Sanitary Sewer	Completed	2011	Hopkins Creek	\$5,000	N/A	City
Neptune Beach	N/A	NB-030	Create GIS Mapping System of Private Lift Station Inventory	Put together GIS mapping system and collect data for private lift station facilities in city.	Sanitary Sewer	Completed	2011	Hopkins Creek	\$2,500	N/A	City
Neptune Beach	N/A	NB-031	FOG Program	Routinely inspect grease traps and downstream sanitary sewer primarily at restaurant locations in city.	Sanitary Sewer	Completed	Prior to 2010	Hopkins Creek	N/A	\$5,000	City
Neptune Beach	N/A	NB-032	Stormwater System Ditch and Canal Maintenance	Continually inspect and maintain city's ditches; routinely inspect, mow, pick up litter, and repair as needed.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	\$90,000	City
Neptune Beach	N/A	NB-033	Stormwater System Pond Maintenance	Continually inspect and maintain city's 4 ponds; routinely inspect, mow, pick up litter, and repair as needed.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	\$2,500	City
Neptune Beach	N/A	NB-034, NB-040	Stormwater Education and Outreach Efforts	Participate in WAV Program.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	\$8,500	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Neptune Beach	N/A	NB-035	Pet Waste Management/Ordinance	Sec. 6-30. Defecation disposal. It shall be a violation for any owner of a dog to allow such dog to defecate on any property within the city other than the owner's private property without immediately removing such defecation with some sort of material, utensil or suitable container and depositing the defecation in a trash container. When walking a dog on any property within the city, other than the owner's property, the owner of that dog shall carry some sort of material, utensil or suitable container with which to dispose of the defecation. The owner in violation of this chapter shall pay a civil penalty to the department of public safety as set forth in section 6-5. (Ord. No. 1998-01, § 1, 4-6-98; Ord. No. 2005-09, § 5, 5-2-05).	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	\$5,000	Neptune Beach
Neptune Beach	N/A	NB-036	Street sweeping	Sweep roads with curb and gutter inside city limits.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	\$35,000	City
Neptune Beach	N/A	NB-037	Public Works Employee Training	Conduct annual training covering topics such as stormwater, illicit discharges, and Stormwater Pollution Prevention Plan (SWPPP).	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Neptune Beach	N/A	NB-038	Testing and Sampling	Increase water sampling of Hopkins Creek.	Source Identification Activities	Completed	Prior to 2010	Hopkins Creek	N/A	Not provided	City
Neptune Beach	N/A	NB-039	Stormwater Pollution Prevention Plan	Inspect Public Works facility quarterly and annually.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$5,000	N/A	City
Neptune Beach	N/A	NB-041	Organize a Walk the WBID for Hopkins Creek	Organize and participate in Walk the WBID for Hopkins Creek Watershed.	Source Identification Activities	Completed	Prior to 2010	Hopkins Creek	\$6,000	N/A	City
Neptune Beach	N/A	NB-042	Create GIS Mapping System for City Stormwater Related Inventory	Put together GIS mapping system and collect data for city's stormwater facilities; completion in 2010.	Stormwater	Completed	Prior to 2010	Hopkins Creek	\$5,000	N/A	City
Neptune Beach	N/A	NB-043	Right-of-Way Maintenance and Litter Collection	Routinely mow, maintain, and pick up litter in rights-of-way.	Stormwater	Completed	Prior to 2010	Hopkins Creek	N/A	\$65,000	City
Neptune Beach	N/A	NB-044	Gravity Sanitary Sewer Point Repair Behind Fletcher High School	Repair offset 8-in gravity sanitary sewer line behind Fletcher High School to facilitate lining main. Line was near adjacent ditch.	Sanitary Sewer	Completed	2012	Hopkins Creek	\$15,907	N/A	City
Neptune Beach	N/A	NB-045	Gravity Sanitary Sewer Line Rehabilitation Behind Fletcher High School	Lined 8-in gravity sewer main behind Fletcher High School adjacent to ditch with cured in place pipe (CIPP).	Sanitary Sewer	Completed	2012	Hopkins Creek	\$14,320	N/A	City

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Neptune Beach	N/A	NB-046	Gravity Sanitary Sewer Line Rehabilitation in Bal Harbour Subdivision	Lined portion of 8-in gravity main in Bal Harbour Subdivision.	Sanitary Sewer	Completed	2012	Hopkins Creek	\$24,920	N/A	City
Neptune Beach	N/A	NB-047	Storm Sewer Rehabilitation in Driftwood Subdivision	Lined portion of storm sewer in Driftwood Subdivision that was found to have offset joints with CIPP.	Stormwater	Completed	2012	Hopkins Creek	\$36,916	N/A	City
Neptune Beach	N/A	NB-048	Storm Sewer Repair on 5th St. Across from Fletcher High School	Replace 30 LF of existing storm sewer that crossed 5th St. discharging into major conveyance ditch.	Stormwater	Completed	2013	Hopkins Creek	\$1,059	N/A	City
Neptune Beach	N/A	NB-049	Culvert Replacement on South St.	30 LF of culvert replacement on South St.	Stormwater	Completed	2013	Hopkins Creek	\$702	N/A	City
Neptune Beach	N/A	NB-050	Sanitary Sewer Rehabilitation on Forest Ave.	Rebuild sanitary sewer manhole adjacent to Hopkins Creek.	Sanitary Sewer	Completed	2013	Hopkins Creek	\$13,205	N/A	City
Neptune Beach	N/A	NB-051	Bal Harbour Sanitary Sewer Improvements	5,000 LF of sewer rehabilitation and replacement in Bal Harbour neighborhood.	Sanitary Sewer	Completed	2014	Hopkins Creek	\$1,000,000	N/A	City
Neptune Beach	N/A	NB-052	Gravity Sanitary Sewer Point Repair Behind Fletcher High School	Repair offset 8-in gravity sanitary sewer line behind Fletcher High School to facilitate lining main. Line was near adjacent ditch.	Sanitary Sewer	Completed	2015	Hopkins Creek	\$15,907	N/A	City
Neptune Beach	N/A	NB-053	Gravity Sanitary Sewer Line Rehabilitation Behind Fletcher High School	Lined 8-in gravity sewer main behind Fletcher High School adjacent to ditch with CIPP.	Sanitary Sewer	Completed	2015	Hopkins Creek	\$14,320	N/A	City
Neptune Beach	N/A	NB-054	Gravity Sanitary Sewer Line Rehabilitation in Bal Harbour Subdivision	Lined portion of 8-in gravity main in Bal Harbour Subdivision.	Sanitary Sewer	Completed	2015	Hopkins Creek	\$24,920	N/A	City
Neptune Beach	N/A	NB-055	Storm Sewer Rehabilitation in Driftwood Subdivision	Lined portion of storm sewer in Driftwood Subdivision that was found to have offset joints with CIPP.	Stormwater	Completed	2015	Hopkins Creek	\$36,916	N/A	City
Neptune Beach	N/A	NB-056	Storm Sewer Repair on 5th St. across from Fletcher High School	Replace 30 LF of existing storm sewer that crossed 5th St. discharging into major conveyance ditch.	Stormwater	Completed	2015	Hopkins Creek	\$1,059	N/A	City
Neptune Beach	N/A	NB-057	Culvert Replacement on South St.	31 LF of culvert replacement on South St..	Stormwater	Completed	2015	Hopkins Creek	\$702	N/A	City
Neptune Beach	N/A	NB-058	Sanitary Sewer Rehabilitation on Forest Ave.	Rebuild sanitary sewer manhole adjacent to Hopkins Creek.	Sanitary Sewer	Completed	2015	Hopkins Creek	\$13,205	N/A	City
Neptune Beach	N/A	NB-059	Bal Harbour Sanitary Sewer Improvements	Sewer rehabilitation and replacement in Bal Harbour neighborhood.	Sanitary Sewer	Completed	2015	Hopkins Creek	\$1,000,000	N/A	City
Neptune Beach	N/A	NB-060	400 and 500 Block Sanitary sewer Improvements	Sewer rehabilitation and replacement of 50 % of 400 and 500 block area south of Florida Blvd.	Sanitary Sewer	Underway	TBD	Hopkins Creek	\$1,500,000	N/A	City
Neptune Beach	N/A	NB-061	Participate in TAT Calls and Efforts	Continue participation in TAT coordination calls and other TAT efforts.	Source Identification Activities	Completed	2015	Hopkins Creek	N/A	Not provided	City
Neptune Beach	N/A	NB-062	Source Identification Follow Up	Assist DEP in following up on source identification results that indicate human source.	Source Identification Activities	Completed	2015	Hopkins Creek	N/A	Not provided	City



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Naval Station (NS) Mayport	N/A	NSM-001	Septic Tank Removal at Building 375	Close septic tank at Building 375 and connect facility to sanitary sewer.	OSTDS	Completed	Prior to 2010	Sherman Creek	\$12,000	N/A	NS Mayport
NS Mayport	N/A	NSM-002	Repair Housing Sewer Mains	Reline housing area sewer main pipes with CIPP.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$228,100	N/A	NS Mayport
NS Mayport	N/A	NSM-003	Repair Housing Laterals	Reline housing unit laterals with CIPP.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$480,000	N/A	NS Mayport
NS Mayport	N/A	NSM-004	Manhole Rehabilitation	Rehabilitate manhole with cementitious coating.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$86,490	N/A	NS Mayport
NS Mayport	N/A	NSM-005	Telemetry System	Install telemetry/monitoring system at pump stations.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	Not provided	N/A	NS Mayport
NS Mayport	N/A	NSM-006	Collection System Spill Prevention Program	Clean and inspect (using video) sewage collection system.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	N/A	Not provided	NS Mayport
NS Mayport	N/A	NSM-007	Pump Station Inspections and Maintenance	Inspect, maintain, and clean sewage pump stations.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	N/A	Not provided	NS Mayport
NS Mayport	N/A	NSM-008	SSO Investigations	Investigate and document all SSOs.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	N/A	Not provided	NS Mayport
NS Mayport	N/A	NSM-009	Cooking Oil and Grease Recycling Program	Recycle oil and grease from all cooking facilities on station; through agreement with COJ, COJ removes used cooking oil and grease and recycles it; COJ has provided storage tanks; NS Mayport has constructed spill containments.	Sanitary Sewer	Completed	Prior to 2010	Sherman Creek	\$28,600	Not provided	NS Mayport
NS Mayport	N/A	NSM-010	Stormwater System Maintenance	Maintain vegetation and structures in stormwater system; remove trash and debris.	Stormwater	Completed	Prior to 2010	Sherman Creek	N/A	Not provided	NS Mayport
NS Mayport	N/A	NSM-011	Cleanout Swales and Culverts	Excavate stormwater ditches and swales to design elevation and cleanout culverts.	Stormwater	Completed	Prior to 2010	Sherman Creek	\$89,300	N/A	NS Mayport
NS Mayport	N/A	NSM-012	Debris Removal	Remove trash and debris from grounds.	Stormwater	Completed	Prior to 2010	Sherman Creek	N/A	Not provided	NS Mayport
NS Mayport	N/A	NSM-013	IDDE	Systematically survey for and eliminate illicit connections/ discharges to stormwater system.	Stormwater	Completed	Prior to 2010	Sherman Creek	N/A	Not provided	NS Mayport
NS Mayport	N/A	NSM-014	Stormwater Public Education and Outreach Efforts	Publish quarterly articles in NS Mayport newspaper and housing newsletter; publish resident brochure.	Stormwater	Completed	Prior to 2010	Sherman Creek	N/A	Not provided	NS Mayport
NS Mayport	N/A	NSM-015	Pet Waste Management/ Ordinance	Regulate pets in housing areas.	Stormwater	Completed	Prior to 2010	Sherman Creek	N/A	Not provided	NS Mayport
NS Mayport	N/A	NSM-016	Pet Waste Collection Stations	Install and maintain pet waste collection stations in recreational areas.	Stormwater	Completed	2011	Sherman Creek	\$1,417	N/A	NS Mayport
NS Mayport	N/A	NSM-017	Street Sweeping–Housing	Sweep streets and cul-de-sacs monthly in on-base and off-base housing areas.	Stormwater	Completed	Prior to 2010	Sherman Creek	N/A	Not provided	Public/Private Venture
NS Mayport	N/A	NSM-018	Street Sweeping–Station	Sweep streets monthly in nonhousing areas.	Stormwater	Completed	Prior to 2010	Sherman Creek	N/A	Not provided	NS Mayport
NS Mayport	N/A	NSM-019	Storm Drain Markers	Install storm drain markers on street and parking lot stormwater inlets.	Stormwater	Completed	2011	Sherman Creek	Not provided	N/A	NS Mayport



Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
NS Mayport	N/A	NSM-020	Participate in TAT Calls and Efforts	Continue participation in TAT coordination calls and other TAT efforts.	Source Identification Activities	Completed	2015	Sherman Creek	N/A	Not provided	NS Mayport
NS Mayport	N/A	NSM-021	Sample Analysis	Continue BMAP monitoring, with adjustments made as needed, and follow up on high results per TAT protocol. Add <i>E. coli</i> and Enterococci, as appropriate.	Source Identification Activities	Completed	2015	Sherman Creek	N/A	Not provided	NS Mayport

## **Manatee River BMAP**

### ***Background***

The headwaters of the Manatee River Basin are in northeastern Manatee County, near the Four Corners area. The river drains an area of 360 square miles, flowing 45 miles westward and discharging to Lower Tampa Bay. Major tributaries include Gilley Creek, Gamble Creek, and the Braden River. The watershed includes two run-of-the-river water supply reservoirs: Lake Manatee on the Manatee River provides potable water supply to Manatee County, and the Bill Evers Reservoir (also known as Ward Lake) on the Braden River supplies the City of Bradenton. The basin is a mixture of suburban planned development, rural development, and agriculture.

The Manatee River BMAP was adopted in 2014 and addresses four fecal coliform TMDLs adopted in 2009: Rattlesnake Slough (WBID 1923), Cedar Creek (WBID 1926), Nonsense Creek (WBID 1913), and Braden River above Evers Reservoir (WBID 1914); as well as two DO and nutrient TMDLs: Nonsense Creek (WBID 1913) and Braden River above Evers Reservoir (WBID 1914). **Figure D-7** shows the locations of these BMAP watersheds.

The BMAP includes the implementation of FIB source identification efforts such as Walk the WBID, and requires production agricultural operations in BMAP WBIDs to participate in the FDACS BMP Program or elect to perform water quality monitoring of their operations.

### ***Status of Projects***

From April 2014 through March 2015, six projects were reported as completed. All six projects were implemented prior to BMAP adoption and none of the projects are ongoing, maintenance activities.

***Frequency of Exceedance***

**Table D-10** lists the frequency of exceedance of the ten percent threshold fecal coliform criterion for the Cycle 3 assessment verified period (January 1, 2007, to June 30, 2014) (before BMAP adoption in 2014) and from January 1, 2009, to June 30, 2016.

**Table D-10. Exceedance frequency for the Manatee River BMAP WBIDs**

<b>WBID</b>	<b>Waterbody Name</b>	<b>January 1, 2007, to June 30, 2014 % Exceedance</b>	<b>January 1, 2009, to June 30, 2016 % Exceedance</b>
<b>1923</b>	Rattlesnake Slough	26	22
<b>1926</b>	Cedar Creek	63	50
<b>1913</b>	Nonsense Creek	41	48
<b>1914</b>	Braden River above Ward Lake	14	18

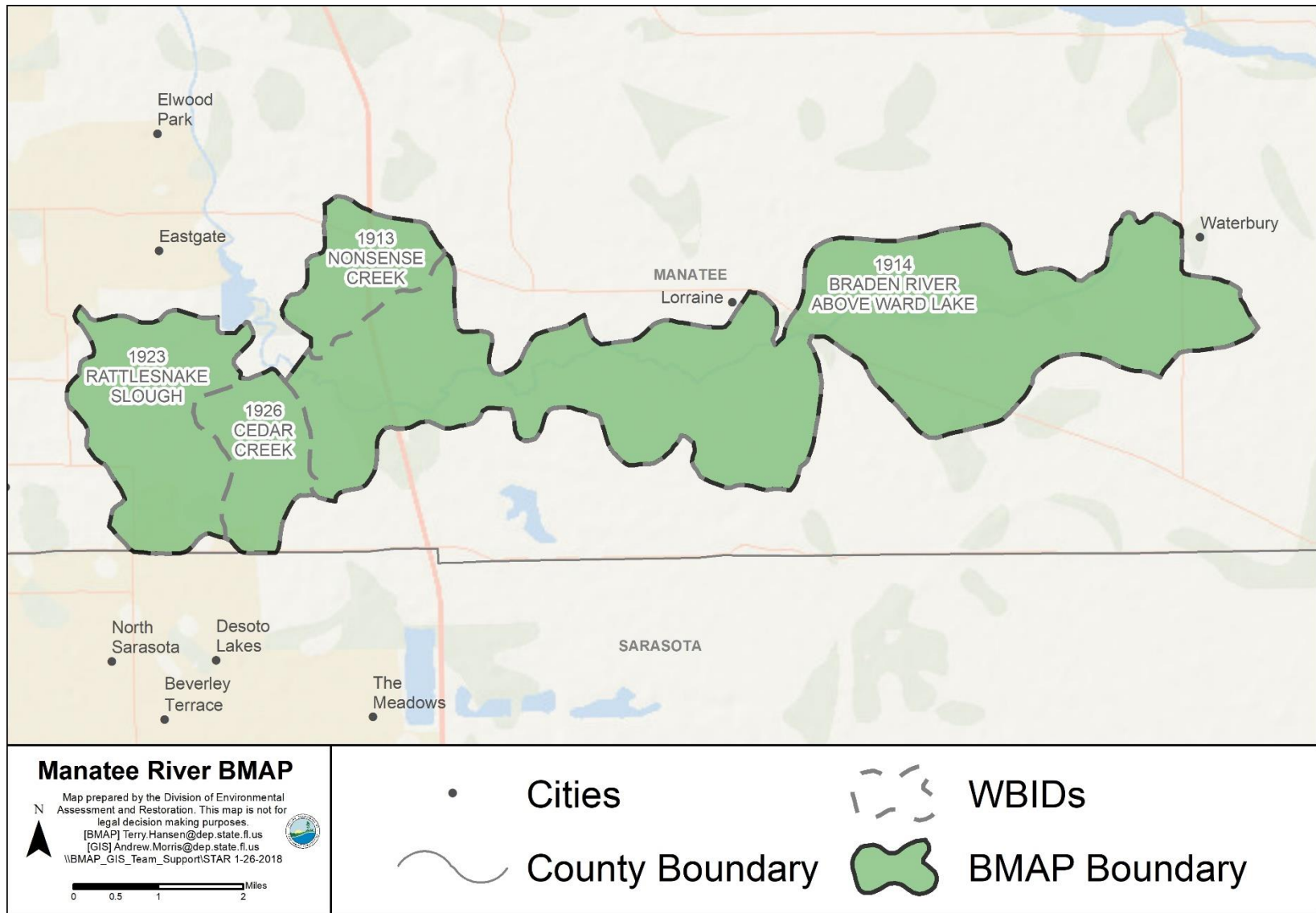


Figure D-7. Manatee River BMAP WBIDs

**Table D-11. Manatee River BMAP projects**

Lead Entity	Partners	Project Number	Project Name	Project Description	Project Type	Project Status	Estimated Completion Date	Location	Cost Estimate	Cost Annual O&M	Funding Source
Braden River Utilities	N/A	TBEP-1165	Reclaimed Water	Water use reduction and quality improvement.	Reclaimed Water	Completed	2012	Manatee River Basin	Not provided	Not provided	Braden River Utilities
FDOT	N/A	TBEP-1166	201032-2 I-75 at SR 70 Interchange	FPID 201032-2 will improve I-75 and SR 70 interchange in Manatee County, including stormwater treatment facilities.	Stormwater	Underway	TBD	Manatee River Basin	\$10,000,000	Not provided	FDOT
Manatee County	N/A	MC-0001	Walk the Waterbody	Walk the Waterbody exercise for Rattlesnake Slough to identify potential issues in watershed.	Source Identification Activities	Completed	2012	Manatee River Basin	Not provided	N/A	County
Manatee County	N/A	MC-0002	Walk the Waterbody	Walk the Waterbody exercise for Cedar Creek to identify potential issues in watershed.	Source Identification Activities	Completed	2013	Manatee River Basin	Not provided	N/A	County
Manatee County	N/A	MC-1312	Fertilizer Ordinance	Water quality improvement ordinance.	Stormwater	Completed	2011	Manatee River Basin	Not provided	Not provided	County
Manatee County	Not provided	TBEP-0942	Conservatory	50 ac of land purchased for preservation.	Stormwater	Completed	2004	Manatee River Basin	\$3,200,000	Not provided	Not provided
Manatee County	SWFWMD/ City of Bradenton	TBEP-1165	Braden River Area Surface Water Assessment	Surface water resource assessment for Braden River Watershed.	Stormwater	Completed	2012	Manatee River Basin	\$300,000	N/A	SWFWMD/ City of Bradenton
River Club HOA	SWFWMD	RCHA-0001	2010 Love Our Lake Campaign	Educate residents on benefits of reducing fertilizer use, provide handouts in English and Spanish, become model for other associations, measure behavioral changes with pre- and post-survey.	Stormwater	Not provided	Not provided	Manatee River Basin	\$2,800	N/A	SWFWMD
River Club HOA	SWFWMD	RCHA-0002	2011 Volunteer Water Quality Education Program	Educate residents on how to collect and test water quality samples, demonstrate how ponds treat stormwater, reduce fertilizer use June to September, Manatee County Ordinance passed June 2011; effective June 2012.	Stormwater	Not provided	Not provided	Manatee River Basin	\$4,429	N/A	SWFWMD
River Club HOA	Not provided	RCHA-0003	2012 Project to Reduce Nutrient Runoff in Stormwater Ponds	Build on existing community initiatives, use community-based social marketing techniques, educate homeowners on Manatee County fertilizer ordinance, monitor effectiveness of blackout period in ordinance, monitor homeowner awareness of ordinance, test homeowners support for BMPs.	Stormwater	Not provided	Not provided	Manatee River Basin	Not provided	Not provided	Not provided
River Club HOA	Not provided	RCHA-0004	Additional Projects	Flow-way maintenance projects, cooperative maintenance projects with golf course, floating tussock removal projects, shoreline restoration projects.	Stormwater	Underway	TBD	Manatee River Basin	Not provided	Not provided	Not provided
Schroeder-Manatee Ranch	Not provided	SMR-0002	Water Quality Monitoring	Not provided.	Stormwater	Underway	TBD	Manatee River Basin	Not provided	Not provided	Not provided
Schroeder-Manatee Ranch	N/A	SMR-0001	Agricultural BMPs (Citrus, Cow/Calf, Container Nurseries, Sod)	Reduction in agricultural fertilizer use.	Stormwater	Underway	TBD	Manatee River Basin	N/A	N/A	N/A
Manatee County	Not provided	TBEP-1350	Deep Well Injection at North WRF (NWRf)	Not provided.	Reclaimed Water	Planned	TBD	Manatee River Basin	Not provided	Not provided	Not provided
Manatee County	Not provided	TBEP-1351	Deep Well Injection at Southwest WRF (SWWRf)	Not provided.	Reclaimed Water	Planned	TBD	Manatee River Basin	Not provided	Not provided	Not provided
Manatee County	Not provided	TBEP-1354	Manatee County Southeast WRF (SEWRf Upgrade)	Not provided.	Reclaimed Water	Planned	TBD	Manatee River Basin	Not provided	Not provided	Not provided