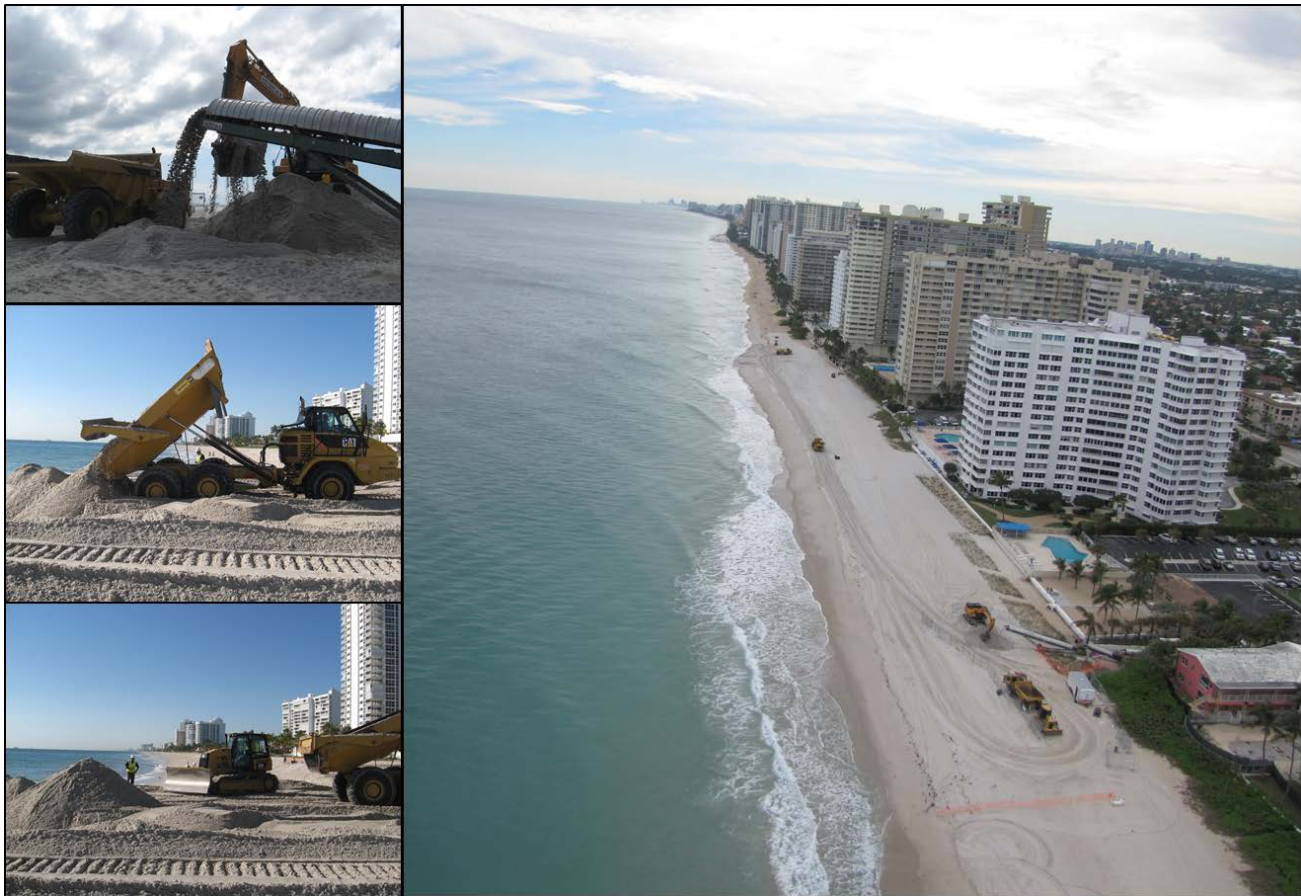


***Beach Management Funding Assistance Program
Fixed Capital Outlay Local Government Funding Requests
Fiscal Year 2017-18***

**Division of Water Restoration Assistance
Florida Department of Environmental Protection**

December 1, 2016



*2016 Truck Haul Nourishment of Segment II - Broward County Shore Protection Project.
Photo courtesy of Broward County.*

3900 Commonwealth Boulevard, MS 41
Tallahassee, Florida 32399-3000
www.dep.state.fl.us



TABLE OF CONTENTS

Introduction 3
Beach Restoration and Nourishment Projects 4
Beach Restoration and Nourishment Projects Table 5
Beach Project Post-Construction Monitoring 7
Inlet Sand Bypassing/Inlet Management Plan Implementation Projects 8
Inlet Sand Bypassing/Inlet Management Plan Implementation Projects Table 9
Inlet Project Post-Construction Monitoring 10

Beach Management Projects

St. Johns County Shore Protection Project 11
St. Joseph Peninsula Beach Nourishment 12
Panama City Beaches Shore Protection Project 13
Sunny Isles Segment – Dade County Shore Protection Project 14
Cortez Groins Replacement 15
Jupiter/Carlin Segment – Palm Beach County Shore Protection Project 16
Treasure Island Segment – Pinellas County Shore Protection Project 17
Central Boca Raton Beach Nourishment 18
South Siesta Key Beach Nourishment 19
Bonita Beach Nourishment 20
South Boca Raton Beach Nourishment 21
Mid-Town Beach Nourishment 22
Juno Beach Nourishment 23
Jupiter Island Beach Nourishment 24
Phipps Ocean Park Beach Nourishment 25
South Ponte Vedra/Vilano/Summer Haven Federal Feasibility Study 26
Perdido Key Beach Restoration 27
Key Biscayne Beach Nourishment 28
Coral Cove Park Dune Nourishment 29
South Jupiter Feasibility Study 30
Southern Palm Beach Island Beach Restoration 31
Mexico Beach Restoration 32
Vero Beach Feasibility Study 33
Charlotte County Beach Restoration 34
Singer Island Dune Nourishment 35
Regional Monitoring 36

Inlet Management Projects (IMP)

Port Everglades IMP Implementation 37
East Pass Inlet Management Study 38
Ft. Pierce IMP Implementation 39
Boca Raton IMP Implementation 40
St. Augustine Inlet IMP Implementation 41
Big Carlos Pass Inlet Management Study 42
Estero Bay Inlet Management Study 43

INTRODUCTION

Florida is dependent on its 825 miles of sandy beaches fronting the Atlantic Ocean, Gulf of Mexico and Straits of Florida for storm protection. Healthy beaches protect public infrastructure and private upland development, provide critical habitat for many endangered and threatened species and secure recreational and economic interest along the state's sandy shoreline. According to the Florida Office of Economic and Demographic Research (2015), "the state's investment in the Beach Management Program generated a positive return on investment of 5.4,.. estimated using tax revenues resulting from visitor spending... A return of greater than 1 means that the tax revenue generated by tourists to the state of Florida more than covers the state's expenditure on beaches...".

The Florida Department of Environmental Protection (DEP) is charged, in Chapter 161, Florida Statutes (F.S.), with developing and implementing a comprehensive, long-range statewide beach management plan. DEP has developed, in coordination with local sponsors and the U.S. Army Corps of Engineers (Corps), a Strategic Beach Management Plan (Strategic Plan), Long Range Budget Plan and annual inventory of beach erosion control projects proposing activities for the coming fiscal year. The Strategic Plan adopts strategies for erosion control activities along critically eroded beaches and inlets. Projects must have a clearly identifiable beach management benefit consistent with the Strategic Plan to be eligible for state funding assistance.

Florida's beach management program provides funding for a variety of local government-sponsored erosion control activities (e.g., feasibility and design studies, construction of erosion control structures and engineered sand placement, and post-construction monitoring to document project performance and potential impacts). Restoration involves the initial placement of sand to rebuild a beach that has been severely eroded. Beach nourishment, or periodic maintenance, places sand on previously restored beaches at specific intervals based on project performance in order to maintain original design intent for storm protection, recreational beach area and habitat enhancement. Inlet management and inlet sand bypassing is also critical to account for the disruption of sand transport along the shoreline caused by dredging of inlets.

DEP currently designates 411.2 miles of sandy shoreline as critically eroded. Since 1998, when the Florida Legislature dedicated a portion of the Ecosystem Management and Restoration Trust Fund for beach management, \$691.2 million has been appropriated to cost-share with local governments on local and federally authorized projects, with each level of government contributing about one-third of the cost of the entire program. This funding has resulted in the restoration and subsequent maintenance of more than 227.4 miles, or nearly 55 percent, of the state's critically eroded beaches.

The funding requests for FY 2017-18 consist of 47 different projects, which total nearly \$73 million. The prioritized list of beach erosion control projects is organized in two sections: Beach Restoration and Nourishment Projects (Beach Projects) and Inlet Sand Bypassing/Inlet Management Plan Implementation Projects (Inlet Projects). Each section contains a list of eligible projects ranked in priority order, based on the authority in Sections 161.101 and 161.143, F.S., and the procedures outlined in Chapter 62B-36, Florida Administrative Code (F.A.C.), as amended in 2013. Post construction monitoring, required by state and federal permit, is presented on each list as a consolidated category, pursuant to Section 62B-36.003(11), F.A.C. Projects have been evaluated by DEP based on consistency with the Strategic Plan, permitting status, readiness to proceed with the proposed funding phase, and the appropriateness of the amount of funding requested.

This document is organized with an overview of the Beach Projects, followed by a summary funding table with beach projects listed in priority order and then a summary table for post-construction monitoring of beach projects. Next, the document provides an overview of the Inlet Projects, followed by a summary funding table with inlet projects listed in priority order and then a summary table for post-construction monitoring of inlet projects. Lastly, project descriptions of individual beach and inlet projects are provided in the order that they appeared in the funding tables. A separate report will be provided detailing storm damages sustained during the 2016 Hurricane Season and the anticipated costs for completing repairs.

BEACH RESTORATION AND NOURISHMENT PROJECTS

DEP has developed a multiyear repair and maintenance strategy to implement the state responsibilities for a comprehensive, long-range, statewide program of beach erosion control, including beach restoration, nourishment and storm protection. The principles of this strategy are to:

- Maximize the infusion of beach-quality sand into the coastal system;
- Implement projects that contribute most significantly to addressing the state's beach erosion problems;
- Extend the life of beach restoration projects and reduce the frequency of nourishment;
- Encourage regional approaches to ensure the geographic coordination and sequencing of projects; and
- Reduce equipment mobilization and demobilization costs.

The funding requests for Beach Projects for FY 2017-18 total nearly \$50 million. Projects are presented in the following order:

- Post-construction Monitoring List: a comprehensive list of 18 projects requesting funds for state and federal permit-required monitoring;
- Beach Restoration and Nourishment Projects: a total of 25 projects requesting funds for feasibility studies, design and permitting, construction and year 1 monitoring (seven of these projects are also listed on the post-construction monitoring list above); and
- Regional Monitoring.

Projects have been evaluated by DEP and ranked in priority order. The descriptions of the proposed projects are based primarily on information provided by local governments. Funding eligibility and state cost share are calculated individually for each project based on public access, as defined by program rule, but have yet to be field verified.

BEACH RESTORATION AND NOURISHMENT PROJECTS

Rank	Project	Local Sponsor	Project Phase	Federal	State	Local	Total	Cumulative State Total
	Post-Construction Monitoring (1)	Various	Monitoring	\$311,314	\$1,247,173	\$1,699,685	\$3,258,172	\$1,247,173
1	St. Johns County Shore Protection Project	St. Johns County	Design	\$1,000,000	\$100,000	\$129,568	\$1,229,568	\$1,347,173
2	St. Joseph Peninsula Beach Nourishment	Gulf County	Construction	\$0	\$4,951,325	\$9,000,000	\$13,951,325	\$6,298,498
3	Panama City Beaches Shore Protection Project	Bay County	Design, Construction	\$0	\$4,628,670	\$9,221,330	\$13,850,000	\$10,927,168
4	Sunny Isles Segment – Dade County Shore Protection Project	Miami-Dade County	Construction	\$8,151,000	\$2,492,500	\$2,492,500	\$13,136,000	\$13,419,668
5	Cortez Groins Replacement (2)	Manatee County	Construction	\$0	\$792,850	\$792,850	\$1,585,700	\$14,212,518
6	Jupiter/Carlin Segment – Palm Beach County Shore Protection Project	Palm Beach County	Design	\$0	\$160,000	\$160,000	\$320,000	\$14,372,518
7	Treasure Island – Pinellas County Shore Protection Project	Pinellas County	Construction	\$6,960,000	\$2,530,000	\$2,530,000	\$12,020,000	\$16,902,518
8	Central Boca Raton Beach Nourishment	City of Boca Raton	Design, Construction	\$0	\$3,202,180	\$4,364,407	\$7,566,587	\$20,104,698
9	South Siesta Key Beach Nourishment (2)	Sarasota County	Construction	\$0	\$5,950,956	\$8,454,650	\$14,405,606	\$26,055,654
10	Bonita Beach Nourishment (2)	Lee County	Construction	\$0	\$175,239	\$298,381	\$473,620	\$26,230,893
11	South Boca Raton Beach Nourishment (2)	City of Boca Raton	Design, Construction	\$0	\$824,915	\$837,885	\$1,662,800	\$27,055,808
12	Mid-Town Beach Nourishment (2)	Town of Palm Beach	Construction	\$0	\$7,820,000	\$9,180,000	\$17,000,000	\$34,875,808
13	Juno Beach Nourishment	Palm Beach County	Design	\$50,000	\$150,000	\$150,000	\$350,000	\$35,025,808

- (1) Environmental and physical monitoring required by state and federal permits after the first year of monitoring has been consolidated on the Post-construction Monitoring list. A total of 18 previously constructed projects require monitoring activities for FY 2017-18. A complete monitoring project listing can be found on Page 12. First-year monitoring has been included with construction funds.
- (2) Project includes funding for reimbursement for construction either that has been completed prior to the funding request submittal or that will be completed prior to the end of FY 2016-17.

BEACH RESTORATION AND NOURISHMENT PROJECTS (CONTINUED)

Rank	Project	Local Sponsor	Project Phase	Federal	State	Local	Total	Cumulative State Total
14	Jupiter Island Beach Nourishment	Town of Jupiter Island	Design	\$0	\$39,192	\$190,808	\$230,000	\$35,065,000
15	Phipps Ocean Park Beach Nourishment (2)	Town of Palm Beach	Construction	\$0	\$7,410,000	\$11,590,000	\$19,000,000	\$42,475,000
16	South Ponte Vedra/Vilano Beach/Summer Haven Federal Feasibility Study	St. Johns County	Feasibility	\$1,125,000	\$255,088	\$255,088	\$1,635,176	\$42,730,088
17	Perdido Key Beach Restoration	Escambia County	Design, Construction	\$0	\$4,204,819	\$8,517,781	\$12,722,600	\$46,934,907
18	Key Biscayne Beach Nourishment	Village of Key Biscayne	Design	\$0	\$55,000	\$55,000	\$110,000	\$46,989,907
19	Coral Cove Park Dune Nourishment (2)	Palm Beach County	Construction	\$0	\$825,000	\$825,000	\$1,650,000	\$47,814,907
20	South Jupiter Beach Feasibility Study	Palm Beach County	Feasibility	\$0	\$100,000	\$100,000	\$200,000	\$47,914,907
21	Southern Palm Beach Island Restoration	Palm Beach County	Feasibility, Design	\$0	\$173,672	\$173,672	\$347,344	\$48,088,579
22	Mexico Beach Restoration	City of Mexico Beach	Design, Construction	\$0	\$183,680	\$226,320	\$410,000	\$48,272,259
23	Vero Beach Feasibility Study	Indian River County	Feasibility, Design	\$0	\$337,500	\$337,500	\$675,000	\$48,609,759
24	Charlotte County Beach Restoration	Charlotte County	Feasibility, Design	\$0	\$216,450	\$338,550	\$555,000	\$48,826,209
25	Singer Island Shore Protection	Palm Beach County	Construction	\$0	\$599,175	\$900,825	\$1,500,000	\$49,425,384
26	Regional Monitoring	DEP	Monitoring	\$0	\$250,000	\$0	\$250,000	\$49,675,384
	TOTAL			\$17,597,314	\$49,675,384	\$72,821,800	\$140,094,498	

- (1) Environmental and physical monitoring required by state and federal permits after the first year of monitoring has been consolidated on the Post–construction Monitoring list. A total of 18 previously constructed projects require monitoring activities for FY 2017-18. A complete monitoring project listing can be found on page 7. First-year monitoring has been included with construction funds.
- (2) Project includes funding for reimbursement for construction either that has been completed prior to the funding request submittal or that will be completed prior to the end of FY 2016-17.

BEACH RESTORATION AND NOURISHMENT POST-CONSTRUCTION MONITORING

PROJECT DESCRIPTION:

This category serves to provide funding for monitoring activities associated with previously constructed projects. Eligible program activities include physical and biological monitoring required by permit.

FUNDS REQUESTED:

Funds will be used to support the following projects identified in priority order. First year monitoring required by permit is included in the construction funds on the beach projects list.

Project	Federal	State	Local	Total
St. Johns County Shore Protection Project	\$0	\$65,340	\$84,660	\$150,000
Ft. Pierce Shore Protection Project	\$0	\$125,000	\$125,000	\$250,000
Blind Pass Ecosystem Restoration	\$0	\$19,755	\$19,755	\$39,510
South Amelia Island Beach Nourishment	\$0	\$130,452	\$202,248	\$332,700
Pensacola Beach Nourishment	\$0	\$39,500	\$39,500	\$79,000
North Boca Raton Segment/Palm Beach County Shore Protection Project	\$0	\$52,500	\$52,500	\$105,000
Delray Segment/Palm Beach County Shore Protection Project	\$67,104	\$26,013	\$26,013	\$119,130
Central Boca Raton Beach Nourishment	\$0	\$58,275	\$79,425	\$137,700
Bonita Beach Nourishment	\$0	\$11,591	\$19,737	\$31,328
Ocean Ridge Segment – Palm Beach County Shore Protection Project	\$0	\$100,000	\$100,000	\$200,000
Segment II/Broward County Shore Protection Project	\$244,210	\$81,034	\$117,968	\$443,212
Mid-Reach Segment/Brevard County Shore Protection Project	\$0	\$279,630	\$305,370	\$585,000
Mid-Town Beach Nourishment	\$0	\$35,420	\$41,580	\$77,000
Jupiter Island Beach Nourishment	\$0	\$59,640	\$290,360	\$350,000
Phipps Ocean Park Beach Nourishment	\$0	\$27,690	\$43,310	\$71,000
South St. Lucie County Federal Feasibility Study	\$0	\$56,537	\$73,463	\$130,000
Navarre Beach Nourishment	\$0	\$49,629	\$49,629	\$99,258
Key Biscayne Beach Nourishment	\$0	\$29,167	\$29,167	\$58,334
TOTAL	\$311,314	\$1,247,173	\$1,699,685	\$3,258,172

INLET SAND BYPASSING/INLET MANAGEMENT PLAN IMPLEMENTATION PROJECTS

Navigational inlets are critical components of the state's commercial and recreational infrastructure, but they contribute significantly to beach erosion by interrupting or altering the natural drift of sand. For this reason, the Legislature has directed DEP further commit its comprehensive beach management efforts to addressing beach erosion caused by inlets. Funding for the inlet projects will be used to implement the actions recommended in the specific Inlet Management Plans (IMP) or the statewide Strategic Plan. IMPs adopted by DEP are incorporated into the Strategic Plan by reference along with other inlet management strategies. Feasibility studies conducted by local governments, federal and state studies and reports, and the study reports authorizing federal shore protection projects are also incorporated by reference. Inlet management projects include, but are not limited to, inlet sand bypassing, modifications to channel dredging, jetty redesign, jetty repair, disposal of dredge material, and the development, revision, adoption or implementation of an IMP.

The Legislature amended Section 161.142, F.S., and created Section 161.143, F.S., in 2008 to strengthen DEP's commitment to managing sediment around inlets. These sections direct DEP to develop and maintain sediment budgets for each inlet and ensure beach quality sand is placed on adjacent eroding beaches. It further establishes funding priorities and ranking criteria for inlet projects and requires DEP to provide an annual inlet project list to the Legislature for funding. Rule 62B-36, F.A.C., was amended in August 2013 to incorporate new ranking criteria specific to inlet projects. These new criteria were used in ranking projects for FY 2017-18. Post-construction monitoring is consolidated into a single category, pursuant to section 62B-36.003, F.A.C.

The funding requirements provided in Section 161.143, F.S., also include provisions that:

- At least 10 percent of the total amount that the Legislature appropriates will be used for the three highest-ranked inlet projects;
- At least 50 percent of the funds appropriated for the feasibility and design category will be made available for inlet management projects which involve the study, design or development of an inlet management project; and
- Inlet projects may receive 75 percent state cost share for the proposed activity.

In FY 2017-18, funding requests for 11 Inlet Sand Bypassing/Inlet Management Plan Implementation Projects (Inlet Projects) are included in the Beach Management Funding Assistance Program. These projects total more than \$23 million in requested state funding. The funding priorities established by DEP must be consistent with the requirements and legislative declaration in Sections 161.101(14), 161.142, 161.143 and 161.161(1)(b), F.S. Projects are presented in the following order:

- Post-construction Monitoring List: a comprehensive list of five projects requesting funds for state and federal permit-required monitoring; and
- Inlet Management Implementation/Inlet Sand Bypassing Projects: a total of seven projects requesting funds for feasibility studies, design and permitting, construction and year 1 monitoring (one of these projects is also listed on the post-construction monitoring list above);

INLET SAND BYPASSING/INLET MANAGEMENT PLAN IMPLEMENTATION PROJECTS

Rank	Project Name	Local Sponsor	Project Phase	Federal	State	Local	Total	Cumulative State Total
	Post Construction Monitoring (1)	Various	Monitoring	\$0	\$750,150	\$250,050	\$1,000,200	\$750,150
1	Port Everglades IMP Implementation	Broward County	Construction	\$0	\$19,162,500	\$6,387,500	\$25,550,000	\$19,912,650
2	East Pass Inlet Management Study	Okaloosa County	Feasibility	\$0	\$262,500	\$87,500	\$350,000	\$20,175,150
3	Ft. Pierce IMP Implementation	St. Lucie County	Construction	\$0	\$2,497,500	\$832,500	\$3,330,000	\$22,672,650
4	Boca Raton IMP Implementation	City of Boca Raton	Construction	\$0	\$150,000	\$50,000	\$200,000	\$22,822,650
5	St. Augustine Inlet IMP Implementation	St. Johns County	Design	\$0	\$225,000	\$75,000	\$300,000	\$23,047,650
6	Big Carlos Pass IMP Implementation	West Coast Inland Navigation District	Design	\$0	\$55,500	\$18,500	\$74,000	\$23,103,150
7	Estero Bay Inlet Management Study	Lee County	Feasibility	\$0	\$158,473	\$52,825	\$211,298	\$23,261,623
	TOTAL			\$0	\$23,261,623	\$7,753,875	\$31,015,498	

(1) Environmental and physical monitoring required by state and federal permits has been consolidated on the Post-construction Monitoring list. A total of six previously constructed projects require monitoring activities for FY 2017-18. A complete monitoring project listing can be found on page 10.

INLET MANAGEMENT POST-CONSTRUCTION MONITORING

PROJECT DESCRIPTION:

This category serves to provide funding for monitoring activities associated with previously constructed projects. Eligible program activities include physical and biological monitoring required by permit.

FUNDS REQUESTED:

Funds will be used to support the following projects identified in priority order.

Post Construction Monitoring	Federal Cost	State cost	Local cost	Total
St. Lucie IMP Implementation	\$0	\$431,250	\$143,750	\$575,000
Lake Worth IMP Implementation	\$0	\$198,000	\$66,000	\$264,000
South Lake Worth IMP Implementation	\$0	\$90,000	\$30,000	\$120,000
Boca Raton IMP Implementation	\$0	\$15,900	\$5,300	\$21,200
Longboat Pass IMP Implementation	\$0	\$15,000	\$5,000	\$20,000
TOTAL	\$0	\$750,150	\$250,050	\$1,000,200

NAME OF PROJECT: St. Johns County Shore Protection Project

LOCAL SPONSOR: St. John's County

LOCAL CONTACT: Greg Caldwell **PHONE:** (904) 209-0132

PROJECT DESCRIPTION:

The St. Johns County Shore Protection Program project consists of approximately 2.9 miles of shoreline between DEP Monuments R137 – R151 in St. Johns County. The project includes 0.9 miles of beach within Anastasia Island State Recreation Area. Restoration of the federal project and the non-federal extension within the state recreation area was completed in 2003. Emergency nourishment was completed in 2005 based on damages sustained during the 2004 hurricane season. Nourishment was completed in 2012. Staff has determined that 78.87 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Design.

Federal	State	Local	Total
\$1,000,000	\$100,000	\$129,568	\$1,229,568

NAME OF PROJECT: St. Joseph Peninsula Beach Nourishment

LOCAL SPONSOR: Gulf County

LOCAL CONTACT: Don Butler **PHONE:** (850) 229-6111

PROJECT DESCRIPTION:

The St. Joseph Peninsula Beach Nourishment project consists of approximately 7.5 miles of shoreline between DEP Monuments R69 – R105.5 in Gulf County. Restoration was completed in 2009 and monitoring is ongoing. Due to damages sustained from Tropical Storm Gustav in 2008 during the restoration, the County is working with the Federal Emergency Management Agency (FEMA) to construct a hurricane recovery project between DEP Monuments R74.8 – R95.3. The first full nourishment is scheduled for FY 2017-18. Staff has determined that 70.98 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Construction (nourishment) and first year monitoring.

Federal	State	Local	Total
\$0	\$4,951,325	\$9,000,000	\$13,951,325

NAME OF PROJECT: Panama City Beaches Shore Protection Project

LOCAL SPONSOR: Bay County

LOCAL CONTACT: Dan Rowe **PHONE:** (850) 233-5070

PROJECT DESCRIPTION:

The Panama City Beaches Shore Protection project is an 18.6-mile segment of critically eroded beach, which includes the Panama City Beaches and St. Andrews State Park. The federal Panama City Beaches Shore Protection Project (DEP Monuments R0.5 – R92) extends from just east of the Walton-Bay County line eastward to the boundary of St. Andrews State Park. The project is authorized until 2048, with the Pinnacle Port and Carillon Beach portion authorized until 2061. Beach restoration was completed in 1999 along 17.7 miles of beach between DEP Monument R1 and the pier at St. Andrews State Park (DEP Monument R93). Nourishment followed in 2006 for DEP Monuments R4.5 – R92 using federal emergency funds. Federal nourishment of the Carillon/Pinnacle Port section (DEP Monuments R1 – R5) was completed in 2011, along with hotspot nourishment for DEP Monuments R5.5 – R29 and R81 – R92. Non-federal nourishment for four current hot spot locations is scheduled for FY 2017-18. Staff has estimated that 66.84 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Design, construction and first year monitoring.

Federal	State	Local	Total
\$0	\$4,628,670	\$9,221,330	\$13,850,000

NAME OF PROJECT: Sunny Isles Segment – Dade County Shore Protection Project

LOCAL SPONSOR: Miami-Dade County

LOCAL CONTACT: Jamie Monty **PHONE:** (305) 372-6853

PROJECT DESCRIPTION:

The Dade County Shore Protection project consists of the nourishment of approximately 13.4 miles of shoreline within the Municipal boundaries of Sunny Isles, Bal Harbour, Surfside and Miami Beach between DEP Monuments R7 – R74 in Miami-Dade County. Restoration was first initiated in 1972 with the final segments being added in 1986. Federal nourishment projects are constructed periodically and on an “as needed” basis, with hot-spot nourishment being conducted by the County using upland sand between federal projects. The 2016 federal nourishment will place 220,000 cubic yards of sand within the Miami Beach segment via truck haul. In 2017, a federal nourishment is planned for the Sunny Isles Segment, with sand placed in four hot spot locations between DEP Monuments R7 – R19. Staff has estimated that the project segment is 50 percent eligible for state funding.

FUNDS WILL BE USED FOR:

Construction (nourishment).

Federal	State	Local	Total
\$8,151,000	\$2,492,500	\$2,492,500	\$13,136,000

NAME OF PROJECT: Cortez Groins Replacement

LOCAL SPONSOR: Manatee County

LOCAL CONTACT: Charlie Hunsicker **PHONE:** (941) 745-3727

PROJECT DESCRIPTION:

The Cortez Groins Replacement project consists of the replacement of three groins at Cortez Beach along approximately 1.5 miles of shoreline between DEP Monuments R33 – R41.3 in Manatee County. Replacement of the Cortez Groins is scheduled for completion in FY 2016-17. Staff has determined that 100 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Construction (additional funding for groins).

Federal	State	Local	Total
\$0	\$792,850	\$792,850	\$1,585,700

NAME OF PROJECT: Jupiter/Carlin Segment – Palm Beach County Shore Protection Project

LOCAL SPONSOR: Palm Beach County

LOCAL CONTACT: Michael Stahl **PHONE:** (561) 233-2433

PROJECT DESCRIPTION:

The Jupiter/Carlin Beach Nourishment project includes approximately 1.1 miles of shoreline between DEP Monuments R13 – R19 in Palm Beach County. The federally authorized project was restored in 1995 and nourished in 2002. The project receives routine bypass material from Jupiter Inlet. A federal Section 934 Report, required for continued federal cost sharing, is ongoing. A dune restoration project was completed in January 2013 in response to Hurricane Sandy. The federal storm repair project was completed by the Corps in April 2015 and was combined with sand bypassing from the Jupiter Inlet District and a local-option truck haul project from Palm Beach County. Design efforts are ongoing for the next nourishment. Staff has determined that 100 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Design.

Federal	State	Local	Total
\$0	\$160,000	\$160,000	\$320,000

NAME OF PROJECT: Treasure Island Segment – Pinellas County Shore Protection Project

LOCAL SPONSOR: Pinellas County

LOCAL CONTACT: John Bishop **PHONE:** (727) 464-8766

PROJECT DESCRIPTION:

The Pinellas County Shore Protection project consists of nourishment of approximately 1.4 miles of shoreline between DEP Monuments R126 – R128.2 and R136 – R141.4 on Treasure Island in Pinellas County. The federal project was initially constructed in 1969. Nourishment has occurred every three to five years to address localized erosion at the north and south ends of the island. Nourishment of the north and south ends of the island was completed in 2014. The next nourishment is scheduled for FY 2017-18. Staff has determined that 100 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Construction and first year monitoring.

Federal	State	Local	Total
\$6,960,000	\$2,530,000	\$2,530,000	\$12,020,000

NAME OF PROJECT: Central Boca Raton Beach Nourishment

LOCAL SPONSOR: City of Boca Raton

LOCAL CONTACT: Jennifer Bistyga **PHONE:** (561) 416-3397

PROJECT DESCRIPTION:

The Central Boca Raton Beach Nourishment project includes 1.5 miles of shoreline between DEP Monuments R216 – R222.9 in Palm Beach County. Restoration was completed in 2004, with a nourishment in 2006 following storm impacts. Construction of the first design interval nourishment commenced in March 2016. The project was not completed prior to the 2016 turtle nesting season, so dredging will resume in winter 2016-17. Staff has determined that 83.18 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Design (reimbursement), construction (partial funding for nourishment) and first year monitoring.

Federal	State	Local	Total
\$0	\$3,202,180	\$4,364,407	\$7,566,587

NAME OF PROJECT: South Siesta Key Beach Nourishment

LOCAL SPONSOR: Sarasota County

LOCAL CONTACT: Laird Wreford **PHONE:** (941) 809-7491

PROJECT DESCRIPTION:

The South Siesta Key Beach Nourishment project consists of 1.9 miles of shoreline along South Siesta Key between DEP Monuments R67 – R77 in Sarasota County. Restoration was completed in 2007 with the first periodic nourishment completed in 2016. Staff has determined that 41.31 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Construction (partial funding for 2016 nourishment) and first year monitoring.

Federal	State	Local	Total
\$0	\$5,950,956	\$8,454,650	\$14,405,606

NAME OF PROJECT: Bonita Beach Nourishment

LOCAL SPONSOR: Lee County

LOCAL CONTACT: Stephen Boutelle **PHONE:** (239) 533-8128

PROJECT DESCRIPTION:

The Bonita Beach Nourishment project consists of approximately 0.8 mile of shoreline between DEP Monuments R226 – R230 in Lee County. Restoration was completed in 1995 with nourishment in 2004 and 2014. Staff has determined that 74 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Construction (reimbursement).

Federal	State	Local	Total
\$0	\$175,239	\$298,381	\$473,620

NAME OF PROJECT: South Boca Raton Beach Nourishment

LOCAL SPONSOR: City of Boca Raton

LOCAL CONTACT: Jennifer Bistyga **PHONE:** (561) 416-3397

PROJECT DESCRIPTION:

The South Boca Raton Beach Nourishment project includes approximately 1.0 mile of shoreline between DEP Monuments R223.3 – R227.9 in Palm Beach County. Restoration was completed in 1985 with nourishment in 1996, 2002 and 2010. The project area also receives bypass material from maintenance dredging of the Boca Raton Inlet conducted annually by the City of Boca Raton's dredge. Nourishment was completed in FY 2013-14. Staff has determined that 97.8 percent of the project is eligible but the application requests 99.22 percent.

FUNDS WILL BE USED FOR:

Design (permit) and construction (reimbursement for 2013 nourishment).

Federal	State	Local	Total
\$0	\$824,915	\$837,885	\$1,662,800

NAME OF PROJECT: Mid-Town Beach Nourishment

LOCAL SPONSOR: Town of Palm Beach

LOCAL CONTACT: Robert Weber **PHONE:** (561) 383-5440

PROJECT DESCRIPTION:

The Mid-Town Beach Nourishment project includes 2.8 miles of shoreline between DEP Monuments R89 – R102 in Palm Beach County. Restoration was completed in 1995 from DEP Monuments R95 – R100. The project included construction of 11 groins which were completed in 1996. In 2003, nourishment was completed in an expanded shoreline length between DEP Monuments R90.4 – R101.4. The project was nourished using FEMA funds in 2006 in response to the FY 2004-05 hurricane seasons and again in FY 2010-11 to repair damages sustained during Tropical Storm Fay. The subsequent nourishment was completed in 2015, extending the project tapers on either end. Staff has estimated that 92 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Construction (reimbursement for 2015 nourishment).

Federal	State	Local	Total
\$0	\$7,820,000	\$9,180,000	\$17,000,000

NAME OF PROJECT: Juno Beach Nourishment

LOCAL SPONSOR: Palm Beach County

LOCAL CONTACT: Michael Stahl **PHONE:** (561) 233-2433

PROJECT DESCRIPTION:

The Juno Beach Nourishment project includes approximately 2.4 miles of critically eroding shoreline beginning 2.2 miles downdrift of Jupiter Inlet (DEP Monuments R26 – R38). The original project was completed in 2001 and impacted by the hurricanes of 2004 and 2005 and by Tropical Storm Fay in 2008. The first nourishment of this beach was completed in March 2010. Due to a presence of rock in the permitted borrow area, alternative sand sources are being evaluated for the next nourishment. In 2009, the 0.75-acre Juno mitigation reef was constructed of limestone rock pods on concrete reef modules. Design is ongoing and nourishment is scheduled for FY 2018-19. The Local Sponsor is also pursuing federal authorization and a Limited Re-evaluation Report will be completed for this purpose. Staff has determined that the project is 100 percent eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Design (Limited Re-evaluation Report and preconstruction monitoring).

Federal	State	Local	Total
\$50,000	\$150,000	\$150,000	\$350,000

NAME OF PROJECT: Jupiter Island Beach Nourishment

LOCAL SPONSOR: Town of Jupiter Island

LOCAL CONTACT: John Duchock **PHONE:** (772) 545-0100

PROJECT DESCRIPTION:

The Jupiter Island Beach Nourishment project consists of nourishment of approximately 6.1 miles of shoreline between DEP Monuments R75 – R111 in Martin County. Restoration was completed in 1973 –1974. Nourishments are completed on a 3 to 4-year cycle. The last nourishment was completed in 2016. Staff has determined that 34.08 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Design (permit renewal).

Federal	State	Local	Total
\$0	\$39,192	\$190,808	\$230,000

NAME OF PROJECT: Phipps Ocean Park Beach Nourishment

LOCAL SPONSOR: Town of Palm Beach

LOCAL CONTACT: Robert Weber **PHONE:** (561) 838-5440

PROJECT DESCRIPTION:

The Phipps Ocean Park Beach Nourishment project includes 1.4 miles of shoreline located between DEP Monuments R118.7 – R126 in Palm Beach County. In 2004, a 3.1-acre mitigation reef was constructed to compensate for impacts to hardbottom resources in advance of the 2006 restoration. FEMA dune nourishment was completed in 2011 to repair damages sustained during Tropical Storm Fay. An interim dune nourishment was completed in 2015 in coordination with the Mid-Town project. A full nourishment was completed in winter 2016, with an expansion of the project limits. Staff has estimated that 78 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Construction (reimbursement).

Federal	State	Local	Total
\$0	\$7,410,000	\$11,590,000	\$19,000,000

NAME OF PROJECT: South Ponte Vedra/Vilano/Summer Haven Federal Feasibility Study

LOCAL SPONSOR: St. Johns County

LOCAL CONTACT: Greg Caldwell **PHONE:** (904) 209-0132

PROJECT DESCRIPTION:

The South Ponte Vedra/Vilano/Summer Haven Beach Restoration project consists of approximately 5.9 miles of shoreline in three segments within St. Johns County: South Ponte Vedra (DEP Monuments R84 – R94), Vilano Beach (DEP Monuments R109 – R117) and Summer Haven (DEP Monuments R197 – R209). A federal feasibility study was initiated in 2005 and the analysis is ongoing. Staff has determined that 100 percent of the project is eligible for state cost sharing for feasibility.

FUNDS WILL BE USED FOR:

Feasibility Study.

Federal	State	Local	Total
\$1,125,000	\$255,088	\$255,088	\$1,635,176

NAME OF PROJECT: Perdido Key Beach Restoration

LOCAL SPONSOR: Escambia County

LOCAL CONTACT: Tim Day **PHONE:** (850) 595-1144

PROJECT DESCRIPTION:

The Perdido Key Beach Restoration project consist of approximately 3.0 miles of shoreline between DEP Monuments R19 – R34 in Escambia County. Beach and dune restoration was originally proposed for a 3.0-mile beach segment between DEP Monuments R19 – R34, with a protective berm construction proposed from R12.5 – R19 and dune restoration proposed for 2.4 miles between R01 – R12.5. Construction is scheduled for FY 2017-18 to include only the beach and dune segment between DEP Monuments R19 – R34. Staff has determined that 66.1 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Design, Construction and First Year Monitoring.

Federal	State	Local	Total
\$0	\$4,204,819	\$8,517,781	\$12,722,600

NAME OF PROJECT: Key Biscayne Beach Nourishment

LOCAL SPONSOR: Village of Key Biscayne

LOCAL CONTACT: John Gilbert **PHONE:** (305) 365-5514

PROJECT DESCRIPTION:

The Key Biscayne Beach project consists of nourishment of approximately 1.2 miles of shoreline between DEP Monuments R101 – R108 in Miami-Dade County. Restoration was completed in 1987 with nourishment following in 2002. A second nourishment was completed in 2012. The next nourishment is planned for FY 2017-18. Staff has estimated that 100 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Design.

Federal	State	Local	Total
\$0	\$55,000	\$55,000	\$110,000

NAME OF PROJECT: Coral Cove Park Dune Nourishment

LOCAL SPONSOR: Palm Beach County

LOCAL CONTACT: Michael Stahl **PHONE:** (561) 233-2433

PROJECT DESCRIPTION:

The Coral Cove Dune Nourishment project is located between DEP Monuments R5 – R7.6 in Palm Beach County. The initial dune restoration was completed in 1993 using sand from an upland sand source. Dune repair and vegetation projects were completed in 2005 and 2013 to address storm impacts. A subsequent nourishment to fill the dune template was completed in 2014. Staff has determined the project is 100 percent eligible for cost sharing.

FUNDS WILL BE USED FOR:

Construction (2014 and 2017 nourishments).

Federal	State	Local	Total
\$0	\$825,000	\$825,000	\$1,650,000

NAME OF PROJECT: South Jupiter Feasibility Study

LOCAL SPONSOR: Palm Beach County

LOCAL CONTACT: Michael Stahl **PHONE:** (561) 233-2433

PROJECT DESCRIPTION:

The South Jupiter Beach Feasibility Study project consists of a study to evaluate alternatives for beach restoration along 1.45 miles of critically eroded shoreline between DEP Monuments R19 – R26 in Palm Beach County. In 2016, a dune restoration was conducted to provide storm protection to A1A/Ocean Boulevard and existing dune crossovers. Palm Beach County is looking to incorporate the Jupiter/Carlin, South Jupiter and Juno Beach projects into a single fill template to reduce project construction costs and increase project performance of all three segments. Staff has determined that the project segment is 100 percent eligible for state funding.

FUNDS WILL BE USED FOR:

Feasibility study.

Federal	State	Local	Total
\$0	\$100,000	\$100,000	\$200,000

NAME OF PROJECT: Southern Palm Beach Island Beach Restoration

LOCAL SPONSOR: Palm Beach County

LOCAL CONTACT: Michael Stahl **PHONE:** (561) 233-2433

PROJECT DESCRIPTION:

The Southern Palm Beach Island Restoration project consists of feasibility analysis and design of a beach restoration project along 0.68 miles of critically eroded beach between DEP Monuments R134+135 – R137+401 in Palm Beach County. Dune maintenance projects were conducted in 2007 and 2009. Several alternatives have been explored including beach nourishment and the use of erosion control structures. An Environmental Impact Statement (EIS) is in progress to evaluate future erosion control alternatives. Staff has determined that the project segment is 100 percent eligible for state funding for the feasibility phase.

FUNDS WILL BE USED FOR:

Feasibility (EIS) and design.

Federal	State	Local	Total
\$0	\$173,672	\$173,672	\$347,344

NAME OF PROJECT: Mexico Beach Restoration

LOCAL SPONSOR: City of Mexico Beach

LOCAL CONTACT: Kimberly Shoaf **PHONE:** (850) 648-8196

PROJECT DESCRIPTION:

The Mexico Beach Restoration project includes nourishment and restoration along a 0.9-mile segment of critically eroded beach between DEP Monuments R123 – R137.8 in Bay County. A feasibility study sponsored by DEP and the City of Mexico Beach was conducted in 2008, recommending an increase in the sand bypassing at Mexico Beach Inlet, construction of a beach restoration project and modification to the bypassing protocol to place material further from the inlet in critically eroded areas via truck haul. Staff has estimated that 100 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Design and construction (nourishment).

Federal	State	Local	Total
\$0	\$183,680	\$226,320	\$410,000

NAME OF PROJECT: Vero Beach Feasibility Study

LOCAL SPONSOR: Indian River County

LOCAL CONTACT: James Gray **PHONE:** (772) 226-1344

PROJECT DESCRIPTION:

The Vero Beach Feasibility Study project consists of a non-federal feasibility study for the restoration of 16,250 feet (2.7 miles) of shoreline between DEP Monuments R70 – R86 in Indian River County.

FUNDS WILL BE USED FOR:

Feasibility (EIS) and design.

Federal	State	Local	Total
\$0	\$337,500	\$337,500	\$675,000

NAME OF PROJECT: Charlotte County Beach Restoration

LOCAL SPONSOR: Charlotte County

LOCAL CONTACT: Matt Logan **PHONE:** (941) 575-3610

PROJECT DESCRIPTION:

The Charlotte County Beach Nourishment project consists of nourishment of 2.3 miles of shoreline between DEP Monuments R28 – R40.5, restoration of 2.3 miles of shoreline between R9 – R21.2 and feasibility investigations for DEP Monuments R1 – R9 in Charlotte County. Restoration of the southern segment was completed in 2003. The first nourishment was completed in 2006. Nourishment was completed in 2011, using FEMA funds received to repair damages sustained during Tropical Storm Faye. A feasibility study for the stabilization of the south end of Manasota Key/Stump Pass Beach State Park is complete, with restoration of the northern segment planned for FY 2016-17. A feasibility analysis for the north segment of Charlotte County from DEP Monuments R1 – R9 is proposed for FY 2017-18. Staff has estimated that 78 percent of the project is eligible for state cost sharing.

FUNDS WILL BE USED FOR:

Feasibility.

Federal	State	Local	Total
\$0	\$216,450	\$338,550	\$555,000

NAME OF PROJECT: Singer Island Dune Nourishment

LOCAL SPONSOR: Palm Beach County

LOCAL CONTACT: Michael Stahl **PHONE:** (561) 233-2433

PROJECT DESCRIPTION:

The Singer Island Dune Nourishment project consists of a nourishment and maintenance of 1.3 miles of dunes on Singer Island (DEP Monuments R60.5 – R67) in Palm Beach County. In 2012, Palm Beach County withdrew a permit application for breakwaters as an erosion control alternative due to permitting constraints. In an effort to maintain turtle nesting habitat, the County has conducted three dune nourishments since 2012. Staff has determined the project is 79.89 percent eligible for cost sharing.

FUNDS WILL BE USED FOR:

Construction (dune nourishment).

Federal	State	Local	Total
\$0	\$599,175	\$900,825	\$1,500,000

NAME OF PROJECT: Regional Monitoring

LOCAL SPONSOR: Florida Department of Environmental Protection

LOCAL CONTACT: Gene Chalecki **PHONE:** (850) 245-7652

PROJECT DESCRIPTION:

The Regional Data Collection and Processing Program is designed to address statewide coastal erosion and change analysis and outlines the minimum data collection efforts necessary to accomplish the program goals. It includes a combination of in-house and contracted work efforts that provide for complete statewide coverage of the program jurisdictional areas on an 8-year cycle. The data collection cycle includes the acquisition and development of:

- Aerial photography;
- Aerial oblique photography for reconnaissance and emergency response;
- Conventional topographic and bathymetric surveys;
- Laser remote sensing technologies including topographic and bathymetric data (LIDAR); and
- Computer-based stereo photo modeling.

These data are used to support all aspects of the statewide beach management and coastal permitting programs, including the planning and design of beach restoration and nourishment, post-hurricane response and recovery activities and the development of the critically eroded beaches inventory. The collection and analysis of the data is coordinated with other statewide initiatives including the annual aerial digital photo acquisition initiative, Corps Regional Sediment Management efforts and local government project sponsors to increase cost efficiency and avoid duplication of efforts.

FUNDS WILL BE USED FOR:

Monitoring.

Federal	State	Local	Total
\$0	\$250,000	\$0	\$250,000

NAME OF PROJECT: Port Everglades IMP Implementation

LOCAL SPONSOR: Broward County

LOCAL CONTACT: Nicole Sharp **PHONE:** (954) 519-1231

PROJECT DESCRIPTION:

Port Everglades Inlet (also known as the Port Everglades Entrance) is a federally maintained navigation channel and the entrance to Port Everglades located between DEP Monuments R85 – R86 in Broward County. DEP adopted the Port Everglades Inlet Management Study Implementation Plan in May 1999. The plan established an annualized bypassing objective of 44,000 cubic yards. In 2002, design of a spur groin attached to the south jetty and two groins located on the shore south the inlet was completed as recommended in the adopted IMP. Construction was completed as part of the 2006 Broward County Shore Protection Project – Segment III. Design efforts to remove rock spoil north of the inlet and create a sand trap to initiate a bypassing protocol are ongoing. Construction is planned for FY 2017-18.

FUNDS WILL BE USED FOR:

Construction (sand trap and year one post construction monitoring).

Federal	State	Local	Total
\$0	\$19,162,500	\$6,387,500	\$25,550,000

NAME OF PROJECT: East Pass Inlet Management Study

LOCAL SPONSOR: Okaloosa County

LOCAL CONTACT: Jim Trifilio **PHONE:** (850) 651-7131

PROJECT DESCRIPTION:

East Pass is located at DEP Monument R17 in Okaloosa County. DEP adopted an IMP in 2000 and a revised IMP in 2013. One of the implementation strategies of the revised plan is the stabilization of Norriego Point to reduce the future emergency fill requirements, allowing the Corps to place a greater volume of material from channel onto adjacent beaches. Stabilization of Norriego Point is scheduled to being in Spring 2017. The proposed study will investigate feasibility of designing a sand trap outside the federal navigation channels for additional bypassing.

FUNDS WILL BE USED FOR:

Feasibility (sand trap).

Federal	State	Local	Total
\$0	\$262,500	\$87,500	\$350,000

NAME OF PROJECT: Ft. Pierce IMP Implementation

LOCAL SPONSOR: St. Lucie County

LOCAL CONTACT: Richard Bouchard **PHONE:** (772) 462-1710

PROJECT DESCRIPTION:

The Ft. Pierce Inlet is a federally authorized and maintained inlet. The Ft. Pierce IMP was adopted in 1997. A draft feasibility study to evaluate sand bypassing alternatives was completed in 2003. A 2009 design study, using additional data and computer modeling, recommended construction of a sand trap inside the inlet. The recommendation was approved by DEP and a Joint Coastal Permit was issued in May 2016, allowing for construction of the sand trap in phases. Additional analysis of the sediment budget, sediment transport pathways and rates of transport in the vicinity of the inlet is underway to support inlet management, sand bypassing activities and subsequent sand trap construction.

FUNDS WILL BE USED FOR:

Construction (sand trap).

Federal	State	Local	Total
\$0	\$2,497,500	\$832,500	\$3,330,000

NAME OF PROJECT: Boca Raton IMP Implementation

LOCAL SPONSOR: City of Boca Raton

LOCAL CONTACT: Jennifer Bistyga **PHONE:** (561) 416-3397

PROJECT DESCRIPTION:

Boca Raton Inlet is located at DEP Monument R223 in Palm Beach County. The Boca Raton IMP was adopted in 1997. The plan established a bypassing objective of 71,300 cubic yards annually. In 2004, the bypassing objective was revised and increased to 83,000 cubic yards. The weir on the north jetty was extended 50 feet seaward to allow for the creation of a wider beach in conjunction with nourishment north of the inlet in 2004. In 2008, the wooden crib structure of the north jetty was rehabilitated with quarried rock. Bypassing activities occur annually using a City-owned dredge that bypasses sand to a fixed outfall located on the beach south of the inlet.

FUNDS WILL BE USED FOR:

Construction (bypassing).

Federal	State	Local	Total
\$0	\$150,000	\$50,000	\$200,000

NAME OF PROJECT: St. Augustine IMP Implementation

LOCAL SPONSOR: St. Johns County

LOCAL CONTACT: Greg Caldwell **PHONE:** (904) 209-0132

PROJECT DESCRIPTION:

St. Augustine Inlet is located between DEP reference monuments R122 – R123 in St. Johns County. The north jetty was constructed in 1941 with the south jetty following in 1957. Dredge material was historically placed offshore until 1996 when disposal was first placed on downdrift beaches. The St. Augustine Inlet Management Study Implementation Plan was approved for adoption in 1998, with an update adopted in 2014. The update plan redefined the area of inlet influence to include DEP Monuments R83 – R151 inclusive with a bypass objective that identifies placement both north and south of the inlet. Design of an inlet bypassing project with placement to the north in South Ponte Vedra and Vilano is proposed for FY 2017-18.

FUNDS WILL BE USED FOR:

Design.

Federal	State	Local	Total
\$0	\$225,000	\$75,000	\$300,000

NAME OF PROJECT: Big Carlos Pass Inlet Management Study

LOCAL SPONSOR: West Coast Inland Navigation District

LOCAL CONTACT: Justin McBride **PHONE:** (941) 485-9402

PROJECT DESCRIPTION:

The Big Carlos Pass IMP project proposes to develop an inlet management study for Big Carlos Pass located between DEP Monuments R210 – R211 between Estero Island to the north and Lovers Key to the south in Lee County. The ebb shoal of Big Carlos Pass has been previously authorized for dredging as a sand source for Lovers Key and Bonita Beach. The study will include inlet morphology modeling and evaluation of inlet channel sustainability, sediment budget analysis and inlet management strategies.

FUNDS WILL BE USED FOR:

Feasibility (inlet management study).

Federal	State	Local	Total
\$0	\$55,500	\$18,500	\$74,000

NAME OF PROJECT: Estero Bay Inlet Management Study

LOCAL SPONSOR: Lee County

LOCAL CONTACT: Stephen Boutelle **PHONE:** (239) 533-8128

PROJECT DESCRIPTION:

The primary focus of this regional inlet management study will be to develop sediment budgets for three inlets within Lee County: Big Carlos Pass, New Pass and Big Hickory Pass, which are located between DEP Monuments R209 – R227. The study will also evaluate potential strategies for inlet sediment management which will result in balancing the sediment budget between the inlets and adjacent beaches.

FUNDS WILL BE USED FOR:

Feasibility (inlet management study).

Federal	State	Local	Total
\$0	\$158,473	\$52,825	\$211,298