



# Florida Department of Environmental Protection

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Tallahassee, Florida 32399-3000

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

May 18, 2011

SUBJECT: Florida's Beach Management Program FY2012/13 Funding Requests

The Bureau of Beaches and Coastal Systems is developing the FY2012/13 prioritized list of beach erosion control projects. The culmination of this process is the preparation and submittal of the Department's Fixed Capital Outlay, Local Government Funding Request (LGFR) that contains funding priorities for FY2012/13 and the Florida Beach Management Program Long-Range Budget Plan (LRBP) for FY2012/2022. Copies of the FY2011/12 LGFR and the FY2011/21 LRBP, as well as maps of Florida's critically eroded shorelines, are available on the Bureau's webpage at [www.dep.state.fl.us/beaches/](http://www.dep.state.fl.us/beaches/).

In accordance with Chapter 62B-36, Florida Administrative Code (also available on our webpage), local sponsors are required to submit separate, detailed project descriptions and cost estimates for each project eligible to receive state funding. The project descriptions shall contain sufficient information to apply the project ranking criteria, including maps depicting the project boundary, public beach access and parking, existing land uses, and detailed cost estimates to support the funding request. A **current** resolution from the governing body indicating support of the proposed project and ability to provide the necessary local match must accompany the funding request. To complete the LRBP, provide five years of anticipated cost estimates followed by the next five years of anticipated project phases. Since new legislation amending Chapter 161, F.S., was adopted in 2008, separate priority lists will be created for inlet management projects and beach erosion control projects.

In order to meet our schedule for submission of the FY2012/13 LGFR, **all submittals must be received in this office by July 18, 2011.** To assist in your preparation, enclosed is a sample submittal which contains the level of detail needed to fully evaluate a proposed project for funding consideration. **All applications must be submitted in this format to be eligible for processing.** An electronic version of the blank submittal document is available on our webpage. Also enclosed is a checklist of the application submission requirements, to ensure that your submittal package is complete. If you have any questions please contact Alex Reed, project manager supervisor, at (850)922-7857.

Sincerely,

Paden E. Woodruff, III  
Environmental Administrator  
Bureau of Beaches and Coastal Systems

## FY2012-13 Local Government Funding Request Checklist

Project Name: \_\_\_\_\_

\_\_\_ Project Description (*History of the project outlining activities for funds requested.*)

Project Map(s) depicting:

\_\_\_ Project Boundary (*Have boundaries changed?; Entire area critically eroded?*)

\_\_\_ Public Beach Access and Parking (*Are boundaries of accesses shown?; Number of parking spaces at each location?; Restrooms?*)

\_\_\_ Public Lodging Establishments (*Names of establishments?; Boundaries?; Percent available?*)

\_\_\_ Land Use: Commercial and Recreation/Open Space (*Percent zoned commercial or recreational?*)

\_\_\_ Public Lodging License Documentation (*Current?; Hotel, motel, resort condo?; Number of units?; Fronting the sand beach?*)

Current Resolution stating: (*Resolution for the fiscal year which funds are requested*)

\_\_\_ Support of proposed project

\_\_\_ Willingness to serve as local sponsor

\_\_\_ Ability to provide local cost share

\_\_\_ Project Schedule (*Including specific time frames for milestones with each phase.*)

\_\_\_ Annual Project Cost Estimates (*Sufficient supporting detail of project phases.*)

\_\_\_ 10 year Long Range Budget Plan (*Updated costs and schedules.; Submit for each project including future projects.*)

Supporting Ranking Data describing:

\_\_\_ Erosion rates (*Averaged over a 30 year period*)

\_\_\_ Threat to upland properties (*Percent of developed property seaward of the 25 year return interval storm event*)

\_\_\_ Recreation and economic benefits (*Percentage of linear footage within the project boundaries zoned commercial or recreational based on current land use maps*)

\_\_\_ Federal authorization documentation (*Congressional authorization?; Project cooperation agreement?; Federal cost share?*)

\_\_\_ Local funding source(s) (*Long term dedicated funding sources?*)

\_\_\_ Administrative staff capabilities (*Local dedicated staff?*)

\_\_\_ Reporting Compliance (*75% or better compliance record?*)

\_\_\_ Prior Program funding? (*Funding for feasibility or design?*)

\_\_\_ Project enhancements (*Proposed work to enhance performance?*)

\_\_\_ Nourishment interval (*Projected performance or actual nourishment interval? Consistent with 10 year plan?*)

\_\_\_ Sediment bypassing quantities (*Percent of bypass quantities defined in SBMP?*)

\_\_\_ Innovative application of existing technologies (*Economically competitive and environmentally sensitive?*)

\_\_\_ Use of new technology (*Previously tried in Florida?*)

\_\_\_ Designated sea turtle refuge (*Adjacent or within?*)

\_\_\_ Regional coordination (*Two or more separate eligible governmental entities?*)

## FY 2012-13 Local Government Funding Request

**Project Name (Same as previous phase):** Paradise Island Beach Restoration Project

**Project Description: (Should be consistent year to year with annual updates. Include county, location with reference to range monuments, brief project history and upcoming beach activities.)** The project consists of the restoration and nourishment of 3.4 miles (17,950 ft) of critically eroded Gulf shoreline located on Paradise Island, Sunshine County, (R1 - R18). Initial restoration of the project area began in 1994 with the construction of the northern 2.8 miles (14,780 ft). The remainder of the project length was completed in 1996 (3,170 ft) with subsequent nourishment occurring in 2004. The next nourishment is scheduled for FY2013/14 and will encompass the entire 3.4 mile project length. The project is part of the Federal Sunshine County Shore Protection Project.

The borrow source for the project, SU-5, is located approximately eight miles from the project site. Although this borrow source contains sufficient material for the next two nourishment cycles, a reconnaissance level geotechnical study has identified a potential new borrow source SU-9 located within two miles of the project area. To reduce costs, the U.S. Army Corps of Engineers (Corps) has expressed an interest in the development and use of this potential borrow source. Cost savings will be accomplished through the use of a hydraulic dredge and with scheduling of construction activities with nearby projects which utilize similar dredging equipment.

**Use of Requested Program Funds:** Funds requested for FY2012/13 will be used to support design and permitting for the FY 2013/14 nourishment. The County is responsible for all permitting activities related to the upcoming nourishment, but the Corps will conduct the design elements including the preparation of plans and specifications. Funds are also requested in the feasibility category to conduct geotechnical investigations for borrow area SU-9. Design and permitting tasks are being coordinated with Nirvana City in neighboring Ocean County for a regionalized construction project to reduce costs.

## **Local Government Support**

Does this sponsor have dedicated support staff whose sole priority is to manage beach erosion control activities? Yes

<b>Name</b>	<b>Title</b>	<b>Email</b>	<b>Percent Commitment</b>
Mr. John Doe	Coastal Engineer	johndoe@beaches.gov	100%
<b>Address 1:</b>	111 Beaches Drive	<b>Phone:</b>	850-555-1234
<b>Address 2:</b>	Paradise, FL 10000	<b>Fax:</b>	850-867-5309

### **Quarterly Report Compliance:**

2009-2010	End Date	Report Sent	Compliant
Qtr 1 (Sept)	10/31/2009	10/28/2010	Yes
Qtr 2 (Dec)	1/31/2010	1/25/2011	Yes
Qtr 3 (Mar)	4/30/2010	5/5/2011	No
Qtr4 (June)	7/31/2010	7/20/2011	Yes

**How will revenue for the local funding cost share be established?** Local funding for the project will be obtained from a combination of special property assessments and the Sunshine County Tourist Development Council.

**Is the funding from a dedicated long term source for this project?** Yes

An ordinance establishing the Tourist Development Tax is attached dedicating 50% of tourist tax collected to beach erosion control activities. The Tourist Development tax referendum was approved by the citizens and Commission of Paradise Island.

**In order to acquire funding, a resolution from the local governmental entity must be provided by the application deadline which declares:**

- **Support from the sponsor for the proposed project**
- **Willingness to serve as the local sponsor**
- **Ability to provide the full local cost share**
- **Funding source**

**Has the local sponsor resolution been attached to the application fulfilling all of these requirements?** Yes

**Has the State cost-shared in a feasibility or design phase of this project?**

The Department previously entered into a cost-share agreement for funding of the initial restoration in 1994/96 and subsequent nourishment in 2004. The project is recommended in the Strategic Beach Management Plan and located in an area that has been designated as critically eroded shoreline by the Department.

**Previous State Cost Share Percentage:**

50%

**10-Year Project Schedule and 5-Year Estimated Budget**

**Does this project have Congressional Authorization?** Yes  
 Attached is a copy of Water Resources Development Act of 1996 citing the Paradise Island Project.

**Does this project have a Federal Project Cooperative Agreement?** Yes  
 Attached is a copy of Project Cooperative Agreement

**What is the end date of the Federal Authorization?** 2041

**What is the Federal cost share available for this erosion control project?** 50 %

**Schedule and Budget (Include estimated phases for 10 years and estimated project costs for 5 years.): Use only tasks Feasibility, Design, Construction and Monitoring**

Year	Proposed Method	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
2012/ 2013	Feasibility	Sand Search Inv.	\$ 255,000	127,500	63,750	63,750
	Design	JCP/Corps	674,000	337,000	168,500	168,500
2013/ 2014	Construction	Nourishment	5,985,000	2,992,500	1,496,250	1,496,250
2014/ 2015	Monitoring	Phys, Turtle, Seagrass	93,000	46,500	23,250	23,250
	Construction	Mitigation Reef	750,000	375,000	182,500	182,500
2015/ 2016	Monitoring	Phys, Turtle,	97,000	48,500	24,250	24,250
2016/ 2017	Monitoring	Phys, Turtle,	102,000	51,000	25,500	25,500
2017/ 2018						
2018/ 2019	Monitoring	Phys.				
2019/ 2020						
2020/ 2021	Feasibility	Sand Search Inv.				
	Design	JCP/Corps				
2021/ 2022	Construction	Nourishment				

**Mapping- Maps are provided as attachments.**

Maps should be to scale at a minimum of 1"=200'

Mapping elements include:

- Project Boundary with critically eroded shoreline
- Range monuments
- Beach access and parking- primary and secondary, including access widths.
- Public lodging establishments- locations and length of property boundaries along project Shoreline.
- Local Comprehensive Plan designations of commercial and recreational facilities and associated property boundaries along the project shoreline.

**What is the length of the project boundary in feet?**

17,950 ft

**What is the length of commercial or recreational property fronting the project shoreline?**

5,200 ft

**What is the percentage of project shoreline designated as commercial or recreational property?**

28.97 %

**Current contract eligibility or proposed new eligibility**

100%

**Eligibility: Access Points and Public Lodging Establishments:**

Location/Name	Address	R-Mon	Type of Access	Width of Access/ Frontage	Total units or parking spaces	Public Parking Spaces	Eligible shoreline (ft)
1 <sup>st</sup> Street Lot	-	R-1- R-7	Primary	2,000	120	110	7,280
8th Street Lot	-	R-7	Secondary	30	20	20	1,086
5340 Main St.	-	R-8	Secondary	50	76	50	2,690
Downtown Pier	100 Gulf St	R-8- R-17	Primary	4,200	1200	1200	9,480
Pelican Motel	102 Gulf	17.5	Motel	600	112	112	600
Breeze Resort	104 Gulf	18	Resort	1000	400	200	500

**Additional Ranking Criteria**

**Will this project enhance or increase the longevity of a previously constructed project? How?**

Yes

Project will include a feasibility study to determine the effectiveness of other innovative structural alternatives to address erosion at hotspot locations.

**Will this project nourish a previously restored shoreline?**

Yes

**What is the Rate of Erosion as determined by the Bureau? (ft/yr)**

1.7

**Severity of Erosion:** Approximately 9,865 feet of shoreline within the project area has been developed with habitable structures. Throughout this area, approximately 2,150 feet is armored with shore protection structures. An additional 1,120 feet of shoreline that directly fronts a hurricane evacuation route has a revetment to protect the roadway (see attached map depicting shore protection structures). The Bureau's Coastal Engineering Section has calculated the erosion rate of 1.7 ft/yr for this project.

**Project Benefits:** Public beach access within the project area consists of two primary parks and two street ends that total approximately 6,335 feet of shoreline. An additional 2,150 feet of shoreline is zoned commercial and used for tourist related purposes. The attached map identifies public beach access points with associated parking spaces, hotels, restaurants and other commercial facilities within the project area. Threatened and endangered marine turtles utilize the entire project area for nesting purposes; however, it is not located within a designated marine turtle refuge.

**Use of Innovative Applications of Existing Technologies:** The project was initially constructed using conventional beach fill activities, and it is anticipated that subsequent nourishment will utilize similar technology. The results of an innovative structural alternative analysis, intended to enhance project performance in hotspot locations may potentially extend the nourishment interval.

**Nourishment Interval (years):**

8

**Project Performance:** The project feasibility study completed in 1989 estimated a nourishment cycle of seven years. Thus far the project performance has exceeded the anticipated maintenance interval. Based on project monitoring, the actual nourishment interval has been extended to eight years.

**Is this project being planned or constructed in cooperation with another local government? Explain.**

Yes

The Town of Paradise Beach plans to bid the next nourishment event in conjunction with the Nirvana City in 2011/2012. Cooperative Design and Permitting efforts started last year.

Town of Paradise Island  
Public Works Department  
111 Beaches Dr.  
Paradise, FL 1000

Resort Condominium Name: Pelican Motel  
Resort Address: 102 Gulf Drive  
Paradise Is., Florida 10000  
DBPR License Number: PR1P00935

The referenced motel has a total of 112 units, of which 112 are available to the public on a rental basis. Therefore, a total of 100 percent of the motel is available on a rental basis.

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Jane Doe  
Public Works Administrator

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Date

The above information was verbally provided by Jan Public on July, 2009.

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Town of Paradise Island  
Public Works Department  
111 Beaches Dr.  
Paradise, FL 1000

Resort Condominium Name: Breeze Resort  
Resort Address: 104 Gulf Drive  
Paradise Is., Florida 10000  
DBPR License Number: PR1P00936

The referenced resort condominium has a total of 400 units, of which 200 are available to the public on a rental basis. Therefore, a total of 50 percent of the condominium is available on a rental basis.

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Jane Doe  
Public Works Administrator

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Date

The above information was verbally provided by John Public on July, 2009.