



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2023/2024
Beach Projects Application

PART I: GENERAL INFORMATION

Local Sponsor	Brevard County		
Federal ID Number (FEID)	59-6000523		
Primary Contact Name	Mike McGarry	Title	Program Manager, Beaches
Mailing Address Line 1	2725 Judge Jamieson Way		
Mailing Address Line 2	Natural Resources A-219		
City	Viera	Zip Code	32940
Telephone Number	321-372-5194		
Email Address	Mike.Mcgarry@brevardfl.gov		

Additional Contact Information

Please Cc: Paula Berntson (Paula.Berntson@brevardfl.gov) and Leslie Snyder (Leslie.Snyder@brevardfl.gov) on email communications.

PART II: CERTIFICATION

I hereby certify that all information provided with this application is true and complete to the best of my knowledge.

Signature of Local Sponsor

Electronic or scanned signatures accepted.

Printed Name

Mike McGarry

Date



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2023/2024
Beach Projects Application

PART III: EVALUATION CRITERIA

1. Project Name: (as listed in the Strategic Beach Management Plan)

Brevard South Beaches (South Brevard County)

2. Project Description: Include county, location with reference to DEP range monuments, brief project history, and description of proposed activities.

The Brevard South Beaches project spans approximately 12 miles of shoreline between R140 and R202. The project used dune and upper beach placement to maintain the shoreline, much of which is within the Archie Carr National Wildlife Refuge. The Project was initially constructed following the effects of the 2004 hurricane season with the placement of 252,200 CY of material with combines FEMA, FDEP and local funding. Since initial construction, eight renourishment or maintenance projects were constructed between 2006 and 2021. In total 772,587 CY of beach quality sand have been placed in the project area by truck-haul delivery.

Five of the eight renourishment events, and every renourishment constructed in response to a federally declared emergency, were determined eligible for FEMA Category G assistance as "engineered beach." Ongoing maintenance and monitoring by Brevard, with FDEP partnership, has been essential in keeping the South Beaches project area eligible for FEMA category G assistance.

State and Federal permits are in hand for construction of the next South Beaches project. The permitted design shows a dune crest elevation of approximately +13' to +18' NAVD to match the elevation of the existing dune. Seaward of the dune is a narrow turtle friendly berm sloping from +10' downward to +5'. This turtle friendly slope was developed by Brevard in 2005 and used successfully since then with recent years showing higher turtle nesting success on the engineered dunes than in nearby non-nourished dunes.

The current request is to fund placement of approximately 90,000 CY of fill on the lower dune and berm along segments of the South Beaches. The maintenance will fill eroded areas of the engineered beach template.



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2023/2024
Beach Projects Application

3. Use of Requested Program Funds: Provide a brief description of tasks to be completed in each requested phase (Feasibility, Design, Construction, Monitoring, or USACE Multiphase). Indicate which tasks are cost reimbursement from previous fiscal years.

The current request is to fund placement of approximately 100,000 CY of fill on the lower dune and berm along segments of the South Beaches. The maintenance will fill eroded areas of the engineered beach template. Only construction funding is requested. This will fund sand placement as well as engineering and construction oversight during the construction activity. It is anticipated that these funds will also be used for required monitoring during construction and first year of monitoring after construction is completed.

4. Map: Provide as an attachment. The map(s) of the project area must be formatted at a minimum of 1" = 200' scale and include a compass rose and legend.

Map elements must include:

1. **Project boundary:** DEP reference monuments and shoreline designated as critically eroded
2. **Eligibility:** Indicate lengths of eligible shoreline based on criteria outlined in Chapter 62B-36.007, F.A.C.
 - a. Beach access locations: indicate primary or secondary access, and include the shoreline length, number and location of auto parking spaces, mass transit stops, bike parking spaces, and public restroom facilities within 1/4 mile walking distance of each access
 - b. Public lodging establishments: include the length fronting the project shoreline, and include the length of street-side frontage for lodging within 1/4 mile walking distance of a secondary beach access location
3. **Recreational benefits:** Comprehensive list of current land use designations of properties fronting the project shoreline
4. **Value of upland property:** Include one-quarter mile buffer and provide a comprehensive list of the values of properties (data from year 2020) that are enclosed or intersected by the buffer. The 2020 property value tax roll data and ArcGIS shapefiles can be obtained from the Department of Revenue website: https://floridarevenue.com/property/Pages/DataPortal_RequestAssessmentRollGISData.aspx. See Guidance Document for more information.

5. Project length: Total restored project length (in feet) of the critically eroded area (as listed in the Strategic Beach Management Plan).

60,720'



- **Location/Access Name:** Use the official name of the park or road that is associated with the public access.
- **DEP Reference Monument:** Use the DEP monument that is closest to the main public access location.
- **Type of Access:** Indicate Primary or Secondary beach access in accordance with the definitions in Chapter 62B-36, F.A.C.
- **Width of Access/Frontage:** The length of the legal boundary (in feet) of the public access or lodging along the beach project shoreline. For public lodging establishments that do not front the beach, indicate the street-side length of the legal property boundary (in feet) that is used as the main access to the establishment.
- **Number of Eligible Units:** A unit is defined as one automobile parking space, one rental unit in a public lodging establishment, one mass transit stop, or four bicycle parking spots.
- **Additional Width from Eligible Units:** Total distance (feet) added to the Width of Access/Frontage. If there are multiple types of eligibility units used for this calculation, show the calculation separately for each.
- **Total Eligible Shoreline:** Sum of the Width of Access/Frontage and Additional Width from Eligible Units columns. Eligible shorelines cannot overlap.
- **Website Link for DBPR License:** Provide the link to the Department of Business and Professional Regulation (DBPR) website for proof of licensure for any public lodging establishments used for eligibility or the Recreational Benefits ranking criteria.

[illegible]



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2023/2024
Beach Projects Application

- 7. Schedule and Budget:** Provide as a separate attachment, if needed. Clearly indicate project phase: Feasibility (F), Design (D), Construction (C), Monitoring (M), or USACE Multiphase (USACE). Include the year of post-construction monitoring in the description.
- **Cost Reimbursement:** Specify eligible costs incurred during the three years prior to the current application's fiscal year that are not in a current DEP agreement and have not been reimbursed (this includes fiscal years 20/21, 21/22, and 22/23). Eligible costs will be added to the current funding request.
 - **Current and Future Costs:** Specify eligible costs for the current application's fiscal year that are not in a current DEP agreement and have not been reimbursed as well as the estimated costs for the next 4 years. Note: If Construction costs are requested in the current fiscal year, then the Year 1 Post-Construction Monitoring costs will be added to the current funding request.

Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
20/21						
20/21						
20/21						
21/22						
21/22						
21/22						
22/23						
22/23						
22/23						
23/24		Construction		1,800,000	4,000,000	5,800,000
23/24						
23/24						
24/25		Monitoring		94,000	206,000	300,000
24/25						
24/25						



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2023/2024
Beach Projects Application

Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
25/26		Monitoring		94,000	206,000	
25/26						
25/26						
26/27		Monitoring		94,000	206,000	
26/27						
26/27						
27/28						
27/28						
27/28						

8. Tourism-related impacts: Criteria is calculated by the Department using 2020 data. For reference, tax data can be obtained from the Department of Revenue website: https://floridarevenue.com/taxes/pages/colls_from_7_2003.aspx. See Guidance Document for more information.

- ☒ Current funding request includes construction and year one post-construction monitoring
☐ Project is managed by two or more counties

Additional comments

9. Federal involvement: The documentation to verify authorization, federal cost share percentage, and status of funding award must be provided with the application materials for the award of points.

Is the project Federally authorized by the USACE?

No

Authorization Year:

Expiration Year:

Does this project have a signed USACE Chief's report or Civil Works Congressional authorization for the requested phase?

No

USACE federal cost share percentage for this project (excluding FCCE):



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2023/2024
Beach Projects Application

Select all that apply for the requested project phase(s) and include documentation with application materials.

- ☐ Executed USACE project agreement
- ☐ Included in USACE work plan
- ☐ Approved FEMA Project Worksheet
- ☐ Included in Congressional Appropriations Act
- ☐ Other documentation:

Note: Planning and funding this state and local maintenance event will help assure future FEMA eligibility as an "engineered beach."

10. Storm damage reduction benefits: Criteria is calculated by the Department.

What is the volume (cy) of advanced nourishment lost since the last sand placement event of a beach restoration or nourishment project as measured above the Mean High Water contour? Data should be consistent with the annual post-construction monitoring reports.

For restoration projects, what is the historical erosion rate?

1 foot per year bluff retreat (Olsen 2007)

11. Cost effectiveness: Criteria is calculated by the Department. A project design analysis and supporting documentation must be provided with the application materials for the award of points. See Guidance Document for more information.

What is the proposed sand placement volume (cy)?

100,000

What is the nourishment interval (years)?

5

Select all that apply for the current project funding request:

- ☐ Enhanced longevity: Propose structural or design components that could extend the beach nourishment interval
- ☐ Dune addition: Incorporate new or enhanced dune structures or new or existing dune restoration and revegetation projects
- ☐ Innovative technology: Propose innovative technologies designed to reduce project costs
- ☐ Regionalization: Two or more local sponsors manage projects together or projects propose regional sediment management strategies to conserve sand resources or reduce project costs

Additional comments
for storm damage
reduction benefits and
cost effectiveness



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2023/2024
Beach Projects Application

12. Previous state commitment

Has the Department previously reviewed, approved, and cost-shared on a feasibility or design phase for this project?

Has the current proposed project phase(s) received a partial state appropriation within 3 years of phase completion?

Additional comments

13. Accessible beach area: Criteria is calculated by the Department. Provide additional information for consideration.

Describe the landward and seaward edge of the accessible beach width

The project holds a JCP but because all sand placement is above the MHWL no ECL has been set. Beach is publicly accessible from the dune vegetation to the waters edge.

Provide the project boundaries (R-monuments)

R141 to R202

Provide citations of reference sources

14. Recreational benefits: Provide the percentage of linear footage within the project boundaries which is zoned recreational or open space; for commercial use; or to allow for public lodging establishment, or the equivalent. Provide additional documentation and DBPR website link in a separate attachment, if needed.

44.6%

15. Mitigation of inlet effects: Criteria is calculated by the Department.

Additional comments

16. Successive unfunded requests

Is the current proposed project phase(s) a successive, unfunded request? If so, how many years of successive request(s) is the current application?

Does the successive request add the construction phase?



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2023/2024
Beach Projects Application

17. Environmental habitat enhancement: Criteria is calculated by the Department. See Guidance Document for more information.

Is the project within a designated critical habitat area for threatened or endangered species that is subject to extensive shoreline armoring?

Is the project within a non-designated area where extensive shoreline armoring threatens the habitat of threatened or endangered species?

If yes to either of the above, does the project exceed best management practices to incorporate turtle-friendly designs and management strategies to protect resources or benefit critical habitat preservation?

Provide an explanation and supporting documentation for the strategies which exceed best management practices

The Archie Carr National Wildlife Refuge spans all but the northern mile of the South Beaches. The Refuge was created for protect critical nesting habitat for Loggerhead and Green turtles. The area is not heavily armored only because Brevard County ordinance prohibits hard armor in this area. Sand placement through the South Beaches project is critical to avoid a public/political push to change the ordinance and begin allowing seawalls within the Carr Refuge.

18. Readiness to construct

Does the project have an active state permit?

Yes

Does the project have an active federal permit?

Yes

Permit number

0388538-001-JC

Permit number

SAJ-2008-04456

Authorization date

October 6, 2021

Authorization date

June 28, 2022

Expiration date

October 6, 2035

Expiration date

March 14, 2026

Have all necessary easements been acquired for the upcoming or proposed construction phase?

Yes

Has the necessary local funding been secured for the proposed project? If so, provide a copy of the draft Resolution. The signed Resolution is due by October 5, 2022.

Yes

Is an Erosion Control Line established along the project length?

No

Additional comments for readiness to construct

All sand placement is above the MHWL, in part to assure a turtle friendly narrow beach slope within the Archie Carr National Wildlife Refuge, so no ECL is required.



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2023/2024
Beach Projects Application

Provide additional information and comments below or attach supporting documents.

Attached supporting documents include: Map set; Eligibility Table; Property Value Table; Signed Resolution. Summer 2022 survey data