

FY2022/2023 Local Government Funding Request

Final Beach Project Assessment

Project Name	North County Comprehensive Shore Protection Project - Segment 2
Local Sponsor	Palm Beach County

Initial Assessment	8/11/2021
Group Assessment	8/25/2021
Draft Assessment	8/31/2021
Final Review	10/5/2021

Project Description
The North County Comprehensive Shore Protection Project - Segment 2 consists of nourishment and maintenance of 1.45 miles of dunes between DEP reference monuments R19 to R26 in Palm Beach County. The project has had two nourishments that were limited to between R20-230' to R21. The most recent project was completed in 2020. The project received FEMA funds for a Hurricane Dorian storm repair project, scheduled for 2021/2022. The requested funds are for construction costs to place additional sand to complete a full dune nourishment. Staff have determined that 100% of the project is eligible for state cost sharing.

Funds will be used for (list project phase, specify which phase is reimbursement, if applicable)
Construction

State cost share %	50.00%
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Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	0.00%	\$0	\$0	\$0	\$0
Design	0.00%	\$0	\$0	\$0	\$0
Construction	50.00%	\$0	\$773,858	\$773,858	\$1,547,715
Construction	50.00%	\$382,714	\$63,786	\$63,786	\$510,285
Year 1 Monitoring	0.00%	\$0	\$0	\$0	\$0
Year 2+ Monitoring	0.00%	\$0	\$0	\$0	\$0
Total Project Costs		\$382,714	\$837,643	\$837,643	\$2,058,000

Federal cost share %	75.00%
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Federal agency and description	FEMA - Hurricane Dorian (Project Worksheet 163)
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TOTAL PROJECT SCORE (100 points)	40.3
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Tier 1

Tourism-related impacts			
Return on investment (10 points)	Score	8	

Local Sponsor: Project is requesting construction funds.

Department: Verified

Construction + Year 1 Monitoring Cost: \$837,643

Value: 117.8

Economic impact (10 points)	Score	4
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Local Sponsor: N/A

Department: Palm Beach County, 2020 data. Tourism-related sales tax data = \$98,702,867.75. County sales tax collections = \$1,651,762,761.64

Value: 5.98

Tier 2

Federal involvement

Federal authorization (5 points)	Score	0
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Local Sponsor: No, have approved FEMA project worksheet

Department: Only projects with federal authorization from the USACE are eligible for the award of points.

Federal cost share (5 points)	Score	0
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Local Sponsor: Yes, approved FEMA Project Worksheet 163

Department: Only projects with a federal cost share from the USACE are eligible for the award of points.

Federal funds available (5 points)	Score	5
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Local Sponsor: Yes

Department: Verified and eligible for points with FEMA approved Project Worksheet.

Storm damage reduction benefits

Current conditions (8 points)	Score	4.5
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Local Sponsor: N/A

Department: Limited dune restorations were completed in 2016 and 2020 between R-20 and R-21. As the project area has not been restored for most of the project length the average rate of erosion provision will be utilized. The shoreline position in this area has benefitted by beach nourishment to the immediate north. For the most recent 30-year period, all MHW survey data from 1990 to 2021 was utilized for R-20 to R-26. The average rate of erosion for this half of the project shoreline is -1.25 ft/yr.

CEG calculated value: 1.25

Threat to upland development (2 points)	Score	0
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Local Sponsor: N/A

Department: The Department applied the SBEACH model for the 25-year storm conditions, using profiles from the April-2020 and February-2021 surveys for R-19 to R-26 in Palm Beach County. Properties that are threatened but not protected by armoring total 0 feet, therefore no points awarded.

CEG calculated value: 0

Value of upland property (5 points)	Score	2.3
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Local Sponsor: \$732,769,574

Department: Calculated by Department GIS staff with 2020 data.

Total value: \$685,130,621

Cost-effectiveness

Cost/volume/mile/year (10 points)	Score	2.5
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Local Sponsor: Proposed sand volume 40,000; nourishment interval 6 yrs

Department: Construction cost = \$2,058,000; volume = 40,000; length = 1.45 miles; nourishment interval = 6 yrs

Value: \$5.91

Enhanced longevity, dune addition, innovative technology, and regionalization (5 points)	Score	5
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Local Sponsor: Dune addition, Regionalization. Interlocal Agreement with Town of Jupiter executed in July 13, 2021, to be submitted to FDEP

Local Sponsor: Interlocal Agreement submitted to the Department.

Department: Proposed project includes dune restoration and is eligible for the award of points. The interlocal agreement between the Town of Jupiter and Palm Beach County is needed for the award of points for regionalization.

Department: Verified and eligible for the award of points for regionalization.

Tier 3

Previous state commitment

Previously funded phases (1 point)	Score	1
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Local Sponsor: Yes, South Jupiter Feasibility study - 21PB13

Department: Verified

Total amount of previous funding (3 points)	Score	0.5
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Local Sponsor: N/A

Department: Fiscal year 2012/2013 through 2021/2022

Total funds: \$193,837

Previous partial appropriation (1 point)	Score	0
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Local Sponsor: N/A

Department: No previous partial appropriations.

Recreational benefits

Accessible beach area (2 points)	Score	0
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Local Sponsor: N/A - Dune Project R19 to R26

Department: Proposed project is a dune-only project and therefore not eligible for the award of points.

Total area: N/A

Recreational benefits (3 points)	Score	2.6
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Local Sponsor: Yes, 86.4%

Department: Verified

Percentage: 86.40%

Mitigation of inlet effects (5 points)	Score	0
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Local Sponsor: N/A

Department: All deficiencies in the Jupiter Inlet target bypassing objective have been mitigated by the Jupiter/Carlin project to the north and no further mitigation is needed, therefore no points awarded.

CEG calculated value: 0

Volume/mile/year (5 points)	Score	1.9
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Local Sponsor: N/A

Department: Application is for the initial dune restoration with an anticipated nourishment interval of 6 years. The project length is 7,670 feet or 1.45 miles. The planned sand placement volume as stated in the application is 40,000 cy.

CEG calculated value: 4,598

Tier 4

Successive unfunded requests (5 points)	Score	0
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Local Sponsor: N/A

Department: No successive unfunded requests.

Environmental habitat enhancement (5 points)	Score	0
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Local Sponsor: No, PBBCC executed a Federalized Dune Annual Construction Contract for

Department: The project is within a designated critical habitat area, but only 0.1 miles or 6.9% of the project shoreline is armored, which does not exceed the 30% threshold for extensive armoring and is therefore not eligible for the award of points.

Overall readiness to proceed

Readiness to construct (1 point)	Score	0
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Local Sponsor: N/A

Department: No ECL, therefore not eligible for the award of the additional point.

Active permits (1 point)	Score	1
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Local Sponsor: Yes, State (0303863-006-JM) exp 6/8/2033 & Federal (SAJ-2017-00019(SP-LCK) exp 9/19/2023

Department: Verified

Easements acquired (1 point)	Score	1
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Local Sponsor: Yes, documentation included in application

Department: Verified

Local funds secured (1 point)	Score	1
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Local Sponsor: Yes, Draft Resolution submitted with application.

Department: Verified - Received signed Resolution on 9/21/2021

Erosion Control Line established (1 point)	Score	0
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Local Sponsor: No

Department: Verified