

FY2022/2023 Local Government Funding Request

Draft Beach Project Assessment

Project Name	Hillsboro Beach Nourishment
Local Sponsor	City of Deerfield Beach

Initial Assessment	8/16/2021
Group Assessment	8/18/2021
Draft Assessment	8/31/2021
Final Review	

Project Description
The Hillsboro Beach Nourishment Project consists of 0.7 miles of shoreline and is located between DEP monuments R5+350' and R9 in the City of Deerfield Beach and Town of Hillsboro in Broward County. The Project was restored in 1972 and six nourishments from either offshore or upland sand sources have been completed along different segments within R6 and R12. The City of Deerfield Beach and Town of Hillsboro approved a settlement agreement in 2020 for joint beach management and the requested funds are for the design, permitting, construction, and year 1 post-construction monitoring of the nourishment event scheduled for 2022/2023. 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)
Design, Construction, and Monitoring

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	50.00%	\$0	\$200,000	\$200,000	\$400,000
Construction	50.00%	\$0	\$2,337,500	\$2,337,500	\$4,675,000
Year 1 Monitoring	50.00%	\$0	\$75,000	\$75,000	\$150,000
Year 2+ Monitoring	0.00%	\$0	\$0	\$0	\$0
Total Project Costs		\$0	\$2,612,500	\$2,612,500	\$5,225,000

Federal cost share %	0.00%
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Federal agency and description	N/A
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TOTAL PROJECT SCORE (100 points)	33.4
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Tier 1

Tourism-related impacts

Return on investment (10 points)	Score	5.7
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Local Sponsor: Project is requesting construction funds.

Department: Verified. State cost share for the construction and year 1 monitoring costs.

Construction + Year 1 Monitoring Cost: \$2,412,500.00

Value: 50.6

Economic impact (10 points)	Score	2.3
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Local Sponsor: N/A

Department: Broward County, 2020 data. Tourism-related sales tax data = \$122,102,930.81. County sales tax collections = \$2,139,277,077.52

Value: 5.71

Tier 2

Federal involvement

Federal authorization (5 points)	Score	0
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Local Sponsor: No

Department: Verified

Federal cost share (5 points)	Score	0
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Local Sponsor: No

Department: Verified

Federal funds available (5 points)	Score	0
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Local Sponsor: No

Department: Verified

Storm damage reduction benefits

Current conditions (8 points)	Score	0.7
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Local Sponsor: Erosion rate: -1.03 ft/yr (Long Range Beach Renourishment Plan for Hillsboro Beach, CSF 1997)

Department: The latest nourishment for this area was completed in March-2020. Utilizing the 2020-February pre-construction survey, the 2020-March post-construction survey, and the 2020-August survey the Department calculated volume changes. For the DEP monuments R7 to R9 the volume remaining as of August 2020 was calculated as 82.3% of the post-construction amount or a loss of 17.7%; $-\log(1-0.18) \times 8 = 0.7$ points.

CEG calculated value: 17.70%

Threat to upland development (2 points)	Score	0.2
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Local Sponsor: N/A

Department: The SBEACH model was run using the 2020-August survey profiles for the 25-year return interval storm conditions for the entire project length. The majority of the structures within the project area are protected by armoring. The public facility near R6 is threatened with an approximate width of 80 feet which is 2.2% of the total project length.

CEG calculated value: 2.20%

Value of upland property (5 points)	Score	1.8
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Local Sponsor: N/A

Department: Local sponsor did not submit data with application materials. Department GIS staff calculated with 2020 data.

Total value: \$561,057,200

Cost-effectiveness

Cost/volume/mile/year (10 points)	Score	3.3
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Local Sponsor: Sand placement volume: 300,000 cy; nourishment interval: 5 years

Department: Construction cost = \$4,675,000, volume = 300,000 cy, length = 0.7 mi, nourishment interval = 5 yrs

Value: \$4.45

Enhanced longevity, dune addition, innovative technology, and regionalization (5 points)	Score	3
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Local Sponsor: Regionalization. Settlement agreement between City of Deerfield Beach and the Town of Hillsboro submitted with application.

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

Department: Verified

Total amount of previous funding (3 points)	Score	0.8
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Local Sponsor: N/A

Department: Fiscal year 2012/2013 through 2021/2022. Includes appropriations to both the Deerfield Beach and Hillsboro Beach Nourishment Projects.

Total funds: \$710,476.00

Previous partial appropriation (1 point)	Score	0
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Local Sponsor: No

Department: Verified

Recreational benefits

Accessible beach area (2 points)	Score	0
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Local Sponsor: Project boundaries R5.3 (SE 6th Street) to R9

Department: While the design has not been finalized, the Agreement states for the R-5.3 to R-6.7 segment the fill shall cover the existing groins but there is no requirement they remain covered. Thus, for this segment the accessible beach area is not applicable. For the R-6.7 to R-9 segment calculations utilizing GIS for the area between the ECL and the most recent pre-construction MHWL of 2020-February was done. This results in an accessible beach area of 10,162 square feet.

Total area: 10,162

Recreational benefits (3 points)	Score	1.6
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Local Sponsor: 54%; project boundaries = 3,700 ft.; private development (Hillsboro) = 1,700 ft.

Department: Verified

Percentage: 54%

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

Department: Because the inlet sand bypassing activities at Boca Raton Inlet are meeting the bypassing objective, mitigation is not needed, therefore no points awarded.

CEG calculated value: 0

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

Department: The project nourishment interval as documented in the Settlement Agreement is 5 years. The project length is 3,700 feet or 0.70 miles. The planned sand placement volume as stated in the application is 300,000 cy.

CEG calculated value: 85,714

Tier 4

Successive unfunded requests (5 points)	Score	0
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Local Sponsor: No

Department: Verified

Environmental habitat enhancement (5 points)	Score	3
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Local Sponsor: Not within a designated critical habitat area or within a non-designated area with extensive shoreline armoring.

Department: Project is within a designated critical habitat area. 0.58 miles or 82.9% of the project shoreline is armored, with the addition of threat to upland structures, for a total of 85.1%, which exceeds the threshold of 30% to be considered extensive armoring, therefore eligible for the award of 3 points. Documentation must be provided to be eligible for the additional 2 points.

Overall readiness to proceed

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

Department: Eligible for the award of additional point.

Active permits (1 point)	Score	1
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Local Sponsor: Active state permit, federal permit active, but will expire 2023

Department: Verified

Easements acquired (1 point)	Score	1
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Local Sponsor: Yes

Department: Verified

Local funds secured (1 point)	Score	1
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Local Sponsor: Yes, draft resolution submitted with application materials.

Department: Draft Resolution was submitted by application deadline.

Erosion Control Line established (1 point)	Score	1
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Local Sponsor: Yes, ECL established in 1998 by CSI and extends from R6 to R13

Department: Verified