

FY2023/2024 Local Government Funding Request

Final Beach Project Assessment

Project Name	Hillsboro Beach Nourishment Project
Local Sponsor	City of Deerfield Beach

Initial Assessment	8/9/2022
Group Assessment	9/1/2022
Draft Assessment	9/14/2022
Final Review	10/20/2022

Project Description
The Hillsboro/Deerfield Beach Nourishment Project is located between DEP monuments R5+350' in The City of Deerfield Beach and R9 in The Town of Hillsboro Beach in Broward County. The Hillsboro Beach Nourishment Project has placed approximately 1.4 million cubic yards (cy) of beach compatible sand within approximately 7,000 ft of shoreline in the Town of Hillsboro Beach and the City of Deerfield Beach since 1972. Placement has occurred in different sections of beach between R-monuments 6 and 12. Large scale dredging projects occurred in 1972 (360,000 cy), 1998 (555,000 cy), and 2011 (339,000 cy). Smaller scale truck haul projects have occurred in 2008 (10,000 cy), 2015 (45,000 cy), 2018 (34,000 cy), and 2020 (69,000 cy). In 2020, the two municipalities within Broward County approved a settlement agreement to settle the litigation of Town of Hillsboro Beach vs. City of Deerfield Beach regarding beach management. The requested funds are for design, construction, and monitoring. 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 (additional funds for 22/23 nourishment), monitoring

State cost share %	50.00%
--------------------	--------

Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	0.00%	\$0	\$0	\$0	\$0
Design	50.00%	\$0	\$100,000	\$100,000	\$200,000
Construction	50.00%	\$1,880,894	\$4,222,053	\$4,222,053	\$10,325,000
Year 1 Monitoring	50.00%	\$0	\$92,500	\$92,500	\$185,000
Year 2+ Monitoring		\$0	\$0	\$0	\$0
Total Project Costs		\$1,880,894	\$4,414,553	\$4,414,553	\$10,710,000

Federal cost share %	18.21%
----------------------	--------

Federal agency and description	FEMA Hurricane Matthew (2016), FEMA Hurricane Dorian (2019), - \$1,880,894 for construction
--------------------------------	---

TOTAL PROJECT SCORE (100 points)	42.1
---	------

Tier 1

Tourism-related impacts

Return on investment (10 points)	Score	4.4
---	--------------	------------

Local Sponsor: Project is requesting construction funds

Department:

Construction + Year 1 Monitoring Cost: \$4,314,553.00

Value: 49.4

Economic impact (10 points)	Score	5.7
------------------------------------	--------------	------------

Local Sponsor: N/A

Department: Broward County, 2021 data. Tourism-related sales tax data = \$213,334,058.07 . County sales tax collections = \$2,704,998,679.22

Value: 7.89

Tier 2**Federal involvement**

Federal authorization (5 points)	Score	0
---	--------------	----------

Local Sponsor: No

Department: Verified

Federal cost share (5 points)	Score	0
--------------------------------------	--------------	----------

Local Sponsor: No

Department: Verified

Federal funds available (5 points)	Score	5
---	--------------	----------

Local Sponsor: FEMA- \$1,880,894

Department: FEMA worksheets for Matthew and Dorian in submitted.

Storm damage reduction benefits

Current conditions (8 points)	Score	0
--------------------------------------	--------------	----------

Local Sponsor: -1.03 ft per year (Long Range Beach Nourishment Plan for Hillsboro Beach, CSI 1997)

Department: Beach restoration was completed in March 2020 with the latest survey received by the Department in August 2021. Volume was gained between the post-construction and most recent survey data. Therefore, 0 points are awarded.

CEG calculated value: 0

Threat to upland development (2 points)	Score	0
--	--------------	----------

Local Sponsor: N/A

Department: Widespread armoring throughout the project area provides storm damage protection to the upland property.
CEG calculated value: 0

Value of upland property (5 points)	Score	1.4
-------------------------------------	-------	-----

Local Sponsor: N/A

Department: Calculated by GIS with 2021 data.
Total value: \$568,363,470.00

Cost-effectiveness

Cost/volume/mile/year (10 points)	Score	4.4
-----------------------------------	-------	-----

Local Sponsor: Sand placement vol estimate 220,000 cy; nourishment int = 5

Department: Construction cost = \$4,222,053, Volume = 220,000 cy, Length = 3,703 ft,
Value: Nourishment Interval = 5 yrs
5.4728

Enhanced longevity, dune addition, innovative technology, and regionalization (5 points)	Score	5
--	-------	---

Local Sponsor: Regionalization - agreement between City of Deerfield Beach and Town of Hillsboro Beach submitted with application

Department: The project proposes a dune addition and is therefore eligible for the award of points. Regionalization verified and also eligible for the award of points.

Tier 3

Previous state commitment

Previously funded phases (1 point)	Score	1
------------------------------------	-------	---

Local Sponsor: Yes

Department: Verified

Total amount of previous funding (3 points)	Score	0.9
---	-------	-----

Local Sponsor: N/A

Department: Fiscal year 2013/2014 through 2022/2023
Total funds: \$3,322,976.00

Previous partial appropriation (1 point)	Score	0
--	-------	---

Local Sponsor: No

Department: Verified

Recreational benefits

Accessible beach area (2 points)	Score	0
----------------------------------	-------	---

Local Sponsor: N/A

Utilizing GIS to calculate 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 (2022/2023 LGFR

Department: Assessment)

Total area: 10,162 ft²

Recreational benefits (3 points)	Score	1.3
----------------------------------	-------	-----

Local Sponsor: 54% project boundaries = 3,700 ft. private development (hillsboro) = 1,700 ft

Department: 1565 ft zoned open space eligible in Deerfield Beach, entirety of Hillsboro Beach Portion Zoned as multi family residential. $1565/3700 = 42.3\%$

Percentage: 42.30%

Mitigation of inlet effects (5 points)	Score	0
--	-------	---

Local Sponsor:

Department: Boca Raton Inlet sand bypassing activities are meeting the bypassing objective and not eligible for the award of points.

CEG calculated value: 0

Volume/mile/year (5 points)	Score	5
-----------------------------	-------	---

Local Sponsor:

Department: Volume = 220,000 cy, Length = 3,703 ft, Nourishment Interval = 5 yrs

CEG calculated value: 62738.32

Tier 4

Successive unfunded requests (5 points)	Score	0
---	-------	---

Local Sponsor: No

Department: Verified

Environmental habitat enhancement (5 points)	Score	5
--	-------	---

Local Sponsor: The project is within a designated critical habitat area for threatened or endangered species that is subject to shoreline armoring

Local Sponsor: The City and Town have adopted lighting ordinances, the project will be constructed outside of marine turtle nesting season

Department: Project intersects critical habitat area. 87% of the project shoreline is armored which exceeds the 30% threshold (3 points), and adopted lighting ordinances exhibiting best practices (2 points).

Overall readiness to proceed

Readiness to construct (1 point)	Score	0
---	--------------	----------

Local Sponsor: N/A

Department: Not eligible for the award of point.

Active permits (1 point)	Score	0
---------------------------------	--------------	----------

Local Sponsor: State permit 0289706-001-JC (exp 12/15/2025), federal permit submitted 1/19/2022 under review.

Department: Not eligible for award of point as federal permit not active.

Easements acquired (1 point)	Score	1
-------------------------------------	--------------	----------

Local Sponsor: Yes

Department: Verified

Local funds secured (1 point)	Score	1
--------------------------------------	--------------	----------

Local Sponsor: Yes

Department: Draft Resolution was submitted by application deadline.

Erosion Control Line established (1 point)	Score	1
---	--------------	----------

Local Sponsor: Yes, ECL established in 1998 by CSI and extends from R6 to R13

Department: Verified. ECL from R6 to ~R12.5