

FY2023/2024 Local Government Funding Request

Final Beach Project Assessment

Project Name	Martin County Shore Protection Project
Local Sponsor	Martin County Board of County Commissioners

Initial Assessment	8/17/2022
Group Assessment	9/2/2022
Draft Assessment	9/15/2022
Final Review	10/20/2022

Project Description
The project consists of 4.21 miles, and is located between DEP reference monuments R1 and R25.6 in Martin County. The project was federally authorized in 1995 by the USACE for a 50-year project lifespan. The initial restoration was completed in 1996, with subsequent nourishments constructed in 2001-2002, 2005, 2013, and 2018. The requested funds are for design and permitting of the 2026 nourishment project. Staff have determined that 91.94% of the project is eligible for state cost share.

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

State cost share %	45.97%
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Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	0.00%	\$0	\$0	\$0	\$0
Design	45.97%	\$0	\$199,364.53	\$234,319.47	\$433,684
Construction	0.00%	\$0	\$0	\$0	\$0
Year 1 Monitoring	0.00%	\$0	\$0	\$0	\$0
Year 2+ Monitoring	0.00%	\$0	\$0	\$0	\$0
Total Project Costs		\$0	\$199,365	\$234,319	\$433,684

Federal cost share %	0.00%
Federal agency and description	N/A

TOTAL PROJECT SCORE (100 points)	21.2
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Tier 1

Tourism-related impacts		
Return on investment (10 points)	Score	0

Local Sponsor: Project is not requesting construction funds.

Department: Verified that this request is for design costs only.

Construction + Year 1 Monitoring Cost: \$0.00

Value: 0

Economic impact (10 points)	Score	1.4
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Local Sponsor: N/A

Department: Martin County, 2021 data. Tourism-related sales tax data = \$11,693,901.53. County sales tax collections = \$264,322,758.67

Value: 4.42

Tier 2

Federal involvement

Federal authorization (5 points)	Score	5
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Local Sponsor: Yes. USACE authorized federal project in 1990, with an expiration date in 2046.

Department: Verified - There are no federal funds involved in this phase of the project, but there is an existing federal authorization for this project.

Federal cost share (5 points)	Score	0
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Local Sponsor: N/A

Department: Verified - There are no federal funds involved in this phase of the project.

Federal funds available (5 points)	Score	0
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Local Sponsor: N/A

Department: Verified - There are no federal funds involved in this phase of the project.

Storm damage reduction benefits

Current conditions (8 points)	Score	0
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Local Sponsor: Since 2018 the project area has receded ~6.8 ft/yr based on the MHW contour position, and ~8.7 ft based on the berm position (2021 monitoring). Volume lost: 73,000 cy based on 2018-2021 post-construction monitoring.

Department: Beach restoration was completed in April 2018 with the latest survey received by the Department in May 2021. Volume was gained between the post-construction and most recent survey data. Therefore, 0 points are awarded.

CEG calculated value: -37.2% (volume gained)

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

Department: No properties were found to be vulnerable using the May 2021 survey profiles. Therefore, 0 points are awarded.

CEG calculated value: 0

Value of upland property (5 points)	Score	1.9
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Local Sponsor: N/A

Department: The upland property value for the Hutchinson Island 4-Mile Beach Shore Protection Project MI R-001 – MI R-025.6 is \$738,691,507.

Total value: \$738,691,507

Cost-effectiveness

Cost/volume/mile/year (10 points)	Score	0
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Local Sponsor: N/A

Department: The project is not requesting construction funds and therefore is not eligible for the award of points.

Value: 0

Enhanced longevity, dune addition, innovative technology, and regionalization (5 points)	Score	3
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Local Sponsor: The goal of the resilience phase 2 project is to increase the longevity of the project and make it more resilient to storms and the modeling techniques and project analysis is quite innovative. Martin County and St. Lucie County will both need to perform beach nourishment projects roughly at the same time in the winter of 2026.

Department: A structural alternative or project design to increase the nourishment interval for the previously constructed project has not been proposed. Hence, the ranking score for enhanced longevity is zero points. The county's proposal for a unified effort with St. Lucie County is not effective until winter 2026, which is outside of consideration for this funding request. Dune construction has already been approved, thus eligible for the award of points.

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	1.1
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Local Sponsor: N/A

Department: Fiscal year 2013/2014 through 2022/2023

Total funds: \$4,714,270.00

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

Department: Verified

Recreational benefits

Accessible beach area (2 points)	Score	1.3
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Local Sponsor: R1 to R25.6

The design MHWL was derived from table 3.8 of the Martin SPP Monitoring Report, October 2016, by Taylor Engineering. This design is bounded by the ECL on the landward edge. As calculated by GIS:

Department: 1,235,460 sq. ft

Total area: 1,235,460 sq. ft.

Recreational benefits (3 points)	Score	1.5
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Local Sponsor: 50% of the total linear footage within the project boundaries is zoned recreational or open space; for commercial use; or to allow for public lodging establishment.

Department: Verified that 50% of the total linear footage within the project boundaries is zoned recreational or open space; for commercial use; or to allow for public lodging establishment.

Percentage: 50%

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

Department: This project is not located within the area of any influence of any inlet, thus not eligible for the award of points.

CEG calculated value: 0

Volume/mile/year (5 points)	Score	0
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Local Sponsor: N/A

Department: The project is not requesting construction funds and therefore is not eligible for the award of points.

CEG calculated value: 0

Tier 4

Successive unfunded requests (5 points)

Score

0

Local Sponsor: No

Department: Verified

Environmental habitat enhancement (5 points)

Score

0

Local Sponsor: No

Department: The project boundary intersects a critical habitat area. 0% of the project length is armored, which is below the 30% threshold and therefore not eligible for the award of points.

Overall readiness to proceed

Readiness to construct (1 point)

Score

1

Local Sponsor: N/A

Department: N/A

Active permits (1 point)

Score

1

Local Sponsor: Yes, an active state permit (0295380-001-JC)

Department: Verified

Easements acquired (1 point)

Score

1

Local Sponsor: Yes, all easements have been acquired.

Department: Verified

Local funds secured (1 point)

Score

1

Local Sponsor: A signed resolution has been submitted.

Department: Signed Resolution was submitted by application deadline.

Erosion Control Line established (1 point)

Score

1

Local Sponsor: Yes

Department: Verified