

FY2023/2024 Local Government Funding Request

Final Beach Project Assessment

Project Name	Jupiter Island Beach Nourishment and Blowing Rocks Dune Project
Local Sponsor	Town of Jupiter Island

Initial Assessment	8/16/2022
Group Assessment	9/2/2022
Draft Assessment	9/15/2022
Final Review	10/20/2022

Project Description
The Jupiter Island Beach Nourishment and Blowing Rocks Dune Project consists of approximately 41,026 ft of shoreline from R73 to R117, and R126 to R127+400' in Martin County. The project has had regular nourishments since 1973, with the most recent nourishment completed in 2020/2021 to repair damages from Hurricane Dorian. The Blowing Rocks dune component was nourished in 2012, 2014, 2017, and 2020. Re-construction of the Blowing Rocks dune project is scheduled for winter 2022-2023. The requested funds are for an USACE permit renewal, re-construction of the dunes project, and year 3 post-construction monitoring. Staff have determined that 38% 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 %	19.00%
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Project Budget Table					
	State %	Federal	State	Local	Total
Feasibility	0.00%	\$0	\$0	\$0	\$0
Design	19.00%	\$0	\$38,000	\$162,000	\$200,000
Construction	19.00%	\$0	\$76,000	\$324,000	\$400,000
Year 1 Monitoring	0.00%	\$0	\$0	\$0	\$0
Year 2+ Monitoring	19.00%	\$0	\$50,350	\$214,650	\$265,000
Total Project Costs		\$0	\$164,350	\$700,650	\$865,000

Federal cost share %	0.00%
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Federal agency and description	N/A
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TOTAL PROJECT SCORE (100 points)	38.5
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Tier 1

Tourism-related impacts

Return on investment (10 points)	Score	8.9
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Local Sponsor:

Project is requesting construction funds.

Department: Verified - This project is requesting funds for construction.
Construction + Year 1 Monitoring Cost: \$76,000.00
Value: 153.9

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	0
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Local Sponsor: N/A

Department: Verified - no federal funding for this project.

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

Department: Verified - no federal funding for this project.

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

Department: Verified - no federal funding for this project.

Storm damage reduction benefits

Current conditions (8 points)	Score	8
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Local Sponsor: Volume lost = 292,000 cy (since the 2021 sand placement event), as measured above the Mean High Water contour. Erosion rate = 2.9 ft/yr

Department: This area was last nourished in March 2021. Calculations by the Department, utilizing data provided in the last beach post-construction survey from July 2021, show that there was a loss of approximately 131.51% of the advanced nourishment volume placed. Therefore, full points are awarded.

CEG calculated value: 131.51%

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

Department: The most recent beach nourishment was completed in March 2021. The design berm remains intact and provides storm damage protection to the upland property from the impacts of a 25 year storm event. Therefore, the project is not eligible for the award of points.

CEG calculated value: 0

Value of upland property (5 points)	Score	3.8
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Local Sponsor: N/A

Department: The upland property value for the Jupiter Island Beach Nourishment Project MI R-073 – MI R-117, and R-126 – R-127.4 is \$2,806,387,564.

Total value: \$2,806,387,564

Cost-effectiveness

Cost/volume/mile/year (10 points)	Score	0
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Local Sponsor: Total volume of proposed sand placement = 10,000 cy (dune only between R126 and R127.4); Nourishment interval = 2 years.

Department: Construction= \$76,000, Volume = 10,000 cy, Length = 41,026 ft , Nourishment Interval = 3.5 yrs

Value: 0.28 \$/cy/mi/yr

Enhanced longevity, dune addition, innovative technology, and regionalization (5 points)	Score	3
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Local Sponsor: This project includes a dune addition portion between R126 and R127.4.

Department: The project proposes a dune addition and is therefore eligible for the award of 3 points.

Tier 3

Previous state commitment

Previously funded phases (1 point)	Score	1
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Local Sponsor: Yes

Department: The Department has previously funded this project.

Total amount of previous funding (3 points)	Score	1.4
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Local Sponsor: N/A

Department: Fiscal year 2013/2014 through 2022/2023

Total funds: \$6,479,309

Previous partial appropriation (1 point)	Score	0
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Local Sponsor: Yes

Department: Verified that this project has not received partial appropriation in the past.

Recreational benefits

Accessible beach area (2 points)	Score	0
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Local Sponsor: Accessible beach area = 73.44 acres (3,199,049 sq. feet) between R73-R117, and R126-R127.4.

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

Total area: 0

Recreational benefits (3 points)	Score	0.5
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Local Sponsor: 19.98% 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: Calculated 16.6% (6,825 ft. out of 41,026 ft.) 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: 16.60%

Mitigation of inlet effects (5 points)	Score	0
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Local Sponsor: St. Lucie Inlet Bypass record is 164,332 cy/yr from 2014 to 2022 (1,478,991 cy total). The bypass objective is 161,000 cy/yr, thus it is exceeding the objective by 102.07%

Department: St. Lucie 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	2.5
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Local Sponsor: N/A

Department: Volume = 10,000 cy, Length = 41,026 ft , Nourishment Interval = 3.5 yrs

CEG calculated value: 367.71 cy/mi/yr

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:

Project within designated critical habitat area and exceeds best management practices. Turtle-friendly design and slopes; repeated nourishments have led to the growth of the dune system; town staff assists field study through identification and tracking of turtle crawl and nesting activities; town staff assists in Project Leatherback with tagging and tracking sea turtles.

Department:

Project intersects critical habitat area. 45% of the project shoreline is armored which exceeds the 30% threshold, thus eligible for the award of three 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 the readiness to construct point.

Active permits (1 point)	Score	1
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Local Sponsor:

Yes, an active state permit (0186991-008-JC), and an active federal permit (SAJ-1992- 01740(MOD-LCK))

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

Department:

Signed Resolution was submitted after the application deadline, but prior to the final assessment.

Erosion Control Line established (1 point)	Score	1
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Local Sponsor:

Yes

Department:

Verified