

FY2023/2024 Local Government Funding Request

Final Inlet Project Assessment

Project Name	St. Lucie Inlet Management Plan Implementation
Local Sponsor	Martin County Board of County Commissioners

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

Project Description
The St. Lucie Inlet is located between DEP monuments R44 to R45 in Martin County. Federally-authorized improvements began in 1974 with the construction of the first extension of the north jetty, a small south jetty, and a detached breakwater. The Inlet Management Plan (IMP) was adopted in 1996, and since then, regular sand bypassing has been conducted on a 4-5-year cycle, with the placement of over 3.28 million cubic yards of sand on the beaches of Jupiter Island to the south of the inlet. Extensive monitoring and modeling efforts were undertaken after the construction of the sediment impoundment basin in 2002 to understand the impact and functioning of the basin. As a result, a revised IMP was adopted in 2016. The IMP calls for sand bypassing to both the Town of Jupiter Island (161,000 cy/year) to the south and Bathtub Beach/Sailfish Point (34,000 cy/year) to the north. The requested funds are for the north bypass requirement for 3 years (34,000 cy per year), and Year 1 post-construction monitoring. Staff have determined the project is eligible for a 50% state cost share.

Funds will be used for (list project phase, specify which phase is reimbursement, if applicable)
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	0.00%	\$0	\$0	\$0	\$0
Construction	50.00%	\$0	\$2,500,000	\$2,500,000	\$5,000,000
Year 1 Monitoring	50.00%	\$0	\$150,000	\$150,000	\$300,000
Year 2+ Monitoring	0.00%	\$0	\$0	\$0	\$0
Total Project Costs		\$0	\$2,650,000	\$2,650,000	\$5,300,000

TOTAL PROJECT SCORE (80 points)	44.7
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Sand reaching the inlet (10 points)	Score	10
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Local Sponsor: 265,000 cy/yr

Department: Value obtained from St. Lucie IMP sediment budget (2016)
Volume of sand: 265,000 cy/yr

Severity of erosion (10 points)	Score	10
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Local Sponsor: Annual bypassing objective: 195,000 cubic yards

Department: Value obtained from the Annual Inlet Report
Target bypassing volume: 195,000 cy/yr

Balancing the sediment budget (10 points)	Score	10
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Local Sponsor: Annual average bypass objective since IMP adoption: 251,824 cy. 2016 IMP bypass objectives: 161,000 cy to the south, 34,000 cy to the north

Department: The annual target bypassing is 195,000 cy/yr. The inlet has bypassed 222,932 cy/yr or 114.3% since IMP adoption.
CEG calculated value: 114.3%

Increased bypassing improvements (10 points)	Score	0
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Local Sponsor: No increase proposed and no average annual shortfall of bypassing.

Department: Increased bypassing has not been proposed, therefore not eligible for the award of points.
CEG calculated value: 0

Cost-effectiveness of using inlet sand (10 points)	Score	0
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Local Sponsor: N/A

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

Inlet Management Plans

Existing IMP (5 points)	Score	5
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Local Sponsor: Yes

Department: Verified

Updated IMP (5 points)	Score	0
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Local Sponsor: Yes

Department: The most recent update to the IMP was authorized in 2016, thus it is not eligible for the award of points as per the rule.

New IMP (10 points)	Score	0
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Local Sponsor: No

Department: Verified

Enhanced longevity of proximate beach projects (10 points)	Score	2.7
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Local Sponsor: N/A

Department: The Bathtub Beach/Sailfish Point and Jupiter Island Projects have placed 3,535,444 cy since 2016. For the 6-year period from adoption of the updated bypass objective in 2016, the inlet has bypassed 1,337,593 cy for a total volume of 4,873,037 cy. The inlet bypassing is 27.4% of the total fill amount.

CEG calculated value: 27.4%

Criteria in 161.101(14) applicable to inlets

Active permits (1 point)	Score	1
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Local Sponsor: Active state (0269814-007-JC) and active federal (SAJ-1996-05620 I) permits

Department: Verified

Federal funds available (3 points)	Score	0
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Local Sponsor: Yes

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

Total amount of previous state funding (4 points)	Score	4
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Local Sponsor: N/A

Department: Fiscal year 2013/2014 through 2022/2023

Total funds: \$28,005,249.86

Secured local funds (2 points)	Score	2
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Local Sponsor: A signed resolution has been submitted.

Department: Signed Resolution was submitted by the application deadline.