

FY2022/2023 Local Government Funding Request

Final Inlet Project Assessment

Project Name	Boca Raton Inlet Management Plan Implementation
Local Sponsor	City of Boca Raton

Initial Assessment	8/11/2021
Group Assessment	8/25/2021
Draft Assessment	8/31/2021
Final Review	10/5/2021

Project Description
The Boca Raton Inlet is located at DEP monument R223 in Palm Beach County. The Boca Raton Inlet Management Plan was adopted in 1997. The plan established a bypassing objective of 71,300 cubic yards of sand annually. In 2004, the bypassing objective was revised and increased to 83,000 cubic yards. Bypassing activities and associated monitoring occur annually using a city-owned dredge that bypasses sand to a fixed outfall located on the beach south of the inlet. A second discharge pipe is being designed to provide an alternative location to bypass dredged sand further away from the inlet. Construction of the second discharge pipe is scheduled for 2022/2023. The requested funds include design and permitting for the sediment budget update, second discharge pipe, and new USACE permit; construction of the discharge pipe and construction for the annual bypassing activities; and physical monitoring. Staff have determined that 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)
Design (FY22/23 and reimbursement for FY21/22), 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	\$187,000	\$187,000	\$374,000
Construction	50.00%	\$0	\$462,500	\$462,500	\$925,000
Year 1 Monitoring	50.00%	\$0	\$14,050	\$14,050	\$28,100
Year 2+ Monitoring	0.00%	\$0	\$0	\$0	\$0
Total Project Costs		\$0	\$663,550	\$663,550	\$1,327,100

TOTAL PROJECT SCORE (80 points)	34.9
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Sand reaching the inlet (10 points)	Score	5
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Local Sponsor: 141,400 cy/yr

Department: The volume of sand reaching the updrift boundary of the inlet is 100,000 cy/yr (Dean's study in IMP).
Volume of sand: 100,000

Severity of erosion (10 points)	Score	8.3
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Local Sponsor: 83,000 cy/yr

Department: The annual target bypassing is 83,000 cy to the south.
Target bypassing volume: 83,000

Balancing the sediment budget (10 points)	Score	6.6
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Local Sponsor: 54,580 cy/yr

Department: The annual target bypassing is 83,000 cy to the south. For the 16 year period from adoption of the revised bypass objective in 2004 the inlet has bypassed 54,580 cy/yr.
CEG calculated value: 65.80%

Increased bypassing improvements (10 points)	Score	0
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Local Sponsor: Estimated increase in bypassing: 54,580 cy/yr per Sept 2020 Annual Monitoring Report. Shortfall: 28,420 cy/yr.

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: Yes, major inlet management component.

Department: The construction of the second discharge pipe does not qualify as an initial major inlet management project component, 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: No

Department: Verified

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

Department: Verified

Enhanced longevity of proximate beach projects (10 points)	Score	6.4
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Local Sponsor: 42,210 cy/yr

Department: The South Boca Raton Nourishment Project has placed 486,800 cy since 2004. For the 16 year period from adoption of the revised bypass objective in 2004 the inlet has bypassed 873,200 cy for a total volume of 1,360,000 cy. The inlet bypassing is 64% of the total fill amount.

CEG calculated value: 64%

Criteria in 161.101(14) applicable to inlets

Active permits (1 point)	Score	1
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Local Sponsor: Yes, State (0208818-003-JN) exp 7/15/2029 & Federal (SAJ-2002-08890) exp 10/31/2022

Department: Verified

Federal funds available (3 points)	Score	0
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Local Sponsor: No

Department: Verified

Total amount of previous state funding (4 points)	Score	0.6
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Local Sponsor: N/A

Department: Fiscal year 2012/2013 through 2021/2022.
Total funds: \$1,131,045.25

Secured local funds (2 points)	Score	2
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Local Sponsor: Yes, Local sponsor provided a Draft Resolution on 8/23/2021

Department: Verified. Signed Resolution received on 8/25/2021.

