



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Inlet Projects Application

PART I: GENERAL INFORMATION

Local Sponsor	Palm Beach County		
Federal ID Number (FEID)	59-6000785		
Primary Contact Name	Tracy Logue	Title	Coastal Geologist
Mailing Address Line 1	Palm Beach County ERM		
Mailing Address Line 2	2300 North Jog Road, 4th Floor		
City	West Palm Beach	Zip Code	33411-2743
		Telephone Number	(561) 233-2491
Email Address	tlogue@pbcgov.org		

Additional Contact Information

[Andy Studt](#) [Environmental Program Supervisor](#) [\(561\) 233-2359](#) astudt@pbcgov.org

PART II: CERTIFICATION

I hereby certify that all information provided with this application is true and complete to the best of my knowledge.

Signature of Local Sponsor 

Electronic or scanned signatures accepted.

Printed Name Deborah Drum

Date 7-29-2021



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Inlet Projects Application

PART III: EVALUATION CRITERIA

1. Project Name: As listed in the Inlet Management Plan (IMP) or Strategic Beach Management Plan (SBMP)

South Lake Worth Inlet Management Plan

2. Project Description: Include county, location with reference to DEP range monuments, brief project history, and description of proposed activities.

South Lake Worth Inlet (SLWI), also known as Boynton Inlet, is located in Palm Beach County between R-151 and R-152, with monitoring extending from R-138 to R-163. The South Lake Worth Inlet Management Plan (IMP) was adopted in March 1999, establishing an annual bypassing objective of 88,000 cubic yards with 60,000 cubic yards of the total to be bypassed via the sand transfer plant (STP). In August 2002, the inlet sand trap was expanded. In 2009, the STP was reconstructed, including conversion to electric power and increasing the diameter of the intake and discharge pipes. The seagrass mitigation site was completed in 2014 and maintenance dredging was completed in 2015. A sediment budget update has been finalized and will be a component of the updated IMP.

Proposed activities include expansion of the sand trap to the originally permitted lateral limits and to a cut elevation of -17.55 ft NAVD throughout, including rock and mixed rock/sediment removal. Rock 1 ft in diameter or larger will be placed into the rock disposal site south of the sand trap or other disposal site in the Lake Worth Lagoon when the south site is filled. The rock/sediment material (with rock smaller than 1 ft diameter) will be placed in Half Moon Bay Hole or a similar Lagoon enhancement area.

Ongoing sea turtle monitoring and physical monitoring (beach and ebb shoal surveys, aerial photography) are also proposed.



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Inlet Projects Application

3. Use of Requested Program Funds: Provide a brief description of tasks to be completed in each requested phase (Feasibility, Design, Construction, or Monitoring). Indicate which tasks are cost reimbursement from previous fiscal years.

Design: Plan development for sand trap expansion and dredging during 2022/2023 including SAV and hardbottom surveys, sediment sampling, and permit coordination. Balance of sediment budget update costs from 2021/2022... Adoption of Inlet Management Plan update.

Construction: Sand trap expansion by mechanical dredging, with material disposal in the Lake Worth Lagoon in 2022/2023.

Monitoring: Permit-required biological monitoring and physical surveys, including ebb shoal survey and beach profiles, and coastal aerial orthophotography associated with ongoing operation of the sand transfer plant and future maintenance dredging projects.

4. Map: Provide as an attachment.

- **Format:** The project area must be formatted at a minimum of 1" = 200' scale and include a compass rose and legend.
- **Required elements:** Project boundary, DEP reference monuments, shoreline designated as critically eroded, area of inlet influence, and permitted sand bypassing placement area

5. Project length: Total restored project boundary (in feet) as listed in the IMP or SBMP. 5,000

6. Schedule and Budget: Provide as a separate attachment, if needed. Clearly indicate project phase: Feasibility (F), Design (D), Construction (C), or Monitoring (M). Include the year of post-construction monitoring in the description.

- **Cost Reimbursement:** Specify eligible costs incurred during the three years prior to the current application's fiscal year that are not in a current DEP agreement and have not been reimbursed (this includes fiscal years 19/20, 20/21, and 21/22). Eligible costs will be added to the current funding request.
- **Current and Future Costs:** Specify eligible costs for the current application's fiscal year that are not in a current DEP agreement and have not been reimbursed as well as the estimated costs for the next 4 years. Note: If Construction costs are requested in the current fiscal year, then the Year 1 Post-Construction Monitoring costs will be added to the current funding request.

Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
19/20						
19/20						
19/20						
20/21						
20/21						
20/21						



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Inlet Projects Application

Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
21/22	Design	Sediment budget balance; SLW IMP adoption		18,750	6,250	25,000
21/22	Construction					
21/22	Monitoring					
22/23	Design	Design SAV & hardbottom surveys; sediment sampling; permit coordination (TO 1523-10A)		75,000	25,000	100,000
22/23	Construction	Initial construction trap expansion shortfall		3,318,750	1,106,250	4,425,000
22/23	Monitoring	Turtle; aerials; beach and ebb shoal surveys		57,500	57,500	115,000
23/24	Design					
23/24	Construction					
23/24	Monitoring	Turtle; aerials; beach profiles				100,000
24/25						
24/25						
24/25	Monitoring	Turtle; aerials; beach and ebb shoal surveys				115,000
25/26						
25/26						
25/26	Monitoring	Turtle; aerials; beach, ebb/flood shoal surveys				130,000
26/27						
26/27						
26/27						



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Inlet Projects Application

7. Sand reaching the inlet

Provide the estimated annual quantity (cubic yards) of beach quality sand reaching the updrift boundary of the improved jetty or inlet channel:

200,000

8. Severity of erosion

Provide the annual bypassing objective (cubic yards/year) adopted by the IMP or SBMP or as determined by a Department-approved study:

88,000

9. Balancing the sediment budget

Provide the current annual average of bypassed material (cubic yards) since the adoption of a bypass objective:

97,222

Provide a brief description of when the last sediment budget engineering analysis was completed for the inlet and area of inlet influence. Discuss any proposals to update the sediment budget.

An updated sediment budget was approved 3/31/21 by local stakeholders and the State.



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Inlet Projects Application

Historical bypassing volumes: In the table below, provide the annual bypassing volumes (cubic yards/year), for the previous ten years (from the last calendar year or the most recent calculation). Attach additional documentation as needed.

Year	Quantity Bypassed (cy) - Sand Transfer Plant	Quantity Bypassed (cy) - Dredging	Dredge Location	Placement or Disposal Area
2009	59,100			Ocean Ridge
2010	140,025			Ocean Ridge
2011	81,750			Ocean Ridge
2012	70,200			Ocean Ridge
2013	67,200	38,953	Interior trap, ICW Cut P-50, Oyer Park (fka Boynton Boat Club Park) boat channel	Ocean Ridge
2014	55,125			Ocean Ridge
2015	92,400			Ocean Ridge
2016	111,462			Ocean Ridge
2017	82,512			Ocean Ridge
2018	97,475			Ocean Ridge
2019	133,612			Ocean Ridge
2020	145,338		Total per method = '09-'20. Total bypass vol. (below) = '99-'20 & is detailed in Attachment 4	Ocean Ridge
Total per method	1,136,199	38,953		

Total bypass volume: 2,138,892 (1999-2020)

Years since IMP adoption: 22

Annual average bypass: 97,222

Bypass objective: 88,000

Percentage of bypass objective: 110.5%



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Inlet Projects Application

10. Increased bypassing and cost-effectiveness

Provide the estimated increase in annual bypassing of sand (cubic yards/year) proposed for the project:

3,000

Provide the estimated shortfall of annual bypassing of sand (cubic yards/year) within the inlet system:

N/A

Is the proposed project requesting construction phase funds for a major inlet management project component? Yes

If yes, and for the award of points for the cost-effectiveness of using inlet sand criteria, provide an opinion of probable cost per unit volume of the inlet and all other sand sources, certified by a licensed professional engineer.

11. Inlet Management Plans

Select all that apply:

- ☒ **Existing IMP:** The proposed project has an existing IMP or completed Inlet Management Study that has been approved by the Department.
- ☒ **Updated IMP:** The Department has received and approved an update to an existing IMP in the form of a current Inlet Management Study/sediment budget analysis within the previous five years, or there is an update proposed to an existing IMP in the current application.
- ☐ **New IMP:** A new inlet management study is proposed for submission to the Department for an adoption in an IMP.

12. Enhanced longevity of proximate beach nourishment projects

Annualized beach nourishment volume of proximate beach nourishment project:

107,810 cy

13. Active permits

Does the project have an active state permit? Yes

Permit number: 0117708-001-JC

Authorization date: Feb 8, 2001

Expiration date: Feb 8, 2026

Does the project have an active federal permit? Yes

Permit number: SAJ-2000-02301 (IP-EGR)

Authorization date: Dec 19, 2012

Expiration date: Dec 19, 2022



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2022/2023
Inlet Projects Application

14. Federal funds available

Does the proposed project have federal funds available? If so, provide supporting documentation.

No

15. Secured local funds

Has the necessary local funding been secured for the proposed project? If so, provide a copy of the draft Resolution. The signed Resolution is due by September 21, 2021.

Yes

Additional
comments

Attachment 1: Project Map
Attachment 2: Draft Resolution
Attachment 3: Palm Beach County Capital Improvement Plan FY2021
Attachment 4: Bypass Volumes for SLWI 1999 - 2020
Attachment 5: Item 10. Opinion of Probable Cost