



Beach Management Funding Assistance Program
Local Government Funding Request
Fiscal Year 2023/2024
Inlet Projects Application

PART I: GENERAL INFORMATION

Local Sponsor

Federal ID Number (FEID)

Primary Contact Name Title

Mailing Address Line 1

Mailing Address Line 2

City Zip Code Telephone Number

Email Address

Additional Contact Information

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

Date



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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), is located in Palm Beach County between R-151 and R-152, with permit-required monitoring extending from R-138 to R-163. The SLWI Inlet Management Plan (IMP) was adopted in March 1999, establishing an annual bypassing objective of 88,000 cubic yards (cy) with 60,000 cy of the total bypassed via the Sand Transfer Plant (STP). In August 2002, the Sand Trap was partially expanded and a sediment deposition basin was created. In 2009, the STP was replaced with a new plant. Changes included conversion to electric power and increased diameter of the intake and discharge pipes. Maintenance dredging was most recently completed in 2013, with limited mechanical expansion of the trap last occurring in 2014. The seagrass mitigation site for the proposed expansion was completed in 2014. A sediment budget update has been finalized and will be a component of the updated IMP when published later this year.

Proposed dredging 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, Tarpon Cove Restoration Project, and the proposed Currie Park East Dredge Hole Restoration Project (ERP permit application #0423503-001 submitted 7/8/2022 for SLWI material disposal as beneficial reuse). Additional SPT borings were recently collected throughout the proposed expansion area to better characterize the underlying native rock formations, which will better-ensure fiscally accountable and capable contractors are selected during contracting and construction phase of the project.

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



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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.

FY2022 Design (75% cost share): Task 1542-9 plan development for sand trap expansion and dredging SAV and hardbottom surveys, and additional permit coordination with USACE. Task 1542-13 SPT borings and sediment sampling was recently completed Spring 2022 and the final report is anticipated shortly. Task 1542-10 includes plan development, surveys, and permit application support for the Currie Park Dredge Hole East Restoration Project (disposal site for non-beach compatible SLWI Sand Trap Expansion material).

FY 2022 Design (50% cost share): Task 1542-8 IMP adoption additional support from consultant during FDEP comment phase.

FY2023 Monitoring (50% cost share): 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 20/21, 21/22, and 22/23). 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
20/21						
20/21						
20/21						
21/22						
21/22						
21/22						



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Fiscal Year	Project Phase	Description	Federal Cost	State Cost	Local Cost	Total Cost
22/23	Design	1542-8 IMP adopt \$8,554		4,277	4,277	8,554
22/23	Design	1542-13 SPT's \$78,715; 1542-10 Currie \$96,680; 1542-9 continuing support \$92,345		200,805	66,935	267,740
22/23						
23/24	Monitoring	Turtles, aerial photos, beach profiles		50,000	50,000	100,000
23/24						
23/24						
24/25						
24/25						
24/25	Monitoring	Turtles, aerials, beach and ebb shoal surveys		57,500	57,500	115,000
25/26						
25/26						
25/26	Monitoring	Turtles, aerial photos, beach profiles		65,000	65,000	130,000
26/27						
26/27						
26/27	Monitoring	Turtles, aerial photos, beach profiles				
27/28						
27/28						
27/28						



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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:

97,389

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 on 3/31/21 by local stakeholders and the State. Palm Beach County submitted comments on final draft of Inlet Management Plan to State on 5/3/22.



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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
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, and Oyer Park (fka Boynton Beach 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			Ocean Ridge
2021	101,062		Total per method = '10-'21. Total bypass vol. (below) = '99-'21 & is detail'd in Attachment 4.	Ocean Ridge
Total per method	1,178,161	38,953		

Total bypass volume: 2,239,954 (1999-2021)

Years since IMP adoption: 23

Annual average bypass: 97,389

Bypass objective: 88,000

Percentage of bypass objective: 110.7%



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10. Increased bypassing and cost-effectiveness

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

0

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? **No**

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:

103,320

13. Active permits

Does the project have an active state permit? **Yes**

Permit number: 0117708-001-JC

Authorization date: 2-8-2001

Expiration date: 2-8-2026

Does the project have an active federal permit? **Yes**

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

Authorization date: 12-19-2012

Expiration date: 12-19-2022



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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 October 5, 2022.

Yes

Additional
comments

Attachment 1: Project Map
Attachment 2: Draft Resolution
Attachment 3: Palm Beach County Capital Improvement Plan FY2022
Attachment 4: Bypass Volumes for SLWI 1999-2021