



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

PART I: GENERAL INFORMATION

Local Sponsor	Town of Palm Beach		
Federal ID Number (FEID)	62-164-2142		
Primary Contact Name	Robert Weber	Title	Coastal Program Manager
Mailing Address Line 1	951 Okeechobee Road		
Mailing Address Line 2	Suite A		
City	West Palm Beach	Zip Code	33401
Telephone Number	561-838-5440		
Email Address	rweber@townofpalmbeach.com		

Additional Contact Information

Facsimile 561-835-4691

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

Robert Weber

Date Jul 30, 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)

Lake Worth Inlet Maintenance

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

Lake Worth Inlet (also known as Palm Beach Inlet) is a federally-authorized and maintained inlet located between FDEP Range Monuments R-75 and R-76 in Palm Beach County, Florida. A fixed Sand Transfer Plant (STP) was constructed on the north jetty in 1958. It was not operational between May 1990 and May 1996. The Lake Worth Inlet Management Plan was adopted in 1996. A subsequent sediment budget study was completed in 2000, recommending an annual bypassing objective of 202,000 cubic yards. The STP was reconstructed in 2010, replacing the diesel-powered pump with an electric pump. Storm conditions and mechanical issues periodically inhibit sand bypassing activities. The STP has not been able to pump at an increased capacity since its 2010 reconstruction due to a deficit of sand in the system. Federal maintenance dredging occurs every year to maintain required navigational clearances with placement of beach-compatible material on downdrift beaches when possible. Sand forepassing of inlet-dredged sand to dunes between R-78 and R82.2 in Reach 2 will be performed following the next dredging event with dry beach placement. Annual monitoring is conducted as required in the Beach Management Agreement.



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.

Funds requested for FY 2022/2023 will be used to reimburse the Town with eligible cost share funds (75%) with management of the Lake Worth Inlet.

Monitoring

The Town has agreed to conduct monitoring services pertaining to the Lake Worth Inlet Implementation Plan and the permit issued to the USACE as required by FDEP. The Town provides tilling services, escarpment removal services, and sea turtle nesting monitoring for the USACE, the permittee/authorized entity, for FDEP Permit No. 0216012-025-JC

Activities associated with the Lake Worth Inlet Maintenance Dredging project are also included in the Beach Management Agreement (BMA). As a BMA participant, the Town is required to perform annual biological and physical monitoring events. Annual BMA monitoring implementation occurs in the late summer months.

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 linear feet (R-76 to R-80+350)
(Extended area of 1,600 lf to R-82.2)

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						
21/22						
21/22						
22/23	Monitoring	IMP/BMA Physical, Sea Turtle, Bio., Tilling, and Escarpment Removal	0	513,000	171,000	684,000
22/23						
22/23						
23/24	Monitoring	IMP/BMA Physical, Sea Turtle, Bio., Tilling, and Escarpment Removal	0	519,000	173,000	692,000
23/24						
23/24						
24/25	Monitoring	IMP/BMA Physical, Sea Turtle, Bio., Tilling, and Escarpment Removal	0	527,250	175,750	703,000
24/25	Construction	Sand Forepassing	0	525,000	175,000	700,000
24/25						
25/26	Monitoring	IMP/BMA Physical, Sea Turtle, Bio., Tilling, and Escarpment Removal	0	535,500	178,500	714,000
25/26						
25/26						
26/27	Monitoring	IMP/BMA Physical, Sea Turtle, Bio., Tilling, and Escarpment Removal	0	558,000	186,000	744,000
26/27	Construction	Sand Forepassing	0	556,500	185,500	742,000
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:

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:

9. Balancing the sediment budget

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

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.



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	30,875	64,068		
2010	200,100	17,773		
2011	130,800	144,138		
2012	66,400	69,275		
2013	39,500	424,819		
2014	13,300	0		
2015	93,100	88,724		
2016	61,000	164,816		
2017	132,800	0		
2018	116,300	339,788		
2019	100,400	0		
2020	50,000	168,026		
Total per method	1,034,575	1,481,427		

Total bypass volume:

Years since IMP adoption:

Annual average bypass:

Bypass objective:

Percentage of bypass objective:



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:

100% of the bypassing objective is being and has been met.

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

100% of the bypassing objective is being and has been met.

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

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:

13. Active permits

Does the project have an active state permit?

Permit number:

Authorization date:

Expiration date:

Does the project have an active federal permit?

Permit number:

Authorization date:

Expiration date:



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.

Yes

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

The Corps funds the dredging efforts within the Lake Worth Inlet. The Town funds the monitoring and any Sand Forepassing efforts.