

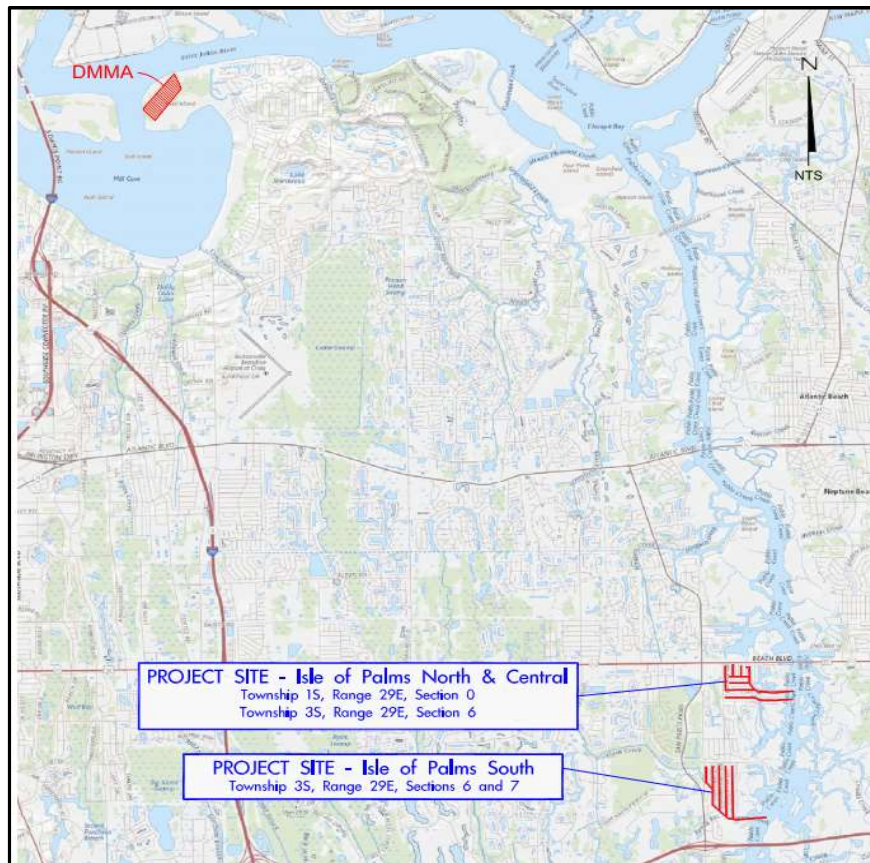
# Informational Fact Sheet for Bidders

## Isle of Palms Special District Dredging Project

Wood Environment and Infrastructure Solutions, Inc. (Wood) is pleased to provide contractors interested in bidding on the Isle of Palms Special District (District) Maintenance Dredging Project with the following informational fact sheet. Wood is the Engineer of Record for the project, with an office located in Jacksonville, FL. Wood's project approach to engineering the project is designed to ensure that the Isle of Palms project objectives are fully achieved and that the successful execution of maintenance dredging is useful and applicable to the District's future maintenance efforts.

### **Project Background:**

The District has a current federal permit, U.S. Army Corps of Engineers (USACE) File No. File No. SAJ-2003-10787 (SP-BAL) and a valid state exemption, Florida Department of Environmental Protection (FDEP) File No. 16-221376-002-EE, to dredge its approximately 30,000 linear feet of canals and channels located within Northern, Central, and Southern Isle of Palms Community. The District's waterways provide recreational boating access for Isle of Palms Community members to the Intracoastal Waterway.



### **Isle of Palms Dredging Project Objectives (completion to date):**

The general objectives of the entire project are to evaluate the best means to remove accumulated sediments and to improve visual aesthetics and to facilitate safe casual boating within the Isle of Palms District Waterways. The District is also concerned with achieving these objectives within the limits of regulatory restrictions and conditions.

The specific objectives of the dredging project, which were established in numerous District meetings, are as listed below. To date, the District has successfully completed all the items listed under **Preliminary Feasibility Assessment and Permitting** and **Final Planning, DMMA Selection, Design and Construction**.

#### ❖ **Project Limits and Goals**

- For permitting purposes, the District established the goals of the proposed dredging as:
  - Improvement of water quality
  - Enhancement of the natural system
  - Reestablishing navigation to all members serviced by the District
- For permitting purposes, the District established the limits of the project
  - The service area based on specific canals
  - The proposed depth and template configuration
  - District responsibilities for private docks and in-water structures

#### ❖ **Preliminary Feasibility Assessment and Permitting**

- Data collection
  - Sediment transport modeling
    - The District has elected not to pursue sediment transport modeling based on cost estimates provided by Wood's project manager, Joe Wagner.
  - Preliminary hydrographic surveys were performed by Arc Surveying & Mapping, Inc. (Arc Surveying) in 2005 and 2014.
    - Arc Surveying's February 2014 hydrographic survey estimated a preliminary dredging volume of approximately 34,500 cubic yards (cy) of material would need to be removed from the northern and central canal system, and 45,000 cy of material will need to be removed from the southern canal system.
  - A comprehensive hydrographic survey was performed by Arc Surveying in March 2018.
    - Arc Surveying's March 2018 hydrographic survey estimated a preliminary dredging volume of approximately 88,300cy of material will need to be removed from the northern and central canal system assuming that dredging will occur along the center of the channel only (35-feet) and to a depth of -5' Mean Low Water Datum (MLW) including overdredge.
  - There are no other ongoing data collection efforts for this project.
- Regulatory agency permitting
  - Federal - U.S. Army Corps of Engineers (USACE)
    - On January 19, 2016, based on the application provided by Wood's project manager Joe Wagner, the USACE granted an extension of the District's existing maintenance dredging permit. The permit, File No. SAJ-2003-10787 (SP-BAL), is valid through January 19, 2026. No further permitting related correspondence with the USACE is necessary with the exception of the use of the proposed disposal facility.
  - State - Florida Department of Environmental Protection (FDEP)
    - On May 23, 2014, based on the application provided by Wood's project manager Joe Wagner, the FDEP granted the exemption request, File No. 16-221376-002-EE. The FDEP permit language states that "This verification will expire after one year, and will not be valid at any other time if site conditions materially change, the project design is modified, or the statutes or rules governing the exempt activity are amended."



- Wood has coordinated with Aaron Sarchet of the FDEP, and he has indicated that because the project design has not materially changed and that the future work is maintenance only, no additional coordination is required with FDEP. No further permitting related correspondence with the FDEP is necessary with the possible exception of the use of most proposed disposal facilities.
- Dredging is permitted using either mechanical or hydraulic dredging methodology and disposal in an approved DMMA (discussed below).

❖ **Final Planning, DMMA Selection, Design and Construction**

- Wood has created plan Drawings based on:
  - An updated hydrographic survey performed by Arc Surveying and Mapping (March 2018)
- Dredged material management area (DMMA) review and selection
  - The Harbour Waterway Special District’s Reed Island Site has been identified as the DMMA for this project.
  - The Reed Island DMMA has a required site use fee, which the District will negotiate directly with the Harbour Waterway Special District
  - The Reed Island DMMA also requires sediment testing prior to dredging
- Wood has identified a dredge template (shown on the plan Drawings) based on a dredging depth of -4’ MLW with one (1) additional foot of overdredge depth, for a final target dredge depth of -5’MLW.
- The project dredge template has been set to include the center channel only (not bank to bank).
- Three (3) alternative dredge templates have been established.
- The District will require bidders to submit a cost for each of the three (3) alternative options in addition to the project dredge template.
- Calculated volumes for each alternative are presented below.

Isle of Palms Dredge Volume Estimate (CY)	
Dredging to -5' MLW	
PROJECT DREDGE TEMPLATE - Center Channel Only Dredge Volumes	
North & Central Channel (to -5' MLW)	39,699
South Channels (to -5' MLW)	48,646
<b>Total Center Channel Only Dredge Volume</b>	<b>88,300</b>
ALTERNATIVE 1 - Bank to Bank Dredge Volumes	
North & Central Channel (to -5' MLW)	90,091
South Channels (to -5' MLW)	99,197
<b>Total Bank to Bank Volume Estimate</b>	<b>189,300</b>
Isle of Palms Dredge Volume Estimate (CY)	
Dredging to -6' MLW	
ALTERNATIVE 2 - Bank to Bank Dredge Volumes	
North & Central Channel (to -6' MLW)	128,763
South Channels (to -6' MLW)	141,135
<b>Total Bank to Bank Volume Estimate</b>	<b>269,900</b>
ALTERNATIVE 3 - Center Channel Only Dredge Volumes	
North & Central Channel (to -6' MLW)	64,784
South Channels (to -6' MLW)	76,941
<b>Total Center Channel Only Dredge Volume</b>	<b>141,700</b>



**Additional Project Information:**

- Dredging activity near docks and seawalls will be coordinated with the individual owners. Wood will provide further details on this coordination. Dredge equipment buffers (5' – 10') from docks, seawalls, and structures will vary. All dredging activity will maintain buffers from natural resources as specified in permit authorizations.
- The selected contractor will have to comply with the Florida Fish and Wildlife Conservation Commission's standard manatee construction conditions for in-water work, sea turtle and smalltooth sawfish construction conditions, buffers from natural resources, and all other permit conditions.
- The selected contractor should plan to employ turbidity control measures throughout the project in conformance with conditions for turbidity and water quality, as specified by permit conditions. Additionally, the contractor should plan to conform to all turbidity sampling, continuous monitoring, and reporting conditions prescribed by the FDEP.

**Bidding Schedule:**

Isle of Palms Projected Project Schedule:

- (A) Draft bid package completed by **Friday, March 06**
- (B) Isle of Palms Special District review of bid documents completed by **Friday, March 27**
- (C) Final bid package completed by **Friday, April 17**
- (D) Bidding (45 days) starts on **Friday, May 15**
- (E) Non-Mandatory Pre-Bid Meeting on **Friday, May 29 @ 2:00 PM**
- (F) Bid Opening Date and Time on **Wednesday, July 08 @ 6:30 PM**
- (G) Contracting period starts on **Monday, July 13**

