DEPARTMENT OF THE ARMY PERMIT

Permittee: United States Navy
Attn: Commander Phillip Lavallee
Public Works Officer, Mayport Naval Station
Building 1966
Jacksonville, FL 32228-0067

Permit No: SAJ-2002-02052-(SP-BAL)

Issuing Office: U.S. Army Engineer District, Jacksonville

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: The permittee is authorized to biennially maintenance dredge approximately 1,500,000 cubic yards of dredged material from the eastern section of the turning basin, Mayport Entrance Channel and Bar Cut-3. The eastern section of the turning basin will be maintenance dredged to -50 feet (ft) Mean Lower Low Water (MLLW) (+2 ft allowable over depth). The Mayport Entrance Channel will be maintenance dredged to -50 ft MLLW (+2 ft advance maintenance dredge and an additional +2 ft allowable over depth) at Station (Sta.) 56+27.44 to Sta. 0+00. The Bar Cut-3 will be maintenance dredged to -50 ft MLLW (+2 ft advance maintenance dredge and an additional +2 ft allowable over depth) at Sta. 198+63.25 to Sta. 0+00. The work will be conducted by either using a cutter-suction, mechanical (excavator or clamshell) and/or hopper dredge. The dredged material will be transported and disposed of in the Jacksonville Ocean Dredged Material Disposal Site (ODMDS). The work described above is to be completed in accordance with the 4 pages of drawings affixed at the end of this permit instrument.

Project Location:

Maintenance Dredging Project Location: The project is located at the eastern section of the Mayport Turning basin, Mayport Entrance Channel and Bar Cut-3. These areas are generally located in Section 28, Township 1 South, Range 29 East, Mayport, Duval County, Florida.
Approximate Central Coordinates: Latitude: 30.39549°
Longitude: -81.40641°

Jacksonville ODMDS Location: The Jacksonville ODMDS is located in the Atlantic Ocean and is a 1 nautical mile (nmi) by 1 nmi square area. The site is approximately 4.5 nmi offshore.

The corners of the Jacksonville offshore site (NAD83) have been identified as:

- Northwest Latitude 30.3587°, Longitude -81.3093°
- Northeast Latitude 30.3587°, Longitude -81.2903°
- Southwest Latitude 30.3420°, Longitude -81.3093°
- Southeast Latitude 30.3420°, Longitude -81.2903°

Permit Conditions

General Conditions:

1. The time limit for completing the work authorized under Section 103 of the Marine Protection, Research and Sanctuaries Act ends on 17 July 2017. The time limit for completing the work authorized under Section 10 of the Rivers and Harbor Act ends on 17 July 2024. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature and the mailing address of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

**Special Conditions:**

1. **Commencement & Completion Notification:** The Permittee shall provide to the Corps a written notification of the date of commencement of work authorized by this permit at least 15 days before initiation of any dredging operations authorized by this permit and a completion notification no less than 15 days after the completion of the dredging operation. The notification should be sent to the Corps and to the U.S. Environmental Protection Agency (EPA) at: mcarthur.christopher@epamail.epa.gov. The Permittee shall reference in the subject line of the email the DA permit number, SAJ-2002-02052 (SP-BAL) and the type of dredge in the subject line and on all submittals. If a hopper dredge will be used send the Corps notification to the following email address: sajdredgenotice@usace.army.mil. The Permittee shall reference DA permit number, SAJ-2002-02052 (SP-BAL), ‘SARBO’, and include the type of dredge in the subject line of the email and on all submittals. The notification should be sent to the following email address if a cutter-suction, clamshell or other mechanical dredge equipment is used with a scow: CESAJ-ComplyDocs@usace.army.mil. The Permittee shall reference DA permit number, SARBO’, and include the type of dredge in the subject line of the email and on all submittals. Requests for documents, forms or information should also be submitted to the Corps at the email addresses.

2. **Concurrence:** The permittee acknowledges that authorization for transport of dredged material to the Jacksonville ODMDS is not valid until concurrency is granted from the U.S. Environmental Protection Agency.

3. **Cubic Yards of Dredged Material:** No more than 2,900,000 cubic yards of dredged material is authorized for disposal in the Jacksonville ODMDS under the three-year life of the 103 permit unless the Jacksonville ODMDS is expanded or the site capacity revised (This volume includes the dredge volumes for the other Mayport (non-50 foot project) that is inclusive of 329,800 cubic yards of dredged material that was disposed in 2013 and the potential 400,000 cubic yards in 2015).

4. **Loss of Material:** This permit does not authorize excessive leakage, overflow, or spill out of barges, dump scows, or hopper dredges of water and excavated material
while en route to the Jacksonville ODMDS Release Zone. Failure to repair leaks or change the method of operation which is resulting in the leakage, overflow, or spillage will result in suspension of dredging operations and require prompt repair or change of operation to prevent overflow, leakage, or spillage as prerequisite to the resumption of dredging. Excessive leakage is defined by average loss of draft during transit from the dredging area to the disposal area (forward draft loss plus aft draft loss divided by 2) in excess of 18 inches. Once excessive leakage is discovered, it shall be reported immediately as directed in special condition 7 below.

5. Disposal Zone: The Permittee shall ensure that disposal initiation occurs while the hopper dredge or disposal barge or scow is completely inside the boundaries of the disposal release zone. The boundaries of the release zones are defined in Special Condition 6.

   a. The Permittee shall ensure the hopper dredge, disposal barge or scow doors shall be in the closed position and all discharge of material has ceased before the disposal vessel leaves Jacksonville ODMDS boundary.

   b. The Permittee shall ensure that dredged material shall be placed such that at no point will depths less than -25 feet MLLW occur. (i.e., a clearance of 25 feet above the bottom will be maintained).

6. Restricted Disposal Area: There are two scenarios in which the dredged material is authorized for disposal at the Jacksonville ODMDS. They include a large load release zone (Scenario 1) and restricted dredged material disposal volumes (Scenario 2) that are depicted on page 4 of the drawings.

Disposal Scenario 1: Maximum Disposal Volume with Restricted Disposal Area (LARGE LOAD RELEASE ZONE)

The Permittee shall provide EPA the ebb tide periods at least 30 days before initiation of dredging operations using Disposal Scenario 1 or Large Load Release Zone.

Single load volumes of dredged material greater than or equal to the volumes given in Table 2 can be disposed ONLY in a restricted disposal release zone referred to as "Large Load Disposal Release Zone" during ebb tide only. Large Load Release Zone coordinates are given in Table 1.
Table 1. Disposal Scenario 1, disposal release zone coordinates for no load volume restrictions (LARGE LOAD RELEASE ZONE).

<table>
<thead>
<tr>
<th></th>
<th>Geographic (NAD83)</th>
<th>State Plane (FL East 0901 Ft NAD83)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NW Corner</td>
<td>30.355824° -81.307661°</td>
<td>2189465.4 N 559129.8 E</td>
</tr>
<tr>
<td>NE Corner</td>
<td>30.355824° -81.298064°</td>
<td>2189457.4 N 562156.7 E</td>
</tr>
<tr>
<td>SW Corner</td>
<td>30.352990° -81.307661°</td>
<td>2188435.0 N 559127.0 E</td>
</tr>
<tr>
<td>SE Corner</td>
<td>30.352991° -81.298064°</td>
<td>2188427.0 N 562154.0 E</td>
</tr>
</tbody>
</table>

Disposal Scenario 2: Dredged material disposal volumes restrictions

Single load volumes of dredged material less than the volumes given in Table 2 can be disposed in the disposal release zone. (This release zone is the same as given in the Jacksonville ODMDS Site Management and Monitoring Plan 2010 revisions.) Coordinates for this release zone are given in Table 3 below.

Table 2. Disposal Scenario 2 – maximum per load disposal volumes per dredge type.

<table>
<thead>
<tr>
<th>Dredging Area</th>
<th>Maximum Disposal Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hopper</td>
</tr>
<tr>
<td>Turning Basin (50' depth)</td>
<td>8,500 cubic yards</td>
</tr>
<tr>
<td>Mayport Entrance Channel</td>
<td>9,000 cubic yards</td>
</tr>
</tbody>
</table>

Table 3. Disposal Scenario 2 - Disposal Release Zone coordinates for load volume restrictions.

<table>
<thead>
<tr>
<th></th>
<th>Geographic (NAD83)</th>
<th>State Plane (FL East 0901 Ft NAD83)</th>
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<tr>
<td>NW Corner</td>
<td>30.355824° -81.307661°</td>
<td>2189465.4 N 559129.8 E</td>
</tr>
<tr>
<td>NE Corner</td>
<td>30.355824° -81.291942°</td>
<td>2189452.4 N 564087.7 E</td>
</tr>
<tr>
<td>SW Corner</td>
<td>30.344656° -81.307661°</td>
<td>2185404.0 N 559118.8 E</td>
</tr>
<tr>
<td>SE Corner</td>
<td>30.344656° -81.291941°</td>
<td>2185390.9 N 564077.3 E</td>
</tr>
</tbody>
</table>
7. Disposal Operations Compliance: The Permittee shall ensure the vessel(s) used to transport dredged material to the Jacksonville ODMDS complies with the disposal operation conditions defined in the permit. If a violation occurs: a) the permittee shall report the violation to the contracting officer’s representative immediately at (904) 232-2086 and to EPA’s Ocean Dumping Coordinator immediately at (404) 562-9391. b) written notification including a narrative description of the violation shall be emailed to the Corps at CESAJ-ComplyDocs@usace.army.mil and to the U.S. Environmental Protection Agency at: mcarthur.christopher@epamail.epa.gov within twenty-four (24) hours after the violation occurs. The Permittee shall reference in the subject line of the email the DA permit number, SAJ-2002-02052 (SP-BAL) and the type of violation.

8. Electronic Tracking System: The Permittee shall use an electronic tracking system (ETS) to provide surveillance of the transportation and disposal of dredged material. The Permittee shall provide electronic data to the Corps and EPA on a weekly basis. The data shall be submitted as an eXtensible Markup Language (XML) document via Internet e-mail to Disposa1Data.R4@epa.gov. XML data file format specifications are available from EPA Region 4. The ETS will be maintained and operated to continuously track the horizontal location and draft condition (accuracy ± 0.1 foot) of the disposal vessel (i.e. hopper dredge or disposal scow) from the point of dredging to the disposal site and return to the point of dredging. Data shall be collected at least every 0.25 nautical mile or every 4 minutes during travel to and from the ODMDS and twelve seconds or every 30 feet of travel, while the hull status is open within the ODMDS. In addition to the continuous tracking data, the following trip information shall be electronically recorded for each disposal cycle:

   a. Load Number
   b. Disposal Vessel Name and Type (e.g. scow)
   c. Estimated Volume of Load
   d. Description of Material Disposed
   e. Source of Dredged Material
   f. Date, Time and Location at Initiation and Completion of Disposal Event

It is expected that disposal monitoring will be conducted utilizing the Dredge Quality Management (DQM) system for Civil Works projects [see http://dgm.usace.army.mil/Specifications/Index.aspx], although other systems are acceptable. Disposal monitoring and ETS data will be reported to the EPA utilizing the XML specification and protocol.

9. Bathymetric Survey ODMDS: The Permittee shall conduct a bathymetric survey of the Jacksonville ODMDS within 60 days following project completion in accordance with the following:
a. The number and length of the survey transects shall be sufficient to encompass the Jacksonville ODMDS and a 500-foot-wide area around the site. The transects shall be spaced at 500-foot intervals or less.

b. Vertical accuracy of the survey shall be +/-0.5 feet. Horizontal location of the survey lines and depth sounding points will be determined by an automated positioning system utilizing either microwave line of site system or differential global positioning system. The vertical datum shall be mean lower low water (MLLW and the horizontal datum shall use Florida State Plane or latitude and longitude coordinates (North American Datum 1983). State Plane coordinates shall be reported to the nearest 0.10 foot and latitude and longitude coordinates shall be reported as decimal degrees to 6 decimal points.

10. Post-Disposal Data: The Permittee shall submit Post-Disposal Data to the Corps and EPA at the address referenced in the Reporting Addresses Special Condition above documenting compliance with all general and special conditions defined in this permit. The Post-Disposal Data shall be sent within 90 days after completion of the disposal operations authorized by this permit. The Post-Disposal Data shall include the following information:

   a. The report shall indicate whether all general and special permit conditions were met. Any violations of the permit or the general and special conditions shall be explained in detail.

   b. The Disposal Summary Report shall include the following information: dredging project title; dates of disposal; permit number and expiration date; name of contractor conducting the work; name and type of vessel(s) disposing material in the ODMDS; disposal timeframes for each vessel; volume disposed at the ODMDS (as paid in situ volume, total paid and un paid in situ volume, and gross volume reported by dredging contractor); number of loads to ODMDS; type of material disposed at the ODMDS; identify any misplaced material (outside disposal zone or the ODMDS boundaries) and associated impacts; dates of post-disposal bathymetric surveys of the ODMDS; and a narrative discussing any violation(s) of the 103 permit (if applicable). The disposal summary report shall be accompanied by the bathymetry survey results (plot and X, Y, Z, ASCII data file). This narrative shall include a description of the violation, indicate the time it occurred and when it was reported to the EPA, discuss the circumstances surrounding the violation, and identify specific measures taken to prevent reoccurrence.

11. Site Management and Monitoring Plan: The Permittee shall comply with the conditions of the current Jacksonville ODMDS Site Management and Monitoring Plan, and any revisions. The current 2007 SMMP with 2010 revisions can be found at the following web address: http://www.epa.gov/region4/water/oceans/sites.html.
12. Bathymetric Survey Dredged Area: The Permittee shall conduct a bathymetric survey of the project area within 60 days following project completion and submit the survey to the Corps. The Permittee shall include information on the total volume of dredged material with the survey and the type of dredged vessel used to conduct the work. The information shall be sent to the Corps in the address listed in special condition 1 above.

13. Regional Biological Opinion: Dredging is approved under the current National Marine Fisheries Service (NMFS) South Atlantic Regional Biological Opinion (SARBO) and its references that include the SARBO Management Protocols which can be viewed on the following web site: http://el.erdc.usace.army.mil/seaturtles/refs-bo.cfm or the Corps website: http://www.saj.usace.army.mil/About/DivisionsOffices/Planning/EnvironmentalBranch/EnvironmentalDocuments.aspx#District_Wide. The permittee is responsible for obtaining and complying with the SARBO. If the permittee is unable to view the SARBO at this website the permittee shall contact the Corps to receive a copy of the SARBO. NMFS has issued the SARBO to the Corps of Engineers for hopper dredge projects that limit the take of listed turtles, sturgeon, and any other species listed in the SARBO. Authorization under this DA permit is conditional upon compliance with all of the mandatory terms and conditions associated with the SARBO, which terms and conditions are incorporated by reference in this DA permit. Failure to comply with the terms and conditions associated with the SARBO, where a take of the listed species occurs, would constitute non-compliance with this DA permit. Failure to comply with this DA permit will be the basis for suspension and revocation of this DA permit and may be the basis for other enforcement action. NMFS has directed that this SARBO issued to the Corps serve as the formal consultation for all hopper dredge projects in the area covered by the SARBO however, where the terms and conditions of the SARBO differ from the Special Conditions of this DA permit, the Special Conditions of this DA permit will take precedence as the more stringent condition.

a. Incidental Take Statement: This DA permit does not authorize the Permittee to take an endangered species, in particular sea turtles, sturgeon, or any other endangered species listed in the SARBO. The SARBO includes an Incidental Take Statement (ITS) issued to the Corps.

(1) The Permittee understands and agrees that, even where it is in full compliance with the terms and conditions of the SARBO ITS and this DA permit, incidental take by the Permittee or other hopper dredging operations within the area covered by the SARBO may result in suspension or modification of this DA permit by the Corps. The amount of incidental take that will trigger suspension, and the need for any such
suspension, shall be determined at the discretion of the Corps. The Permittee understands and agrees on behalf of itself, its agents, contractors, and other representatives, that no claim, legal action in equity or for damages, adjustment, or other entitlement against the Corps shall arise as a result of such suspension or related action.

(2) The Permittee shall immediately cease all hopper dredging operations and notify the Corps upon discovery of an incidental take of a sea turtle or sturgeon. The Permittee shall not resume hopper dredging until notified by the District Engineer, or his designee. The Sea Turtle Incidental Take Data form which is located at the following web site under the heading "Turtle Information" Observer Forms: http://el.erdc.usace.army.mil/seaturtles will be filled out by the Observer and shall be submitted to the Corps with photographic documentation within 24 hours of the take event.

b. Endangered Species Observers: During dredging operations, NMFS approved endangered species observers (Observer) shall be aboard each hopper dredge to monitor for the presence of endangered species including sea turtles, sturgeon, whales and manatees. Observers shall perform their observations 24hr/day and every day during dredging operation.

(1) During transit to and from the disposal area, the Observer shall monitor from the bridge during daylight hours for the presence of endangered species, especially the Northern right whale, during the period December through March.

(2) During dredging operations, while dragheads are submerged, the Observer shall continuously monitor the inflow and/or overflow screening for turtles and/or turtle parts and sturgeon and/or sturgeon parts.

(3) Upon completion of each load cycle, dragheads should be monitored as the draghead is lifted from the sea surface and is placed on the saddle in order to assure that sea turtles that may be impinged within the draghead are counted and recorded. The Observer shall physically inspect dragheads and inflow and overflow screening/boxes for threatened and endangered species take. The Observer shall identify, count and record sea turtle or sturgeon parts during the inspection of the inflow and overflow screening/boxes. All debris shall be removed from the screening/boxes after the inspection is complete so as not to impede the functioning of the screens during the next load cycle.

(4) The Observer shall maintain a log detailing all incidents, including sightings, collisions with, injuries to, or killing of endangered species during dredging operations. The data shall be recorded daily on the Observer forms which are located at the
following web site under the heading "Turtle Information": http://el.erdc.usace.army.mil/seaturtles. If the permittee is unable to view the Observer forms at this website the permittee shall contact the Corps to receive a copy of the Observer forms. Completed observer forms shall be submitted to the Corps at the end of each day as identified in the reporting special condition. A Summary Report of the above incidents and sightings shall be submitted to the Corps within 15 days of project completion.

c. **Observer Equipment:** The Permittee shall provide a digital camera, with an image resolution capability of at least 300 dpi, in order to photographically report all incidental takes, without regard to species, during dredging operations. Immediately following the incidental take of any threatened or endangered species, images shall be submitted to the Corps in a .JPG or .TIF format and shall accompany incidental take forms. The nature of findings shall be fully described in the incidental take forms including references to photographs.

d. **Sea Turtle Trawling:** Sea turtle trawling shall be conducted following the take of two sea turtles, without regard to species, and continue until the end of dredging or as directed by the Corps. Trawling shall be conducted in accordance with the attached Sea Turtle Trawling requirements. Hopper dredging shall not resume until trawling has been initiated and until notified by the District Engineer, or his designee. The results of each trawl shall be recorded on the Sea Turtle Trawling Report which are located at the following web site under the heading "Turtle Information": http://el.erdc.usace.army.mil/seaturtles. If you are unable to view the Trawling Report forms at this website you must contact the Corps to receive a copy of the forms. Interim trawling reports shall be submitted to the Corps by the end of each day. A final trawling report shall be prepared and submitted to the Corps after the completion of all trawling efforts. The final trawling report shall summarize the results of the trawling including total trawling times, number of trawls and number of captures. Any turtles captured during trawling shall be immediately released.

14. **Hopper Dredging Conditions:**

   a. **Deflector Device Submittal:** No dredging shall be performed by a hopper dredge without the inclusion of an approved rigid sea turtle deflector device. The Permittee shall ensure that drawings of the proposed sea turtle deflector device and the Hopper Dredge Deflector Device Checklist (Attachment) are complete and all required documentation submitted to the Corps, at least 10 days prior to initiating the authorized work. The Permittee shall not commence hopper dredging until approval of the sea turtle deflector device has been granted by the Corps. A copy of the approved drawings, calculations and signed Hopper Dredge Deflector Device Checklist form shall be available on the vessel during dredging operations.
b. **Commencement Notification:** Within 3 days from the date of initiating the authorized work, the Permittee shall provide to the Corps, the completed Hopper Dredge Startup Inspection Checklist (Attachment) with a written notification of the date of commencement of work authorized by this DA permit. An inspection of the hopper dredge will be scheduled and performed by the Corps after receipt of the notification of commencement.

c. **Pre-Dredging Inspection Submittal:** The Permittee shall submit the completed Hopper Dredge Pre-Dredge Inspection Checklist (Attachment) to the Corps, at least 5 days prior to initiating the authorized work.

15. **Manatee Conditions:**

   a. The Permittee shall comply with the “Standard Manatee Conditions for In-Water Work - 2011” attached to the permit.

   b. **Mooring Fenders or Buoys:** The Permittee shall install and maintain mooring fenders or buoys to provide sufficient standoff space of at least four feet (under maximum compression) between vessels and bulkheads, and also between two vessels that are moored together (such as, but not limited to, the mooring of the scow and dredge barges) to prevent the crushing of a manatee.

16. **Clamshell Conditions:**

   a. **Manatee & Marine Turtles:** All in-water operations, including vessels, will be shutdown if a manatee(s) or marine turtle(s) comes within 50 feet of in-water operations. Observers will notify the operators if manatees or marine turtles enter within the designated safety distances. Activities will not resume until the manatee(s) or marine turtle(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) or marine turtle(s) has not reappeared within 50 feet of the operation. Animals will not be herded away or harassed into leaving. All contracted workers and observers will be provided a copy of these special conditions related to maintenance dredging work.

   b. **Clamshell Operations:** During clamshell operations, the dredge operator will gravity-release the clamshell bucket beginning at the water's surface, and only after confirmation that there are no manatees or marine turtles within the 50-foot safety distance identified in the standard conditions. In order to better observe manatees and marine turtles during nighttime clamshell operations, the Permittee will use lights to illuminate the water surface within 100 feet of the operation hoist line (cable attached to bucket). The lights shall be shielded and directed such that they are not visible from the beaches north and south of the work area. An assessment of such lighting will be made.
prior to the beginning of nighttime operations to ensure that it complies with the above requirements. No night-time operations will commence or continue if the lighting is not in compliance with the preceding requirements.

c. Observers:

(1) The Permittee shall ensure that when in-water work is being performed or vessels are moving, at least one person will be designated as protected marine animal observer. For clamshell operations, that observer shall be stationed in a position to clearly observe the point of entry and exit of the clamshell bucket, as well as the waters surrounding that operation to a radius of 100 feet around the bucket entry/exit point.

(2) Only individuals having previous, multiple on-water experiences serving as dedicated, protected marine animal observers during daytime and nighttime dredging operations, including clamshell dredging, shall serve in this capacity for the proposed work. The Permittee shall retain a record that includes proof of the observer’s qualifications, such as, the observer’s name, project title and location, and dates per project serving as dedicated observers and is available when requested. The protected marine animal observers will be on site during all in-water construction activities and will advise personnel to cease operation upon sighting a manatee or marine turtle within 50 feet of any in-water construction. Observers will be equipped with binoculars and polarized sunglasses to assist with observations during daylight operations. If the dedicated observers determine that detection of manatees during certain weather conditions (i.e. fog, rain, wind, etc.) is not possible, the Permittee will cease operation until weather conditions improve and detection is again possible. The observers will record all bad weather conditions and any issues of non-compliance on their logs.

d. Reporting:

(1) Any collision with or injury to a manatee will be reported immediately to Florida Fish and Wildlife Conservation Commission’s (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service (USFWS) in Jacksonville (1-904-731-3336) and to FWC at ImperiledSpecies@myFWC.com.

(2) No later than 15 calendar days prior to the commencement of each dredging event, notification of the actual start date and expected completion date, as well as the names, contact information, and experience of the selected observers will be sent to the USFWS at the address provided below.

(3) All observers will maintain a daily log that details sightings, collisions, or injuries to protected marine animals, as well as project specific information such as work
itinerary, weather, work shutdowns, observer shift changes, etc. In regard to manatee behavior, the observers will also log time of observation, estimated distance of manatees from the dredge, type of behavior (such as passing through, pausing in the vicinity of the project, interacting with the dredge, scows, tugs, etc., attracted to running or dripping water), the detection method (i.e. unaided visual, spotlight, etc.) and whether the dredge is operating at the time of observation. A final report for each dredging event will be written, summarizing all activities noted in the daily observer logs, the location and name of project, and the dates and times of work. The lead observer will ensure that the logs and report will be submitted within 30 days following project completion to the USFWS at the following address: Field Supervisor, U.S. Fish and Wildlife Service 7915 Baymeadows Way, Suite 200, Jacksonville, FL 32256-7517, (Attn: John Milio)

**e. Lighting:** The Permittee shall ensure that from May 1 through October 31, all project lighting will be limited to the immediate area of active construction/transportation only and will be the minimal lighting necessary to comply with U.S. Coast Guard, USACE and/or OSHA requirements. The contractor shall use low pressure sodium lighting to the maximum extent consistent with the above requirements. Such lighting, whether direct or indirect, shall not be visible from the beaches north and south of the work area. Aerial illumination (Sky glow) also shall be reduced to the maximum extent consistent with the above requirements.

**Further Information:**

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

   (x) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

   ( ) Section 404 of the Clean Water Act (33 U.S.C. 1344).


2. Limits of this authorization.

   a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.

   b. This permit does not grant any property rights or exclusive privileges.

   c. This permit does not authorize any injury to the property or rights of others.
d. This permit does not authorize interference with any existing or proposed Federal projects.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant’s Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures
ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions: General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

(PERMITTEE)

(DATE)

PHILLIP M. LAVALLE
(PERMITTEE NAME-PRINTED)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

(DISTRICT ENGINEER)

Alan M. Dodd,
Colonel, U.S. Army
District Commander

(DATE)
When the structures or work authorized by this permit are still in existence at the time
the property is transferred, the terms and conditions of this permit will continue to be
binding on the new owner(s) of the property. To validate the transfer of this permit and
the associated liabilities associated with compliance with its terms and conditions, have
the transferee sign and date below.

(TRANSFEREE-SIGNATURE) (DATE)

(NAME-PRINTED)

(ADDRESS)

(CITY, STATE, AND ZIP CODE)
Attachments to Department of the Army
Permit Number SAJ-2002-02052(SP-BAL)

1. PERMIT DRAWINGS: 4 pages, dated June 11, 2014

2. MANATEE CONDITIONS: 2 pages, Standard Manatee Conditions for In-Water Work – 2011

3. HOPPER DREDGING ATTACHMENTS: 4 Attachments (Hopper Dredge Deflector Device Checklist, Hopper Dredge Pre-Dredge Inspection Checklist, Hopper Dredge Startup Inspection Checklist, and Sea Turtle Trawling Requirements)
DREDGE AREA LEGEND

- PROJECT DREDGING AREA
- 50' FT PLUS 2'FT ALLOWABLE OVERDEPTH
- 2' FT ADVANCE MAINTENANCE ZONE

PROJECT DREDGING AREA

50' FT ALLOWABLE OVERDEPTH
2' FT ADVANCE MAINTENANCE ZONE

IN-WATER BOUNDARY POINTS OF TURNING BASIN DREDGING AREA

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NOTE: COORDINATES ARE IN NAD83 FEET FLA. STATE PLANE EAST

U.S. ARMY CORPS OF ENGINEERS
SAJ-2002-02052(SP-BAL)
U.S. Navy - Mayport
PAGE 2 OF 4 11 June 2014
NOTES:
1. MAXIMUM ALLOWABLE HEIGHT OF DREDGED MATERIAL PLACEMENT IS -25 FT MLW.
3. DEPTHS ARE IN FEET AND TENTHS AND REFER TO THE NOAA REPORTED MEAN LOWER LOW WATER (MLLW) TIDAL DATUM RELATIVE TO THE 1983-2001 TIDAL EPOCH.
4. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83).

ODMDS BOUNDARY

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LARGE LOAD RELEASE ZONE BOUNDARY

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The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.

b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.

d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.

e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at ImperiledSpecies@myFWC.com

f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads Caution: Boaters must be posted. A second sign measuring at least 8 ½” by 11” explaining the requirements for “Idle Speed/No Wake” and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at MyFWC.com/manatee. Questions concerning these signs can be sent to the email address listed above.
CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:

Wildlife Alert:
1-888-404-FWCC(3922)
cell *FWC or #FWC
HOPPER DREDGE STARTUP INSPECTION CHECKLIST

Dept. of the Army Permit Number: SAJ-________-__________

Project Name: ____________________________________________________________

Project Location: __________________________________________________________

Dredging Company Name (Contractor): _______________________________________

Vessel Name: _______________________________________________________________

Inspector’s Name and Title: _________________________________________________

Date of Inspection: _________________________________________________________

Dredging contractor startup dredge inspection requirements:

1. _____ Is the Turtle Deflector Device submittal approved?
2. _____ Is the approved Turtle Deflector Device submittal being used to perform this startup-
dredge inspection?
3. _____ Are the turtle observers onboard the vessel during dredging operations?
4. _____ Is dredging data recording system (DQM/Silent Inspector) turned on and recording
   draghead elevation, slurry density & velocity and is data being submitted?
5. _____ Was a paint test performed to assure the deflector is plowing at least 6” into the dredge
   material while the dragtender is consistently maintaining the submitted and approved
   approach angle to a tolerance of + 0 to – 4 degrees.
   DATE: _______________, TIME: _______________

6. _____ Is the drag tender operating the dredge pump in accordance with the Hopper Dredging
   Terms and Conditions as follows:
   a. _____ Starting the dredge pump only when the draghead is firmly on the bottom by
      watching the slurry specific gravity & swell compensator.
   b. _____ Reducing the slurry velocity to less than 5 feet per second by reducing the
      dredge pump RPM to idle speed before raising the draghead off the bottom.
      Raising the draghead off the bottom to increase suction velocities is strictly
      prohibited.
   c. _____ Consistently maintaining the approach angle to a tolerance of + 0 to – 4
      degrees whenever the draghead is on the bottom and the dredge pump is
      operating.
d. Watch the dragtender through one cycle minimum to see if the draghead is being raised off the bottom because:
   i. Plugging of the draghead.
   ii. Ship crabbing.
   iii. Draghead tracking under or away from the dredge.

COMMENTS: ____________________________
____________________________________
____________________________________
____________________________________
____________________________________
____________________________________
____________________________________
____________________________________
____________________________________

(Dredging Contractor Signature)   (Date)
HOPPER DREDGE PRE-DREDGE INSPECTION CHECKLIST

Dept. of the Army Permit No.: SAJ-_______-__________

Project Name: ____________________________________________________________

Project Location: __________________________________________________________

Dredging Company Name (Contractor): _______________________________________

Vessel Name: ______________________________________________________________

Inspector's Name and Title: _________________________________________________

Date of Inspection: _____________________________

Dredging contractor pre-dredge inspection requirements:

1. _____ Has the dredging contractor read the Department of the Army Permit to determine the permit requirements for the protection of endangered sea turtles?

2. _____ Is a copy of the Department of the Army permit on board the vessel?

3. _____ Has the dredging contractor reviewed the applicable Biological Opinion located at: http://el.erdc.usace.army.mil/seaturtles/refs-bo.cfm

4. _____ Has the Turtle Deflector Device been approved by the Corps? (Dredging shall not start until the Turtle Deflector Device is approved and the Initial Hopper Dredge Submittal form has been signed by the Corps).

5. _____ Is a copy of the approved Turtle Deflector Device submittal on board the vessel?

6. _____ Is the approved Turtle Deflector Device submittal being used to perform this pre-dredge inspection?

7. _____ Is the Turtle Deflector Device that is on the dredge the same as the approved submitted Turtle Deflector Device?

8. _____ Is the Turtle Deflector Device structurally sound?

9. _____ Is the leading edge angle of the Turtle Deflector Device 90 degrees or less.

10. _____ Is the forward vertical face of the Turtle Deflector Device a minimum of 15" tall?

11. _____ Are the approach angles submitted for this project dredging depths.

12. _____ Are the opening between Turtle Deflector Device and draghead no more than 4"X4"?

13. _____ Is the aft deflector attachment to the draghead rigid (hinged or trunnion)?

14. _____ Is the forward deflector attachment link length measurement the same length as shown on the approved Turtle Deflector Device submittal for this project dredging depth and project approach angle?
15. _____ Are inflow screens and overflow screens installed?
16. _____ Are inflow basket screen openings no more than 4"X4"?
17. _____ Is there adequate lighting of inflow and overflow screens and proper access for cleaning.
18. _____ Is turtle trawling required by the DA permit?
19. _____ Is the dredging data recording system (DQM/Silent Inspector) operational and the certification current?

COMMENTS: __________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

I certify that the above components are properly installed and operational in accordance with the SARBO and the DA permit for the referenced project.

(Dredging Contractor Signature) __________________________ (Date)
HOPPER DREDGE DEFLECTOR DEVICE CHECKLIST

Dept. of the Army Permit Number: SAJ-________ - ________

Project Name: ____________________________________________

Project Location: __________________________________________

Dredging Company Name (Contractor): _________________________

Vessel Name: ______________________________________________

1. ______ Dredging contractor has received a copy of and read the Dept. of the Army Permit for this project.

2. ______ Permittee and dredging contractor has reviewed the applicable Biological Opinion located at: http://el.erdc.usace.army.mil/seaturtles/refs-bo.cfm

3. ______ Dredging depth(s) for the project:
   
   Starting Depth(s): _________________________________________

   Final Depth(s): ____________________________________________

4. ______ Turtle Deflector Device Submittal. Attach a detailed drawing showing structural design and soundness (see attached example drawing) of the Sea Turtle Deflector Device.

   The drawing shall include the following information:
   
   a. ______ Deflector leading edge angle (90 degrees or less).
   
   b. ______ Forward vertical face measurement of the deflector (minimum height of 15").
   
   c. ______ The approach angle(s) for this project dredging depths.
   
   d. ______ The opening between deflector and draghead (maximum of 4"x4").
   
   e. ______ The aft rigid deflector attachment to the draghead (hinged or trunnion).
   
   f. ______ The forward deflector attachment link length described for the project dredging depths and project approach angles.
Hopper dredging shall not commence until this submittal is approved and signed by the Corps:

(District Engineer) (Date)
Sea Turtle Trawling Requirements - Non-Capture

a. To reduce the chances of sea turtles becoming entangled and caught in the net webbing during non-capture trawl sweeping, use standard flat-style shrimp trawling nets. Nets shall have one to two-inch webbing holes, the webbing should be made of nylon material (preferably dipped.)

b. The bag end of these nets shall be completely cut out so that the nets remaining on the rigging are approximately 30 to 50-feet long. The nets shall be long enough to provide a trailing length of net in the water to “stimulate turtles” to move but not be long enough to be able to twist when: 1) being pulled in the water; 2) being pulled up and onto the deck; 3) the vessel is stationary; or 4) the trawl vessel turns while trawling. This net length may be shorter or longer depending on the specific configurations of the trawler and its rigging, but must be set up to specifically prevent the twisting of the net. The nets should be installed and adjusted such that organisms are not being collected (turtles and other by-catch).

c. The bag end of the nets shall be cut away to create a large open end in the nets. The webbing shall be monitored so that tears and rips do not occur in the remaining webbing that might entangle and capture organisms (particularly turtles).

d. To ensure that the lead line and mouth of the trawl nets maintain contact with the seafloor as best as possible, the lead line of each net shall be rigged with weights, mud rollers, tickler chains and/or trawling cookies (as appropriate for the environmental conditions and sediment type).

e. For the first 48 hours after beginning non-capture trawling operations, pull and check the nets every hour to evaluate and document the:
   - Status of the nets (particularly twisting of the tail end)
   - Net contents (turtles and other bycatch)

After the first 48-hours and appropriate net configuration has been established, gradually increase trawling times to a maximum of 2-3-hours.