DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P.O. BOX 4970
JACKSONVILLE, FLORIDA 32232

REPLY TO
ATTENTION OF

CESAJ-RD-NJ (1145)

1 September 2016

MEMORANDUM FOR Commander, United States Navy, Naval Station, Mayport, FL 32228

SUBJECT: Department of the Army Permit Number SAJ-2002-02052 (SP-SCW)

1. The U.S. Army Corps of Engineers (Corps) has completed the review and evaluation of your modification request received on June 24, 2016. You requested a singular authorization under Section 10 of the Rivers and Harbors Act for work authorized by two Department of the Army (DA) permits numbered SAJ-2002-02052 dated June 28, 2013 and July 17, 2014, respectively. The DA permit dated June 28, 2013, and expiring June 28, 2023, authorized the United States Navy (Navy) to biennially maintenance dredge 400,000 cubic yards of dredged material within the western section of the turning basin (-42 feet (ft) Mean Lower Low Water (MLLW) plus 2 ft allowable over depth), the destroyer slip (-35 ft MLLW plus 2 ft allowable over depth) and the emergency boat basin (-27 ft MLLW plus 2 ft allowable over depth) at Naval Station Mayport. The DA permit dated July 17, 2014, and expiring July 17, 2024, authorized the Navy to biennially maintenance dredge approximately 1,500,000 cubic yards of dredged material from the eastern section of the turning basin (-50 ft MLLW plus 2 ft allowable overdredge), Mayport Entrance Channel (-50 ft MLLW plus 2 ft advanced maintenance dredge and 2 ft allowable over depth at Station (STA) 56+27.44 to STA 0+00) and Bar Cut-3 (-50 ft MLLW plus 2 ft advanced maintenance dredge and 2 ft allowable over depth at STA 198+63.25 to STA 0+00) at Naval Station Mayport. Pursuant to Section 103 of the Marine Protection Research and Sanctuaries Act (MPRSA), the dredged material is authorized to be transported and disposed of in the Jacksonville Ocean Dredged Material Disposal Site (ODMDS). Additionally, you requested a singular concurrence under Section 103 under the MPRSA associated with the DA permits. Previous Section 103 concurrences were granted on June 23, 2013 and July 17, 2014.

2. The proposed modification would result in a singular DA permit authorizing the Navy to biennially maintenance dredge 400,000 cubic yards of dredged material within the western section of the turning basin (-42 feet (ft) Mean Lower Low Water (MLLW) plus 2 ft allowable over depth), the destroyer slip (-35 ft MLLW plus 2 ft allowable over depth) and the emergency boat basin (-27 ft MLLW plus 2 ft allowable over depth) and 1,500,000 cubic yards of dredged material from the eastern section of the turning basin (-50 ft MLLW plus 2 ft allowable overdredge), Mayport Entrance Channel (-50 ft MLLW plus 2 ft advanced maintenance dredge and 2 ft allowable over depth at Station (STA) 56+27.44 to STA 0+00) and Bar Cut-3 (-50 ft MLLW plus 2 ft advanced maintenance dredge and 2 ft allowable over depth at STA 198+63.25 to STA 0+00) at Naval Station Mayport. The proposed modification would expire July 17, 2024. The dredged material

will be transported and disposed of in the Jacksonville Ocean Dredged Material Disposal Site (ODMDS). Additionally the proposed modification would result in a singular Section 103 concurrence dated August 29, 2016 and expiring August 29, 2019. The modification must be completed in accordance with the five pages of enclosed construction drawings, five attachments, and the special conditions, which are incorporated in, and made a part of the permit.

3. Special Conditions:

**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 U.S. Environmental Protection Agency (EPA) at: Weiss.Lena@epa.gov. The Permittee shall reference in the subject line of the email the DA permit number, SAJ-2002-02052 (SP-SCW) and the type of dredge in the subject line and on all submittals. The notification should be sent to the Corps. 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-SCW), '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.

**Reporting Addresses**: The Permittee shall ensure reports, notifications, documentation and correspondence required by the general or special conditions of this DA permit are submitted to the Corps at CESAJ-ComplyDocs@usace.army.mil and to the U.S. Environmental Protection Agency at mcarthur.christopher@epamail.epa.gov. The Permittee shall reference in the subject line of the email this permit number, SAJ-2002-02052 (SP-SCW), and the type of submittal.

**EPA Concurrency:** The Permittee shall not transport dredged material to the Jacksonville ODMDS until concurrency is granted by the EPA that the proposed dredge material meets the Ocean Disposal Criteria (40 CFR 227) and can be disposed in the Jacksonville ODMDS.

**Cubic Yards of Dredged Material:** No more than 1,900,000 cubic yards of dredged material biennially is authorized for disposal in the Jacksonville ODMDS.

**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 the Disposal Operations Compliance special condition.

**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 Weiss.Lena@epa.gov within 24 hours after the violation occurs. The Permittee shall reference in the subject line of the email this permit number, SAJ-2002-02052 (SP -SCW), and the type of violation.

**Disposal Zone:** The Permittee shall ensure, when dredged material is disposed, no portion of the hopper dredge or disposal barge or scow shall be outside of the boundaries of the release zone. Specifically, all disposals will be initiated at least 1,159 feet from the east boundary, 500 feet from the west boundary, and 1000 feet from the north and south boundaries of the ODMDS. Disposal of all material associated with this project will occur into ODMDS Zone A. The boundaries of the release zone are defined by the following coordinates:

| | Geographic (NAD83) | | State Plane (FL East 0901 Ft NAD83) | |
|---|---|---|---|---|
| NW Corner | 30°21.349'N | 81°18.460'W | 2,189,463 N | 559,128 E |
| Upper NE Corner | 30°21.349'N | 81°17.517'W | 2,189,450 N | 564,084 E |
| SW Corner | 30°20.350'N | 81°18.460'W | 2,183,407 N | 559,112 E |
| SE Corner | 30°20.350'N | 81°17.517'W | 2,183,395 N | 564,069 E |

The Permittee shall ensure the hopper dredge, disposal barge or scow shall be in the closed position and all discharge of material has ceased before the disposal vessel

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

**Restricted Disposal Area:** Disposal of all material from is unrestricted up to 13,500 cubic yards for any single dump for all project segments using hopper or mechanical dredge. Disposal of material from Mayport Turning Basin (Phase II) is restricted to a load volume of 12,700 cubic yards for any single dump using a cutterhead dredge. All other project segments are unrestricted to 13,500 cubic yards for any single dump using a cutterhead dredge.

| | **Maximum Disposal Volume** | | |
|---|---|---|---|
| **Dredging Area** | **Hopper (cubic yards)** | **Cutter (Scow) (cubic yards)** | **Mechanical (Scow) (cubic yards)** |
| Turning Basin (-50 feet MLLW plus -2 feet allowable overdepth) | 13,500 | 12,700 | 13,500 |
| All other authorized | 13,500 | 13,500 | 13,500 |

**Electronic Tracking System:** The Permittee shall use the electronic tracking system, Dredging Quality Management (DQM) that will continuously track the horizontal location and draft condition of the disposal vessel (hopper dredge or disposal barge or scow) to and from the Jacksonville ODMDS. Data shall be collected at least every 500 feet during travel to and from the ODMDS and every minute or every 200 feet of travel, whichever is smaller, while approaching within 1,000 feet and within the ODMDS. The Permittee shall use Florida State Plane or latitude and longitude coordinates (North American Datum 1983). State Plane coordinates shall be reported to the nearest foot and latitude and longitude coordinates shall be reported as decimal degrees out to 6 decimals. Westerly longitudes are to be reported as negative. Draft readings shall be recorded in feet out to 2 decimals. If the electronic positioning system fails or navigation problems are detected, all disposal operations shall cease until the failure or navigation problems are corrected.

**Load Data:** The Permittee shall record electronically for each load the following information:

a. Load Number

b. Disposal Vessel or Scow Name

c. Tow Vessel Name (if scow used)

d. Captain of Disposal or Tow Vessel

e. Estimated volume of Load

f. Description of Material Disposed

g. Source of Dredged Material

h. Date, Time and Location at Start at Initiation and Completion of Disposal Event

i. The ETS data required by the Electronic Tracking System Special Condition.

**Electronic Data:** The Permittee shall provide electronic data required by the Electronic Tracking System and Load Data Special Conditions to EPA Region 4 on a weekly basis. The data shall be submitted as an eXtensible Markup Language (XML) document via Internet e-mail to DisposalData.R4@epa.gov. XML data file format specifications are available from EPA Region 4.

**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 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 pre-disposal and 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).

**Bathymetric Survey:** The Permittee shall conduct a bathymetric survey of the Jacksonville ODMDS within 90 days prior to project disposal and 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.

**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 2015 SMMP can be found at the following web address: https://archive.epa.gov/region4/water/oceans/web/html/sites.html

**Dredging Quality Management (DQM):** All dump scows shall be equipped with DQM system for monitoring purposes. The system must have been certified by the Engineer Research and Development Center (ERDC) within the last year. The DQM must be turned on and transmitting during the transporting of the dredged material and/or dumping operations.

**Hopper Dredging Conditions:**

a. **Reporting:** The Permittee shall ensure all reports, notifications, documentation and correspondence required by the general or special conditions of this permit are submitted to the Corps at the following email address:

sajdredgenotice@usace.army.mil.

Requests for documents, forms or information should also be submitted to the Corps at this email address. The Permittee shall reference this permit number, SAJ-2002-02052, SARBO, and include the topic in the subject line of the email and on all submittals.

b. **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 drawings of the proposed sea turtle deflector device and the Hopper Dredge Deflector Device Checklist form (Attachment 1) are complete and all required documentation submitted to the Corps at least 30 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.

c. **Pre-Dredging Inspection Submittal**: The Permittee shall submit the completed Hopper Dredge Pre-Dredge Inspection Checklist form (Attachment 2) to the Corps, at least 5 days prior to initiating the authorized work.

d. **Dredging Quality Management:** Dredging and dredged material disposal and monitoring of dredging projects using the Dredging Quality Management (DQM) system shall be implemented for this permit. The Permittee shall ensure that each hopper dredge assigned to the work authorized by this permit is equipped with DQM, previously known as 'Silent Inspector', for hopper dredge monitoring. The Permittee's DQM system must have been certified by the DQM Support Team within one calendar year prior to the initiation of the dredging/disposal. Questions regarding certification should be addressed to the DQM Support Center at 251-690-3011. Additional information about the DQM System can be found at http://dqm.usace.army.mil. The Permittee is responsible for insuring that the DQM system is operational throughout the dredging and disposal project and that project data are submitted to the DQM National Support Center in accordance with the specifications provided at the aforementioned website. The data collected by the DQM system shall, upon request, be made available to the Regulatory Division of the U.S. Army Corps of Engineers - Jacksonville District.

e. **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 form (Attachment 3) with a written notification of the date of commencement of work authorized by this permit. An inspection of the hopper dredge will be scheduled and performed by the Corps after receipt of the notification of commencement.

**Clamshell Operations:**

a. Manatee and Marine Turtles: All in-water operations, including vessels, will be shut down 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 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. The Permittee will use lights to illuminate the water surface within 100 feet of the operation hoist line (cable attached to the bucket) to better observe manatees and marine turtles during nighttime clamshell operations. The lights shall be shielded and directed such that they are not visible from the beaches north and south of the work area. As assessment of such lighting will be made prior to the beginning of nighttime operations to ensure that it complies with the above requirements. No nighttime 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: Tera Baird)

**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.

**Manatee Conditions:**

a. The Permittee shall comply with the "Standard Manatee Conditions for In-Water Work – 2011" (Attachment 4)

b. **Manatee Protection:** The Permittee shall ensure wharf fenders are installed to reduce the risk of a vessel crushing a manatee. The wharf fenders shall be installed with appropriate materials to provide sufficient standoff space of at least 3 feet under

compression. Fenders or buoys providing a minimum standoff space of at least 3 feet under compression shall be utilized between two vessels moored together.

**Regional Biological Opinion:** Hopper dredging is approved under the current National Marine Fisheries Service (NMFS) South Atlantic Regional Biological Opinion (SARBO) and its references which can be viewed on the following website:

http://el.erdc.usace.army.mil/seaturtles/refs-bo.cfm.

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. The Permittee shall implement all reasonable and prudent measures identified in the SARBO. NMFS has issued the SARBO to the Corps for hopper dredge projects that limit the take of listed turtles, whales, sturgeon, sawfish, and any other species listed in the SARBO. Authorization under this 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 permit. Failure to comply with the terms and conditions associated with the SARBO, where a take of the listed species occurs, would constitute noncompliance with this permit. Failure to comply with this permit will be the basis for suspension and revocation of this 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 permit, the special conditions of this permit will take precedence as the more stringent condition.

a. **Incidental Take Statement:** This permit does not authorize the Permittee to take an endangered species, in particular sea turtles, sturgeon, whales or any other endangered species listed in the SARBO. The SARBO includes an Incidental Take Statement (ITS) issued to the Corps. The Permittee understands and agrees that, even where it is in full compliance with the terms and conditions of the SARBO ITS and this 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 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, 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.

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 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/seaturtle.

If the Permittee is unable to view the Observer forms at this website the Permittee shall immediately 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. **Incidental Take:** 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 6 hours of the take event.

e. **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 Sea Turtle Trawling requirements (Attachment 5). 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 is located at the following website under the heading "Turtle Information:"

http://el.erdc.usace.army.mil/seaturtle.

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 release

f. **Dredge Protocol:** The Permittee will adhere to the South Atlantic Division Corps of Engineers Hopper Dredging Protocol for Atlantic coast.

The impact of your proposal on navigation and the environment has been reviewed and found to be insignificant. The permit is hereby modified in accordance with your request. You should attach this letter to the permit. All other conditions of the permit remain in full force and effect.

If you have any questions concerning this permit modification, please contact the project manager Shannon White at the letterhead address, by telephone at 904-232-1681 or by electronic mail at shannon.c.white@usace.army.mil.

Thank you for your cooperation with our permit program. The Corps' Jacksonville District Regulatory Division is committed to improving service to our customers. We strive to perform our duty in a friendly and timely manner while working to preserve our environment. We invite you to complete our automated Customer Service Survey at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey. Please be aware this Internet address is case sensitive; and, you will need to enter it exactly as it appears above. Your input is appreciated – favorable or otherwise.

FOR THE COMMANDER:

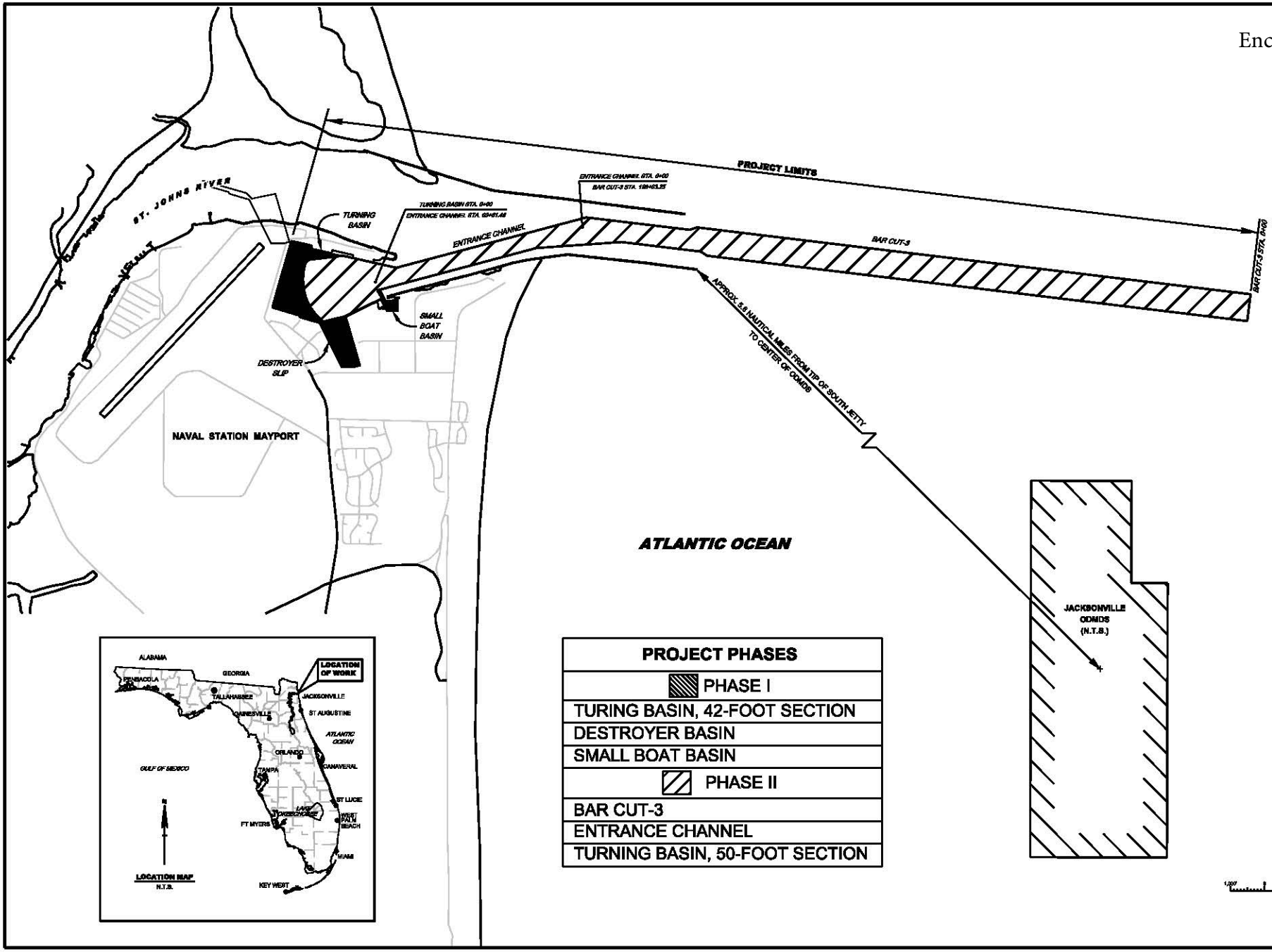
Deborah L Ubgmann

Enclosures

for JASON A. KIRK
Colonel, U.S. Army
District Commander

cc:
CEAJ-PD-EC
CESAJ-RD-PE

Enclosure 2




| PROJECT PHASES |
|---|
| PHASE I |
| TURING BASIN, 42-FOOT SECTION |
| DESTROYER BASIN |
| SMALL BOAT BASIN |
| PHASE II |
| BAR CUT-3 |
| ENTRANCE CHANNEL |
| TURNING BASIN, 50-FOOT SECTION |

US Army Corps of Engineers
Jacksonville District

**PERMIT DRAWING**
**NOT FOR CONSTRUCTION**

**DEPARTMENT OF THE ARMY**
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

# U.S. NAVAL STATION MAYPORT MAINTENANCE DREDGING

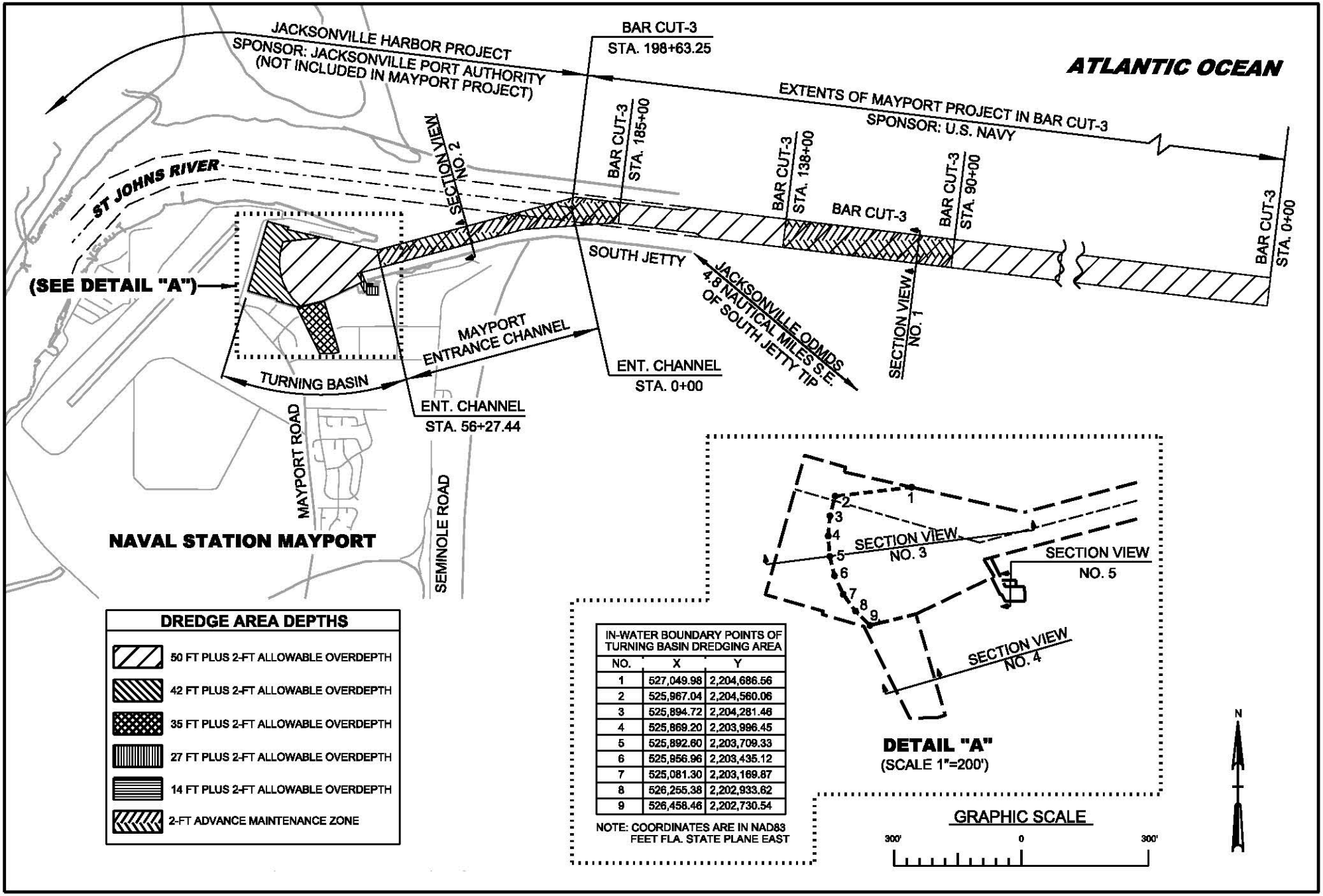
**DEPARTMENT OF THE ARMY PERMIT APPLICATION**

**PROJECT OVERVIEW**

**MAY 2016**

**PLATE**

**1 OF 5**




| IN-WATER BOUNDARY POINTS OF TURNING BASIN DREDGING AREA | | |
|---|---|---|
| NO. | X | Y |
| 1 | 527,049.98 | 2,204,686.56 |
| 2 | 525,967.04 | 2,204,560.06 |
| 3 | 525,894.72 | 2,204,281.46 |
| 4 | 525,869.20 | 2,203,996.45 |
| 5 | 525,892.60 | 2,203,709.33 |
| 6 | 525,856.96 | 2,203,435.12 |
| 7 | 525,081.30 | 2,203,169.87 |
| 8 | 526,255.38 | 2,202,933.62 |
| 9 | 526,458.46 | 2,202,730.54 |

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

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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

# U.S. NAVAL STATION MAYPORT MAINTENANCE DREDGING

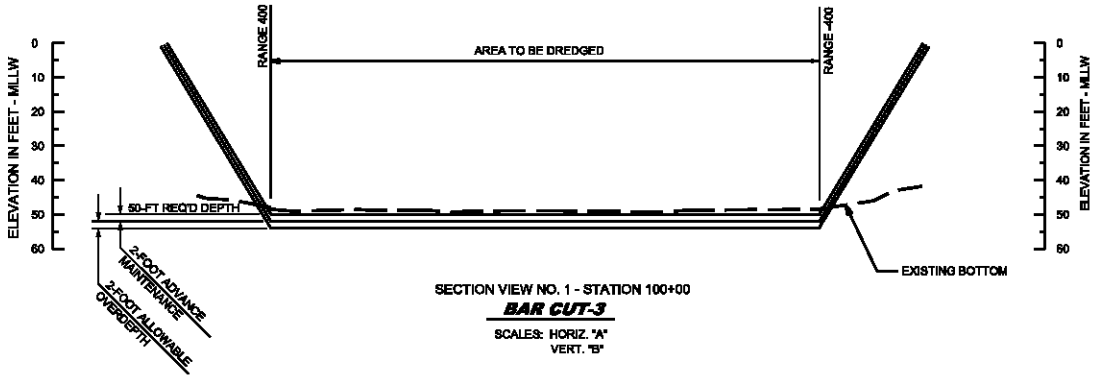
**DEPARTMENT OF THE ARMY PERMIT APPLICATION**

**PROJECT OVERVIEW**

**MAY 2016**

**PLATE**

**2 OF 5**




SECTION VIEW NO. 1 - STATION 100+00

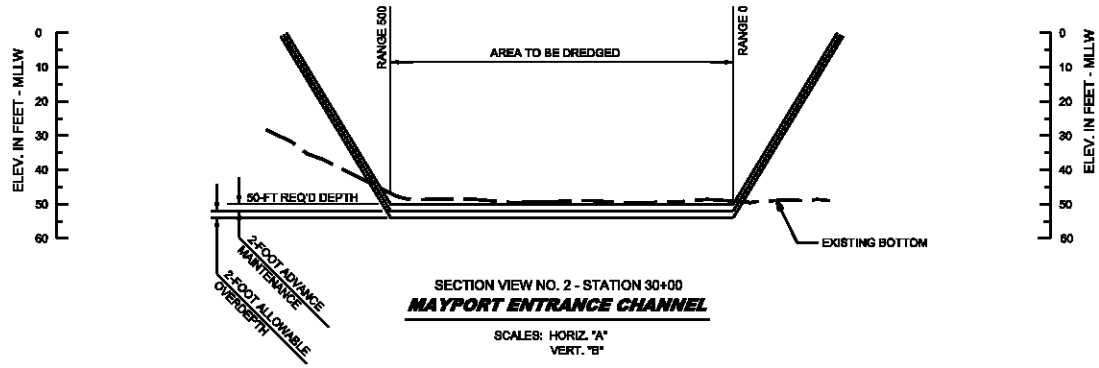
***BAR CUT-3***

SCALES: HORIZ. "A"
VERT. "B"

GRAPHIC SCALES

"A" 100' 0 100' 200'

"B" 20' 0 20' 40'




SECTION VIEW NO. 2 - STATION 30+00

***MAYPORT ENTRANCE CHANNEL***

SCALES: HORIZ. "A"
VERT. "B"

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# U.S. NAVAL STATION MAYPORT MAINTENANCE DREDGING

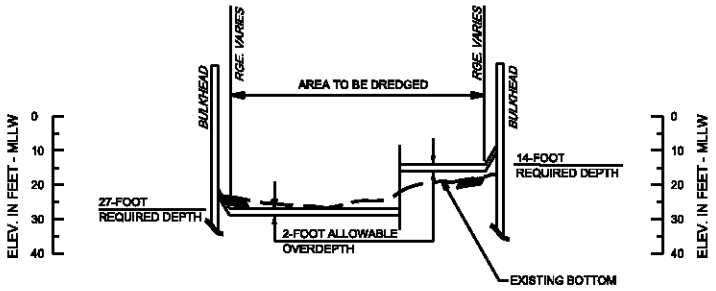
**DEPARTMENT OF THE ARMY PERMIT APPLICATION**

## TYPICAL DREDGING SECTIONS

**MAY 2016**

**PLATE**

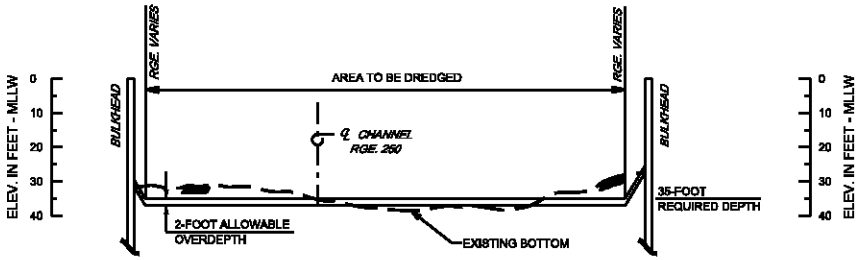
**3 OF 5**




SECTION VIEW NO. 5

***EMERGENCY BOAT BASIN***

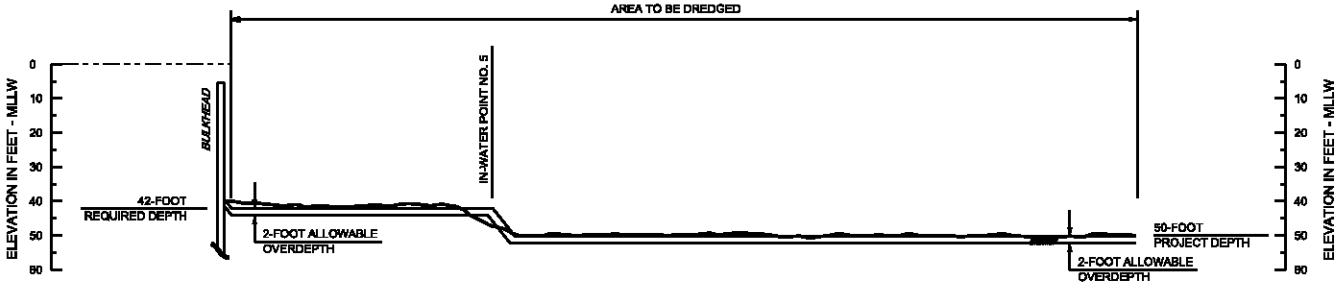
SCALES: HORIZ. "A"
VERT. "B"




SECTION VIEW NO. 4

***DESTROYER SLIP***

SCALES: HORIZ. "A"
VERT. "B"

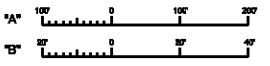



SECTION VIEW NO. 3

***TURNING BASIN***

SCALES: HORIZ. "A"
VERT. "B"

GRAPHIC SCALES

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JACKSONVILLE, FLORIDA

# U.S. NAVAL STATION MAYPORT MAINTENANCE DREDGING

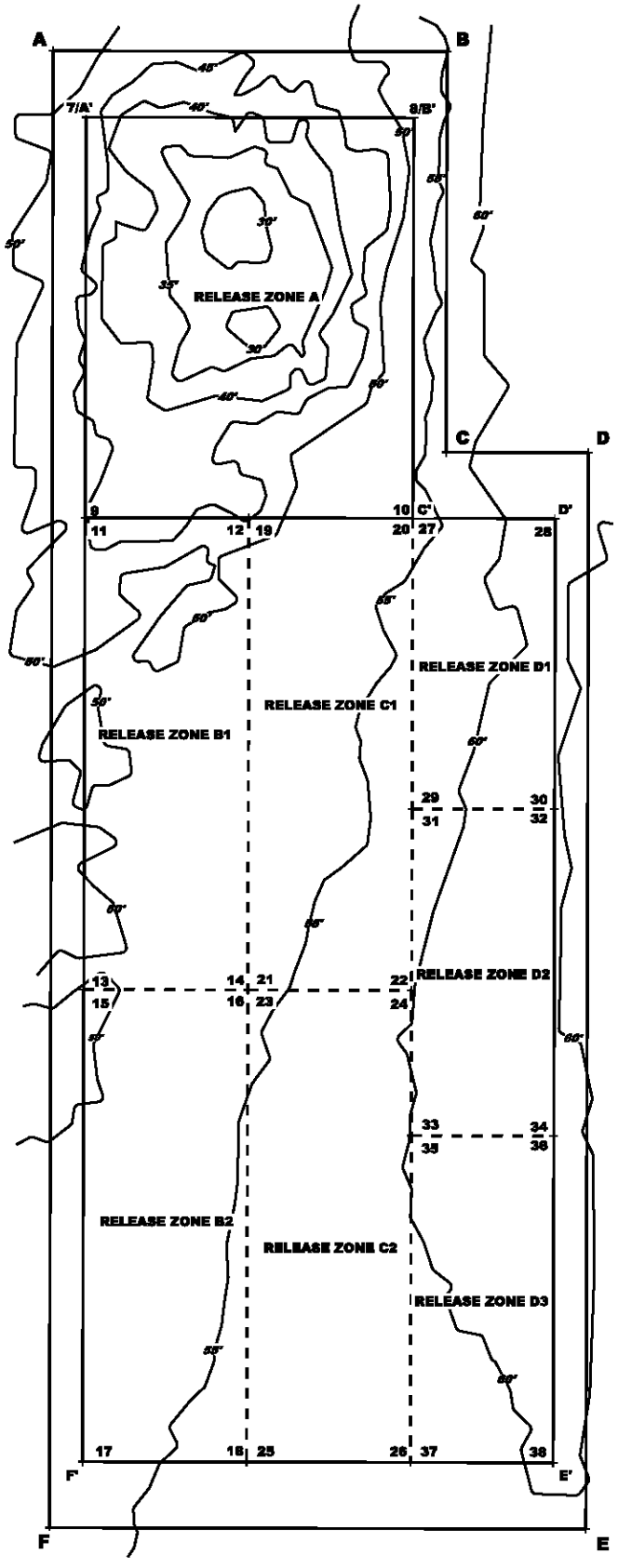
**DEPARTMENT OF THE ARMY PERMIT APPLICATION**

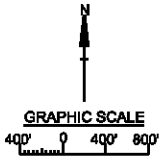
## DREDGING SECTIONS

**MAY 2016**

**PLATE**

**4 OF 5**




**REPORTED/SMMP CONTROL POINTS IN STATE PLANE**

| ODMDS CONTROL POINTS | | |
|---|---|---|
| FLORIDA EAST ZONE PLANE COORDINATES (NAD83(90)) | | |
| POINT | (X) EASTING | (Y) NORTHING |
| A | 559,831 | 2,190,484 |
| B | 564,567 | 2,190,448 |
| C | 564,571 | 2,184,393 |
| D | 565,727 | 2,184,388 |
| E | 568,898 | 2,168,107 |
| F | 558,570 | 2,185,128 |

| RELEASE ZONE A | | |
|---|---|---|
| FLORIDA EAST ZONE PLANE COORDINATES (NAD83(90)) | | |
| POINT | (X) EASTING | (Y) NORTHING |
| 7 | 559,126 | 2,189,463 |
| 8 | 564,084 | 2,189,450 |
| 9 | 559,112 | 2,183,407 |
| 10 | 564,069 | 2,183,395 |

| RELEASE ZONE B1 | | |
|---|---|---|
| FLORIDA EAST ZONE PLANE COORDINATES (NAD83(90)) | | |
| POINT | (X) EASTING | (Y) NORTHING |
| 11 | 559,112 | 2,183,407 |
| 12 | 561,560 | 2,183,401 |
| 13 | 559,092 | 2,176,267 |
| 14 | 561,572 | 2,176,260 |

| RELEASE ZONE B2 | | |
|---|---|---|
| FLORIDA EAST ZONE PLANE COORDINATES (NAD83(90)) | | |
| POINT | (X) EASTING | (Y) NORTHING |
| 15 | 559,092 | 2,176,267 |
| 16 | 561,572 | 2,176,260 |
| 17 | 559,073 | 2,169,127 |
| 18 | 561,553 | 2,169,120 |

| RELEASE ZONE C1 | | |
|---|---|---|
| FLORIDA EAST ZONE PLANE COORDINATES (NAD83(90)) | | |
| POINT | (X) EASTING | (Y) NORTHING |
| 19 | 561,560 | 2,183,401 |
| 20 | 564,069 | 2,183,395 |
| 21 | 561,572 | 2,176,260 |
| 22 | 564,051 | 2,176,254 |

| RELEASE ZONE C2 | | |
|---|---|---|
| FLORIDA EAST ZONE PLANE COORDINATES (NAD83(90)) | | |
| POINT | (X) EASTING | (Y) NORTHING |
| 23 | 561,572 | 2,176,260 |
| 24 | 564,051 | 2,176,254 |
| 25 | 561,553 | 2,169,120 |
| 26 | 564,032 | 2,169,114 |

| RELEASE ZONE D1 | | |
|---|---|---|
| FLORIDA EAST ZONE PLANE COORDINATES (NAD83(90)) | | |
| POINT | (X) EASTING | (Y) NORTHING |
| 27 | 564,069 | 2,183,395 |
| 28 | 565,225 | 2,183,388 |
| 29 | 564,055 | 2,179,000 |
| 30 | 568,214 | 2,178,995 |

| RELEASE ZONE D2 | | |
|---|---|---|
| FLORIDA EAST ZONE PLANE COORDINATES (NAD83(90)) | | |
| POINT | (X) EASTING | (Y) NORTHING |
| 31 | 564,055 | 2,179,000 |
| 32 | 568,214 | 2,178,995 |
| 33 | 564,045 | 2,174,057 |
| 34 | 568,201 | 2,174,051 |

| RELEASE ZONE D3 | | |
|---|---|---|
| FLORIDA EAST ZONE PLANE COORDINATES (NAD83(90)) | | |
| POINT | (X) EASTING | (Y) NORTHING |
| | 564,045 | 2,174,057 |
| | 568,201 | 2,174,051 |
| | 564,032 | 2,169,114 |
| | 568,189 | 2,169,108 |

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**DEPARTMENT OF THE ARMY**
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

# U.S. NAVAL STATION MAYPORT MAINTENANCE DREDGING

**DEPARTMENT OF THE ARMY PERMIT APPLICATION**
**JACKSONVILLE ODMDS**

**MAY 2016**

**PLATE**
**5 OF 5**

**ATTACHMENT _**

# 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.

COMMENTS:_____
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_____

_____ _____
(Permittee Signature) (Date)

_____
(Name and Title - Printed)

_____ _____
(Dredging Contractor Signature) (Date)

_____
(Name and Title - Printed)

Hopper dredging shall not commence until this submittal is approved and signed by the Corps:

_____ _____
(District Engineer) (Date)

ATTACHMENT _

# 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: _____

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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 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**: _____
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_____ _____
(Dredging Contractor Signature) (Date)

# STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

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 in Vero Beach (1-772-562-3909) for south Florida, and emailed 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 8½ " 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 http://www.myfwc.com/WILDLIFEHABITATS/manatee_sign_vendors.htm. Questions concerning these signs can be forwarded 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

ATTACHMENT _

# 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.