This notice of authorization must be conspicuously displayed at the site of work.

United States Army Corps of Engineers

A permit to annually dredge 1,950,000 CY's of sediment at the Naval Submarine Base, Kings Bay has been issued to United States Navy on July 9, 2014.

Address of Permittee: YOUE USS TENNERT AVE 307, Kings Bay, GA 31547

Permit Number: SAS-2005-01790

District Commander
MEMORANDUM FOR Commander, United States Navy, Naval Submarine Base, Kings Bay, Georgia 31547-2606

SUBJECT: Department of the Army Permit Number SAS-2005-01790

1. Enclosed you will find a signed copy of your Department of the Army Permit (File No. SAS-2005-01790). Please retain this copy for your files.

2. You will display the enclosed yellow Engineer Form 4336 in a conspicuous location at the site of work and have a complete copy of the permit with enclosures at the work site at all times.

3. IT SHALL NOT BE LAWFUL TO DEVIATE FROM THE PLANS EITHER BEFORE OR AFTER COMPLETION OF THE WORK, unless a plan reflecting the modification has previously been submitted to and approved by this office.

4. Thank you in advance for completing our on-line Customer Survey Form located at http://corpsmap.usace.army.mil/cm_apex/f?p=regulatory_survey. We value your comments and appreciate your taking the time to complete a survey each time you have interaction with our office.

5. If you have any questions, please call Mrs. Sarah E. Wise, Regulatory Specialist, Coastal Branch, at 912-652-5550.

Encl

THOMAS J. TICKNER
COL, EN
Commanding
DEPARTMENT OF THE ARMY PERMIT

PERMITTEE: Commanding Officer
United States Navy
Naval Submarine Base, Kings Bay
1063 USS Tennessee Avenue
Kings Bay, Georgia 31547-2606

PERMIT NUMBER: SAS-2005-01790

ISSUING OFFICE:
Savannah District
U.S. Army Corps of Engineers
100 West Oglethorpe Avenue
Savannah, Georgia 31401

NOTE: The term "you" and its derivatives 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 U.S. Army 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: To perform annual maintenance dredging of up to 1,950,000 cubic yards of material from the existing Kings Bay Naval Submarine channel. Maintenance dredging is authorized in approximately 11,200 feet of channels, turning basins and berths; approximately 27,000 feet of navigation channel in Cumberland Sound; and approximately 15,000 feet of navigation channel in the Saint Marys River. Material dredged from Kings Bay between stations 37+504 and 48+242 will be dredged by cutter suction dredge only. Material dredged within the remaining portions of the Inner channel and the entrance channel will be excavated by hydraulic dredges, either cutter suction or hopper dredges. Clamshell dredging will occur only in the Transponder Removal Station Basin Trench located within the Inner channel. The dredged material placement is dependent on material characterization within the specified dredging areas. Dredged material may be placed in one or more existing confined disposal facilities (Big Crab Island, Mainside Disposal Area, Disposal Area 1 and Disposal Area 2). Dredge material may also be placed within the nearshore disposal area, one or more of the beach placement sites (South Jetty, Fort Clinch, North Beach or South Beach) or the Ocean Dredged Material Disposal Site (ODMDS). The placement of material in the nearshore, beach placement and ODMDS will be
authorized by the Jacksonville District permit SAJ-1992-01854. The maximum authorized depths of the areas that will be annually maintenance dredged are as follows:

a. Navigation Channels. Depths include 2' of allowable overdredge depth and all depths from Mean Lower Low Water (MLLW).

<table>
<thead>
<tr>
<th>Location</th>
<th>Station</th>
<th>Depth at MLLW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kings Bay</td>
<td>48+242 to 39+600</td>
<td>-49'</td>
</tr>
<tr>
<td>Kings Bay &amp; Upper Cumberland Sound</td>
<td>39+600 to 15+348.5</td>
<td>-46'</td>
</tr>
<tr>
<td>Lower Cumberland Sound</td>
<td>15+348.5 to 00+000</td>
<td>-47'</td>
</tr>
<tr>
<td>Entrance Channel, Cut 1N,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Georgia portions</td>
<td>0+00 to 151+89</td>
<td>-51'</td>
</tr>
</tbody>
</table>

b. North Turning Basin, Georgia portions. The North Turning Basin is located between Station 12+50 to 71+00 along Cut 1N and will be maintained at the authorized depth of -47' MLLW, including 2' of allowable overdepth.

c. North Settling Basin, Georgia portions. The North Settling Basin within jurisdiction is located between Station 119+00 to 151+89 along Cut 1N and will be maintained at the authorized depth of -51' MLLW including 2' of allowable overdepth.

d. Berths and Other Facilities within the Inner Channel. The following depths include 2' of allowable overdredge depth:

<table>
<thead>
<tr>
<th>Location</th>
<th>Station</th>
<th>Depth at MLLW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Dock Caisson Gate Mooring Facility</td>
<td>48+220</td>
<td>-48'</td>
</tr>
<tr>
<td>Dry Dock Caisson Gate Sill</td>
<td>48+220</td>
<td>-49'</td>
</tr>
<tr>
<td>Transponder Removal Station Basin Trench</td>
<td>47+270 to 47+545</td>
<td>-55'</td>
</tr>
<tr>
<td>Refit Wharves</td>
<td>45+900 to 48+220</td>
<td>-49'</td>
</tr>
<tr>
<td>Small Boat Basin</td>
<td>43+530 to 45+250</td>
<td>-26'</td>
</tr>
<tr>
<td>Explosive Handling Wharves</td>
<td>41+300 to 43+350</td>
<td>-49'</td>
</tr>
<tr>
<td>Site Six Operational Area South w/Warrior Wharf</td>
<td>34+340 to 36+585</td>
<td>-47'</td>
</tr>
<tr>
<td>Site Six ARDM Operating Basin</td>
<td>34+340 to 36+585</td>
<td>-56'</td>
</tr>
<tr>
<td>Site Six Operational Area North w/Tender Area</td>
<td>36+850 to 38+800</td>
<td>-41'</td>
</tr>
<tr>
<td>Magnetic Silencing Facility (MSF) Operating Basin</td>
<td>34+350 to 30+500</td>
<td>-46'</td>
</tr>
<tr>
<td>MSF Boat Ramp Channel</td>
<td>32+450 to 31+600</td>
<td>-14'</td>
</tr>
</tbody>
</table>
e. Upper Turning Basin. The Upper Turning Basin is located between Station 48+220 to Station 45+900 and will be maintained at the authorized depth of -49' MLLW plus 2' of allowable overdredge depth.

PROJECT LOCATION: The SAS project site is located in the existing navigation channels within the State of Georgia at the Kings Bay Naval Submarine Base, approximately 3 miles north of Saint Marys, in Camden County, Georgia.

PERMIT CONDITIONS:

General Conditions.

1. The time limit for completing the work authorized by this Individual Permit ends on June 18, 2024. If you find that you need more time to complete the authorized activity, you must submit a request for your permit extension at least one month prior to the above date.

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 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 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.

7. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein
authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States because of any such removal or alteration.

Special Conditions.

1. A copy of this permit, including the approved drawings and plans; special conditions; and any amendments shall be maintained at the work site whenever work is being performed. The permittee(s) shall assure that all contractors, subcontractors, and other personnel performing the permitted work are fully aware of the permit's terms and conditions.

2. The permittee shall notify the issuing office, in writing (electronic facsimile is acceptable), at least ten days in advance of their intent to commence work in waters of the United States for the permitted activity. The permittee shall also notify this office, in writing, 30 days after this project is completed using the enclosed Certification of Compliance Form.

3. All work within the State of Georgia will be performed in accordance with the following attached plans and drawings which are incorporated in and made part of the permit entitled "Naval Submarine Base Kings Bay, Nassau County, Florida and Camden County, Georgia, Entrance and Inner Channel Maintenance Dredging Projects, Section 10/404 Permits Plates, Project Location Map" (Plate G-01 – G-07) and "Naval Submarine Base Kings Bay, Nassau County, Florida and Camden County, Georgia, Entrance and Inner Channel Maintenance Dredging Projects Section 10/404 Permit Plates, Dredging Plan", (Plate C-01 –C35).

4. That use of the permitted activity must not interfere with the public's right to free navigation within navigable waters of the United States.

5. That prior to deposition of any material into the disposal area, the permittee shall inspect all berms, embankments and weirs to determine if they are in satisfactory condition.

6. That any breeches in the disposal area dikes shall be repaired prior to discharge of any dredged material and the dikes and weirs shall be maintained in good condition throughout the period of discharge and until the dredged material has settled and stabilized.

7. The permittee shall comply with all applicable conditions that are referenced in the attached Georgia Department of Natural Resources, Environmental Protection Division (Georgia EPD) 401 WQ Certification.
8. This permit does not authorize the interference with any existing or proposed Federal Project and the permittee shall not be entitled to compensation for damage or injury to the structures or work authorized herein, which may be caused by or result from existing or future operations undertaken by the United States in the public interest.

9. All work conducted under this permit within the State of Georgia shall be located, outlined, designed, constructed and operated in accordance with the minimal requirements as contained in the Georgia Erosion and Sedimentation Control Act of 1975, as amended. Utilization of plans and specifications as contained in the "Manual for Erosion and Sediment Control, (Latest Edition)," published by the Georgia Soil and Water Conservation Commission or their equivalent, will aid in achieving compliance with the aforementioned minimal requirements. For any work occurring with the State of Florida, please refer to Department of the Army Section 10/404/103 Permit SAJ-1992-01854(SP-BAL), Kings Bay Entrance Channel Maintenance Dredging. The permittee acknowledges that authorization for transport of dredged material to the Fernandina Beach Ocean Dredge Material Disposal Site is not valid until concurrency is granted from the U.S. Environmental Protection Agency.

10. If you or your contractors discover any federally listed threatened or endangered species and/or their habitat while accomplishing the activities authorized by this permit, you must immediately STOP work in the area and notify the issuing office of what you have found. We will initiate the Federal and state coordination required to determine if the species and/or habitat warrant further consultation with the US Fish and Wildlife Service.

11. Regarding the present and future protection of the West Indian Manatees that have the potential to be within the project vicinity, the following conditions must be fully implemented by the applicant:

   a. The permittee agrees that all personnel associated with the project will be advised that there are civil and criminal penalties for harming, harassing or killing manatees, which are protected under the Endangered Species Act of 1973 and the Marine Mammal Protection Act of 1972. The permittee and contractor will be held responsible for any manatee harmed, harassed or killed as a result of construction activities.

   b. Siltation barriers will be made of material in which manatees cannot become entangled, are properly secured, and are regularly monitored to avoid manatee entrapment. Barriers must not block manatee entry to or exit from essential habitat.

   c. All vessels associated with the project will operate at "no wake/idle" speeds at all times while in the construction area. All vessels will follow routes of deep water whenever possible.

   d. All on-site project personnel are responsible for observing water-related
activities for the presence of manatees. All construction and activities in open water will cease upon sighting of manatees within 50 feet of the project area. Construction activities will not resume until the manatees have left the project area for at least 30 minutes.

e. Extreme care will be taken in lowering equipment or materials, including, but not limited to piles, sheet piles, casings for drilled shaft construction, spuds, pile templates, anchors, etc., below the water surface and into the stream bed; taking any precaution not to harm any manatee(s) that may have entered the construction area undetected. All such equipment or materials will be lowered at the lowest possible speed.

f. The permittee agrees that any collision with a manatee shall be reported immediately to the U.S. Army Corps of Engineers (912-652-5347), the U.S. Fish and Wildlife Service, Ecological Services Field Office, (912-832-8739), and Georgia Department of Natural Resources (Georgia DNR) (Weekdays 8:00 a.m.-4:30 p.m.: 912-264-7218 or 1-800-272-8363; nights and weekends: 1-800-241-4113). Any dead manatee(s) found in the project area must be secured to a stable object to prevent the carcass from being moved by the current before the authorities arrive. In the event of injury or mortality of a manatee, all aquatic activity in the project area must cease pending section 7 consultation under the Endangered Species Act with the U.S. Fish and Wildlife Service and the lead Federal agency.

g. The permittee agrees that the contractor shall keep a log detailing sightings, collisions, or injury to manatees, which have occurred during the contract period.

h. The permittee agrees that following project completion, a report summarizing the above incidents and sightings will be submitted to the U.S. Fish and Wildlife Service, Ecological Services Field Office, Coastal Georgia Sub-Office, 4980 Wildlife Drive, NE Townsend, Georgia 31331.

i. All temporary construction materials will be removed upon completion of the work, and salt marsh areas will be restored. No construction debris or trash will be discarded in the water.

j. The permittee agrees to install and maintain a minimum of two 3-feet by 4-feet temporary manatee awareness construction signs labeled "Manatee habitat - Idle Speed in Construction Area" shall be installed and maintained at prominent locations within the construction area/docking facility prior to the initiation of construction. One temporary sign will be located prominently adjacent to the construction permit and, if required, a second temporary construction sign will be installed in a location prominently visible to water related construction crews. Also, a minimum of two "Caution - Manatee Area 1-800-2 SAVE ME" temporary construction signs should be placed facing upstream and downstream of the project site. Georgia DNR (912-264-7218) can assist in correct sign design and placement. Temporary construction signs will be removed by the permittee upon completion of construction.
FURTHER INFORMATION:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403) and 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 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, which requires you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate.

d. 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 US Army Corps of Engineers will normally consider a request for an extension of time limit.
Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

(Permittee)

Shawn A. Follum
CEC, USN

(20 June 2014)

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

Issued for and in behalf of:
Thomas J. Tickner
Colonel, US Army
Commanding

(7/9/2014)

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 with compliance with its terms and conditions, have the transferee sign and date below.

(Transferee)

(Date)
CERTIFICATION OF COMPLIANCE
WITH
DEPARTMENT OF THE ARMY
SAS-2005-01790

PERMIT FILE NUMBER: SAS-2005-01790

PERMITTEE ADDRESS: Commanding Officer, United States Navy, Naval Submarine Base, Kings Bay, 1063 USS Tennessee Avenue, Kings Bay, Georgia 31547-2606.

LOCATION OF WORK: The SAS project site is located in the existing navigation channels within the State of Georgia at the Kings Bay Naval Submarine Base, approximately 3 miles north of Saint Marys, in Camden County, Georgia.

PROJECT DESCRIPTION: To perform annual maintenance dredging of up to 1,950,000 cubic yards of material from the existing Kings Bay Naval Submarine channel. Maintenance dredging is authorized in approximately 11,200 feet of channels, turning basins and berths; approximately 27,000 feet of navigation channel in Cumberland Sound; and approximately 15,000 feet of navigation channel in the Saint Marys River. Material dredged from Kings Bay between stations 37+504 and 48+242 will be dredged by cutter suction dredge only. Material dredged within the remaining portions of the Inner channel and the entrance channel will be excavated by hydraulic dredges, either cutter suction or hopper dredges. Clamshell dredging will occur only in the Transponder Removal Station Basin Trench located within the Inner channel. The dredged material placement is dependent on material characterization within the specified dredging areas. Dredged material may be placed in one or more existing confined disposal facilities (Big Crab Island, Mainside Disposal Area, Disposal Area 1 and Disposal Area 2). Dredge material may also be placed within the nearshore disposal area, one or more of the beach placement sites (South Jetty, Fort Clinch, North Beach or South Beach) or the Ocean Dredged Material Disposal Site (ODMDS).

ACRES AND/OR LINEAR FEET OF WATERS OF THE US IMPACTED:

DATE WORK IN WATERS OF US COMPLETED:

COMPENSATORY MITIGATION REQUIRED: N/A

DATE MITIGATION COMPLETED OR PURCHASED (include bank name):
Within 30 days of completion of the activity authorized by this permit, sign this certification and return it to the following address:

Commander  
U.S. Army Engineer District, Savannah  
Attention: Regulatory Division  
100 West Oglethorpe Avenue  
Savannah, Georgia 31401

Please note that your permitted activity is subject to compliance inspection by an U.S. Army Corps of Engineers' representative. If you fail to comply with the permit conditions, it may be subject to suspension, modification or revocation.

I hereby certify that the work authorized by the above referenced permit as well as any required mitigation (if applicable) has been completed in accordance with the terms and conditions of the said permit.

________________________________________  ____________________________
Signature of Permittee                     Date
### GENERAL NOTES:

1. FOR CHANNEL, NEARSHORE, OCEAN DISPOSAL SHEETS, PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1883 (NAD83).

2. FOR BEACH FILL SHEETS, PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1883 (NAD83).

3. THE CHANNEL IS SPLIT AT CUT-IN (STA. 000+00) OF KINGS BAY ENTRANCE CHANNEL (KBC) AND RANGE-A (STA. 000+00) OF KINGS BAY INNER CHANNEL (KBIC). 

4. KBIC CUSTS ARE KNOWN AS RANGE BEGINNING WITH THE RANGE ALPHA AS SHOWN IN NAVIGATION CHART #1103.

5. THE PORT CLINCH SOUTH JETTY BEACH FILL DESIGN AND EXISTING CONTOURS DESIGN WAS DEVELOPED FROM SURVEY COMPLETED ON MAY 18, 2009.


7. THE NORTH BEACH FILL DESIGN AND EXISTING CONTOURS WERE DEVELOPED FROM SURVEY COMPLETED ON DECEMBER 31, 2008.

8. THE OCEAN DISPOSAL EXISTING CONTOURS WERE DEVELOPED FROM SURVEY COMPLETED ON APRIL 14, 2011.


10. KBIC EXISTING CONTOURS AND CROSS SECTIONS WERE DEVELOPED FROM SURVEY COMPLETED ON SEPTEMBER 21, 2012.

11. CHANNEL BOUNDARIES SHOWN IN FEET AND TENTHS AND REFER TO NOAA REPORTED MEAN LOWER LOW WATER (MLLW) OF THE 1983-2001 TIDAL EPOCH.

12. UPLAND SURVEYS SHOWN ARE IN FEET AND TENTHS AND REFER TO NAVAGC.

13. ALL CHANNEL BOUNDARIES AND UPLAND SURVEYS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.

14. REFER TO PLATE G-04 FOR OVERALL MATERIAL PLACEMENT WITHIN CHANNEL BOUNDARIES.

15. REFER TO PLATE G-06 FOR SPECIFIC LOCATION OF DISPOSAL PLANS.

16. REFER TO PLATE G-06 FOR SPECIFIC LOCATION OF DISPOSAL PLANS.

17. DISPOSAL DEPTHS SHOWN IN CIVIL SHEETS INCLUDE REQUIRED DEPTH & 2 FT ALLOWABLE OVERDEPTH.


19. THE YB BAR DREDGE DEPTH IS 85 MLLW AND MUST BE COMPLETED WITH A CLAM SHELL DREDGES.
NOTES:
1. CUT-1N RECEIVES ANNUAL MAINTENANCE DREDGING.
2. BEACH-QUALITY MATERIAL WILL BE PLACED IN ONE OR MORE OF THE BEACH PLACEMENT AREAS SHOWN IN PLATES C-37 TO C-55.
3. NON-BEACH-QUALITY MATERIAL WILL BE PLACED IN THE FERNANDINA ODDMS (D/A-O) OR IN THE NEAR-SHORE PLACEMENT AREA (D/A-N).
INNER CHANNEL - DREDGING LEGEND

DEPTH FACILITY

49 REFIT WHARFS
26 SMALL BOAT BASIN (SSB)
49 EXPLOSIVE HANDLING WHARF (EHW)
49 EXPLOSIVE HANDLING BASIN (EBH)
41 SITE SIX NORTH (SSN)
47 SITE SIX SOUTH (SSB)
46 MAGNETIC SILENCING
48 DRY DOCK CASSON GATE
48 DRY DOCK CASSON GATE SILL

DEPTH INCLUDES 2' ALLOWABLE OVERDEPTH

"GRAPHIC SCALE IS DIFFERENT THAN SHEET G-05"
JACKSONVILLE DISTRICT (BAJ) - SECTION 103

ENTRANCE CHANNEL - DREDGING LEGEND

<table>
<thead>
<tr>
<th>STATION LIMITS</th>
<th>DEPTH</th>
<th>DREDGE DISPOSAL LOCATION &amp; DREDGE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA. 02+00 - 220+00</td>
<td>DIA-F, DIA-SL, DIA-NB, DIA-N, DIA-RR, OR DIA-O - CUTTER SUCTION OR HOPPER DREDGE</td>
<td></td>
</tr>
<tr>
<td>STA. 220+00 - 300+00</td>
<td>DIA-O - CUTTER SUCTION OR HOPPER DREDGE</td>
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</tr>
<tr>
<td>STA. 300+00 - 501+00</td>
<td>DIA-F, DIA-SL, DIA-NB, DIA-N, DIA-RR, OR DIA-O - CUTTER SUCTION OR HOPPER DREDGE</td>
<td></td>
</tr>
<tr>
<td>STA. 02+00 - 220+00</td>
<td>DIA-O - CUTTER SUCTION OR HOPPER DREDGE</td>
<td></td>
</tr>
</tbody>
</table>

N. TURNING BASIN
S. TURNING BASIN

STATE BOUNDARY LINE & FT CLINCH AQUATIC PRESERVE

MATCHLINE PLATE G-04

CUT-2N

N. TURNING BASIN
S. TURNING BASIN

NORTH SETTLING BASIN
SOUTH SETTLING BASIN

KING'S BAY ENTRANCE CHANNEL

CUT-1N

FT CLINCH AQUATIC PRESERVE BOUNDARY LINE

GRAPHIC SCALE

* GRAPHIC SCALE IS DIFFERENT THAN SHEET G-04

DEPARTMENT OF ARMY PERMIT PLATE
NOT FOR CONSTRUCTION

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

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
CHANNEL AND DREDGING AREAS

PLATE G-05
NOTE

1. TURNING BASIN DREDGE DEPTH 47', CHANNEL DREDGE DEPTH 8'
NOTES:
1. NORTH BEACH DISPOSAL TEMPLATE SHOWN IS EXAGGERATED FOR CLARITY.
2. REFER TO CROSS SECTION FOR FILL DETAILS

DEPARTMENT OF ARMY PERMIT PLATE
NOT FOR CONSTRUCTION

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMPBELL COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
NORTH BEACH DISPOSAL AREA (DIA-NB)

PLATE
C-29
**NEARSHORE SURVEY NOTES:**

1. REFER TO SURVEY NO. 12-057.

2. BOUNDING ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW).

3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.

4. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF GEORGIA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).

<table>
<thead>
<tr>
<th>CONTROL POINTS</th>
<th>X</th>
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<td>403,259.46</td>
<td>311,690.10</td>
</tr>
<tr>
<td>POINT C</td>
<td>405,259.46</td>
<td>315,056.78</td>
</tr>
<tr>
<td>POINT D</td>
<td>586,259.28</td>
<td>315,056.78</td>
</tr>
</tbody>
</table>
NOTES:
1. SOUTH BEACH DISPOSAL TEMPLATE SHOWN IS EXAGGERATED FOR CLARITY.
2. REFER TO CROSS SECTION FOR FILL DETAILS

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
SOUTH BEACH DISPOSAL AREA (D/A-88)
1. Plane coordinates are based on the Transverse Mercator projection for the East Zone of Georgia and referenced to the North American Datum of 1983 (NAD 83).

2. Depths are in feet and refer to the NOAA reported mean lower low water (MLLW) tidal datum relative to the 1983-2001 tidal epoch.


4. The maximum placement elevation in the Fernandina OOMBS is 28 feet MLLW.

5. Maximum annual placement is 660,000 cubic yards.

6. No placement of material within 1,000 feet of the OOMBS boundary.

**NOTES:**

- Release Zone Boundary (GASS-EF)
  - Control Points: Plane Coordinates
    - POINT 'A': 924,982, 198,820
    - POINT 'B': 933,486, 198,828
    - POINT 'C': 933,567, 198,955
    - POINT 'D': 924,661, 198,498
    - POINT 'E': 924,692, 191,629
    - POINT 'F': 927,760, 191,629
    - POINT 'G': 927,760, 198,664

- Ocean Disposal Area (D/A-O)
  - Control Points: Plane Coordinates
    - POINT A: 625,061, 201,120
    - POINT B: 934,973, 201,280
    - POINT C: 935,068, 189,078
    - POINT D: 923,172, 189,995

**DEPARTMENT OF ARMY PERMIT PLATE**

Not for construction

DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT, CORPS OF ENGINEERS

JACKSONVILLE, FLORIDA

NAVAL SUBMARINE BASE KINGS BAY

NASSAU COUNTY, FLORIDA AND CAMEL COUNTY, GEORGIA

ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS

SECTION 10/404 PERMIT PLATES

OCEAN DISPOSAL AREA (D/A-O)

PLATE: C-32
TYPICAL SOUTH JETTY DISPOSAL AREA (DIA-SJ) PLACEMENT SECTION

TYPICAL NORTH BEACH DISPOSAL AREA (DIA-NB) PLACEMENT SECTION

GRAPHIC SCALES

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA
Capt. H.L. Guffy  
U.S. Navy, Kings Bay Submarine Base  
1063 USS Tennessee Ave.  
Kings Bay, Georgia 31547-2606  

Re: Water Quality Certification  
Joint Public Notice No. SAS-2005-01790  
Kings Bay Inner/Entrance Channels Maintenance Dredging  
Coastal Zone  
Camden County  

Dear Capt. Guffy:  

Pursuant to Section 401 of the Federal Clean Water Act, the State of Georgia issues this certification to the U.S. Navy, Kings Bay Submarine Base, an applicant for a federal permit or license to conduct an activity in, on or adjacent to the waters of the State of Georgia. This certification supersedes the prior certification issued to you on March 12, 2014.  

The State of Georgia certifies that there is no applicable provision of Section 301; no limitation under Section 302; no standard under Section 306; and no standard under Section 307, for the applicant's activity. The State of Georgia certifies that the applicant’s activity will comply with all applicable provisions of Section 303.  

This certification is contingent upon the following conditions:  

1. All work performed during construction will be done in a manner so as not to violate applicable water quality standards.  

2. No oils, grease, materials or other pollutants will be discharged from the construction activities which reach public waters.  

3. The applicant must notify Georgia EPD of any modifications to the proposed activity.  

4. All hopper dredging activities must be restricted to December 15 through March 31, when sea turtles are least abundant, unless prior approval is obtained from the Georgia DNR Wildlife Resources Division. This time period is consistent with the recommendations of the NMFS South Atlantic Regional Biological Opinion and the Corps’ South Atlantic Division Protocols. Please contact Mr. Mark Dodd at the Wildlife Resources Division for approval, at (912) 506-7260 or Mark.Dodd@dnr.state.ga.us. Sea turtle takes must be reported to the Wildlife Resources Division within 24 hours. Hopper dredging activities will be halted if sea turtle takes exceed the limits specified by NOAA. Bed leveling equipment may not be used unless approved by Georgia DNR.
5. Hopper dredges must utilize protected species observers, and have 100% inflow and outflow screening that is kept functional to the maximum extent practicable. A copy of all Inspection Checklists for hopper dredge operations should be provided to the Georgia DNR, Wildlife Resources Division after each inspection. Copies should be sent to the attention of Mr. Mark Dodd, Senior Wildlife Biologist, One Conservation Way, Brunswick, GA 31522, or via email, Mark.Dodd@dnr.state.ga.us.

6. Kings Bay and Corps Jacksonville District (SAJ) personnel should coordinate access to all available hopper dredge events with Georgia DNR personnel, to enable observation and inspection of sea turtle monitoring and protection equipment (inflow, outflow, draghead deflectors).

7. The project shall be periodically reviewed by Georgia EPD to consider changed conditions that may affect this 401 certification, including but not limited to new dredging technologies, environmental conditions, laws, regulations, and modifications to the project. It is expected that these reviews would generally be performed annually. The 401 certification will be modified as appropriate.

This certification does not relieve the applicant of any obligation or responsibility for complying with the provisions of any other laws or regulations of other federal, state or local authorities.

It is your responsibility to submit this certification to the appropriate federal agency.

Sincerely,

Judson H. Turner
Director

cc: Ms. Kimberly Garvey, Corps
Ms. Sherele Reinhardt, Corps
Ms. Wendy Dauberman-Zerby, USACE Jacksonville District
Mr. Eric Somerville, US EPA
Mr. Strant Colwell, US FWS
Ms. Kelie Moore, CRD
Mr. Mark Dodd, WRD
Ms. Jaclyn Daly, NMFS