### APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

#### SECTION I: BACKGROUND INFORMATION

- A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): August 9, 2017
- B. DISTRICT OFFICE, FILE NUMBER, FILE NAME: JD Form 1 of 2; SAC-2017-00736 Belle Park Parcel 2

## C. PROJECT LOCATION AND BACKGROUND INFORMATION:

 State: South Carolina
 County/parish/borough: Horry
 City: North Myrtle Beach

 Center coordinates of site (lat/long in degree decimal format):
 Lat. 33.8205° N, Long. -78.6906 ° W.

 Universal Transverse Mercator:
 NAD 83

Name of nearest waterbody: Unnamed Tributary of the Atlantic Ocean

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: The Aquatic Resource on-site does not flow into a TNW.

Name of watershed or Hydrologic Unit Code (HUC): Coastal SC Drainage HUC: 0030208\_03

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

#### D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s): May 24, 2017

#### SECTION II: SUMMARY OF FINDINGS A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** *"navigable waters of the U.S."* within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]

Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

# B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There Are no "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

# 1. Waters of the U.S.

- a. Indicate presence of waters of U.S. in review area (check all that apply): <sup>1</sup>
  - TNWs, including territorial seas
  - Wetlands adjacent to TNWs
  - Relatively permanent waters<sup>2</sup> (RPWs) that flow directly or indirectly into TNWs
  - Non-RPWs that flow directly or indirectly into TNWs
  - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
  - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
  - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
  - Impoundments of jurisdictional waters
  - Isolated (interstate or intrastate) waters, including isolated wetlands
- b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: width (ft) and/or acres. Wetlands: acres.
- **c.** Limits (boundaries) of jurisdiction based on: Pick List, Pick List, Pick List Elevation of established OHWM (if known):
- 2. Non-regulated waters/wetlands (check if applicable):<sup>3</sup> [Including potentially jurisdictional features that upon assessment are NOT waters or wetlands]

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup> Supporting documentation is presented in Section III.F.

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: The site includes a 0.017 acre isolated non-jurisdictional wetland. The wetland is surrounded on all sides by soils that do not meet any hydric soils criteria and that disrupt any hydrologic connection between the wetland and any other WOUS. The entire perimeter of the wetland was observed in the field during a site visit conducted on May 24, 2017.

#### SECTION III: CWA ANALYSIS

# A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

# 1. TNW

Identify TNW:

Summarize rationale supporting determination:

## 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

#### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

#### 1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size:	Pick Lis	t;
Drainage area:	<b>Pick List</b>	
Average annual rainfa	ll: i	nches
Average annual snowf	all: i	nches

# (ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>

 Tributary flows directly into TNW.
 Tributary flows through **Pick List** tributaries before entering TNW.

 Project waters are **Pick List** river miles from TNW.
 Project waters are **Pick List** river miles from RPW.

Project waters are **Pick List** aerial (straight) miles from TNW. Project waters are **Pick List** aerial (straight) miles from RPW.

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

		Project waters cross or serve as state boundaries. Explain:
		Identify flow route to TNW <sup>5</sup> : . Tributary stream order, if known:
	(b)	General Tributary Characteristics (check all that apply):         Tributary is:       Image: Natural imag
		Tributary properties with respect to top of bank (estimate):         Average width:       feet         Average depth:       feet         Average side slopes:       Pick List.
		Primary tributary substrate composition (check all that apply):          Silts       Sands       Concrete         Cobbles       Gravel       Muck         Bedrock       Vegetation. Type/% cover:       Other. Explain:
		Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain:       .         Presence of run/riffle/pool complexes. Explain:       .         Tributary geometry:       Pick List.         Tributary gradient (approximate average slope):       %
	(c)	<u>Flow:</u> Tributary provides for: <b>Pick List</b> Estimate average number of flow events in review area/year: <b>Pick List</b> Describe flow regime: . Other information on duration and volume: .
		Surface flow is: <b>Pick List.</b> Characteristics: . Subsurface flow: <b>Pick List</b> . Explain findings:
		$\Box$ Dye (or other) test performed:
		Tributary has (check all that apply):       Bed and banks         Bed and banks       Hermitian indicators that apply):         CHWM <sup>6</sup> (check all indicators that apply):       the presence of litter and debris         clear, natural line impressed on the bank       destruction of terrestrial vegetation         changes in the character of soil       destruction of terrestrial vegetation         shelving       the presence of wrack line         vegetation matted down, bent, or absent       sediment sorting         leaf litter disturbed or washed away       scour         sediment deposition       multiple observed or predicted flow events         water staining       abrupt change in plant community         other (list):       .
		If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: oil or scum line along shore objects fine shell or debris deposits (foreshore) physical markings/characteristics tidal gauges other (list):
(iii)		emical Characteristics: aracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain:

<sup>&</sup>lt;sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW. <sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. <sup>7</sup>Ibid.

Identify specific pollutants, if known:

.

# (iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width):
- Wetland fringe. Characteristics:
- Habitat for:
  - Federally Listed species. Explain findings:
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings:

# 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

#### (i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u> Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:
- (b) <u>General Flow Relationship with Non-TNW</u>: Flow is: **Pick List**. Explain:

Surface flow is: **Pick List** Characteristics:

Subsurface flow: **Pick List**. Explain findings: Dye (or other) test performed:

#### (c) <u>Wetland Adjacency Determination with Non-TNW:</u>

Directly abutting

□ Not directly abutting

- Discrete wetland hydrologic connection. Explain:
- Ecological connection. Explain:
- Separated by berm/barrier. Explain:

# (d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW. Project waters are **Pick List** aerial (straight) miles from TNW. Flow is from: **Pick List**. Estimate approximate location of wetland as within the **Pick List** floodplain.

# (ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:

Identify specific pollutants, if known:

# (iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:
- Habitat for:
  - Federally Listed species. Explain findings:
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings:

# 3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List** Approximately ( ) acres in total are being considered in the cumulative analysis. For each wetland, specify the following:



Summarize overall biological, chemical and physical functions being performed:

# C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

# Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

# Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- **3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

Documentation for the Record only: Significant nexus findings for seasonal RPWs and/or wetlands abutting seasonal RPWs:

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

- TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:
   TNWs: linear feet width (ft), Or, acres.
   Wetlands adjacent to TNWs: acres.
- 2. RPWs that flow directly or indirectly into TNWs.
   Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:

Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters: .

# 3. Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs.

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

.

- Tributary waters: linear feet width (ft).
  - Other non-wetland waters: acres.
    - Identify type(s) of waters:

# 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

#### 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

# 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

### 7. Impoundments of jurisdictional waters.<sup>9</sup>

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from "waters of the U.S.," or
  - Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

Expl	ain:
- AP	

### E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):<sup>10</sup>

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
- from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- which are or could be used for industrial purposes by industries in interstate commerce.
- Interstate isolated waters. Explain:
- Other factors. Explain:

<sup>&</sup>lt;sup>8</sup>See Footnote # 3.

<sup>&</sup>lt;sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup> Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos*.

#### Identify water body and summarize rationale supporting determination:

Provide estimates for jurisdictional waters in the review area (check all that apply):

.

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters:

Wetlands: acres.

### F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
  - Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based <u>solely</u> on the "Migratory Bird Rule" (MBR).

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:

Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland wat	ers (i.e., river	s, streams):	linear feet	width (ft).
Lakes/ponds:	acres.			
Other non-wetlar	d waters:	acres. List t	ype of aquatic res	ource: .

Wetlands: **0.017** acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres.

# SECTION IV: DATA SOURCES.

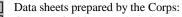
A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Map submitted by the agent titled '' Wetland Delineation of / South State Bank - Belle Park / Parcel 2/ Little River Township, / Horry County, South Carolina / Tax Map Number 140-09-06-012,'' and dated April 27, 2017.

Data sheets prepared/submitted by or on behalf of the applicant/consultant.

 $\boxtimes$  Office concurs with data sheets/delineation report.

Office does not concur with data sheets/delineation report.



Corps navigable waters' study: .

U.S. Geological Survey Hydrologic Atlas:

USGS NHD data.

USGS 8 and 12 digit HUC maps.

U.S. Geological Survey map(s). Cite scale & quad name: Wampee Quad; The USGS topographic survey information within Wampee Quad depicts the project area as an upland forested lot .

USDA Natural Resources Conservation Service Soil Survey. Citation: The USDA NRCS soil survey depicts the site as being comprised of a combination of Leon fine sandy and Johnston loam.

National wetlands inventory map(s). Cite name: **NWIs depict the site as being comprised entirely of saturated palustrine forest.** .

State/Local wetland inventory map(s):

FEMA/FIRM maps:

100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)

.

.

Photographs: Aerial (Name & Date): Horry County Aerial Index 99:11226:81; Google Earth 2016, SCDNR Infrared 2006.

# or 🛛 Other (Name & Date): Site photos submitted by the consultant dated April 28, 2017.

Previous determination(s). File no. and date of response letter: .

Applicable/supporting case law:

Applicable/supporting scientific literature:

Other information (please specify): Horry County LiDAR 2009 depicts a topographic signature similar to the delineation. The isolated wetland on-site is a depressional feature that appears to be separated from other WOUS onsite by a natural upland berm.

B. ADDITIONAL COMMENTS TO SUPPORT JD: The depressional area onsite was determined to meet the three parameters for the identification of a wetland as outlined in the 87 manual however it appears that water that enters the wetland is confined within the wetland and leaves only through evaporation or percolation to an unknown depth. No drainage patterns were observed outside of the isolated wetland. In addition, no hydrologic connection was observed between the on-site wetland and any other WOUS. The wetland was surrounded on all sides by soils that do not meet any hydric soils criteria as outlined in the NRCS Field indicators of Hydric Soils Guide.

The site in question also contains 1 Jurisdictional Tributary and 1 Jurisdictional wetland which are addressed on Basis Form 2 of 2 of this determination.

## APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

# SECTION I: BACKGROUND INFORMATION

#### **REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): August 9, 2017** Δ

#### DISTRICT OFFICE, FILE NUMBER, FILE NAME: JD Form 2 of 2; SAC-2017-00736 Belle Park Parcel 2 **B**.

#### С. **PROJECT LOCATION AND BACKGROUND INFORMATION:**

State: South Carolina County/parish/borough: Horry City: North Myrtle Beach

Center coordinates of site (lat/long in degree decimal format): Lat. 33.8212° N. Long. -78.6896 ° W.

Universal Transverse Mercator: NAD 83 Name of nearest waterbody: Unnamed Tributary of the Atlantic Ocean

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Atlantic Ocean

Name of watershed or Hydrologic Unit Code (HUC): Coastal SC Drainage HUC: 0030208\_03

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

## D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s): May 24, 2017

# SECTION II: SUMMARY OF FINDINGS A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

# B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

#### 1. Waters of the U.S.

# a. Indicate presence of waters of U.S. in review area (check all that apply): <sup>1</sup>

- TNWs, including territorial seas
- Wetlands adjacent to TNWs
  - Relatively permanent waters<sup>2</sup> (RPWs) that flow directly or indirectly into TNWs
- Non-RPWs that flow directly or indirectly into TNWs
  - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
  - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
  - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
  - Impoundments of jurisdictional waters
    - Isolated (interstate or intrastate) waters, including isolated wetlands
- b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: pRPW: linear feet: width (ft) Wetlands: 0.024 acre
- c. Limits (boundaries) of jurisdiction based on: Pick List, 1987 Delineation Manual, Pick List Elevation of established OHWM (if known):
- 2. Non-regulated waters/wetlands (check if applicable):<sup>3</sup> [Including potentially jurisdictional features that upon assessment are NOT waters or wetlands]
  - Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: One non-jurisdictional wetland is located on-site and is addressed in Basis Form 1 of 2 of this determination.

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup> Supporting documentation is presented in Section III.F.

# SECTION III: CWA ANALYSIS

# A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

#### 1. TNW

Identify TNW: Atlantic Ocean.

Summarize rationale supporting determination: The Atlantic Ocean is subject to the ebb and flow of the tide and is currently used for interstate commerce.

#### 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

# B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

- 1. Characteristics of non-TNWs that flow directly or indirectly into TNW
  - (i) General Area Conditions: Watershed size: 175,584 acres; HUC: 03040208-03 Drainage area: 4.4 acres Average annual rainfall: 44.76 inches Average annual snowfall: 2.6 inches

# (ii) Physical Characteristics:

- (a) Relationship with TNW:
  - ☐ Tributary flows directly into TNW. ☑ Tributary flows through **1** tributaries before entering TNW.

Project waters are **1** (or less) river miles from TNW.

Project waters are **1** (or less) river miles from RPW.

- Project waters are **1 (or less)** aerial (straight) miles from TNW.
- Project waters are **1 (or less)** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: Project waters do not cross or serve as state boundaries.

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

Identify flow route to  $TNW^5$ : The sRPW onsite flows into an offsite pRPW that flows into the Atlantic Ocean (a TNW).

Concrete

Tributary stream order, if known: Tributary is a 1st order stream.

(b) <u>General Tributary Characteristics (check all that apply):</u> **Tributary** is: Xatural

☑ Natural
 ☑ Artificial (man-made). Explain:
 ☑ Manipulated (man-altered). Explain:

Tributary properties with respect to top of bank (estimate):

Average width: 9 feet Average depth: >1 feet Average side slopes: 4:1 (or greater).

Primary tributary substrate composition (check all that apply):

🗹 Silts	🛛 Sands	
Cobbles	🛛 Gravel	
Bedrock	Vegetation.	Type/% cover:
Other. Explain:		

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Tributaries in this watershed are typically low gradient, low velocity and therefor do not expierence high levels of erosion and would be considered stable.

Presence of run/riffle/pool complexes. Explain:

Tributary geometry: **Relatively straight**. The tributary is situated in a naturally lowlying drainage area. Tributary gradient (approximate average slope): 1 or less %

(c) <u>Flow:</u>

Tributary provides for: Seasonal flow

Estimate average number of flow events in review area/year: 20 (or greater)

Describe flow regime: Channel flow for at least 3 months a year during seasonal high water table and after nt percipitation events

### significant percipitation events.

Other information on duration and volume: The sRPW recieves overland sheet flow and stormwater drainage from surrounding uplands and overflow and drainage from abutting wetlands,based on evidence such as observable flow, sediment sorting, and drainage patterns, observed during a site visit conducted on May 24, 2017 and was detrmined to be recharged by groundwater during seasonal high water table.

Surface flow is: **Discrete and confined**. Characteristics: **Flow was determined to be confined within the bed and banks** of the onsite tributary based on evidence of OHWM observed during a site visit conducted on May 24, 2017.

Subsurface flow: <b>Unknown</b> . Explain findings:	
Tributary has (check all that apply): Bed and banks OHWM <sup>6</sup> (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining other (list): Discontinuous OHWM. <sup>7</sup> Explain:	<ul> <li>the presence of litter and debris</li> <li>destruction of terrestrial vegetation</li> <li>the presence of wrack line</li> <li>sediment sorting</li> <li>scour</li> <li>multiple observed or predicted flow events</li> <li>abrupt change in plant community</li> </ul>
If factors other than the OHWM were used to determine High Tide Line indicated by: oil or scum line along shore objects fine shell or debris deposits (foreshore) physical markings/characteristics	ne lateral extent of CWA jurisdiction (check all that apply) Mean High Water Mark indicated by: survey to available datum; physical markings; vegetation lines/changes in vegetation types.

<sup>&</sup>lt;sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW. <sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. <sup>7</sup>Ibid.



(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Within the tributary water would be clear with possible turbidity due to suspended solids. No discoloration or oily residue was observed during a site visit conducted on May 24, 2017. Downstream reaches of the sRPW are tidally influenced swash type areas which accept runoff from the surrounding uplands and often have high levels of fecal coliform and low levels of dissolved oxygen. Land use in this watershed consist of approxiamtly 4.1% agrigultural land, 6.6% forested land, 7.6% forested wetland, 18% urban land, 3.6% scrub-shrub, 57.5% water, 1.4% non-forested wetlands and 1.2% baren land. According to the SCDHEC website there is high potential for growth in this watershed.

Identify specific pollutants, if known: The drainage area for the sRPW contains urban land and agricultural fields, therfore the potential exist for herbicides and other pollutants, such as fertilizers to enter the on-site sRPW. This type of land use requires regular manipulation of the soil, which creates increased amounts of suspended sediments within downstream tributaries.

# (iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width):
  - Wetland fringe. Characteristics:
- Habitat for:
  - Federally Listed species. Explain findings:
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: According to "Connectivity of Streams and Wetlands to Downstream Waters: A Review and Synthesis of the Scientific Evidence" prepared by the Office of Research and Development U.S. Environmental Protection Agency, for organisms capable of significant upstream movement, headwater streams, including ephemeral and intermittent streams, can increase both the amount and quality of habitat available to those organisms. Many organisms require different habitats for different resources (e.g., food, spawning habitat, overwintering habitat), and thus move throughout the river network-both longitudinally and laterally—over their life cycles. For example, headwater streams can provide refuge habitat under adverse conditions, enabling organisms to persist and recolonize downstream areas once adverse conditions have abated. Headwater streams also provide food resources to downstream waters: as Progar and Moldenke (2002) state, "...headwater streams are the vertex for a network of trophic arteries flowing from the forest upland to the ocean." Headwater streams and small seasonal RPWs provide habitat for diverse and abundant stream invertebrates and serve as collection areas for terrestrial and riparian invertebrates that fall into them. These aquatic and terrestrial invertebrates can be transported downstream with water flow and ultimately serve as food resources for downstream organisms. Many fish feed on drifting insects, and these organisms can also settle out of the water column and become part of the local benthic invertebrate assemblage in downstream waters. Drift, however, has been shown to increase invertebrate mortality significantly, suggesting that most drifting organisms are exported downstream in the suspended detrital load. The downstream drift of stream invertebrates and the contribution of terrestrial and riparian invertebrates to overall drift have been well documented.

- 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
  - (i) Physical Characteristics:
    - (a) General Wetland Characteristics:
      - Properties:
        - Wetland size: 0.18 acres

Wetland type. Explain: Palustrine Forested.

Wetland quality. Explain: Wetland 1 is a fully functional wetland providing functions such as enhancing wildlife diversity, acting as a catch basins filtering sediment and pollution from the surrounding uplands, supporting the downstream food web, and providing nutrient fixation, flood attenuation, and flow maintenance functions.

Project wetlands cross or serve as state boundaries. Explain: The project wetland does not cross or serve as state

boundaries.

(b) General Flow Relationship with Non-TNW:

Flow is: Intermittent flow. Explain: Flow from wetland 1 into the sRPW is overland sheet flow and ground water seepage. Wetland 1 intercepts the OHWM of the sPRW.

Surface flow is: Overland sheetflow

Characteristics: Flow from wetland 1 into the sRPW is overland sheet flow and ground water seepage. Wetland 1 intercepts the OHWM of the sPRW.

Subsurface flow: **Unknown**. Explain findings: Dye (or other) test performed:

- (c) <u>Wetland Adjacency Determination with Non-TNW:</u>
  - Directly abutting

Not directly abutting

Discrete wetland hydrologic connection. Explain: Flow from wetland 1 into the sRPW is overland sheet flow and ground water seepage. Wetland 1 intercepts the OHWM of the sPRW.

- Ecological connection. Explain:
- Separated by berm/barrier. Explain:
- (d) <u>Proximity (Relationship) to TNW</u>

Project wetlands are 1 (or less) river miles from TNW. Project waters are 1 (or less) aerial (straight) miles from TNW. Flow is from: Wetland to navigable waters. Estimate approximate location of wetland as within the 500-year or greater floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: The wetland within the project area is a fully functional forested wetland. A high water table and saturation was observed. No oily film or discoloration was observed.

Identify specific pollutants, if known: The review area is located within a predominatly urban devoloped watershed. Land use in this watershed consist of approximately 4.1% agrigultural land, 6.6% forested land, 7.6% forested wetland, 18% urban land, 3.6% scrub-shrub, 57.5% water, 1.4% non-forested wetlands and 1.2% baren land. According to the SCDHEC website there is high potential for growth and development in this watershed. The potential exist for herbicides, fuels, lawn fertalizers, pet waste and other pollutants to enter the down stream TNW. Run off from highways and directly from urban areas provides the potential for increased fertilizers and fecal coliform as well as oils and other chemicals used in vehicles and on lawns. These types of pollutants have the potential to effect dissolved oxygen levels, turbitity, and total nitrogen in a system documented as having a significant decreasing trends in dissolved oxygen concentration and increasing trends five-day biochemical oxygen demand, turbidity, and total nitrogen

concentration.

(iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain: Vegetation within the wetland consists of predominantly Fac and Fac Wet.

.

### Habitat for:

- Federally Listed species. Explain findings:
- Fish/spawn areas. Explain findings:
- Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: This wetland system enhances wildlife diversity through timber type changes and the transition between upland and aquatic systems.

## 3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: 2 Approximately (>1) acres in total are being considered in the cumulative analysis. For each wetland, specify the following:



Summarize overall biological, chemical and physical functions being performed: **The similarly situated wetlands** contribute vital biological, chemical, and physical functions to the downstream TNW. This wetland system enhances wildlife diversity, acts as catch basins filtering sediment and pollution from the surrounding uplands, supports the downstream food web, and provides nutrient fixation, flood attenuation, and flow maintenace functions. (Wetlands adjacent to the tributary were determined by using a combination of NWI maps and the wetlands delineated as part of this determination).

#### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

# Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

# Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: The sRPW that is assessed in this form, along with all similarly situated adjacent freshwater wetlands are collectively performing functions consistent with the following: Biologically, wetlands adjacent to the sRPW include depressional wetlands. As such a variety of biological functions are being performed which include providing breeding grounds and shelter for aquatic species and foraging areas for wetland dependent species. These wetlands and the adjacent sRPW are essential in providing organic carbons in the form of their collective primary productivity to downstream waters, resulting in the nourishment of the downstream food web. Chemically, the sRPW and adjacent wetlands are providing the important collective functions of removal of excess nutrients into the downstream TNW. These pollutants, which are contributed to by runoff from surrounding uplands are prevented from being discharged downstream due to suspended sediments and other pollutants being retained within the wetlands. The low velocity of and gradient of the sRPW also contribute to the removal of pollutants because the suspended pollutants have time to settle out of the water. This reduces nitrogen and phosphorous loading downstream and effectively prevents oxygen depletion that can result from eutrophication. Physically, the sRPW and adjacent wetlands are collectively performing flow maintenance functions, including retaining runoff inflow and storing rain water, temporarily. Flow maintenance results in the reduction of downstream peak flows (discharge and volume), helping to maintain seasonal flow volumes and reducing the frequency of overbank events which flood adjacent properties. Increased water velocity also increases the amount of sediments and other pollutants in the TNW.

Based on the collective functions described above and their importance to the biological, chemical, and physical integrity of the traditional navigable waters of the Waccamaw River it has been determined that there is a significant nexus between the relevant reach of the tributary and all adjacent wetlands to the downstream TNW.

Documentation for the Record only: Significant nexus findings for seasonal RPWs and/or wetlands abutting seasonal RPWs: .

- DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT D. **APPLY):** 
  - TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: 1. TNWs: linear feet Wetlands adjacent to TNWs: width (ft), Or, acres. acres.
  - 2. RPWs that flow directly or indirectly into TNWs.
    - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:.
    - Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: The off site RPW addressed in this document was determined to be a seasonal RPW based on a site visit conducted on May 24, 2017. The channel was clear of leaf litter and debris, the sRPW had an obvious bed and bank and contiuous OHWM. The feature is situated in a naturally low lying drainage area and drainage patterns were observed in uplands and wetlands leading to the sRPW.

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: linear feet width (ft).  $\Box$ 
  - Other non-wetland waters: acres.
  - Identify type(s) of waters:

#### 3. Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs.

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

acres.

Tributary waters: linear feet width (ft).

Other non-wetland waters:

Identify type(s) of waters:

#### 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: The jurisdictinal onsite wetlands onsite flow directly into the offsite sRPW via a culvert beneath 9th Avenue South. A site visit conducted on May 24, 2017 revealed that there are no natural or man made barriers to obstruct the physical, biological, or chemical connection between the onsite wetland and the sRPW.

Provide acreage estimates for jurisdictional wetlands in the review area: .024 acres.

#### Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. 5.

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

#### 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

<ul> <li>7. Impoundments of jurisdictional waters.<sup>9</sup> <ul> <li>As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.</li> <li>Demonstrate that impoundment was created from "waters of the U.S.," or</li> <li>Demonstrate that water meets the criteria for one of the categories presented above (1-6), or</li> <li>Demonstrate that water is isolated with a nexus to commerce (see E below).</li> </ul> </li> <li>Explain:</li> </ul>
ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY): <sup>10</sup> which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain: Other factors. Explain:
Identify water body and summarize rationale supporting determination:
<ul> <li>Provide estimates for jurisdictional waters in the review area (check all that apply):</li> <li>Tributary waters: linear feet width (ft).</li> <li>Other non-wetland waters: acres.</li> <li>Identify type(s) of waters: .</li> <li>Wetlands: acres.</li> </ul>
<ul> <li>NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):</li> <li>If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.</li> <li>Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.</li> <li>Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).</li> <li>Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:</li> <li>Other: (explain, if not covered above):</li> </ul>
Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: acres. <b>One non-jurisdictional wetland is located on-site and is documented on Basis Form 1 of 2</b>
<ul> <li>Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):</li> <li>Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).</li> <li>Lakes/ponds: acres.</li> <li>Other non-wetland waters: acres. List type of aquatic resource: .</li> <li>Wetlands: acres.</li> </ul>

#### SECTION IV: DATA SOURCES.

E.

F.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Map submitted by the agent titled "Wetland Delineation of / South State Bank - Belle Park / Parcel 2 / Little River Township, / Horry County, South Carolina / Tax Map Number 140-09-06-012," and dated April 27, 2017..

Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report.

<sup>&</sup>lt;sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup> Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Office does not concur with data sheets/delineation report.

Data sheets prepared by the Corps:
 Corps navigable waters' study:
 U.S. Geological Survey Hydrologic Atlas:

USGS NHD data.

USGS 8 and 12 digit HUC maps.

U.S. Geological Survey map(s). Cite scale & quad name: Wampee Quad; The USGS topographic survey information within Wampee Quad depicts the project area as an upland forested lot .

USDA Natural Resources Conservation Service Soil Survey. Citation: The USDA NRCS soil survey depicts the site as being comprised of a combination of Leon fine sandy and Johnston loam.

National wetlands inventory map(s). Cite name: **NWIs depict the site as being comprised entirely of saturated palustrine** forest. .

State/Local wetland inventory map(s):

FEMA/FIRM maps: . 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)

.

Photographs: 🖾 Aerial (Name & Date): Horry County Aerial Index 99:11226:81; Google Earth 2016, SCDNR Infrared 2006.

or 🛛 Other (Name & Date): Site photos submitted by the consultant dated April 28, 2017.

Previous determination(s). File no. and date of response letter: .

 $\square$ Applicable/supporting case law:

Applicable/supporting scientific literature:

**B.** ADDITIONAL COMMENTS TO SUPPORT JD: Flow was observed within the offsite sRPW during a site visit conducted on May 24, 2017. Sediment sorting and a channel clear of debris and vegetation were also observed. The jurisdictional wetland on site intercepts the OHWM of the sRPW. The jurisdictinal onsite wetlands onsite flow directly into the offsite sRPW via a culvert beneath 9<sup>th</sup> Avenue South. A site visit conducted on May 24, 2017 revealed that there are no natural or man made barriers to obstruct the physical, biological, or chemical connection between the onsite wetland and the sRPW The sPRW continues offsite, beneath U.S. Highway 17 where it intersects with a pRPW which flows directly into the Atlantic Ocean.

The site in question also contains 1 Non-Jurisdictional wetland which is addressed on Basis Form 1 of 2 of this determination.