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): November 21, 2011

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form3 of 3; SAC #2011-01124-3JH, Farrow Parkway Remainder of Tract 2

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C.	PROJECT LOCATION AND BACKGROUND INFORMATION: State: South Carolina County/parish/borough: Horry City: Myrtle Beach Center coordinates of site (lat/long in degree decimal format): Lat. 33.678° N, Long78.953° W. Universal Transverse Mercator: Name of nearest waterbody: Un-named Tributary of the Atlantic Intracoastal Waterway (AIWW) Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: AIWW Name of watershed or Hydrologic Unit Code (HUC): Waccamaw: HUC 03040206 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): November 10, 2011
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
revi	Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the iew 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:
В.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	ere 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): TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters ² (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: 430 linear feet: 27' width (ft) and/or acres. Wetlands: W-1, 2, 3, 4, 7, 8, totals- 13.23 acres.
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual, Established by OHWM., Pick List Elevation of established OHWM (if known):
	 Non-regulated waters/wetlands (check if applicable):³ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional Explain: Documented on basis forms 1 and 2 of 3.

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.
² 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).

³ 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:	
	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 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:

Watershed size: 136.317 acres: HUC: 03040206-09

(i) General Area Conditions:

Drainage area: 525 acres Average annual rainfall: 52 inches Average annual snowfall: 0 inches (ii) Physical Characteristics: (a) Relationship with TNW: ☐ Tributary flows directly into TNW. ☐ Tributary flows through 2 tributaries before entering TNW. Project waters are Proj

Identify flow route to TNW^5 : Flow of onsite tributary is to the west to its confluence with another un-named tributary that flows to the west outfalling into the AIWW (TNW).

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ 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.

	Tributary stream order, if known:		
(b) widening.	General Tributary Characteristics (check all that apply): Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain: Tributary has been man-altered by straightening and		
wideling.	Tributary properties with respect to top of bank (estimate): Average width: 27 feet Average depth: 6 feet Average side slopes: 2:1.		
	Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain:		
with grasses;	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Tributary banks are forested and seeded no evidence of erosion or sloughing Presence of run/riffle/pool complexes. Explain: Tributary geometry: Relatively straight. Tributary gradient (approximate average slope): 1 %		
(c) Flow: Tributary provides for: Perennial flow Estimate average number of flow events in review area/year: 11-20 Describe flow regime: Flow was observed during the site visit of 11/10/11 under drought conditions. has been observed flowing during previous site visits. Flow of tributary has been determined to be 90% of the year Other information on duration and volume: Surface flow is: Confined. Characteristics: Confined within the bed and banks of tributary Subsurface flow: Pick List. Explain findings: Dye (or other) test performed:			
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by:		
	emical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Water observed within the tributary was discolored with an oily film. Land use in the drainage area is		

⁶A 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. ⁷Ibid.

largely urban development with some forestland. Tributary headwaters are within the project area, in an urban/semi-urban drainage area; runoff associated with urban development is likely to enter the tributary.

Identify specific pollutants, if known: Sediments and pollutants carried by stormwater runoff from roads and urban development are likely. Refuse was observed along the banks of the tributary.

indicate	Biological Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): Tributary flows through a forested area that aerial photos to include both uplands and wetlands. Both the upland and wetland forest areas shade and buffer the tributary and filtering of runoff before it enters the tributary.
minnows, tad	 Wetland fringe. Characteristics: See above statement. Habitat for: ☐ Federally Listed species. Explain findings: ☐ Fish/spawn areas. Explain findings: ☐ Other environmentally-sensitive species. Explain findings: ☐ Aquatic/wildlife diversity. Explain findings: Evidence of foraging, nesting, and travel corridors as well as lpoles and small macrofauna were observed in the triburary.
2. Cha	aracteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
(i)	Physical Characteristics: (a) General Wetland Characteristics: Properties: Wetland size: Wetlands 8, 7, 1, 2, 3, &4 total 13.23 acres Wetland type. Explain: Palustrine-forested. Wetland quality. Explain: Forested fully functional. Project wetlands cross or serve as state boundaries. Explain:
	(b) General Flow Relationship with Non-TNW: Flow is: Ephemeral flow. Explain: Wetlands within the project area are non-abutting the onsite tributary. Flow of to tributary is through a series of non-jurisdictional ditches located adjacent to each wetlands. Flow occurs during th wetter nd after storm events
	Surface flow is: Confined Characteristics: Flow is through adjacent non-jurisdictional ditches. Subsurface flow: Unknown. Explain findings: Dye (or other) test performed:
	(c) Wetland Adjacency Determination with Non-TNW: ☐ Directly abutting ☐ Not directly abutting ☐ Discrete wetland hydrologic connection. Explain: Flow to tributary is through adjacent roadside ditches ☐ Ecological connection. Explain: ☐ Separated by berm/barrier. Explain:
	(d) Proximity (Relationship) to TNW Project wetlands are 1-2 river miles from TNW. Project waters are 1-2 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: General watershed consists of developed urban areas adjacent to the site both upstream and downstream of the tributary. Urban development is continuing in this area, resulting in fewer and more fragmented wetlands and altered, more rapid runoff following rain events.
Parkway the TNV	Identify specific pollutants, if known: It's reasonable to expect trash from the adjacent development and Farrow v, as well as pollutants carried by stormwater runoff from the parking areas can enter tributary and be transported to V.
(iii)	Biological Characteristics. Wetland supports (check all that apply): Riparian buffer. Characteristics (type, average width): Vegetation type/percent cover. Explain: Dominant vegetation is FACW and OBL; Area Forested

\boxtimes	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 t	transition between unland and equatic systems

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

All wetland(s) being considered in the cumulative analysis: 10 Approximately (40) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
W-1 (N)	0.247	Offsite wetlands (Y)	15
W-2 (N)	2.642	Offsite Wetlands (N)	10
W-3 (N)	4.863		
W-4 (N)	0.895		
W-7 (N)	3.854		
W-8 (N)	0.729		

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 pollutants from surrounding urban development, supports the downstream food web, and provides nutrient fixation, flood attenuation and flow maintenance functions. See III.C.3. below for more details.

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 wetlands adjacent to the perennial RPW include mixed hardwood/pine palustrine forested depressional wetlands. The

wetlands which are similarly situated and adjacent to the RPW are collectively performing functions consistent with following: Biological- A variety of biological functions are being performed which include providing breeding grounds, shelter, foraging, nesting and travel corridors for aquatic and wetland-dependent species. They enhance wildlife diversity through timber type changes and the transition between upland and aquatic systems. The wetlands are essential in providing collective primary productivity to downstream waters by supplying organic carbon, resulting in the nourishment of the downstream food web. Chemical- The wetlands and tributary within the review area are providing the important collective functions of removal of excess nutrients which are contributed by runoff from surrounding urban areas, reducing nitrogen and phosphorus loading downstream, and effectively preventing oxygen depletion that can result from eutrophication. Physical- The wetlands and tributary in the review area are collectively filtering sediments and pollutants carried by stormwater runoff from roads, urban development and silviculture areas. They are providing flood attenuation and flow maintenance functions by retaining runoff and releasing it slowly, which results in the reduction of downstream peak flows (discharge and volumes) and lower continuous flow volumes. Wetlands such as the ones identified in this reach are actively storing stormwater runoff from adjacent developments. Based on the collective functions described above and their importance to the biological, chemical, and physical integrity of the traditional navigable waters of the Atlantic Intracoastal Waterway (AIWW), it has been determined that there is a positive significant nexus between the relevant reach of the tributary and 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 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: The channel of the tributary has a firm stream bed under a layer of silt. Water was observed flowing under drought conditions and during the growing season. Terrestrial vegatation was absent to where the OHWM was determined. The tributary exibited hydrologic and geomorphic indicators typical of a perennial tributar located within the Coastal zone of South Carolina.
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: 430 linear feet 27 width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .
3. Non-RPWs ⁸ 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: .
 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.

D.

⁸See Footnote # 3.

	5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into 1NWs. 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: 13.23 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. 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). Explain:
E.	DE SUC	DLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH WATERS (CHECK ALL THAT APPLY): 10 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:
	Ide	ntify water body and summarize rationale supporting determination:
		vide 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.		N-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 solely 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): Documented on basis 2 of 3
	fact	vide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR ors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional gment (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.
		vide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such ading 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: .

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
¹⁰ 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.

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):	cked
Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Report and maps provided by S&ME/Plat Thomas & Hutton, dated 8/11/11 and titled "WETLAND SURVEY OF THE REMAINDER OF TRACT 2 ON LANDS OF MYRTLE BEACH PROPERTY DEVELOPMENT, LLC.	
Data sheets prepared/submitted by or on behalf of the applicant/consultant.	
Office concurs with data sheets/delineation report. The exact location where the data points were collected was not vis	ited
however, in general the data forms represent the typical soils, vegetation, and indicators of hydrology throughout the tract.	
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. HUC 03040206-09	
 U.S. Geological Survey map(s). Cite scale & quad name: Myrtle Beach: Depicts forested, non-wetland area for wetland. USDA Natural Resources Conservation Service Soil Survey. Citation: Horry County Soil Survey page 87 depicts the soil t 	ypes
of Yemassee, Oggeechee, & Meggett. The soil types Ogeechee and Meggett are listed on the National Hydric Soils List. In	
addition, the soil survey depicts the RPW as a intermittent stream within the project area.	_
National wetlands inventory map(s). Cite name: HorryNWI depicts the project area as U42P (Upland planted pines), U1	.7
(Other Upland) and PFO1/4Bd (forested wetland).	
State/Local wetland inventory map(s):	
FEMA/FIRM maps:	
100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)	- 4
Photographs: Aerial (Name & Date): 2006 SCDNR and 2011 Google Earth Photos. Both aerials depict a signature that	at
typically represents wetlands and a tributary.	
or ☐ Other (Name & Date): Previous determination(s). File no. and date of response letter: SAC 2008-00070-3JH, Letter dated September 30, 2008.	
Applicable/supporting case law:	
Applicable/supporting case law: Applicable/supporting scientific literature:	
Other information (please specify):	
Unit information (please specify).	

Wetlands:

acres.

B. ADDITIONAL COMMENTS TO SUPPORT JD: Limits of jurisdiction for tributary was established by a well defined OHWM. Tributary was determined to be an RPW with perennial flow. Site visit was performed on November 10 & June 20, 2011 under drought conditions where water was observed flowing within the tributary on both site visits. Limits of jurisdiction for the onsite wetlands were established by the 1987 Corps Delineation Manual. Wetlands were determined to be non-abutting the onsite manaltered tributary. A positive significant nexus has been documented in Section III.C for both the tributary with perennial flow and the adjacent wetlands.

The isolated, non-jurisdictional wetland (W-5) is documented on basis form 1 of 3. The remaining jurisdictional wetland (W-6) is documented on basis form 2 of 3.