## 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.

# REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): March 16, 2015 B. DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 1 of 2; SAC 2014-00622-2JY Limehouse Tract C. PROJECT LOCATION AND BACKGROUND INFORMATION: State: South Carolina County/parish/borough: **Dorchester** City: Summerville Center coordinates of site (lat/long in degree decimal format): Lat. 32.9756° N, Long. -80.2262° W. Universal Transverse Mercator: Name of nearest waterbody: Sawmill Branch Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Ashlev River Name of watershed or Hydrologic Unit Code (HUC): 03050201-06, Ashley River 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): December 10, 2014 and January 21, 2015 **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. 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: linear feet: width (ft) and/or Wetlands: 3.02 acres; Wetland C= 2.96 ac, Wetland E= 0.05 ac, Wetland F= 0.01 ac

Non-regulated waters/wetlands (check if applicable): [Including potentially jurisdictional features that upon

c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual, Atlantic and Gulf Coastal Plain Regional Supplement

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.

Explain:

Elevation of established OHWM (if known):

assessment are NOT waters or wetlands]

**SECTION I: BACKGROUND INFORMATION** 

<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:	
	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

**General Area Conditions:** 

## Watershed size: Pick List: Drainage area: **Pick List** Average annual rainfall: inches Average annual snowfall: inches (ii) Physical Characteristics: (a) Relationship with TNW: ☐ 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. Project waters cross or serve as state boundaries. Explain: Identify flow route to TNW<sup>5</sup>: Tributary stream order, if known:

<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.

<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.

(b)	General Tributary Characteristics (check all that apply):  Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain:
	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 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)	Flow: Tributary provides for: Pick List Estimate average number of flow events in review area/year: Pick List Describe flow regime: Other information on duration and volume:
	Surface flow is: Pick List. Characteristics: .
	Subsurface flow: <b>Pick List</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. Explain:
	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):  Mean High Water Mark indicated by: survey to available datum; physical markings; vegetation lines/changes in vegetation types.
Cha	emical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.) Explain: .tify specific pollutants, if known:

(iii)

<sup>&</sup>lt;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.

	(iv)		logical 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.	Cha	ract	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)		Sical Characteristics: General Wetland Characteristics: Properties: Wetland size: acres Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain:
		(b)	General Flow Relationship with Non-TNW: Flow is: Pick List. Explain:
			Surface flow is: Pick List Characteristics:
			Subsurface flow: Pick List. Explain findings:  Dye (or other) test performed:
		(c)	Wetland Adjacency Determination with Non-TNW:  ☐ 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)	Cha	emical Characteristics:  aracterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:  attify specific pollutants, if known:
	(iii)	Biol	logical 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.	Cha	All	wetland(s) being considered in the cumulative analysis: Pick List proximately ( ) 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):

1.	TNWs and Adjacent Wetlands.	Check all that app	ly 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: Because the RPW was not located onsite, field observations occurred at a road crossing where

	evidence of perennial flow was observed. Additionally, aerial photography, NWI and topographic maps confirmed that the RPW has perennial flow and a downstream connection to a TNW.
	☐ 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: The wetlands onsite are part of a larger wetland system that directly abuts an RPW offsite, as evidenced by aerial photography, NWI, and topographic maps. Because the RPW was not part of the project area, field observations could not be made. Wetlands C, F and E are part of the wetland system that abut the 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: 3.02 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 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.
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:
DE	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

E.

 <sup>8</sup>See Footnote # 3.
 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.

	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:
	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 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):
	Provide acreage estimates for non-jurisdictional waters in the review area, where the sole 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.
	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.
SEC	CTION 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: Prepared by Derrick Myers of Newkirk Environmental, Inc   Data sheets prepared/submitted by or on behalf of the applicant/consultant.   Office concurs with data sheets/delineation report; Office concurs with the overall conclusions reached.   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: Stallsville.   USDA Natural Resources Conservation Service Soil Survey. Citation: Dorchester Soil Sheet 42   National wetlands inventory map(s). Cite name: Dorchester NWI. State/Local wetland inventory map(s):   FEMA/FIRM maps:   100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)   Photographs: Aerial (Name & Date): 2006 Aerial Photographs, 2007 Google Earth Imagery, 2010 Google Earth Imagery, 2014 Google Earth Imagery.   Of More (Name & Date): Photos from site visit dated December 10, 2014 and January 21, 2015.
	Previous determination(s). File no. and date of response letter: SAC-2005-05549.  Applicable/supporting case law: Applicable/supporting scientific literature: Other information (please specify): Site Inspection Report in file.

B. ADDITIONAL COMMENTS TO SUPPORT JD: This is form 1 of 2 for the property in question. This JD form documents the jurisdictional status of one perennial RPW and wetlands adjacent to it where the adjacency is directly abutting. On this basis, the perennial RPW and the adjacent wetlands documented on this form are within the jurisdiction of the Clean Water Act.

Wetlands C, F and E onsite were determined to be part of a larger wetland system that directly abut an offsite RPW. This system was determined to have a direct hydrologic connection to the downstream TNW via the offsite perennial RPW. Because the RPW was not located onsite, it could not be observed in the field. However, aerial photography, NWI and topographic maps show that the feature provides a direct downstream connection to Sawmill Branch. Sawmill Branch then flows directly into the Ashley River, a TNW

# 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.

<b>A.</b> :	REPORT COMPLETION DATE FOR	APPROVED JURISDICTIONAL	DETERMINATION (JI	D): March 16,	, 2015
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В

В.	DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 2 of 2; SAC 2014-00622-2JY Limehouse Tract
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: State: South Carolina County/parish/borough: Dorchester City: Summerville Center coordinates of site (lat/long in degree decimal format): Lat. 32.9756° N, Long80.2262° W.  Universal Transverse Mercator: Name of nearest waterbody: Sawmill Branch
	Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Ashley River  Name of watershed or Hydrologic Unit Code (HUC): 03050201-06, Ashley River  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): December 10, 2014 and January 21, 2015
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the ew 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.
The	re 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 <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: 3168.8 linear feet: width (ft) and/or acres.  Wetlands: 44.81 acres; Wetland A= 3.21 ac, Wetland B= 41.58 ac, Wetland G= 0.02 ac.
Plai	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual, Established by OHWM., Atlantic and Gulf Coastal n Regional Supplement

Elevation of established OHWM (if known):

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

# 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: An area that was flagged and identified by the agent as Wetland D, an "isolated wetland" was determined by the Corps to be an upland area. This area did not meet hydrologic indicators. Additionally, the linear feature that was constructed as part of the development to drain the stormwater pond adjacent to wetland A, was determined to be an upland cut drainage ditch, excavated wholly in uplands to drain uplands. However, this feature does provide a continuous hydrologic connection for wetland A to the downstream TNW. While not shown on the survey plat, this conveyance is depicted on a supplemental sketch in the project file.

#### 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

(i)	General Area Conditions:		
` /	Watershed size: 86887 acres; Ashley River Watershed, HUC-03050201-06		
	Drainage area: 13780 acres		
	Average annual rainfall: <b>53.47</b> inches		
	Average annual snowfall: 1 inches		
(ii)	Physical Characteristics:		
	(a) Relationship with TNW:		
	☐ Tributary flows directly into TNW.		
	$\overline{\boxtimes}$ Tributary flows through 2 tributaries before entering TNW.		

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

<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 are 2-5 river miles from TNW.  Project waters are 1 (or less) river miles from RPW.  Project waters are 2-5 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:
	Identify flow route to $TNW^5$ : The wetland A onsite flows through a non-jurisdictional stormwater detention pond and man-made linear feature directly into the perennial RPW onsite, which flows directly into Sawmill Branch and then into the Ashley River, a TNW. Wetlands B and G onsite directly abut the pRPW. Tributary stream order, if known:
(b)	General Tributary Characteristics (check all that apply):  Tributary is: Natural  Artificial (man-made). Explain:  Manipulated (man-altered). Explain:
	Tributary properties with respect to top of bank (estimate):  Average width: 5-10 feet  Average depth: 3-5 feet  Average side slopes: 3:1.
	Primary tributary substrate composition (check all that apply):  Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: 10 Other. Explain:
avidance of a	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: The pRPW has stable banks with little
evidence of e	Presence of run/riffle/pool complexes. Explain:
some areas.	Tributary geometry: Relatively straight. The tributary is relatively straight however, it has gentle meanders in The onsite portion of the tributary has not been affected by man at this time.  Tributary gradient (approximate average slope):
(c)	Flow: Tributary provides for: Perennial flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: The tributary flows year round with heavier flows after rain events. Other information on duration and volume:
	Surface flow is: <b>Discrete and confined.</b> Characteristics:
	Subsurface flow: Unknown. Explain findings:  Dye (or other) test performed:
	Tributary has (check all that apply):
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):  High Tide Line indicated by:  Mean High Water Mark indicated by:

<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.

	oil or scum line along shore objects fine shell or debris deposits (foreshore) physical markings/characteristics physical markings/characteristics physical markings; vegetation lines/changes in vegetation types.  other (list):
Cha	emical Characteristics:  aracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).  Explain: The water in the tributary was clear. However, pollutants from residential and commercial development and traffic, i.e. oil and gas roadway runoff, sediments from construction, etc. are likely in this area due to recent and ongoing development activities.  https://emicro.org/likely/sediments/sediment
$\boxtimes$	logical Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): Based on a site visit and information available from infrared graphs, the tributary is surrounded by riparian buffer 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: The tributary provides potential for aquatic species and other
wildlife. 2. Charact	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
constructing numerous re	Asical Characteristics:  General Wetland Characteristics:  Properties:  Wetland size: 44.79 acres  Wetland type. Explain: PFO per NWI.  Wetland quality. Explain: Site conditions revealed medium quality wetlands, some manipulation from man by stormwater ponds and drainage ditch around the wetland A. The wetlands are also located in close proximity to sidential developments and ongoing development activities. Wetlands B and G appear to be unaltered by man at
this point.	Project wetlands cross or serve as state boundaries. Explain: .
jurisdictiona ditch. The d	General Flow Relationship with Non-TNW: Flow is: Perennial flow. Explain: Wetland A has a hydrologic connection to the downstream TWN through a non-laman-made drop structure system and stormwater detention pond which flows into a non-jurisdictional linear itch flows directly into the onsite pRPW. Wetland B onsite is directly abutting the Non-TNW, which is a perennial RPW flows offsite into Sawmill Branch, which flows into the Ashley River, a TNW.
	Surface flow is: Discrete and confined  Characteristics: The tributary is located within the larger wetland (wetland B) and is confined by a bed and ionally, wetland A is non-abutting the pRPW and flows into the adjacent stormwater pond and man-made drainage connects to the tributary via the drop structure system that was installed as part of the previous development
	Subsurface flow: Unknown. Explain findings:
	Wetland Adjacency Determination with Non-TNW:  ☐ Directly abutting Wetland B ☐ Not directly abutting ☐ Discrete wetland hydrologic connection. Explain: Wetland A is separated from the man-made stormwater ainage ditch by a berm. A drop structure system was also constructed to allow for overflow from the wetland into
the stormwa	
	☐ Ecological connection. Explain: ☐ Separated by berm/barrier. Explain:
(d)	Proximity (Relationship) to TNW  Project wetlands are 2-5 river miles from TNW.  Project waters are 2-5 aerial (straight) miles from TNW.  Flow is from: Wetland to/from navigable waters.  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: The site fronts Dorchester Road and has a great deal of traffic. The site is also surrounded by numerous residential areas, including a new residential development and small commercial development. It is likely that pollutants from residential and commercial development and traffic, i.e. oil and gas roadway runoff, sediments from construction, etc. is present.

	(iii) Biological Characteristics. We  ☐ Riparian buffer. Characteric ☐ Vegetation type/percent co ☐ Habitat for: ☐ Federally Listed species ☐ Fish/spawn areas. Expla ☐ Other environmentally- ☐ Aquatic/wildlife diversi	istics (type, average ver. Explain: <b>The w</b> s. Explain findings: ain findings: sensitive species. Ex	width): retland has tree/ shrub/ gra	ass/ moss at approximately 70 % cover.
3.	Characteristics of all wetlands adja All wetland(s) being considered Approximately (1300) acres in	in the cumulative ar	nalysis: 2	lysis.
	For each wetland, specify the fo	llowing:		•
	Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
	Wetland A N Wetland B Y Wetland G Y Others Y	3.21 41.58 0.02 Approximately 1255		

Summarize overall biological, chemical and physical functions being performed: The wetlands listed in the cumulative analysis are considered one wetland system since there is no opportunity to ground truth the connectivity of the wetlands to the tributary,or break them out. They are located just west of the town of Summerville which is a developed area and development is continuing to expand. The wetlands perform inportant functions to filter out pollutants and sediments caused by traffic and development, preventing them from entering the Ashley River. These wetlands also provide for flood storage in heavy rain events along with habitat for a diversity of aquatic and upland species.

## 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: There is a non-jurisdictional, hydrologic connection from Wetland A to the downstream pRPW, through the man-made drop structure system into the stormwater detention pond and the constructed linear drainage ditch. This feature flows directly into the perennial RPW onsite, which flows directly into Sawmill Branch and then into the Ashley River, a TNW. The wetlands and tributary within the review area are located just west of the town of Summerville which is a developed area, which is continuing to expand. The wetlands perform inportant functions to filter out pollutants and sediments caused by traffic and development, preventing them from entering the Ashley River. These wetlands also provide for flood storage in heavy rain events along with habitat for a diversity of aquatic and upland species. The Ashley River is known to have increased phosphorus concentrations, dissolved oxygen excursions, increased pH levels, increased turbidity, and increased levels of fecal coliform bacteria. These situations could be exacerbated by increasing development and runoff, as is occurring in the areas surrounding the review area.

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

	TERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL AT APPLY):
1.	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 tributary has evidence of year round flow. An OHWM was observed during the time of the site visit; a clear natural impressed line on the bank, vegetation matted down, bent or absent, leaf litter washed away, destruction of terrestrial vegetation, and multiple observed flow events.
	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: 3672.8 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: The RPW onsite is surrounded by Wetland B and is part of the onsite wetland system.

Wetland G is also part of this larger wetland system and directly abuts the pRPW.

D.

<sup>8</sup>See Footnote # 3.

		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: 41.58 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 jurisidictional. Data supporting this conclusion is provided at Section III.C.
		Provide acreage estimates for jurisdictional wetlands in the review area: 3.21 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:
Е.	DEC SUC 	LATED [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:
	Ider	ntify water body and summarize rationale supporting determination:
		ride 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.	$\boxtimes$	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):
	facto	ride 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 ment (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.

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.

		vide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such
	a fin	ding is required for jurisdiction (check all that apply):
	Щ	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.
etr <i>(</i>	TTO	NIV. DATA COUDCEC
<u>SE(</u>	<u> </u>	N IV: DATA SOURCES.
Α. :	SUPI	PORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked
,		requested, appropriately reference sources below):
		Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: <b>Prepared by Derrick Myers of Newkirk</b>
		ironmental, Inc
		Data sheets prepared/submitted by or on behalf of the applicant/consultant.
		Office concurs with data sheets/delineation report; Office concurs with the overall conclusions reached.
		Office does not concur with data sheets/delineation report.
		Data sheets prepared by the Corps:
	H	Corps navigable waters' study:
	H	U.S. Geological Survey Hydrologic Atlas:
	ш	USGS NHD data.
		USGS NHD data.  USGS 8 and 12 digit HUC maps.
		U.S. Geological Survey map(s). Cite scale & quad name: <b>Stallsville</b> .
	otin	USDA Natural Resources Conservation Service Soil Survey. Citation: <b>Dorchester Soil Sheet 42</b> .
		National wetlands inventory map(s). Cite name: <b>Dorchester NWI</b> .
	$\vdash$	State/Local wetland inventory map(s):
	$\blacksquare$	FEMA/FIRM maps:
		100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
		Photographs: Aerial (Name & Date): 2006 Aerial Photographs, 2007 Google Earth Imagery, 2010 Google Earth Imagery,
	2014	4 Google Earth Imagery.
		or 🛛 Other (Name & Date): Photos from site visit dated December 10, 2014 and January 21, 2015.
	$\bowtie$	Previous determination(s). File no. and date of response letter: SAC-2005-05549.
	$\sqsubseteq$	Applicable/supporting case law: .
	Ц	Applicable/supporting scientific literature: .
	$\boxtimes$	Other information (please specify): Site Inspection Report in file.

B. ADDITIONAL COMMENTS TO SUPPORT JD: This is form 2 of 2 for the property in question. This JD form documents the jurisdictional status of one perennial RPW and wetlands adjacent to it. Some of the adjacent wetlands are non-abutting, therefore a Significant Nexus Determination was performed, including all wetlands on-site and those in the drainage area outside the project limits. Based on the documentation provided in Section III, C of this form, the nexus between the RPW (and its adjacent wetlands) and the downstream TNW is a Significant Nexus and on this basis all wetlands documented on this form are within the jurisdiction of the Clean Water Act.

The wetlands onsite were determined to be jurisdictional due to the connection to the downstream TNW via a non-jurisdictional, hydrologic connection from Wetland A through the man-made drop structure system into the stormwater detention pond and the constructed linear feature. This feature flows directly into the perennial RPW onsite, which flows directly into Sawmill Branch and then into the Ashley River, a TNW. The perennial RPW flows through Wetland B, onsite, which is part of a larger wetland system. Wetland G is also part of the larger wetland system and abuts the pRPW onsite. The wetlands and tributary within the review area are located just west of the town of Summerville which is a developed area and is continuing to expand. The wetlands perform inportant functions to filter out pollutants and sediments caused by traffic and development, preventing them from entering the Ashley River. These wetlands also provide for flood storage in heavy rain events along with habitat for a diversity of aquatic and upland species.