# 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:	<b>BACKGROUND</b>	INFORMATION
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A.	REPORT COMPLETION DATE FOR	APPROVED	JURISDICTIONAL	DETERMINATION (JD)	: April 18, 2	2022
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B. DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 1 of 3; SAC-2021-01317 1848 Meadow Brook Road Site

ъ.	DISTRICT OFFICE, FILE WAVE, AND WOMBER. 3D Form For 5, 5AC-2021-01317 10-10 Wicadow Blook Road Sic
	PROJECT LOCATION AND BACKGROUND INFORMATION: north of Riverbend Road, between Old White Horse
Ro	ad and Roe Ford Road in Greenville
	State: South Carolina County: Greenville County City: Greenville Center coordinates of site (lat/long in degree decimal format): Lat. 34.9354°, Long82.4744°.  Universal Transverse Mercator: NAD 83
	Name of nearest waterbody: Reedy River
	Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A
	Name of watershed or Hydrologic Unit Code (HUC): 03050109-04 Upper Reedy 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.
	different 3D form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):
	Office (Desk) Determination. Date: 17-February-2022
	Field Determination. Date(s): 17-November-2021
	CTION II: SUMMARY OF FINDINGS
<b>A.</b>	RHA SECTION 10 DETERMINATION OF JURISDICTION.
The	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]
1011	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 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
	Elevation of established OHWM (if known):
	Lie tailor of complished Off will (if known).
	2. Non-regulated waters/wetlands (check if applicable): <sup>3</sup>
	Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
	Explain: The approximate 44-acre site has one isolated wetland. Non-Jurisdictional Wetland 1 is 0.1. Non-
	Jurisdictional Wetland 1 is located in a low part of the site but has no drainages or signs of connection leaving the

wetland.

<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.

There are no signs of jurisdictional drainage features, shallow subsurface flow, or overland flow from the non-jurisdictional wetland to any other waters on-site or off-site. The non-jurisdictional wetland shows no evidence of biological, chemical, or physical connectivity to waters of the U.S. There is also no apparent connection to interstate or foreign commerce. In addition, there is no apparent evidence of ecological interconnectivity between the non-jurisdictional wetland and waters of the U.S. This office has determined that the wetland is isolated from waters of the U.S. and is not within jurisdiction of the Clean Water Act.

# **SECTION III: CWA ANALYSIS**

1. TNW

#### 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.

2.	Wetland adjacent to TNW Summarize rationale supporting conclusion that wetland is "adjacent":	
	Summarize rationale supporting determination: .	
	Identify TNW: .	

## 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 Condi	tions:			
	Watershed size:	Pick List			
	Drainage area:	Pick List			
	Average annual rainfall: inches				
	Average annual snow	fall: inches			
(ii)					
	Project waters are	e Pick List river miles from TNW.			

<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 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 are Pick List aerial (straight) miles from RPW.
	Identify flow route to $TNW^5$ :  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: 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)	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: Pick List. Explain findings:  Dye (or other) test performed:
	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 destruction of terrestrial vegetation the presence of wrack line sediment sorting 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:

<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:  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.	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: 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)	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.	Cha	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:

Directly abuts? (Y/N) Size (in acres) Directly abuts? (Y/N) Size (in acres)

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:

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

	☐ 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 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.	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).
DE SU 	OLATED [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:  ontify water body and summarize rationale supporting determination:

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.

	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 "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 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	TION IV: DATA SOURCES.			
	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: EPC.  Data sheets prepared/submitted by or on behalf of the applicant/consultant.  Office concurs with data sheets/delineation report. This office agrees with the conclusions of the data sheets and submitted			
repo	rt.  Office does not concur with data sheets/delineation report.			
	□ Data sheets prepared by the Corps: □ Corps navigable waters' study: 1977 Navigability Study. □ U.S. Geological Survey Hydrologic Atlas: HA 730-G, 1990. □ USGS NHD data.			
	☐ USGS 8 and 12 digit HUC maps. 03050109 and 030501090401 ☐ U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 Paris Mountain Quad. ☐ USDA Natural Resources Conservation Service Soil Survey. Citation: Drawing submitted by the agent titled "Water Features Soil/NWI" dated 8/3/2021. Source: SSURGO databased accessed 7/2/2021.			
	<ul> <li>National wetlands inventory map(s). Cite name: Drawing submitted by the agent titled "Water Features Soil/NWI" dated 8/3/2021.</li> <li>Source: NWI map last updated 10/8/2019.</li> <li>☐ State/Local wetland inventory map(s):</li> <li>☐ FEMA/FIRM maps:</li> </ul>			
	□ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) □ Photographs: □ Aerial (Name & Date): Map provided by agent titled "Data Point and Photo Point Locations" dated 8/3/2021.  Source: Google Maps-2019 Aerial.  or □ Other (Name & Date): Photos 1-116 of 116 submitted by agent.			
	Previous determination(s). File no. and date of response letter:  Applicable/supporting case law:  Applicable/supporting scientific literature:  Other information (please specify): Corps site visit on 11/17/2021.			

B. ADDITIONAL COMMENTS TO SUPPORT JD: The approximate 44-acre site has one isolated wetland. Non-Jurisdictional Wetland 1 is 0.1. Non-Jurisdictional Wetland 1 is located in a low part of the site but has no drainages or signs of connection leaving the wetland.

There are no signs of jurisdictional drainage features, shallow subsurface flow, or overland flow from the non-jurisdictional wetland to any other waters on-site or off-site. The non-jurisdictional wetland shows no evidence of biological, chemical, or physical connectivity to waters of the U.S. There is also no apparent connection to interstate or foreign commerce. In addition, there is no apparent evidence of ecological interconnectivity between the non-jurisdictional wetland and waters of the U.S. This office has determined that the wetland is isolated from waters of the U.S. and is not within jurisdiction of the Clean Water Act.

# 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 JURISD	ICTIONAL DETERMIN	[ATION (JD): April 18, 20	)22
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B. DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 2 of 3; SAC-2021-01317 1848 Meadow Brook Road Site

	ROJECT LOCATION AND BACKGROUND INFORMATION: north of Riverbend Road, between Old White Horse
Road	and Roe Ford Road in Greenville
	ate: South Carolina County: Greenville County City: Greenville enter coordinates of site (lat/long in degree decimal format): Lat. 34.9354°, Long82.4744°. Universal Transverse Mercator: NAD 83
Na	ame of nearest waterbody: Reedy River
	ame of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Saluda River
	ame of watershed or Hydrologic Unit Code (HUC): 03050109-04 Upper Reedy 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
di	fferent JD form.
	EVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):
X X	Office (Desk) Determination. Date: 11-April-2022
	Field Determination. Date(s): 17-November-2021
SECTI	ON II: SUMMARY OF FINDINGS
A. RH	A SECTION 10 DETERMINATION OF JURISDICTION.
110 1111	
There a	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. CW	A SECTION 404 DETERMINATION OF JURISDICTION.
There a	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): 1
	☐ 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 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
	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
	Isolated (interstate or intrastate) waters, including isolated wetlands
	h Identify (estimate) single function of the IDE in the maximum and
	b. Identify (estimate) size of waters of the U.S. in the review area:  Non-wetland waters: linear feet: width (ft) and/or Waters of the U.S. 2=1.37 acres.
	Wetlands: Waters of the US 1A=0.13 acre and Waters of the US 1B=0.01 acre.
	Wellands. Waters of the OS 171 0.13 acre and Waters of the OS 1D 0.01 acre.
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual
	Elevation of established OHWM (if known):
2.	
	Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional
	Explain:

# **SECTION III: CWA ANALYSIS**

<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.

#### 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: 96,591 acres Drainage area: 15 acres Average annual rainfall: 47.34 inches Average annual snowfall: 4.6 inches

#### (ii)

Phy	sical Characteristics:
(a)	Relationship with TNW:
	Tributary flows directly into TNW.
	Tributary flows through 2 tributaries before entering TNW.
	Project waters are <b>30 or more</b> river miles from TNW.
	Project waters are 1 or less river miles from RPW.
	Project waters are 30 or more 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 <sup>5</sup> : Unnamed Tributary which flows to the Reedy River which flows to the Saluda River
	(Traditional Navigable Water of the U.S.).
	Tributary stream order, if known: first.

<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

<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.
are poorl	Primary tributary substrate composition (check all that apply):  Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain: According to the soil survey, the tributary is surrounded by Wedhadkee soils. Wedhadkee soil y drained soils that are typically found on flood plains in the Piedmont.
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain:  Presence of run/riffle/pool complexes. Explain:  Tributary geometry: <b>Meandering</b> Tributary gradient (approximate average slope): %
( )	Flow: Tributary provides for: Perennial Flow Estimate average number of flow events in review area/year: 20 or greater Describe flow regime: The off-site tributary has perennial flow. The tributary is mapped as a blue line on the topo served flowing during the Corps site visit and during flagging. Other information on duration and volume: The tributary has a clear OHWM and distinct channel.  Surface flow is: Confined. Characteristics: The tributary flows within a defined channel during normal conditions.
	Subsurface flow: Unknown. Explain findings:  Dye (or other) test performed:
	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 destruction of terrestrial vegetation the presence of wrack line vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition multiple observed or predicted flow events abrupt change in plant community 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:
	emical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: The water observed during the Corps site visit was clear. According to DHEC's watershed assessment, this watershed has a high potential for growth

<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.

Identify specific pollutants, if known: The tributary is located in an area that is somewhat developed, but appears to be growing. There are possible pollutants from nearby roads and developments. (iv) Biological Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): The tributary appears to have a forested buffer. Wetland fringe. Characteristics: Mabitat for: Federally Listed species. Explain findings: ☐ Fish/spawn areas. Explain findings: The stream and buffer provide breeding grounds for aquatic species. Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings: The stream and buffer provide habitat for wildlife in the area. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW (i) Physical Characteristics: (a) General Wetland Characteristics: Properties: Wetland size: Waters of the US 1A=0.13 acre and Waters of the US 1B=0.01 acre Wetland type. Explain:Both are emergent. Wetland quality. Explain: Both wetlands are located adjacent to an impoundment. Project wetlands cross or serve as state boundaries. Explain: (b) General Flow Relationship with Non-TNW: Flow is: Ephemeral Flow. Explain: The wetlands flow to the off-site perennial RPW during times of heavy rain and the wetter months. Surface flow is: Discrete and Confined Characteristics: The wetlands flow through a roadside ditch to the off-site RPW during times of heavy rain. 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: The wetlands appear to flow through a roadside ditch to the off-site perennial RPW. Ecological connection. Explain: ☐ Separated by berm/barrier. Explain: (d) Proximity (Relationship) to TNW Project wetlands are 30 or more river miles from TNW. Project waters are 30 or more 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: According to DHEC's watershed assessment, this watershed has a high potential for Identify specific pollutants, if known: The wetlands are located in an old agriculture field. There are possible pollutants from nearby roads and development. (iii) Biological Characteristics. Wetland supports (check all that apply): Riparian buffer. Characteristics (type, average width): Vegetation type/percent cover. Explain: Mabitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: The wetlands provide breeding grounds for aquatic species. Other environmentally-sensitive species. Explain findings:

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

All wetland(s) being considered in the cumulative analysis: 2

Approximately (0.014) acres in total are being considered in the cumulative analysis.

Aquatic/wildlife diversity. Explain findings: The wetlands provide habitat for wildlife in the area.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
1A (N)	0.13		
1B (N)	0.01		

Summarize overall biological, chemical and physical functions being performed: The wetlands evaluated in this significant nexus determination which are similarly situated and adjacent (abutting and non-abutting) to the perennial RPW are performing a variety of biological, chemical, and physical functions that relate to the downstream TNW. The wetlands within the review area are over 30 miles from the downstream TNW, but are less than one mile to the perennial RPW. The wetlands provide breeding grounds for aquatic species and habitat for wildlife in the area that has been disturbed due to agricultural activities. The wetlands also help to filter excess nutrients and runoff from the surrounding uplands, that include agricultural areas. These wetlands help to retain runoff and temporarily store water during heavy rain events to help maintain seasonal flow volumes.

#### 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 evaluated in this significant nexus determination which are similarly situated and adjacent (abutting and non-abutting) to the perennial RPW are performing a variety of biological, chemical, and physical functions that relate to the downstream TNW. The wetlands within the review area are over 30 miles from the downstream TNW, but are less than one mile to the perennial RPW. The wetlands provide breeding grounds for aquatic species and habitat for wildlife in the area that has been disturbed due to agricultural activities. The wetlands also help to filter excess nutrients and runoff from the surrounding uplands, that include agricultural areas. These wetlands help to retain runoff and temporarily store water during heavy rain events to help maintain seasonal flow volumes. Based on the collective functions described above and their importance to the biological, chemical, and physical integrity of the TNW, it has been determined there is a significant nexus between the wetlands and the downstream TNW.

THAT 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 off-site tributary is shown as a blue line on the topo map and as a clear feature on the hillshde map. This tributary was observed flowing from the road during the Corps site visit and during flagging. Stream characteristics and available data led this office to conclude the tributary has a perennial flow regime.  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 jurisidictional. Data supporting this conclusion is provided at Section III.C.	
1B=	Provide acreage estimates for jurisdictional wetlands in the review area: Waters of the US 1A=0.13 acre and Waters of the US =0.01 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>	

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL

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

 $<sup>^{9}</sup>$  To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

	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).
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): 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:
	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.
S IF/	CTION IV. DATA SOUDCES
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: EPC.  Data sheets prepared/submitted by or on behalf of the applicant/consultant.  Office concurs with data sheets/delineation report. This office agrees with the conclusions of the data sheets and submitted ort.
сp	☐ Office does not concur with data sheets/delineation report. ☐ Data sheets prepared by the Corps: ☐ Corps navigable waters' study: 1977 Navigability Study.

 $<sup>^{10}</sup>$  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.

$\boxtimes$	U.S. Geological Survey Hydrologic Atlas: HA 730-G, 1990.
	USGS NHD data.
	☑ USGS 8 and 12 digit HUC maps. 03050109 and 030501090401
$\boxtimes$	U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 Paris Mountain Quad.
$\boxtimes$	USDA Natural Resources Conservation Service Soil Survey. Citation: Drawing submitted by the agent titled "Water Features
Soil	/NWI" dated 8/3/2021. Source: SSURGO databased accessed 7/2/2021.
$\boxtimes$	National wetlands inventory map(s). Cite name: Drawing submitted by the agent titled "Water Features Soil/NWI" dated 8/3/2021
Sou	rce: NWI map last updated 10/8/2019.
	State/Local wetland inventory map(s):
	FEMA/FIRM maps: .
	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
$\boxtimes$	Photographs: Aerial (Name & Date): Map provided by agent titled "Data Point and Photo Point Locations" dated 8/3/2021.
	rce: Google Maps-2019 Aerial.
	or 🔀 Other (Name & Date): Photos 1-116 of 116 submitted by agent.
	Previous determination(s). File no. and date of response letter: .
	Applicable/supporting case law: .
	Applicable/supporting scientific literature: .
$\boxtimes$	Other information (please specify): Corps site visit on 11/17/2021.

**B.** ADDITIONAL COMMENTS TO SUPPORT JD: This form documents one impoundment of a waters of the US and its adjacent wetlands. The significant nexus evaluation for the non-abutting wetland is included in Section III,C. Based on the documentation provided, the nexus between the relevant reach of the tributary and adjacent wetlands to the downstream TNW is significant. The impoundment and adjacent wetlands (abutting and non-abutting) are considered waters of the U.S. and within jurisdiction of the Clean Water Act

# 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): April	11 18, 2022
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B. DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 3 of 3; SAC-2021-01317 1848 Meadow Brook Road Site

C.	PROJECT LOCATION AND BACKGROUND INFORMATION: north of Riverbend Road, between Old White Horse
Ro	ad and Roe Ford Road in Greenville
	State: South Carolina County: Greenville County City: Greenville Center coordinates of site (lat/long in degree decimal format): Lat. 34.9354°, Long82.4744°. Universal Transverse Mercator: NAD 83
	Name of nearest waterbody: Reedy River
	Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Saluda River  Name of watershed or Hydrologic Unit Code (HUC): 03050109-04 Upper Reedy 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: 11-April-2022 ☐ Field Determination. Date(s): 17-November-2021
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	ere 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): ¹  □ TNWs, including territorial seas □ Wetlands adjacent to TNWs □ Relatively permanent waters² (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: Waters of the US 5= 110.2 linear feet and Waters of the US 4=260.61 linear feet. Wetlands: Waters of the US 3=0.02 acre and Waters of the US 6=0.01 acre.  c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual
	Elevation of established OHWM (if known):

# **SECTION III: CWA ANALYSIS**

Explain:

Non-regulated waters/wetlands (check if applicable):<sup>3</sup>

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

<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.

#### 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: 96,591 acres Drainage area: 5,000 acres Average annual rainfall: 47.34 inches

#### (ii)

Ave	erage annual snowfall: 4.6 inches
Phy	vsical Characteristics:
(a)	Relationship with TNW:
	☐ Tributary flows directly into TNW.
	☐ Tributary flows through 1 tributaries before entering TNW.
	Project waters are <b>30 or more</b> river miles from TNW.
	Project waters are 1 or less river miles from RPW.
	Project waters are 30 or more 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 <sup>5</sup> : Reedy River which flows to the Saluda River (Traditional Navigable Water of the U.S.).
	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

<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.

	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 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: Meandering Tributary gradient (approximate average slope):  %
mapped as a bl	Flow: Tributary provides for: Perennial Flow Estimate average number of flow events in review area/year: 20 or greater Describe flow regime: The off-site tributary has perennial flow. The Reedy River is a named tributary that is lue line on the topo. Water was observed flowing during the Corps site visit and during flagging. Other information on duration and volume: The tributary has a clear OHWM and distinct channel.
	Surface flow is: Confined. Characteristics: The tributary flows within a defined channel during normal conditions.
	Subsurface flow: <b>Unknown</b> . Explain findings:  Dye (or other) test performed:
	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:
Char	mical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc. Explain: The water observed during the Corps site visit was clear. According to DHEC's watershed assessment, this watershed has a high potential for growth tify specific pollutants, if known: The tributary is located in an area that is somewhat developed, but appears to be e are possible pollutants from nearby roads and developments.

<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) Biological Characteristics. Channel supports (check all that apply):  □ Riparian corridor. Characteristics (type, average width): The tributary appears to have a forested buffer.  □ Wetland fringe. Characteristics:  □ Habitat for:  □ Federally Listed species. Explain findings:  □ Fish/spawn areas. Explain findings: The stream and buffer provide breeding grounds for aquatic species.  □ Other environmentally-sensitive species. Explain findings:  □ Aquatic/wildlife diversity. Explain findings: The stream and buffer provide habitat for wildlife in the area.
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: Waters of the US 6=0.01 acre Wetland type. Explain: Forested.
Wetland quality. Explain: The wetland is located within the floodplain of the Reedy River and appears to have bee disturbed by the installation of a utility line.  Project wetlands cross or serve as state boundaries. Explain:
(b) General Flow Relationship with Non-TNW: Flow is: <b>Ephemeral Flow</b> . Explain: The wetlands flow to the perennial RPW during times of heavy rain and the wetter months.
Surface flow is: <b>Overland</b> Characteristics: The wetlands flow through the floodplain to the RPW during times of heavy rain.
Subsurface flow: <b>Unknown</b> . 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: The wetland is located within the mapped floodplain of the Reedy River and reasonably close to the perennial RPW.
☐ Separated by berm/barrier. Explain:  (d) Proximity (Relationship) to TNW Project wetlands are 30 or more river miles from TNW. Project waters are 30 or more 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: According to DHEC's watershed assessment, this watershed has a high potential for growth.  Identify specific pollutants, if known: The wetlands are located in the floodplain of the Reedy River. There are possible pollutants from nearby roads and development.
(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: The wetlands provide breeding grounds for aquatic species.  □ Other environmentally-sensitive species. Explain findings:  □ Aquatic/wildlife diversity. Explain findings: The wetlands provide habitat for wildlife in the area.
3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: 2
Approximately (0.01) 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 wetland evaluated in this significant nexus determination which is similarly situated and adjacent (abutting and non-abutting) to the perennial RPW is performing a variety of biological, chemical, and physical functions that relate to the downstream TNW. The wetland within the review area is over 30 miles from the downstream TNW, but is less than one mile to the perennial RPW and located within the mapped floodplain of the Reedy River. The wetland provides breeding grounds for aquatic species and habitat for wildlife in the area that has been disturbed due to agricultural activities. The wetland also helps to filter excess nutrients and runoff from the surrounding uplands, that include agricultural areas. Theis wetland helps to retain runoff and temporarily store water during heavy rain events to help maintain seasonal flow volumes.

## 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. The wetland evaluated in this significant nexus determination which is similarly situated and adjacent (abutting and non-abutting) to the perennial RPW is performing a variety of biological, chemical, and physical functions that relate to the downstream TNW. The wetland within the review area is over 30 miles from the downstream TNW, but is less than one mile to the perennial RPW and located within the mapped floodplain of the Reedy River. The wetland provides breeding grounds for aquatic species and habitat for wildlife in the area that has been disturbed due to agricultural activities. The wetland also helps to filter excess nutrients and runoff from the surrounding uplands, that include agricultural areas. Theis wetland helps to retain runoff and temporarily store water during heavy rain events to help maintain seasonal flow volumes. Based on the collective functions described above and their importance to the biological, chemical, and physical integrity of the TNW, it has been determined there is a significant nexus between the wetlands and the downstream TNW.

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT 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 Reedy River (Water 5) is a named tributary that is mapped as a blue line on the topo. It was observed flowing during flagging and during the Corps site visit. Water can also be observed in the tributary on aerials. Water 4 is a perennial tributary that is mapped as a blue line and as a clear feature on the hillshde map. This tributary was observed flowing during flagging. Stream characteristics and available data led this office to conclude the tributaries have a perennial flow regime.  ☐ 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:
	seasonany.
	Provide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: Water of the US 4=260.61 linear feet and Water of the US 5=110.20 linear feet  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: Wetland 3 is directly abutting Stream 4 off-site.
	■ 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: Water of the US 3=0.02 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: Water of the US 6=0.01 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

 $<sup>^8</sup> See$  Footnote # 3.  $^9$  To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

	Demonstrate that water is isolated with a nexus to commerce (see E below).
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): 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:  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. Trepo	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: EPC.  Data sheets prepared/submitted by or on behalf of the applicant/consultant.  Office concurs with data sheets/delineation report. This office agrees with the conclusions of the data sheets and submitted ort.  Office does not concur with data sheets/delineation report.  Data sheets prepared by the Corps:  Corps navigable waters' study: 1977 Navigability Study.  U.S. Geological Survey Hydrologic Atlas: HA 730-G, 1990.  USGS NHD data.  USGS 8 and 12 digit HUC maps. 03050109 and 030501090401

 $<sup>^{10}</sup>$  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.

U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 Paris Mountain Quad.	
☑ USDA Natural Resources Conservation Service Soil Survey. Citation: Drawing submitted by the agent titled "Water Features	S
Soil/NWI" dated 8/3/2021. Source: SSURGO databased accessed 7/2/2021.	
National wetlands inventory map(s). Cite name: Drawing submitted by the agent titled "Water Features Soil/NWI" dated 8/3	3/2021
Source: NWI map last updated 10/8/2019.	
State/Local wetland inventory map(s):	
FEMA/FIRM maps: .	
100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)	
Photographs: Aerial (Name & Date): Map provided by agent titled "Data Point and Photo Point Locations" dated 8/3/202	21.
Source: Google Maps-2019 Aerial.	
or ☑ Other (Name & Date): Photos 1-116 of 116 submitted by agent.	
Previous determination(s). File no. and date of response letter:	
Applicable/supporting case law: .	
Applicable/supporting scientific literature: .	
Other information (please specify): Corps site visit on 11/17/2021.	

**B.** ADDITIONAL COMMENTS TO SUPPORT JD: This form documents two perennial RPWs and their adjacent (abutting and non-abutting wetlands). The significant nexus evaluation for the non-abutting wetland is included in Section III, C. Based on the documentation provided, the nexus between the relevant reach of the tributary and adjacent wetlands to the downstream TNW is significant. The impoundment and adjacent wetlands (abutting and non-abutting) are considered waters of the U.S. and within jurisdiction of the Clean Water Act