## 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): May 25, 2	A.	REPORT COMPLETION DATE FOR	PPROVED JURISDICTIONAL DETERMINATION (JD	: May 25, 20
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B.	DISTRICT OFFICE, FILE NAME,	AND NUMBER: JD Form	1 of 3; SAC-2021-01210 Cauthen Indigo T	ract

B.	DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 1 of 3; SAC-2021-01210 Cauthen Indigo Tract
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: State: South Carolina County: Dorchester County City: Ridgeville Center coordinates of site (lat/long in degree decimal format): Lat. 33.0549°, Long80.3639°.
	Name of nearest waterbody: McKeown Branch
	Name of nearest Traditional Navigable Water (TNW) Into which the aquatic resource flows: Ashley River  Name of watershed or Hydrologic Unit Code (HUC): 0305020105 Cypress Swamp  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: 4/13/2022 ☐ Field Determination. Date(s): 12/14/2021
<u>SEC</u> A. ]	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:
В. (	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 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: linear feet: width (ft) and/or acres.  Wetlands: Wetland JDW-D: 43.26 acres, JDW-F: 13.80 acres
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual, AGCP Regional Supplement Elevation of established OHWM (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:

<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>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

(i) 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: 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. <sup>7</sup> 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	ıract	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)		Asical 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:  artify specific pollutants, if known:
	(iii)	Bio	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 broximately ( ) acres in total are being considered in the cumulative analysis.

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):

l.	TNWs and Adjacent Wetlands.	. Check all that ap	oply 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: Captains Creek is located offsite and is a blue line named tributary on USGS Topographic maps. The United States Fish and Wildlife Service's (USFWS) National Wetland Inventory (NWI) classifies Captains Creek as riverine, unknown perennial, unconsolidated bottom, and permanently flooded (R5UBH) habitat. Captains Creek flows directly into the freshwater portion of the Ashley River, an RPW that becomes tidal and therefore a TNW. Captains Creek was determined to have perennial flow and an OHWM based off Google Street View at 258 Cummings Chapel Road in Ridgeville, SC. Additionally, Captains creek has an approximate drainage area of 6.73 square miles, which includes wetlands that would provide hydrology supportive of perennial flow.

	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: Based on a review of the information provided, an onsite inspection, soil data, LIDAR data, and best available aerial imagery, JDW-D and JDW-F continue offsite, are apart of the same wetland/stream complex and directly abut Captains Creek, a perennial RPW. JDW-D and JDW-F directly abut Captains Creek because Captains creek flows through the offsite portion of both wetlands.
	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: JDW-D: 43.26 acres, JDW-F: 13.80 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).
ISC	DLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE,

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

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

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

	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.
SE(	CTION 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: JD Request titled Cauthen Indigo Tract dated July 12, 2021.   Data sheets prepared/submitted by or on behalf of the applicant/consultant.   Office concurs with data sheets/delineation report conclusions.   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: USGS Topographic Map Exhibit dated July 8, 2021 and submitted as part of the JD Request.   USDA Natural Resources Conservation Service Soil Survey. Citation: USDA_NRCS Soil Survey dated July 8, 2021 and submitted as part of the JD Request.   National wetlands inventory map(s). Cite name: USFWS National Wetlands Inventory Exhibit dated July 9, 2021 and submitted as part of the JD Request.
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<sup>&</sup>lt;sup>10</sup> Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos*.

	State/Local wetland inventory map(s): .
	FEMA/FIRM maps: .
	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	Photographs: 🔀 Aerial (Name & Date): Aerial Photograph Exhibit w/Wetlands dated March 10, 2022 and submitted as par
(	the JD Request.
	or Mother (Name & Date): Site photographs submitted as part of the JD Request.
	Previous determination(s). File no. and date of response letter:
	Applicable/supporting case law: .
	Applicable/supporting scientific literature: .
	Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: This form 1 of 3 documents the jurisdictional status of two wetland features on the subject parcel. JDW-D and JDW-F were determined to be jurisdictional and regulated by Section 404 of the CWA. The jurisdictional status of the remaining wetlands located within the project review area are discussed on Forms 2 and 3 of 3.

# 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): May 25, 2022

DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 2 of 3; SAC-2021-01210 Cauthen Indigo Tract
PROJECT LOCATION AND BACKGROUND INFORMATION: State: South Carolina County: Dorchester County City: Ridgeville Center coordinates of site (lat/long in degree decimal format): Lat. 33.0549°, Long80.3639°.
Name of nearest waterbody: Captains Creek
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Ashley River  Name of watershed or Hydrologic Unit Code (HUC): 0305020105  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.
REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):  ☐ Office (Desk) Determination. Date: 4/13/2022 ☐ Field Determination. Date(s): 12/14/2021
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:
CWA SECTION 404 DETERMINATION OF JURISDICTION.
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
1

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: linear feet: width (ft) and/or

Wetlands: JDW-E: 0.66 acre, JDW-L: 0.98 acre.

c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual, AGCP Regional Supplement Elevation of established OHWM (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: Seven (7) non-jurisdictional linear conveyances were identified throughout the project area. These conveyances did not exhibit hydrologic indicators such as: relatively permanent flow, ordinary high-water mark, bed, bank, and substrate/sediment sorting. Although linear conveyance NJD3 is not jurisdictional, it provides a hydrologic connection from JDW-L to downstream waters. The jurisdictional status of this wetland is discussed in Section III of this Form 2 of 3.

acres.

<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).

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

\*Captains Creek is the tributary that is discussed on this form and it is located offsite\*

#### (i) General Area Conditions: Watershed size: 139,163.69 acres HUC-10 0305020105

Drainage area: 4,307.2 acres Average annual rainfall: 48.8 inches

Average annual snowfall: inches

## (ii) Physical Characteristics:

(a) Relationship with TNW: ☐ Tributary flows directly into TNW. ☐ Tributary flows through 1 tributary before entering TNW. Project waters are 10-15 river miles from TNW. Project waters are Project waters are 5-10 aerial (straight) miles from RPW. Project waters are 1 (or less) aerial (straight) miles from RPW. Project waters cross or serve as state boundaries. Explain:

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

Identify flow route to TNW5: Offsite tributary Captains Creek to Cypress Swamp to Ashley River. Tributary stream order, if known: Captains Creek 1st order. (b) General Tributary Characteristics (check all that apply): The tributary is located offsite and it was not observed in the field. Offsite information such as topo maps, aerial photographs, and soil survey maps were used for the review. **Tributary** is: Artificial (man-made). Explain: ☐ Manipulated (man-altered). Explain: **Tributary** properties with respect to top of bank (estimate): Average width: Unknown Average depth: Unknown Average side slopes: Unknown, but likely <1% due to location within the coastal plain Primary tributary substrate composition (check all that apply): Likely silts and sands due to location within the coastal plain Sands
 Concrete ⊠ Silts Cobbles ☐ Gravel 7 Muck ☐ Bedrock ☐ Vegetation. Type/% cover: Other. Explain: Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Based off aerial imagery and Google street view Captains Creek appeared to be stable with minimal erosion. Aerial imagery shows that this tributary is surrounded by forested areas and wetlands, which may also support stability. Presence of run/riffle/pool complexes. Explain: N/A. Tributary geometry: Meandering Tributary gradient (approximate average slope): 1.14 % (c) Flow: Tributary provides for: **Perennial** Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: Water is visible within the channel from Google street view imagery. Other information on duration and volume: Surface flow is: Confined. Characteristics: Subsurface flow: Unknown. Explain findings: No observations or borings were made within the tributary sediments because the tributary is located outside of the project area. Dye (or other) test performed: Tributary has (check all that apply): Likely has the following due to its location in the coastal plain and similar position in the landscape as nearby tributaries: Bed and banks  $\overline{\boxtimes}$  OHWM<sup>6</sup> (check all indicators that apply): □ clear, natural line impressed on the bank □ the presence of litter and debris changes in the character of soil destruction of terrestrial vegetation shelving the presence of wrack line vegetation matted down, bent, or absent sediment sorting leaf litter disturbed or washed away scour sediment deposition multiple observed or predicted flow events water staining abrupt change in plant community other (list): ☐ Discontinuous OHWM.<sup>7</sup> 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: Mean High Water Mark indicated by: oil or scum line along shore objects survey to available datum; fine shell or debris deposits (foreshore) physical markings; physical markings/characteristics vegetation lines/changes in vegetation types.

tidal gauges

<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.

			other (list):
	(iii)	Cha	emical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: The tributary is located offsite and it was not observed in the field. However, based on a review of topo maps, aerial photographs, and soil survey maps, the areas surrounding the tributary appear to be rural with forested and non-forested and with little surrounding development. Therefore, water quality is anticipated to be good.
		Ider	ntify specific pollutants, if known:
	(iv)	⊠ At i	ogical Characteristics. Channel supports (check all that apply):  Riparian corridor. Characteristics (type, average width): The riparian corridor of the offsite tributary varies in width. ts widest point it is approximately 1500 feet in width and consists of residential and agricultural land use  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: Captains Creek may provide habitat for small organisms such as fish, insects, and amphibians. Larger wildlife such as mammals and wading birds may also utilize the channel as a food and water source.
	~.		
2.	Cha	ract	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)		Sical Characteristics:  General Wetland Characteristics:  Description:
			Properties: Wetland size: JDW-E: 0.66 acre, JDW-L: 0.98 acre.
			Wetland type. Explain: <b>Palustrine Forested</b> .  Wetland quality. Explain: <b>Moderate</b> .
			Project wetlands cross or serve as state boundaries. Explain: N/A.
		(b)	General Flow Relationship with Non-TNW: The Non-TNW is Captains Creek, which is located offsite.
			Wetland JDW-E Flow is: Intermittent. Explain: Wetland JDW-E shares a border with an offsite non-jurisdictional ditch. The offsite ditch continues to Indigo Road where it connects into the roadside ditches on Indigo Road. The roadside ditches along Indigo Road abut Captains Creek. As such, flow from the wetland to Captains Creek through the non-jurisdictional roadside ditches is intermittent and may occur seasonally and/or after rain events when surface water may be present in the wetland.
			Surface flow is: Discrete and confined
			Characteristics: The wetland outfalls into an offsite linear conveyance (ditch) that abuts Captains Creek and provides a connection to downstream waters.
			Wetland JDW-F Flow is: Intermittent. Explain: Wetland JDW-F shares a border with an NJD3, a non-jurisdictional ditch. The ditch continues offsite to Indigo Road where it connects into the roadside ditches on Indigo Road. The roadside ditches along Indigo Road abut Captains Creek. As such, flow from the wetland to Captains Creek through the non-jurisdictional roadside ditches is intermittent and may occur seasonally and/or after rain events when surface water may be present in the wetland.
			Surface flow is: Discrete and confined
			Characteristics: The wetland outfalls into NJD3, a linear conveyance (ditch) that continues offsite and abuts Captains Creek and provides a connection to downstream waters.
			Subsurface flow: Unknown. Explain findings: No observations or measurements were made during the field visit and no water was present on the date of the field visit. When obvious surface connectivity is apparent, as in this case, the presumption of at least some level of subsurface flow is reasonable.
			Dye (or other) test performed:
		(c)	Wetland Adjacency Determination with Non-TNW:  ☐ Directly abutting ☐ Not directly abutting

	channels. Wetland JDW-E series of offsite ditches. We which continues offsite to a ⊠ Ecological connection.	has a discrete hydro trland JDW-F has a a series of roadside d Explain: Because the cridor for wildlife an tary and vice versa.	plain: Via ditches and pipes as well plogic connection to Captains Crodiscrete hydrologic connection to litches.  I onsite wetlands are part of a larged other organisms is present that	ek, a perennial RPW, through a Captains Creek through NJD3, ge and expansive wetland system
(d)	Proximity (Relationship) to			
	Project wetlands are 10-15 r			
	Project waters are 5-10 aeris Flow is from: Wetland to n		m INW.	
			in the 500-year or greater floodpl	ain.
· /	emical Characteristics:			
Ch	characteristics; etc.). Explai	n: Surface water was	brown, oil film on surface; water of spresent at the time of the site vi	
	color without any surface f y specific pollutants, if known ltural, and forested land.		is watershed and smaller drainag	e area is comprised of residentia
(iii) Bio		tics (type, average wi	idth):	
• •	g, shrub, and herbaceous lay Habitat for:	er comprising the un	: Vegetation type consists mainly nderstory.	of mature forest canopy with
	Federally Listed species.		•	
	☐ Fish/spawn areas. Explai☐ Other environmentally-se		lain findings:	
			IDW-E and JDW-L are forested	freshwater wetlands adjacent to
	residential, forested, and a	gricultural areas. A	diverse forested wetland often at	tracts diverse wildlife, which may
	all parts of their lives, such	as foraging, nesting	reptiles, mammals, and birds, all g, and/or for shelter. Some comm bra, <i>Chasmanthium latifolia</i> , and	on wetland plant species found in
Al	teristics of all wetlands adjact wetland(s) being considered in proximately (224.04) acres in	n the cumulative anal		
For each	n wetland, specify the followin	g:		
	Directly abuts? (Y/N) JDW-E (N)	Size (in acres) 0.66 acre	Directly abuts? (Y/N)	Size (in acres)
	JDW-L (N)	0.98 acre		
	Offsite Wetland (Y)	222.4 acres		

3.

Summarize overall biological, chemical and physical functions being performed: The project review area that is subject to this jurisdictional determination is 445 acres in size. The subject review area is located within a drainage area of Captains Creek, which flows directly into the freshwater reach of the Ashley River and then to the tidal reach of the Ashley River, the TNW. The relevant reach of Captains Creek has a drainage area of approximately 6.73 square miles in size and contains approximately 286.42 acres of freshwater, non-tidal wetlands. The wetlands located within the drainage area of Captains Creek, which are included in this cumulative review, provide a variety of functions that are important for the downstream waters and the watershed as a whole. The wetlands not only provide habitat for various aquatic and terrestrial organisms, including a variety of insects, amphibians, reptiles, mammals and birds, but are also a source of food, nutrients, and carbon for organisms located downstream. The wetlands are especially important for the water quality of a watershed. Water runoff from adjacent uplands that may contain pollutants, sediments, excess nutrients, etc., that flows through the wetlands before entering the tributaries has the opportunity to be filtered out prior to flowing to downstream TNWs. In addition, excess water can temporarily be stored thereby minimizing potential flooding of downstream areas and can also slowly release water downstream to maintain seasonal flow volumes. Runoff water may also transport organisms, nutrients, and carbon from the wetlands into the tributaries, which continue to flow to downstream TNWs.

#### 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 project review area that is subject to this jurisdictional determination is 445 acres in size. The subject review area is located within a drainage area of Captains Creek, a perennial tributary, which flows directly into the freshwater reach of the Ashley River and then to the tidal reach of the Ashley River, the TNW. The relevant reach of Captains Creek has a drainage area of approximately 6.73 square miles in size and contains approximately 286.42 acres of freshwater, non-tidal wetlands. The offsite wetland is part of a large wetland system that is contiguous with and abuts Captains Creek. The abutting wetlands include wetlands within the project review area that is subject to this jurisdictional determination, wetlands located on adjacent tracts that have pending or issued jurisdictional determinations, or wetlands approximated from interpretation of soils survey, NWI maps and aerial photographs. In addition to the abutting wetlands, non-abutting wetlands are also located within the drainage area of Captains Creek. The non-abutting wetlands, which are the subject of this significant nexus determination include onsite wetlands JDW-E and JDW-F. The onsite non-abutting wetlands have a surface hydrologic connection with Captains Creek via non-jurisdictional linear features and/or a series of roadside ditches and other wetlands.

Regardless of whether the wetlands are abutting or non-abutting, wetlands located within the drainage area of Captains Creek provide a variety of functions that are important for the downstream waters and the watershed as a whole. The wetlands not only provide habitat for various aquatic and terrestrial organisms, including a variety of insects, amphibians, reptiles, mammals and birds, but are also a source of food, nutrients, and carbon for organisms located downstream. The wetlands are especially important for the water quality of a watershed. Water runoff from adjacent uplands that may contain pollutants, sediments, excess nutrients, etc., that flows through the wetlands before entering the tributaries has the opportunity to be filtered out prior to flowing to downstream TNWs. In addition, excess water can temporarily be stored thereby minimizing potential flooding of downstream areas and can also slowly release water downstream to maintain seasonal flow volumes. Runoff water may also transport organisms, nutrients, and carbon from the wetlands into the tributaries, which continue to flow to downstream TNWs. The wetlands are especially important for the quality of a watershed.

According to the SCDHEC Watershed Information, there is a water quality monitoring station (CSTL-102) in the Ashley River located downstream from the project review area location. At CSTL-102, aquatic life uses are fully supported for both fresh and saltwater classifications; however, there is a significant increasing trend in total phosphorus concentration for both classifications. Although dissolved oxygen excursions occurred, they were typical of values seen in such systems

and were considered natural, not standard violations. There is a significant increasing trend in pH. A significant decreasing trend in total nitrogen concentration suggests improving conditions for this parameter.

Recreational uses are partially supported due to fecal coliform bacteria excursions for both classifications.

A review of recent aerial photographs indicates that there are no ongoing development activities occurring within the drainage area. The drainage area is rural and consists of forested and non-forested areas. There appears to be minimal residential and commercial development. The subject review area and the adjacent tracts that are being reviewed by the Corps and/or have issued jurisdictional determinations are within a pre-determined residential development area. Future development of these areas is anticipated. Portions of the watershed, which contains the Town Ridgeville, have a moderate to high potential for growth, particularly residential growth due to proximity to Charleston, SC. The non-abutting wetlands, JDW-E and JDW-F located within the subject project review area have a significant nexus to downstream TNWs as they can provide a source of carbon and nutrients, can perform water quality functions, can provide water storage capabilities, can maintain seasonal flow volumes, and have the ability to transport organisms, carbon, nutrients, sediments, clean water, as well as any pollutants that may be present or could become present, to downstream TNWs. When wetlands are filled or altered, many of the services that they provide may be lost and the loss of those services affects downstream waters and TNWs.

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: Captains Creek is located offsite and is a blue line named tributary on USGS Topographic maps. The United States Fish and Wildlife Service's (USFWS) National Wetland Inventory (NWI) classifies Captains Creek as riverine, unknown perennial, unconsolidated bottom, and permanently flooded (R5UBH) habitat. Captains Creek flows directly into the freshwater portion of the Ashley River, an RPW that becomes tidal and therefore a TNW. Captains Creek was determined to have perennial flow and an OHWM based off Google Street View at 258 Cummings Chapel Road in Ridgeville, SC. Additionally, Captains creek has an approximate drainage area of 6.73 square miles, which includes wetlands that would provide hydrology supportive of perennial flow.  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					

acres

abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area:

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

	5.	<ul> <li>Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.</li> <li>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.</li> <li>Provide acreage estimates for jurisdictional wetlands in the review area: 1.64 acres.</li> </ul>
	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).
E.	SUC 	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:  Intify water body and summarize rationale supporting determination:
		vide estimates for jurisdictional waters in the review area (check all that apply):  Tributary waters: linear feet width (ft).  Other non-wetland waters: acres.  Identify type(s) of waters:  Wetlands: acres.
F.		N-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):  If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.  Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.  Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
ban	k, ar	Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:  Other: (explain, if not covered above): Seven (7) non-jurisdictional linear conveyances were identified throughout the project less conveyances did not exhibit hydrologic indicators such as: relatively permanent flow, ordinary high-water mark, bed, and substrate/sediment sorting. Although linear conveyance NJD3 is not jurisdictional, it provides a hydrologic connection of the downstream waters. The jurisdictional status of this wetland is discussed in Section III of this Form 2 of 3.
	fact	vide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR ors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional gment (check all that apply):  Non-wetland waters (i.e., rivers, streams): linear feet width (ft).  Lakes/ponds: acres.

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

Other non-wetlands:	wetland waters: acres.	acres. List typ	e of aquatic resou	irce: .		
a finding is required.  Non-wetlan  Lakes/pond	ired for jurisdiction ( d waters (i.e., rivers	(check all that age, streams):		width (ft).	neet the "Significan	nt Nexus" standard, where such
SECTION IV: DAT	'A SOURCES.					
and requested, a  Maps, plans  July 12, 2021  Data sheets  Office of Data sheets  Corps navig U.S. Geolog USGS N USGS N USDA National wo submitted as pa  National wo submitted as pa  State/Local FEMA/FIR 100-year FI Photograph of the JD Reque	propriately references, plots or plat submit prepared/submitted oncurs with data she does not concur with prepared by the Corgable waters' study: gical Survey Hydrold HD data.  and 12 digit HUC n gical Survey map(s).  Request.  aral Resources Consourt of the JD Requestellands inventory may ret of the JD Request wetland inventory not maps:  oodplain Elevation i se Maria (Name of Aerial (Name of Special Survey).	te sources below tted by or on behalf tets/delineation adata sheets/delineation adata sheets/delines:  ogic Atlas:  naps.  Cite scale & quervation Servicest.  p(s). Cite namest.  nap(s):  s: (Nation & Date): Aerial & Date): Site phoo. and date of	r): half of the applicant/c report conclusions neation report.  dad name: USGS Soil Survey. Cita USFWS Nation al Geodectic Vert Photograph Extentior	ant/consultant: onsultant. s.  Topographic Mation: USDA_NI nal Wetlands In ical Datum of 19 hibit w/Wetland	JD Request titled  [ap Exhibit dated]  RCS Soil Survey described to the second	July 8, 2021 and submitted as dated July 8, 2021 and lated July 9, 2021 and
D ADDITIONAL (	OMMENTS TO S	HDDADT IN.	This form 2 of 2	documents the i	iurisdictional stat	us of two wotland footures

B. ADDITIONAL COMMENTS TO SUPPORT JD: This form 2 of 3 documents the jurisdictional status of two wetland features and describes seven non-jurisdictional ditches on the subject parcel. JDW-E and JDW-L were determined to be jurisdictional and regulated by Section 404 of the CWA based on their adjacency to an offsite RPW pursuant to the significant nexus documentation on this form. The jurisdictional status of the remaining wetlands located within the project review area are discussed on Forms 1 and 3 of 3.

## 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):May 25, 2022

	NET ON CONTESTION DISE FOR MINO VED VOID DE FEMALITION (VE) MAIN JE 100 MINO VED VOID DE FEMALITION (VE) MAIN JE 100 MINO VED VOID DE FEMALITION (VE) MAIN JE 100 MINO VED VOID DE FEMALITION (VE) MAIN JE 100 MINO VED VOID DE FEMALITION (VE) MAIN JE 100 MINO VED VOID DE FEMALITION (VE) MAIN JE 100 MINO VED VOID DE FEMALITION (VE) MAIN JE 100 MINO VED VOID DE FEMALITION (VE) MAIN JE 100 MINO VED VOID DE FEMALITION (VE) MAIN JE 100 MINO VED VOID DE FEMALITION (VE) MAIN JE 100 MINO VED
B.	DISTRICT OFFICE, FILE NAME, AND NUMBER: JD Form 3 of 3; SAC-2021-01210 Cauthen Indigo Tract
C.	PROJECT LOCATION AND BACKGROUND INFORMATION:  State: South Carolina County: Dorchester County City: Ridgeville  Center coordinates of site (lat/long in degree decimal format): Lat. 33.0549°, Long80.3639°.  Name of nearest waterbody: Captains Creek  Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A  Name of watershed or Hydrologic Unit Code (HUC): 0305020105  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: 4/13/2022 ☐ Field Determination. Date(s): 12/14/2021
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
revi	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:  CIVA SECTION 404 DETERMINATION OF HINSPICTION.
В.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	ere 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):   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):

## 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: EW-A, EW-B, EW-C, EW-G, EW-H, EW-J, EW-K are forested freshwater wetlands located within the review area. Based on an onsite inspection conducted on December 14, 2021, no ditches, swales, or culverts were observed that would provide a connection to other aquatic resources. No evidence of discrete hydrologic connections through the uplands were observed. Also, Lidar imagery indicates that these wetlands are situated lower in the landscape than surrounding areas. These wetlands are documented in Section III Part F of this form and have no physical, chemical,

<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).

Supporting documentation is presented in Section III.F.

or biological connections to waters of the U.S., including any apparent surface or shallow subsurface hydrologic connections. There is no apparent connection to interstate or foreign commerce. In addition, there is no apparent evidence of ecological interconnectivity between the isolated wetlands and waters of the U.S. On this basis, this office has determined that these wetlands are isolated from waters of the U.S. and are not within the jurisdiction of the Clean Water Act. Based on this information, EW-A, EW-B, EW-C, EW-G, EW-H, EW-J, EW-K are not waters of the U.S.

## **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: 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.

<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 <b>Pick List</b> 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:
(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 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:
Che	emical Characteristics:

(iii)

<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.

This 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.

				racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain:  tify specific pollutants, if known:
(iv)	Bio	logica	al Ch	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:
			(c)	Subsurface flow: Pick List. Explain findings:  Dye (or other) test performed:  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: racterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: https://example.com/racteristics/racteris
		(iii)		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 broximately ( ) acres in total are being considered in the cumulative analysis.

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 ALI
	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:

	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.
	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).
SUC	DLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH WATERS (CHECK ALL THAT APPLY): 10 which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain:  Other factors. Explain:
Ide	ntify water body and summarize rationale supporting determination:

E.

 <sup>8</sup>See Footnote # 3.
 To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
 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 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: EW-A: 0.85 acre, EW-B: 1.09 acres, EW-C: 0.47 acre, EW-G: 1.28 acres, EW-H: 0.78 acre, EW-J: 0.37 acre, EW-K: 0.48 acre.
	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.
SE	CTION IV: DATA SOURCES.
<b>A</b> .	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: JD Request titled Cauthen Indigo Tract dated July 12, 2021.   Data sheets prepared/submitted by or on behalf of the applicant/consultant.   Office concurs with data sheets/delineation report conclusions.   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: USGS Topographic Map Exhibit dated July 8, 2021 and submitted as part of the JD Request.   USDA Natural Resources Conservation Service Soil Survey. Citation: USDA_NRCS Soil Survey dated July 8, 2021 and submitted as part of the JD Request.   National wetlands inventory map(s). Cite name: USFWS National Wetlands Inventory Exhibit dated July 9, 2021 and submitted as part of the JD Request.   State/Local wetland inventory map(s):   FEMA/FIRM maps:   100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)   Photographs: Aerial (Name & Date): Aerial Photograph Exhibit w/Wetlands dated March 10, 2022 and submitted as part of the JD Request.
	or Mother (Name & Date): Site photographs submitted as part of the JD Request.  Previous determination(s). File no. and date of response letter:  Applicable/supporting case law:  Applicable/supporting scientific literature:  Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: This form 3 of 3 documents the jurisdictional status of seven wetland feature on the subject parcel. EW-A, EW-B, EW-C, EW-G, EW-H, EW-J, and EW-K are isolated and therefore non-jurisdictional and no regulated by Section 404 of the CWA. The jurisdictional status of the remaining wetlands located within the project review area a discussed on Forms 1 and 2 of 3.	t