### 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): APR - 3 2017

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Charleston District, Nimitz Solar Farm, SAC-2016-01251 Form 1 of 2

# C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: South Carolina County/parish/borough: Jasper City: Ridgeland Center coordinates of site (lat/long in degree decimal format): Lat. 32.4967° N, Long. 80.9617° . Universal Transverse Mercator:

Name of nearest waterbody: unnamed tributary system associated with Captain Bill Creek

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A

Name of watershed or Hydrologic Unit Code (HUC): 03050201-07 Upper Portion of the Cooper River/Charleston Harbor Watershed Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

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

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

Office (Desk) Determination. Date:

Field Determination. Date(s): 02NOV2016

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

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

Waters subject to the ebb and flow of the tide.

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

### **B. CWA SECTION 404 DETERMINATION OF JURISDICTION.**

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

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

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

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

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: The features documented on this form include two wetlands that were evaluated as potentially jurisdictional pursuant to Section 404 of the Clean Water Act (CWA). The site visit identified a 0.35-acre wetland area (Wetland WA) and a 1.8-acre wetland area (Wetland WC1) on the 145-acre property that are not subject to the CWA; specifically, the wetlands are a emergent, depressional, isolated wetlands located on, and contained within the subject parcel. Approximately 85% of the property is in active use as a commercial sod farm, is adjacent to an industrial facility to the west, and bordered by a utility corridor to the north and east, as well as a mix of agricultural land and residential homes.

The features exhibit no apparent connection/conveyance to waters of the United States; to include no physical, chemical, or biological connections, and no apparent shallow subsurface flow connections to other waters. In addition, the features do not exhibit any apparent ecological interconnectivity with other water features, including any waters of the United States, and there is no apparent connection to interstate or foreign commerce.

On the basis of the aforementioned information, this office has determined that the above-referenced wetland features documented on this form are considered isolated and not subject to the jurisdiction under the CWA.

## SECTION III: CWA ANALYSIS

# A. TNWs AND WETLANDS ADJACENT TO TNWS

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

- 1. TNW Identify TNW: Summarize rationale supporting determination:
- 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

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

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

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

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

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

- 1. Characteristics of non-TNWs that flow directly or indirectly into TNW
  - (i) General Area Conditions: Watershed size: Drainage area: Average annual rainfall: Average annual snowfall: inches

<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.

(ii)		rsical Characteristics: Relationship with TNW:
		<ul> <li>Tributary flows directly into TNW.</li> <li>Tributary flows through <b>Pick List</b> tributaries before entering TNW.</li> </ul>
		Project waters are <b>Pick List</b> river miles from TNW. Project waters are <b>Pick List</b> river miles from RPW. Project waters are <b>Pick List</b> aerial (straight) miles from TNW. 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:
		Tributary properties with respect to top of bank (estimate): Average width: feet Average depth: feet Average side slopes: <b>Pick List</b> .
		Primary tributary substrate composition (check all that apply):
		Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Presence of run/riffle/pool complexes. Explain: Tributary geometry: Tributary geometry: Tributary gradient (approximate average slope): %
	(c)	Flow:
		Tributary provides for: <b>Pick List</b> Estimate average number of flow events in review area/year: <b>Pick List</b> Describe flow regime: Other information on duration and volume:
		Surface flow is: 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 Herefore the presence of litter and debris destruction of terrestrial vegetation
		<ul> <li>shelving</li> <li>vegetation matted down, bent, or absent</li> <li>leaf litter disturbed or washed away</li> <li>sediment deposition</li> <li>water staining</li> <li>other (list):</li> </ul>
		Discontinuous OHWM. <sup>7</sup> Explain:

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

If factors other than the OHWM were used to determine	ine 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;

- oil or scum line along shore objects
   fine shell or debris deposits (foreshore)
   physical markings/characteristics
  - sits (foreshore) D physical markings;
    - vegetation lines/changes in vegetation types.

### (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:

tidal gauges other (list):

- Habitat for:
  - Federally Listed species. Explain findings:
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings:

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

### (i) Physical Characteristics:

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

Surface flow is: Pick List Characteristics:

Subsurface flow: Pick List. Explain findings:

(c) Wetland Adjacency Determination with Non-TNW:

	Directl	y at	outtin	g
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- □ Not directly abutting
  - Discrete wetland hydrologic connection. Explain:
  - Ecological connection. Explain:
  - Separated by berm/barrier. Explain:

### (d) Proximity (Relationship) to TNW

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

# (ii) Chemical Characteristics:

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

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

- Riparian buffer. Characteristics (type, average width):
  - Vegetation type/percent cover. Explain:
- Habitat for:
  - Federally Listed species. Explain findings:

Fish/spawn areas. Explain findings:

☐ Other environmentally-sensitive species. Explain findings: ☐ Aquatic/wildlife diversity. Explain findings:

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

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

For each wetland, specify the following:



Summarize overall biological, chemical and physical functions being performed:

# C. SIGNIFICANT NEXUS DETERMINATION

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

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

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

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

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

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

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

- **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   TNWs: linear feet width (ft), Or, acres.
   Wetlands adjacent to TNWs: acres.
- 2. RPWs that flow directly or indirectly into TNWs.

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

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

- Tributary waters: linear feet width (ft).
  - Other non-wetland waters: acres.

Identify type(s) of waters:

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

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

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

acres.

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

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

- 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.

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

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

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

- 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.
  - Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

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

#### Impoundments of jurisdictional waters.<sup>9</sup> 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).
- **Explain:**

### 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 pur from which fish or shellfish are or could be taken and sold in interstate or foreign comm which are or could be used for industrial purposes by industries in interstate commerce. 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.

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

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

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

	Interstate isolated waters. Explain:       .         Other factors. Explain:       .
	<ul> <li>Provide estimates for jurisdictional waters in the review area (check all that apply):</li> <li>Tributary waters: linear feet width (ft).</li> <li>Other non-wetland waters: acres. Identify type(s) of waters: .</li> <li>Wetlands: acres.</li> </ul>
F.	<ul> <li>NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):</li> <li>If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.</li> <li>Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.</li> <li>Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).</li> <li>Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:</li> </ul>
	Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: 2.15 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.
<u>SE</u>	CTION IV: DATA SOURCES.
А.	<ul> <li>SUPPORTING DATA. Data reviewed for JD:</li> <li>Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Pilot Environmental, Inc.</li> <li>Data sheets prepared/submitted by or on behalf of the applicant/consultant: Pilot Environmental, Inc.</li> <li>Office concurs with data sheets/delineation report provided by consultant.</li> <li>Office does not concur with data sheets/delineation report.</li> </ul>
	<ul> <li>Data sheets prepared by the Corps:</li> <li>Corps navigable waters' study:</li> <li>U.S. Geological Survey Hydrologic Atlas:</li> <li>USGS NHD data.</li> <li>USGS 8 and 12 digit HUC maps.</li> </ul>
	<ul> <li>U.S. Geological Survey map(s). Cite scale &amp; quad name:</li> <li>USDA Natural Resources Conservation Service Soil Survey. Citation: NRCS Web Soil Survey and NRCS Preliminary</li> </ul>
	Technical Determination dated 24NOV2014.
	<ul> <li>Previous determination(s). File no. and date of response letter:</li> <li>Applicable/supporting case law:</li> <li>Applicable/supporting scientific literature:</li> </ul>

B. ADDITIONAL COMMENTS TO SUPPORT JD: Based on a site inspection, soil survey data, aerial/site photos, quad/topo sheets, and lidar data, there are two emergent, depressional, isolated wetlands on the 145-acre commercial property that combine for a total of 2.15 acres. The site visit revealed the features are not connected to any navigable water(s) or tributary to navigable water(s); nor do either have a connection to interstate or foreign commerce. In addition, the wetlands exhibit no apparent connection/conveyance to waters of the United States; no physical, chemical, biological connections; and no apparent shallow subsurface flow connections to other waters. Furthermore, the wetlands do not exhibit any apparent ecological interconnectivity with other water features, including any waters of the United States. On the basis of this information, this office has determined that the specified wetland features documented on this form are considered isolated and not subject to jurisdiction under the CWA.

\*Two additional wetland features were documented on the subject property and are discussed further on Form 2 of 2.

### 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): APR - 3 2017

# B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Charleston District, Nimitz Solar Farm, SAC-2016-01251 Form 2 of 2

# C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: South Carolina County/parish/borough: Jasper City: Ridgeland Center coordinates of site (lat/long in degree decimal format): Lat. 36.1690532° , Long. 79.909468° . Universal Transverse Mercator:

Name of nearest waterbody: Captain Bill Creek

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

Name of watershed or Hydrologic Unit Code (HUC): 03050201-07 Upper Portion of the Cooper River/Charleston Harbor Watershed Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

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

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

Office (Desk) Determination. Date:

Field Determination. Date(s): 02NOV2016

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

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

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

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

### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

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

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

- a. Indicate presence of waters of U.S. in review area (check all that apply): 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 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: 4000 linear feet: width (ft) and/or acres. Wetlands: 12.58 acres
- c. Limits (boundaries) of jurisdiction based on: Pick List, Pick List, Pick List Elevation of established OHWM (if known):
- 2. Non-regulated waters/wetlands (check if applicable):<sup>3</sup> [Including potentially jurisdictional features that upon assessment are NOT waters or wetlands]

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

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

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

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Three linear conveyance features (1800 lf, 1900 lf, and 300 lf) located on the site were evaluated as potentially jurisdictional pursuant to Clean Water Act Section 404. The features were determined NOT to be jurisdictional based on their status as manmade ditches constructed wholly within uplands and located outside wetlands. It was confirmed during a site visit that the ditches lack signs of relatively permanent flow. Therefore, it has been determined the linear features are non-jurisdictional and not subject to regulation under Section 404 of the Clean Water Act and are depicted in the administrative record on a supplemental sketch.

However, one of the linear features does act as a means of surface hydrologic connection between two wetlands onsite; specifically, the 1,900 linear foot feature conveys water from Wetland WC2 to Wetland WB. The jurisdictional status of Wetland WC2 is discussed in detail in the following sections on this form.

# SECTION III: CWA ANALYSIS

1.

### 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.

TNW Identify TNW: Summarize rationale supporting determination:

### 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

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

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

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

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

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

- 1. Characteristics of non-TNWs that flow directly or indirectly into TNW
  - (i) General Area Conditions: Watershed size: 139,936 (1995); Drainage area: 6,456 (1996); Average annual rainfall: 51.11 inches Average annual snowfall: 0 inches
  - (ii) Physical Characteristics:
    - (a) <u>Relationship with TNW:</u>

Tributary flows directly into TNW.

Tributary flows through 1 tributary before entering 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 20-25 river miles from TNW. Project waters are 1 (or less) river miles from RPW. Project waters are 15-20 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>: Tributary stream order, if known:

(b) General Tributary Characteristics (check all that apply):

Tributary is:

Artificial (man-made). Explain:

Manipulated (man-altered). Explain: The offsite tributary known as Captain Bill Creek (a pRPW) has been redirected/altered in areas due to commercial and residential development; however, despite the manipulation it still maintains flow to the Great Swamp which flows to the New River (a TNW) and then the Atlantic Ocean.

<b>F</b> r	ibutary properties with respect to top of bank (estimate):	
	Average width: 3-5 feet	
	Average depth: 1-3 feet	
	Average side slopes: Pick List.	
	0 1	

Primary tributary substrate composition (check all that apply):

$\boxtimes$ Silts	$\boxtimes$ Sands	
Cobbles	Gravel	
Bedrock	□ Vegetation.	Type/% cover:
Other. Explain:		

Concrete

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): %

(c) Flow:

Tributary provides for: Perennial flow

Other information on duration and volume

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

Describe flow regime: The area of Captain Bill Creek in which the onsite wetlands flow is downstream and southwest of the Coosawhatchie River. As a result, the tributary has continuous flow in parts of its stream bed year round during normal rain events.

other information on duration and volume.	
Surface flow is: Confined. Characteristics:	
Subsurface flow: <b>Unknown</b> . Explain findings:	
Tributary has (check all that apply): Bed and banks OHWM <sup>6</sup> (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining other (list):	the presence of litter and debris destruction of terrestrial vegetation the presence of wrack line sediment sorting scour multiple observed or predicted flow events abrupt change in plant community
Discontinuous OHWM. <sup>7</sup> Explain:	

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

If factors other than the OHWM were used to determi	ne 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	
other (list):	

(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Water quality in the tributary is poor due to a discharge of 75,000-100,000 gallons of wastewater that overflowed into the creek in 2016. As a result, the water is discolored and has high levels of dissolved oxygen, pH excursions and occurrences of zinc in excess of the aquatic life chronic criterion.

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: The tributary has areas of vegetation, leaf litter, and debris that may provide habitat for small organisms such as small fish, insects, and amphibians. Larger wildlife such as mammals and wading birds may also utilize the tributary as a food and water source; as well as a corridor for movement of aquatic organisms.

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

### \*\*\*\*Wetland WC2\*\*\*\*

- (i) Physical Characteristics:
  - (a) General Wetland Characteristics:
    - Properties:

Wetland size: 6.0 acres

Wetland type. Explain: PFO.

Wetland quality. Explain: Low quality and moderately impacted due to surrounding commercial sod operation. Project wetlands cross or serve as state boundaries. Explain: N/A.

(b) <u>General Flow Relationship with Non-TNW</u>: Flow is: Ephemeral flow. Explain: Flow is limited to and a result of wetter seasons and/or after rain events.

Surface flow is: Discrete

Characteristics: Discrete flow across upland to the adjacent non-jurisdictional ditch occurs during wetter seasons and/or after rain events. Flow from the ditch then continues to and through Wetland WB; which continues offsite and abuts Captain Bill Creek.

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: Although no flow was observed between Wetland WC2 and the non-jurisdictional ditch during the site visit, the depressional topography of the forested wetland and surrounding uplands is fairly flat and uniform. It appears there is a discrete hydrologic surface flow through uplands that occurs during wetter seasons and/or after rain events when surface water in the wetland overflows to the drainage ditch. At the time of the site visit, there were indications of a previous discrete overflow event(s) from Wetland WC2 to the ditch, to include matted down/bent vegetation and channelization/erosion on the ditch bank.

Ecological connection. Explain:

Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are 20-25 river miles from TNW. Project waters are 15-20 aerial (straight) miles from TNW. Flow is from: Wetland to navigable waters.

### (ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Even though the wetland has the same vegetation as the adjacent wetlands in the watershed, this wetland is moderately impacted by the surrounding commercial sod farm and has poor water quality as a result.

Identify specific pollutants, if known: The surrounding land within the drainage area is a mix of vacant land, uplands, residential, commercial, and industrial activities. The project site has been under agricultural operations for decades to include timber harvesting and a commercial sod farm. Chemical pollutants associated with such operations may include fertilizers and pesticides.

(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: Wetland WC2 is a forested wetland depression. The vegetation observed onsite includes, but is not limited to *Pinus taeda, Acre rubrum, Liquidambar styraciflua, Osmunda cinnamomea, Carex intumescens, and Juncus effusus.* A wetland such as this may attract diverse wildlife, which may include various species of insects, amphibians, reptiles, mammals, and birds; all of which may use the wetland for foraging, nesting and/or shelter.

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

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

Approximately (162) 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)
Wetland WB	6.85	¥
Wetland WC2	6.0	N
Offsite	156+/-	Y

Summarize overall biological, chemical and physical functions being performed: The review area includes Wetland WB and Wetland WC2, as well as an additional 156+/- acres of wetlands offsite and to the south of the project area that are adjacent to the tributary; specifically, Wetland WC2 flows into a non-jurisdictional ditch that flows to the relevant reach, a pRPW. The relevant reach flows into the Great Swamp to the New River (a TNW) and into the Atlantic Ocean.

The review area is part of a braided system that is comprised of perennial and seasonal tributaries, as well as abutting and adjacent wetlands. The review area system provides a variety of functions that are important for the downstream waters and the watershed as a whole. The wetlands and tributaries 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 tributary and system of wetlands is especially important for the water quality of the watershed. Water runoff from adjacent uplands containing pollutants, sediments, excess nutrients, etc., flows through the wetlands before entering the tributary system, which then are filtered out/removed prior to flowing to the downstream TNW. 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 tributary; which continue to flow to the downstream TNW. Small tributaries often have shallow water, low volume, and slow flow; which allows for more surface area of the water column to come into contact with channel substrate and any vegetation that may be present; thereby, allowing for sediments and pollutants to settle out of or be filtered from the water column before flowing 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:
- Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of 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: Wetland WC2 is adjacent to, but does not directly abut the offsite tributary. The wetland has a hydrologic surface connection to a linear non-jurisdictional drainage feature which flows into another onsite wetland (Wetland WB) that extends offsite and directly abuts an offsite tributary to a downstream TNW. Wildlife that typically utilize wetland systems, such as mammals, reptiles, amphibians, and birds, may also utilize the tributary and vice versa; as well as other nearby wetlands and tributaries in the watershed. In addition, excess water can temporarily be stored in the wetland areas; thereby, minimizing potential flooding of the downstream areas and maintain seasonal flow volumes by slowly releasing the stored water.

Wetland WC2, in conjunction with the adjacent offsite wetlands in the drainage area, plays a role in the water quality of the downstream waters (e.g., Captain Bill Creek and Great Swamp) and TNW (e.g., New River) in that water runoff from surrounding uplands (which may contain pollutants, sediments, excess nutrients, organisms, carbon, etc.) that flow through the onsite wetland before entering the tributary system will have the opportunity to be filtered out prior to reaching the downstream TNW. There are two South Carolina Department of Health and Environmental Control (DHEC) monitoring stations upstream of Captain Bill Creek in the area of the Coosawhatchie River. At the downstream station (CSTL-107), which is closest to Captain Bill Creek, there is an increasing trend in dissolved oxygen levels, pH excursions, and occurrences of zinc; as a result, aquatic life uses are either partially supported or not supported. The aforementioned trends are indicative of the significant and beneficial role the wetlands in the review area have on downstream waters and the New River.

Due to the limited support of aquatic resources, recreational uses are partially supported. There is a high potential for growth in this watershed, which contains areas of Coosawhatchie to Ridgeland to Hardeeville. The New River flows south from the Great Swamp and into the Atlantic Ocean between Daufuskie Island and the Savannah River.

Considering the high potential for development in the area and existing water quality issues within the watershed, specifically along the flow path from the project area to the TNW, the functions of the tributary in the project area play an important role relating to downstream water quality. Based on the biological, chemical, and physical functions described above, this office has concluded that a Significant Nexus exists between this relevant reach and the downstream TNW, the New River.

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

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

- TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:
   TNWs: linear feet width (ft), Or, acres.
   Wetlands adjacent to TNWs: acres.
- 2. RPWs that flow directly or indirectly into TNWs.

	Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Captain Bill Creek (a pRPW) is a downstream blue-line tributary of the Coosawhatchie River that has continuous flow in parts of its stream bed year round during normal rain events. The tributary has the presence of one or more geomorphic characteristics typically associated with perennial stream to include but not limited to bed forms, bank erosion and/or bank scour, and sediment transport. As a result, sufficient water is available to support flow-dependent aquatic life, including fish and gill-breathing amphibians, benthic insects, crustaceans, and mollusks, many of which survive in shallow hyporheic flow beneath rocks or logs.
	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.	<ul> <li>Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs.</li> <li>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.</li> </ul>
	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.	<ul> <li>Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.</li> <li>Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.</li> <li>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 WB is located within and outside of the project boundary. The wetland continues offsite where it has a direct hydrologic connection with Captain Bill Creek. Water from Captain Bill Creek.</li> </ul>
	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: 6.85 acres.
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> </ul>
	Provide acreage estimates for jurisdictional wetlands in the review area: 6.0 acres.
6.	<ul> <li>Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.</li> <li>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.</li> </ul>
	Provide estimates for jurisdictional wetlands in the review area: acres.
7.	Impoundments of jurisdictional waters. <sup>9</sup> As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below). Explain:
_	

<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.

E.	ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY): <sup>10</sup>
	<ul> <li>which are or could be used by interstate or foreign travelers for recreational or other purposes.</li> <li>from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.</li> <li>which are or could be used for industrial purposes by industries in interstate commerce.</li> </ul>
	<ul> <li>Interstate isolated waters. Explain:</li> <li>Other factors. Explain:</li> </ul>
	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.	<ul> <li>NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):</li> <li>If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.</li> </ul>
	<ul> <li>Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.</li> <li>Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).</li> </ul>
	Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: Other: Three linear conveyance features (1800 lf, 1900 lf, and 300 lf) located on the site were evaluated as potentially
	jurisdictional pursuant to Clean Water Act Section 404. The features were determined NOT to be jurisdictional based on their status as manmade ditches constructed wholly within uplands and located outside wetlands. It was confirmed during a site visit that the ditches lack signs of relatively permanent flow. Therefore, it has been determined the linear features are non- jurisdictional and not subject to regulation under Section 404 of the Clean Water Act.
	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:
SEC	CTION IV: DATA SOURCES.
<b>A</b> .	SUPPORTING DATA. Data reviewed for JD: Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Pilot Environmental, Inc. Data sheets prepared/submitted by or on behalf of the applicant/consultant: Pilot Environmental, Inc.
	Office concurs with data sheets/delineation report provided by consultant.
	<ul> <li>Office does not concur with data sheets/delineation report.</li> <li>Data sheets prepared by the Corps:</li> </ul>
	Corps navigable waters' study:
	U.S. Geological Survey Hydrologic Atlas:
	USGS 8 and 12 digit HUC maps.
	U.S. Geological Survey map(s). Cite scale & quad name:
	USDA Natural Resources Conservation Service Soil Survey. Citation: NRCS Web Soil Survey and NRCS Preliminary Technical Determination dated 24NOV2014.
	National wetlands inventory map(s). Cite name: USFWS NWI Map
	State/Local wetland inventory map(s):
	FEMA/FIRM maps: . 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	Photographs: Aerial (Name & Date): Google Earth 2015.
10 P	rior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for
	ew consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

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or 🛛 Other (Name & Date): Site photos in the file.

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

Applicable/supporting case law:

Applicable/supporting scientific literature:

# **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

This JD form documents the jurisdictional status of two wetlands (Wetland WB and Wetland WC2). Wetland WB directly abuts an RPW that typically flows year-round directly or indirectly to a TNW and is therefore within the jurisdiction of the Clean Water Act. Wetland WC2 is adjacent to, but not directly abuting the same aforementioned RPW; therefore, a Significant Nexus Determination was performed. Based on the documentation provided in Section III C of this form, the nexus between the RPW along with its adjacent wetlands and the downstream TNW is a Significant Nexus and, on this basis, Wetland WC2 is within the jurisdiction of the Clean Water Act.

Furthermore, this JD form also documents the jurisdictional status of three linear conveyance features (1800 lf, 1900 lf, and 300 lf) within the project boundary. The features were determined NOT to be jurisdictional based on their status as manmade ditches constructed wholly within uplands and located outside wetlands. It was confirmed during a site visit that the ditches lack signs of relatively permanent flow. However, one of the linear features does act as a means of hydrologic conveyance between the two above-referenced wetlands onsite; specifically, the 1,900 linear foot feature conveys water from Wetland WC2 to Wetland WB. Therefore, it has been determined the linear features are non-jurisdictional and not subject to regulation under Section 404 of the Clean Water Act and are depicted in the administrative record on a supplemental sketch.

The jurisdictional status of Wetland WC1 and WA is discussed on Form 1 of 2.