# 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): 10 August 2015
- B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Jacksonville; Trailmark, SAJ-1991-00108
- C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Florida County/parish/borough: St. Johns City: St. Augustine

Center coordinates of site: Latitude: 29.9288° Longitude: -81.5148°

Name of nearest waterbody: Six Mile Creek/Mill Creek

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Six Mile Creek & Mill Creek Name of watershed or Hydrologic Unit Code (HUC): Palmo Cove (030801031203)

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):

 $\boxtimes$ 

Office (Desk) Determination Date: 10 August 2015

Field Determination Date(s): 10 July 2015

### SECTION II - SUMMARY OF FINDINGS:

# A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There are "*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, 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 AND ARE NOT "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

- 1. Waters of the U.S.
  - a. Indicate presence of waters of U.S. in review area (check all that apply): <sup>1</sup>
    - TNWs, including territorial seas
    - Wetlands adjacent to TNWs Relatively permanent waters<sup>2</sup>
      - 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
  - Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: ~15,000 linear feet Wetlands: ~389 acres
  - c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):

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

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

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

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

A total of seven physically and hydrologically isolated wetlands are located in the eastern half of the property. These wetlands are non-forested depressional features within the landscape dominated by immature wetland canopy species and wetland grasses including St. John's wort (*Hypericum* spp.), meadow-beauty (*Rhexia* spp.), yellow-eyed grass (*Xyris* spp.), and broomsedge (*Andropogon* spp.). Inspection of the site did not discover any physical or hydrological connection between these seven systems and any other water of the United States either on-site or off-site. In consideration of the circumstances corroborated by the site inspection, these systems have no direct hydrologic connection to downstream waters; and, no nexus to downstream waters except, potentially, by migratory birds (reference *Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers*, 531 U.S. 159 (2001) (SWANCC)).

Four additional hydrologically isolated wetlands are located in the western portion of the property. These wetlands are forested systems dominated by a mature slash pine (*Pinus elliottii*) canopy along with various hardwoods including loblolly bay (*Gordonia lasianthus*) and water oak (*Quercus nigra*). These wetlands are similar to the eastern wetlands, as they have no direct connection to downstream waters except, potentially, by migratory birds. Wetlands identified as 8 and 9 lie directly adjacent to an existing transmission line easement and are connected to each other via a culvert underneath the trail road located within the easement. The trail road has drainage swales paralleling it on each side, but neither swale connects these wetland areas to the unnamed relatively permanent waterway (RPW) to the north. Each swale is bisected by a wide upland rise which severs the swale's potential connection to the nearby RPW and ultimately isolates the two wetlands. It appears that these systems are hydrated by local precipitation (directly into the systems or channeled to the systems from the limited flow from the noted swales). Wetlands 10 and 11 are wholly surrounded by uplands; and, no connection to downstream waters is present at either wetland.

The proposed isolated wetlands (11 systems) are generally surrounded by topographically higher forested uplands. These pine – mesic oak uplands surround the wetlands and prevent any hydric connection to neighboring jurisdictional wetlands. These isolated depressions act as small sink features within the landscape and serve a unique and limited drainage area of surrounding uplands that is topographically isolated from the drainage of neighboring wetlands. Permanent standing water does not appear to occur in most of these areas. The wetlands generally appear to only stage water after storm events and then percolate through sandy soils. The wetlands likely provide full life history support for a very limited assemblage of insects and small amphibians, but due to the physical isolation and habitat barriers do not support significant immigration or emigration of such species to or from neighboring wetlands. The wetlands may provide limited life-history support for larger amphibians and reptiles as breeding or foraging habitat, ephemeral foraging habitat to wading birds and small mammals, and temporary escape or bedding habitat for larger mammals; however, given their locations in the landscape, limited and ephemeral hydrologic regime, and relatively small size, these functions are insignificant when considered relative to the larger wetland complexes in the vicinity.

# 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. Identify TNW: Six Mile Creek and Mill Creek

Summarize rationale supporting determination: Six Mile Creek traverses the western and southernmost boundaries of the property, while Mill Creek drains into Six Mile Creek within the northwestern portion of the property. Both of these named creeks meet the definition of a TNW as they are navigable creek systems that have minor tidal influences and could potentially have been used as part of interstate commerce.

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent": Nearly all of the wetland communities on-site can be classified as contiguous/abutting or adjacent to either Six Mile Creek or Mill Creek. These wetlands are either part of the floodplain directly associated with these two TNWs (contiguous/abutting); have limited upland barriers separating the wetland systems from these creeks (bordering); or, are in close proximity to these creeks and have direct hydrologic connections to them (neighboring).

#### 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.

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

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: N/A
  - (i) General Area Conditions:
    - Watershed size:Pick ListDrainage area:Pick ListAverage annual rainfall:inchesAverage annual snowfall:inches
  - (ii) Physical Characteristics:
    - (a) <u>Relationship with TNW:</u>

       ☐ 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:

(b) <u>General Tributary Characteristics (check all that apply):</u>

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	
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: Pick List Tributary gradient (approximate average slope): %

<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.

	(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):       the presence of litter and debris         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         water staining       multiple observed or predicted flow events         other (list):       abrupt change in plant community
		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/characteristics         tidal gauges       other (list):
	Cha	emical Characteristics: aracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: ntify specific pollutants, if known:
	(iv) Bio	<ul> <li>logical Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): Wetland fringe. Characteristics: Habitat for:</li> <li>Federally Listed species. Explain findings:</li> <li>Fish/spawn areas. Explain findings:</li> <li>Other environmentally-sensitive species. Explain findings:</li> <li>Aquatic/wildlife diversity. Explain findings:</li> </ul>
2.	Characte	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW: N/A
		Asical Characteristics: <u>General Wetland Characteristics:</u> 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: Pick List. Explain:
		Surface flow is: Pick List

Characteristics:

<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.

Subsurface flow: Pick List. Explain findings: Dye (or other) test performed:

		<ul> <li>(c) Wetland Adjacency Determination with Non-TNW:</li> <li>Directly abutting</li> <li>Not directly abutting</li> </ul>
		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:
		Eventually Listed species. Explain findings:
		Fish/spawn areas. Explain findings:
		Other environmentally-sensitive species. Explain findings:.
		Aquatic/wildlife diversity. Explain findings:
3.	Cha	racteristics 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:

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:
- Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. 2. 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 presence or 3. 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):
  - TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: 1. TNWs: ~15,000 linear feet Wetlands adjacent to TNWs: ~389 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
  - Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs. 3.
    - 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) acres
  - 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

- Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. 6.
  - 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

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

- 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).

# 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>

- 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 <u>solely</u> 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 <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:

Lakes/ponds:

Other non-wetland waters:

Wetlands:  $\sim$ 42 acres (wetlands labeled 1 – 11 on the attached graphics)

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

### SECTION IV - DATA SOURCES:

- A. SUPPORTING DATA: Data reviewed for JD (check all that apply checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
  - Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Figures 1-3 prepared by Environmental Services, Incorporated (ESI)
  - Data sheets prepared/submitted by or on behalf of the applicant/consultant.
    - $\boxtimes$  Office concurs with data sheets/delineation report.
    - 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

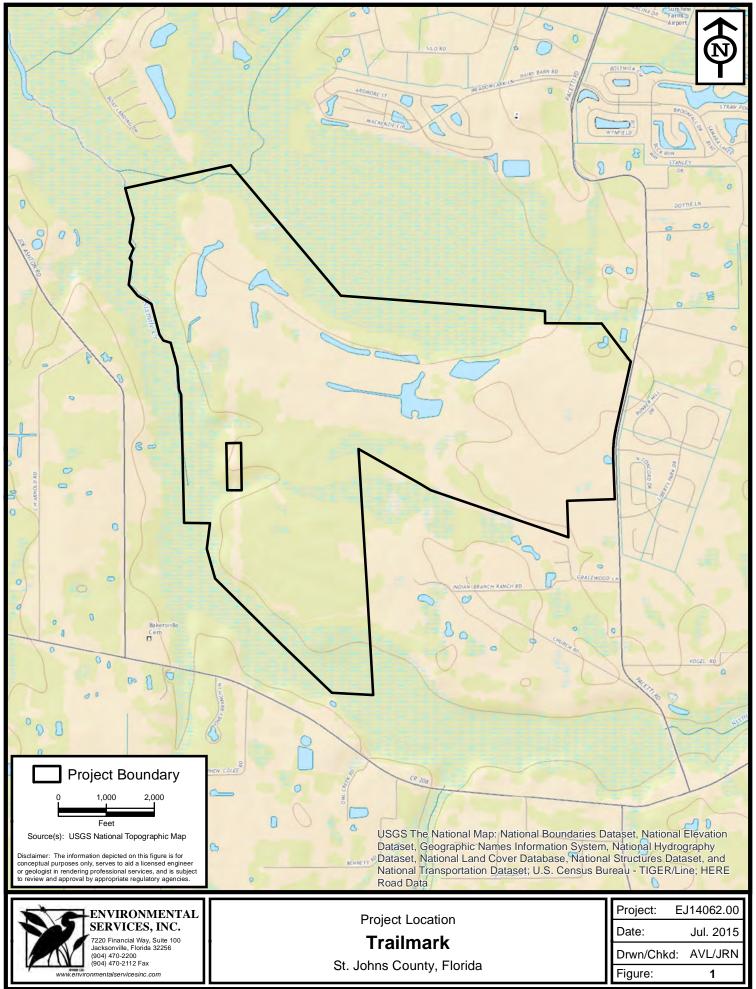
<sup>&</sup>lt;sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<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.

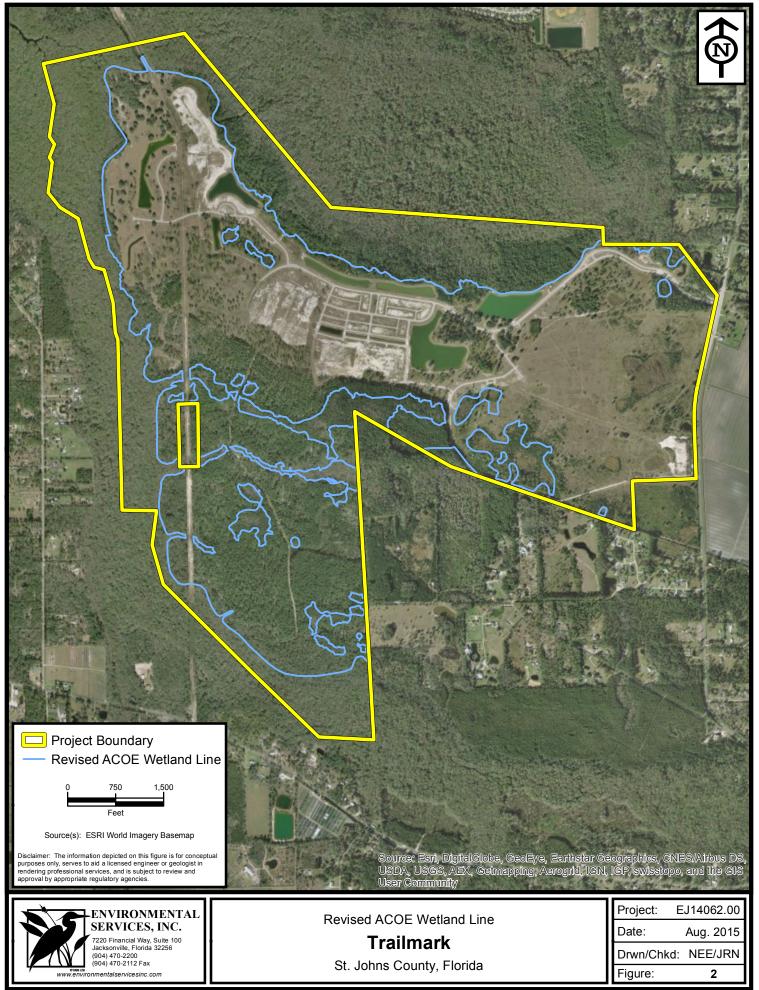
U.S. Geological Survey map(s)
USDA Natural Resources Conservation Service Soil Survey
National wetlands inventory map(s). Cite name:
State/Local wetland inventory map(s):
FEMA/FIRM maps:
100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
Photographs: Aerial (Name & Date): ESRI World Imagery Basemap; GoogleEarth<sup>®</sup>; Microsoft Bing<sup>®</sup> or Other (Name & Date):
Previous determination(s)
Applicable/supporting case law:
Applicable/supporting scientific literature:
Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: Site inspection corroborated information herein.

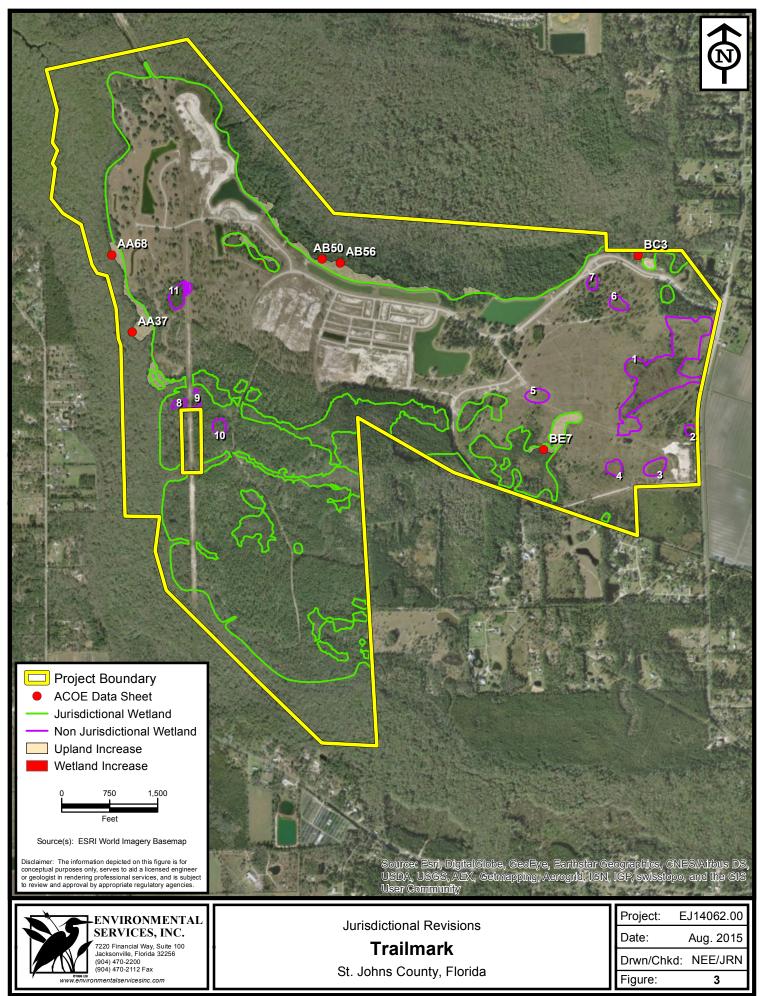




Path: P:\GIS\Production\Standards\ArcMap\JAX\LTR\_Portrait\_Unbound.mxd Date: 1/23/2015 10:28:21 AM



Path: P:\GIS\\_Projects\EJ\2014\062\00\fig\ACOE\Revised ACOE Wetland Lines v03.mxd Date: 8/20/2015 10:23:43 AM



Path: P:\GIS\\_Projects\EJ\2014\062\00\fig\ACOE\Jurisdictional Revisions\_v02.mxd Date: 8/20/2015 10:16:55 AM

