

**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): October 5, 2017**

**B. DISTRICT OFFICE, FILE NAME, AND NUMBER:** CELRL-RDN, LRL-2017-589-scm, Westfield Boulevard Connector – 13.5 acres; Jurisdictional Waters – Streams 2 (Grassy Branch) & 3 (UNT to Grassy Branch), Wetlands A, B, C, D.

**C. PROJECT LOCATION AND BACKGROUND INFORMATION:**

State: Indiana County/parish/borough: Hamilton City: Westfield  
Center coordinates of site (lat/long in degree decimal format): Lat. 40.036154 °, Long. -86.132078  
Universal Transverse Mercator: NAD 83 16N

Name of nearest waterbody: Grassy Branch

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

Name of watershed or Hydrologic Unit Code (HUC): Upper White HUC-8 (05120201)

- 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 different JD form

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

- Office (Desk) Determination. Date(s): July 27, 2017, by USACE staff;  
August 23, 2017, by USACE staff. [Click here to enter a date.](#)
- Field Determination. Date(s): October 27, 2016, by Metric Environmental;  
July 18, 2017 and August 24, 2017, by USACE staff.  
[Click here to enter a date.](#)

**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: [Click here to enter text.](#)

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

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

**1. Waters of the U.S.**

**a. Indicate presence of waters of U.S. in review area (check all that apply):<sup>1</sup>**

- TNWs, including territorial seas
- Wetlands adjacent to TNWs
- Relatively permanent waters<sup>2</sup> (RPWs) that flow directly or indirectly into TNWs
- Non-RPWs that flow directly or indirectly into TNWs
- Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
- Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
- Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
- Impoundments of jurisdictional waters
- Isolated (interstate or intrastate) waters, including isolated wetlands

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

**Non-wetland waters:** Stream 2, Grassy Branch (RPW) - 503 linear feet: 15 width (ft) and/or # acres.

Stream 3, UNT to Grassy Branch (Non-RPW) - 118 linear feet: # width (ft) and/or 0.004 acres.

**Wetlands:** Wetland A - PEM (adjacent, not directly abutting Grassy Branch (RPW)) - 0.30 acres.

Wetland B - PFO (directly abutting Grassy Branch (RPW)) - 0.20 acres.

Wetland C - PFO (directly abutting Grassy Branch (RPW)) - 0.01 acres.

Wetland D - PEM (directly abutting Grassy Branch (RPW)) - 0.66 acres.

<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).

- c. **Limits (boundaries) of jurisdiction** based on: *Choose an item.*

Elevation of established OHWM (if known): *Click here to enter text.*

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:** *Click here to enter text.*

### **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: *Click here to enter text.*

Summarize rationale supporting determination: *Click here to enter text.*

2. **Wetland adjacent to TNW**

Summarize rationale supporting conclusion that wetland is “adjacent”: *Click here to enter text.*

#### **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**

**Stream 3 - UNT to Grassy Branch (Non-RPW) - 118 linear feet: # width (ft) and/or 0.004 acres.**

(i) **General Area Conditions:**

Watershed size: 2,718 square miles

Drainage area: 1,797 square miles

Average annual rainfall: 42.48 inches

Average annual snowfall: 27 inches

(ii) **Physical Characteristics:**

(a) **Relationship with TNW:**

Tributary flows directly into TNW.

Tributary flows through 2 tributaries before entering TNW.

Project waters are 10-15 river miles from TNW.

Project waters are 1 (or less) river miles from RPW.

Project waters are 2-5 aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: N/A

Identify flow route to TNW<sup>5</sup>: Stream 3, unnamed tributary (UNT) to Grassy Branch (Non-RPW) flows directly into Grassy Branch (RPW), which flows into Cool Creek (RPW), which flows into the White River (TNW).

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

<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>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.

Tributary stream order, if known: 1

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

- Tributary is:**  Natural  
 Artificial (man-made). Explain: [Click here to enter text.](#)  
 Manipulated (man-altered). Explain: [Click here to enter text.](#)

**Tributary properties with respect to top of bank (estimate):**

Average width: 1.5 feet  
Average depth: 0.16 feet  
Average side slopes: 3:1

**Primary tributary substrate composition (check all that apply):**

- |  |  |                                   |
|--|--|-----------------------------------|
| <input checked="" type="checkbox"/> Silts  | <input checked="" type="checkbox"/> Sands  | <input type="checkbox"/> Concrete |
| <input type="checkbox"/> Cobbles   | <input type="checkbox"/> Gravel  | <input type="checkbox"/> Muck     |
| <input type="checkbox"/> Bedrock   | <input checked="" type="checkbox"/> Vegetation. Type/% cover: 70% forested, 30% herbaceous |                                   |
| <input type="checkbox"/> Other. Explain: <a href="#">Click here to enter text.</a> |  |                                   |

**Tributary condition/stability [e.g., highly eroding, sloughing banks].**

Explain: Side slopes stable with established herbaceous species.

**Presence of run/riffle/pool complexes.** Explain: Few short pools (<5 feet)

**Tributary geometry:** Relatively Straight

**Tributary gradient (approximate average slope):** 5%

(c) Flow:

**Tributary provides for:** Ephemeral Flow

**Estimate average number of flow events in review area/year:** 6-10

**Describe flow regime:** Ephemeral

**Other information on duration and volume:** [Click here to enter text.](#)

**Surface flow is:** Discrete and Confined **Characteristics:** [Click here to enter text.](#)

**Subsurface flow:** No **Explain findings:** [Click here to enter text.](#)

Dye (or other) test performed: [Click here to enter text.](#)

**Tributary has (check all that apply):**

- Bed and banks  
 OHWM<sup>6</sup> (check all indicators that apply):
- |  |   |
|--|---|
| <input checked="" type="checkbox"/> clear, natural line impressed on the bank    | <input checked="" type="checkbox"/> the presence of litter and debris                               |
| <input type="checkbox"/> changes in the character of soil                        | <input checked="" type="checkbox"/> destruction of terrestrial vegetation                           |
| <input type="checkbox"/> shelving  | <input type="checkbox"/> the presence of wrack line   |
| <input checked="" type="checkbox"/> vegetation matted down, bent, or absent      | <input type="checkbox"/> sediment sorting   |
| <input checked="" type="checkbox"/> leaf litter disturbed or washed away         | <input type="checkbox"/> scour  |
| <input type="checkbox"/> sediment deposition                                     | <input type="checkbox"/> multiple observed or predicted flow events                                 |
| <input type="checkbox"/> water staining  | <input type="checkbox"/> abrupt change in plant community <a href="#">Click here to enter text.</a> |
| <input type="checkbox"/> other (list): <a href="#">Click here to enter text.</a> |   |
- Discontinuous OHWM.<sup>7</sup> Explain: [Click here to enter text.](#)

**If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):**

- |  |  |
|--|--|
| <input type="checkbox"/> High Tide Line indicated by:                            | <input type="checkbox"/> Mean High Water Mark indicated by:            |
| <input type="checkbox"/> oil or scum line along shore objects                    | <input type="checkbox"/> survey to available datum;                    |
| <input type="checkbox"/> fine shell or debris deposits (foreshore)               | <input type="checkbox"/> physical markings;                            |
| <input type="checkbox"/> physical markings/characteristics                       | <input type="checkbox"/> vegetation lines/changes in vegetation types. |
| <input type="checkbox"/> tidal gauges  |  |
| <input type="checkbox"/> other (list): <a href="#">Click here to enter text.</a> |  |

<sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>7</sup>Ibid.

**(iii) Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Water color is generally clear, upstream drainage basin is undisturbed. Tributary is in a developed headwater area with very wide riparian buffers. General water quality could be described as fair in comparison to similar tributaries in the watershed. Moderate variety of flora and fauna present for riparian area.

Identify specific pollutants, if known: Pesticide and herbicide run-off from surrounding agricultural fields.

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian corridor. Characteristics (type, average width): Stream 3, UNT to Grassy Branch (Non-RPW) is surrounded by wide forested riparian buffers on all sides except to the south. Average width of 500-550 LF on west, north, & east sides of Non-RPW.
- Wetland fringe. Characteristics: Stream 3, UNT to Grassy Branch (Non-RPW) abuts forested Wetland B to the west.
- Habitat for:
  - Federally Listed species. Explain findings: In range of Indiana Bat and Northern Long-eared bat
  - Fish/spawn areas. Explain findings: [Click here to enter text.](#)
  - Other environmentally-sensitive species. Explain findings: [Click here to enter text.](#)
  - Aquatic/wildlife diversity. Explain findings: Moderate riparian habitat for small mammals, reptiles, and amphibians, and substrate of stream provides benthic and aquatic fauna habitat.

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

**(i) Physical Characteristics:**

**(a) General Wetland Characteristics:**

Properties: **Wetland A (adjacent, not directly abutting to Grassy Branch (RPW))**

Wetland size: 0.30 acres (in review area)

Wetland type. Explain: Emergent/Forested

Wetland quality. Explain: May be considered poor to fair due to presence of lower quality wetland plant species, low diversity, and low habitat

Project wetlands cross or serve as state boundaries. Explain: n/a

**(b) General Flow Relationship with Non-TNW (RPW):**

Flow is: Intermittent Flow Explain: Flows during rain events and seasonal flooding.

Surface flow is: Discrete

Characteristics: N/A

Subsurface flow: Unknown Explain findings: [Click here to enter text.](#)

Dye (or other) test performed: [Click here to enter text.](#)

**(c) Wetland Adjacency Determination with Non-TNW (RPW):**

Directly abutting

Not directly abutting

Discrete wetland hydrologic connection. Explain: Between Wetland A and Stream 2, Grassy Branch (RPW), outside review area, is 540 LF of herbaceous & forested riparian buffer. This eastward property (outside review area) was generally observed to meet all three wetland criteria, and is within the Grassy Branch (RPW) floodplain. Wetland A is directly connected with the off-site intermittent stream which flows through the riparian buffer and into Stream 2, Grassy Branch (RPW), which flows into Cool Creek (RPW), which flows into the White River (TNW).

Ecological connection. Explain: Wetland A is directly connected with the off-site intermittent stream which flows into Stream 2, Grassy Branch (RPW), which flows into Cool Creek (RPW), which flows into the White River (TNW).

Separated by berm/barrier. Explain: [Click here to enter text.](#)

**(d) Proximity (Relationship) to TNW**

Project wetlands are 10-15 river miles from TNW.

Project waters are 2-5 aerial (straight) miles from TNW.

Flow is from: Wetland to Navigable Waters

Estimate approximate location of wetland as within the 100 - 500-year 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: Data point pit (dug next to farm field) showed water table, water was brown and poor quality.

Identify specific pollutants, if known: Pesticide and herbicide run-off from surrounding farm fields.

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

- Riparian buffer. Characteristics (type, average width): Between Wetland A and Stream 2, Grassy Branch (RPW), outside review area, is 540 LF of herbaceous & forested riparian buffer. This eastward property was generally observed to meet all three wetland criteria, and is within the Grassy Branch (RPW) floodplain.
- Vegetation type/percent cover. Explain: 35% forested and 65 % herbaceous vegetation.
- Habitat for:
  - Federally Listed species. Explain findings: In range of Indiana Bat and Northern Long-eared bat
  - Fish/spawn areas. Explain findings: [Click here to enter text.](#)
  - Other environmentally-sensitive species. Explain findings: [Click here to enter text.](#)
  - Aquatic/wildlife diversity. Explain findings: Moderate to wide riparian habitat for small mammals, reptiles, and amphibians, and substrate of stream provides benthic and aquatic fauna habitat.

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

All wetland(s) being considered in the cumulative analysis: 4

Approximately (1.17) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>
Wetland A	No	0.30	<i>Y/N</i>	#
Wetland B	Yes	0.20	<i>Y/N</i>	#
Wetland C	Yes	0.01	<i>Y/N</i>	#
Wetland D	Yes	0.66	<i>Y/N</i>	#

Summarize overall biological, chemical and physical functions being performed: As part of their biological functions, these wetlands support plant diversity, primary productivity, and resting, foraging, and nesting habitat for many bird, mammal, reptile, amphibian, and invertebrate species. As part of their chemical and physical functions, these wetlands store storm water and release it slowly; they slow the velocity of storm water; they facilitate groundwater recharge; they trap sediments; and they control pollution.

**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:

A significant nexus exists between Stream 3, UNT to Grassy Branch (Non-RPW), and Stream 2, Grassy Branch (RPW), and the White River, (TNW), through a direct hydrologic connection. Stream 3, UNT to Grassy Branch (Non-RPW), flows directly into Stream 2, Grassy Branch (RPW), which flows into Cool Creek (RPW), which flows into the White River (TNW).

The forested riparian zones of UNT to Grassy Branch (Non-RPW) provide flood retention, and filters nutrients and other pollutants from surrounding areas that can be transported downstream to the White River. The tributary and its surrounding riparian area provides a fair amount of foraging opportunity, terrestrial habitat, and migratory pathways due to their wide woody riparian buffers/corridors that are connected to the larger network of forested corridor associated with Grassy Branch, Cool Creek and the White River. The tributary provides habitat for aquatic fauna and benthic organisms that are vital to the support of the foodwebs associated with the White River.

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:

A significant nexus exists between Wetland A and Stream 2, Grassy Branch (RPW), and the White River (TNW), through a direct hydrologic connection. Wetland A contains an east flowing ephemeral stream (see 8/24/17 site visit photos and aerial map). This stream becomes intermittent as it continues east/northeast, outside the review area, and outlets into Stream 2, Grassy Branch (RPW). The intermittent stream runs through an eastward property (outside review area) that adjoins Wetland A and abuts with Stream 2, Grassy Branch (RPW). This eastward property was observed to meet all three wetland criteria, is located in hydric soils & in the Grassy Branch floodplain. Wetland A is located within Grassy Branch (RPW) floodplain, water table/hydrology increases during rain events and seasonal flooding. Wetland A is directly connected with the off-site intermittent stream which flows into Stream 2, Grassy Branch (RPW), which flows into Cool Creek (RPW), which flows into the White River (TNW).

Wetland A, as part of its biological function, supports plant diversity, primary productivity, and resting, foraging, and nesting habitat for many bird, mammal, reptile, amphibian, and invertebrate species. As part of its chemical and physical functions, this wetland stores storm water and releases it slowly; slows the velocity of storm water; facilitates groundwater recharge; traps sediments; and controls pollution. These functions have more than a speculative or insubstantial effect on the chemical, physical and biological integrity of the White River.

**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: Average annual rainfall: 42.48 inches.
  - 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: [Click here to enter text.](#)

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

  - Tributary waters: **Stream 2 - Grassy Branch (RPW) - 503 linear feet: 15 width (ft) and/or # acres.**
  - Other non-wetland waters: # acres.

Identify type(s) of waters: [Click here to enter text.](#)
  
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: **Stream 3 – UNT to Grassy Branch (Non-RPW) - 118 linear feet 0.16 width (ft).**
  - Other non-wetland waters: # acres.

Identify type(s) of waters: [Click here to enter text.](#)
  
4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**
  - Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
    - Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **Wetland B directly abuts Stream 2, Grassy Branch (RPW), along its south boundary. Wetland C directly abuts Stream 2, Grassy Branch (RPW), along its north boundary. And Wetland D directly abuts Stream 2, Grassy Branch (RPW), along its northwest and southeast boundaries.**
    - 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: [Click here to enter text.](#)

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

  - Wetland B - PFO (directly abutting RPW) - 0.20 acres.**
  - Wetland C - PFO (directly abutting RPW) - 0.01 acres.**
  - Wetland D - PEM (directly abutting RPW) - 0.66 acres.**

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

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 jurisdictional. Data supporting this conclusion is provided at Section III.C.

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

**Wetland A - PEM (adjacent, not directly abutting RPW) - 0.30 acres.**

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

- Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

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

7. **Impoundments of jurisdictional waters.<sup>9</sup>**

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: [Click here to enter text.](#)
- Other factors. Explain: [Click here to enter text.](#)

**Identify water body and summarize rationale supporting determination:** [Click here to enter text.](#)

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: [Click here to enter text.](#)
- 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: [Click here to enter text.](#)
- Other: (explain, if not covered above): [Click here to enter text.](#)

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: [Click here to enter text.](#)
- 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):

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

<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.

- Non-wetland waters (i.e., rivers, streams): # linear feet # width (ft).
- Lakes/ponds: # acres.
- Other non-wetland waters: # acres. List type of aquatic resource: *Click here to enter text.*
- 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: Metric Environmental Wetland Delineation Report, July 2017.
- Data sheets prepared/submitted by or on behalf of the applicant/consultant.
  - Office concurs with data sheets/delineation report.
  - Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps: *Click here to enter text.*
- Corps navigable waters' study: *Click here to enter text.*
- U.S. Geological Survey Hydrologic Atlas: 8-Digit HUC Watershed 2017
  - USGS NHD data.
  - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: Westfield, Indiana; 7.5 Quadrangle Maps.
- USDA Natural Resources Conservation Service Soil Survey. Citation: Hamilton County NRCS Soil Survey
- National wetlands inventory map(s). Cite name: USFWS NWI Map.
- State/Local wetland inventory map(s): *Click here to enter text.*
- FEMA/FIRM maps: USGS Indiana Map
- 100-year Floodplain Elevation is: *Click here to enter text.* (National Geodetic Vertical Datum of 1929)
- Photographs:  Aerial (Name & Date): Indiana USGS 2017; Westfield Boulevard Connector Project, City of Westfield, Hamilton Co. (Google Earth, 2017)  
 or  Other (Name & Date): Site Photographs, July 2015 & October 2016, Metric Environmental; Site Photographs, August 24, 2017 site visit, USACE staff.
- Previous determination(s). File no. and date of response letter: *Click here to enter text.*
- Applicable/supporting case law: *Click here to enter text.*
- Applicable/supporting scientific literature: *Click here to enter text.*
- Other information (please specify): Hamilton County GIS Flexviewer for drainage system <http://gis.hamiltoncounty.in.gov/FlexViewer/Index.html>

**B. ADDITIONAL COMMENTS TO SUPPORT JD**

Wetland B directly abuts both Stream2, Grassy Branch (RPW), to the south, and Stream 3, UNT to Grassy Branch (Non-RPW), to the east. Jurisdiction determination for Wetland B is based on the wetland's significant nexus with Stream 2, Grassy Branch (RPW) only. Wetland B is within Grassy Branch (RPW) floodplain, water table/hydrology increases during rain events and seasonal flooding.