

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): 12/01/2021

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Rock Island District, Borrego Solar Systems, Inc, CEMVR-RD-2021-1445

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: IL County/parish/borough: Tazewell City: Mackinaw
Center coordinates of site (lat/long in degree decimal format): Lat. 40.535767° **Pick List**, Long. -89.289136° **Pick List**
Universal Transverse Mercator:

Name of nearest waterbody: Tributary to Little Mackinaw River

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

Name of watershed or Hydrologic Unit Code (HUC): Mackinaw 07130004

- 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: December 1, 2021
 Field Determination. Date(s): By consultant April 12, 2019

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

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply):¹

- TNWs, including territorial seas
 Wetlands adjacent to TNWs
 Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
 Non-RPWs that flow directly or indirectly into TNWs
 Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
 Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
 Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
 Impoundments of jurisdictional waters
 Isolated (interstate or intrastate) waters, including isolated wetlands

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

Non-wetland waters: 914 linear feet: 4 width (ft) and/or 0.08 acres.
Wetlands: Wetland 1-0.82 acres, Farmed Wetland 1-0.33 acres.

c. Limits (boundaries) of jurisdiction based on: **1987 Delineation Manual**

Elevation of established OHWM (if known): .

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

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

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² 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).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

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

1. TNW

Identify TNW: .

Summarize rationale supporting determination: .

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is “adjacent”:

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

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

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

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

If the waterbody⁴ 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: 0.38 square miles

Drainage area: 0.04 square miles

Average annual rainfall: 38 inches

Average annual snowfall: 23 inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through 2 tributaries before entering TNW.

Project waters are 5-10 river miles from TNW.

Project waters are 1-2 river miles from RPW.

Project waters are 5-10 aerial (straight) miles from TNW.

Project waters are 1-2 aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: .

Identify flow route to TNW⁵: Tributary to Little Mackinaw River to Little Mackinaw River to Mackinaw River (TNW).

Tributary stream order, if known: .

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

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

Tributary is: Natural
 Artificial (man-made). Explain: .
 Manipulated (man-altered). Explain: concrete lined channel.

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

Average width: 5-7 feet
Average depth: 3-4 feet
Average side slopes: **3:1**.

Primary tributary substrate composition (check all that apply):

Silts Sands Concrete
 Cobbles Gravel Muck
 Bedrock Vegetation. Type/% cover: 90%
 Other. Explain: .

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

Presence of run/riffle/pool complexes. Explain: .

Tributary geometry: **Meandering**

Tributary gradient (approximate average slope): 2-4 %

(c) Flow:

Tributary provides for: **Seasonal flow**

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

Describe flow regime: Perennial year round flow .

Other information on duration and volume: .

Surface flow is: **Confined**. Characteristics: .

Subsurface flow: **Yes**. Explain findings: .

Dye (or other) test performed: .

Tributary has (check all that apply):

Bed and banks
 OHWM⁶ (check all indicators that apply):
 clear, natural line impressed on the bank the presence of litter and debris
 changes in the character of soil destruction of terrestrial vegetation
 shelving the presence of wrack line
 vegetation matted down, bent, or absent sediment sorting
 leaf litter disturbed or washed away scour
 sediment deposition multiple observed or predicted flow events
 water staining abrupt change in plant community
 other (list):
 Discontinuous OHWM.⁷ Explain: .

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

High Tide Line indicated by: Mean High Water Mark indicated by:
 oil or scum line along shore objects survey to available datum;
 fine shell or debris deposits (foreshore) physical markings;
 physical markings/characteristics vegetation lines/changes in vegetation types.
 tidal gauges
 other (list):

(iii) **Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: Water color identified in stream reports as being brown.

Identify specific pollutants, if known: Nutrients and organic enrichment (low dissolved oxygen) from agriculture point source pollution.

⁶A 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.

⁷Ibid.

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

- Riparian corridor. Characteristics (type, average width): 55 feet.
- Wetland fringe. Characteristics: Identified on NWI.
- Habitat for:
 - Federally Listed species. Explain findings: Riparian corridor-habitat for Indiana Bat and Northern Long eared bat.
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings: Macroinvertebrates.
 - Aquatic/wildlife diversity. Explain findings: Fish, mussels, frogs, turtles, snakes, mammal species.

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: 0.82 onsite acres

Wetland type. Explain: PEM wetland.

Wetland quality. Explain: Low quality plant community in wetlands.

Project wetlands cross or serve as state boundaries. Explain: No.

(b) General Flow Relationship with Non-TNW:

Flow is: **Perennial flow**. Explain: stream flow and piped stream flow creates direct connection to the Little Mackinaw River.

Surface flow is: **Confined**

Characteristics: Wetland fed by an upland agricultural drainage swale west and north of the site. Flow is through wetland, until the water discharges from the wetland into intermittent tributary to Little Mackinaw River.

Subsurface flow: **Yes**. Explain findings:

Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:

Directly abutting

Not directly abutting

Discrete wetland hydrologic connection. Explain:

Ecological connection. Explain:

Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are **5-10** river miles from TNW.

Project waters are **5-10** aerial (straight) miles from TNW.

Flow is from: **Wetland to navigable waters**.

Estimate approximate location of wetland as within the **500-year or greater** 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: water quality, general watershed.

Identify specific pollutants, if known: chemical pollutant from agricultural surface runoff, chemical pollutant from runoff from adjacent roads.

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

Riparian buffer. Characteristics (type, average width):

Vegetation type/percent cover. Explain: PEM wetland.

Habitat for:

Federally Listed species. Explain findings: Indiana bat and Northern long eared bat.

Fish/spawn areas. Explain findings:

Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: Waterfowl, mammals, reptiles, amphibians.

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

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

Approximately (1.15) 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> |
|------------------------------|------------------------|------------------------------|------------------------|
| Farmed Wetland 1 N | 0.33 ac. | | |
| Wetland 1 Y | 0.82 ac. | | |

Summarize overall biological, chemical and physical functions being performed: The flow from Farmed Wetland 1 to Wetland 1 to tributary to the Little Mackinaw River, to the Little Mackinaw River, to the Mackinaw River, creates a direct connection to TNW. The tributary in combination with Farmed Wetland 1 and Wetland 1, serves to filter pollutants (sediment, chemicals and other pollutants) from stormwater runoff from the adjacent agricultural land and roadways prior to reaching the Mackinaw River, a TNW. Farmed Wetland 1 and Wetland 1, holds floodwaters, intercepts sheet flow from uplands, and releases waters to the tributary in a more even and constant manner. Farmed Wetland 1 and Wetland 1, helps to maintain more consistent water temperature in the tributary, which is important for some aquatic species. The tributary and Farmed Wetland 1 and Wetland 1, provide habitats for many aquatic and non-aquatic species that also live in and adjacent to TNW's, including federally listed species.

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: The 0.82 acre Wetland 1, is fed by Farmed Wetland 1 to the north of it, and it directly abuts and flows into a tributary to the Little Mackinaw River, which directly abuts and flows into the Little Mackinaw River, which directly abuts and flows into the Mackinaw River, a TNW in the Rock Island District of Illinois. The wetland and the tributary stream are located a little over 5 miles from the TNW, and are directly connected by tributary stream, to an offsite pond (located to the south), the pond outlet pipe/tile appears to flow underground or thru a grass waterway for approximately 0.16 miles, then flows back to the tributary stream for approximately 0.38 miles, then flows into the Little Mackinaw River, which flows to the southwest for approximately 4.80 miles, until it flows into the Mackinaw River, a TNW. The flow from Wetland 1 to tributary to the Little Mackinaw River, to the Little Mackinaw River, to the Mackinaw River, creates a direct connection to TNW. The tributary in combination with the abutting Wetland 1, serves to filter pollutants (sediment, chemicals and other pollutants) from stormwater runoff from the adjacent agricultural land and roadways prior to reaching the Mackinaw River, a TNW. The abutting Wetland 1, holds floodwaters, intercepts sheet flow from uplands, and releases waters to the tributary in a more even and constant manner. The abutting Wetland 1, helps to maintain more consistent water temperature in the tributary, which is important for some aquatic species. The tributary and abutting Wetland 1, provide habitats for many aquatic and non-aquatic species that also live in and adjacent to TNW's, including federally listed species.

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: The 0.33 acre Farmed Wetland 1, is fed by agricultural drainage north of the site, and it directly abuts and flows into Wetland 1, which directly abuts and flows into a tributary to the Little Mackinaw River, which directly abuts and flows into the Little Mackinaw River, which directly abuts and flows into the Mackinaw River, a TNW in the Rock Island District of Illinois. The two wetlands and the tributary stream are located a little over 5 miles from the TNW, and are directly connected by tributary stream, to an offsite pond (located to the south), the pond outlet pipe/tile appears to flow underground or thru a grass waterway for approximately 0.16 miles, then flows back to the tributary stream for approximately 0.38 miles, then flows into the Little Mackinaw River, which flows to the southwest for approximately 4.80 miles, until it flows into the Mackinaw River, a TNW. The flow from Farmed Wetland 1 to Wetland 1 to Tributary to the Little Mackinaw River, to the Little Mackinaw River, to the Mackinaw River, creates a direct connection to TNW. The tributary in combination with the adjacent Farmed Wetland 1, serves to filter pollutants (sediment, chemicals and other pollutants) from stormwater runoff from the adjacent agricultural land and roadways prior to reaching the Mackinaw River, a TNW. The adjacent Farmed Wetland 1, holds floodwaters, intercepts sheet flow from uplands, and releases waters to the tributary in a more even and constant manner. The adjacent Wetland 1, helps to maintain more consistent water temperature in the tributary, which is important for some aquatic species. The tributary and adjacent Wetland 1, provide habitats for many aquatic and non-aquatic species that also live in and adjacent to TNW's, including federally listed species.

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: Labeled on USGS and NWI maps as a perennial stream.
 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: Labeled on the USGS and NWI maps as intermittent stream and aerial imagery shows a defined stream channel and possibly water in the channel seasonally.

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

- Tributary waters: **914** linear feet **4** width (ft).
 Other non-wetland waters: acres.
 Identify type(s) of waters: .

3. **Non-RPWs⁸ that flow directly or indirectly into TNWs.**

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

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

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

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

- Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
 Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .
 Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: Aerial imagery and wetland delineation report show that the wetland is directly touching the tributary stream.

Provide acreage estimates for jurisdictional wetlands in the review area: **Wetland 1-0.82** acres.

⁸See 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: **Farmed Wetland 1-0.33** 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.⁹**

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from “waters of the U.S.,” or
- Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

E. **ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰**

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
- from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- which are or could be used for industrial purposes by industries in interstate commerce.
- Interstate isolated waters. Explain: _____.
- Other factors. Explain: _____.

Identify water body and summarize rationale supporting determination: _____

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

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

F. **NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):**

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 - Prior to the Jan 2001 Supreme Court decision in “*SWANCC*,” the review area would have been regulated based solely on the “Migratory Bird Rule” (MBR).
 - Waters do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction. Explain: _____.
- Other: (explain, if not covered above): _____.

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- Non-wetland waters (i.e., rivers, streams): _____ linear feet _____ width (ft).
- Lakes/ponds: _____ acres.
- Other non-wetland waters: _____ acres. List type of aquatic resource: _____.
- Wetlands: _____ acres.

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

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

Provide 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:ENCAP Inc..
- 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: .
- Corps navigable waters’ study: .
- U.S. Geological Survey Hydrologic Atlas: .
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name:Mackinaw, Illinois.
- USDA Natural Resources Conservation Service Soil Survey. Citation:NRCS Soil Survey forTazewell County, Illinois.
- National wetlands inventory map(s). Cite name:Mackinaw, Illinois.
- State/Local wetland inventory map(s): .
- FEMA/FIRM maps: .
- 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): .
 - or Other (Name & Date):Color photos supplied in ENCAP wetland delineation report.
- Previous determination(s). File no. and date of response letter: .
- Applicable/supporting case law: .
- Applicable/supporting scientific literature:2007 Clean Water Act Jurisdictional Handbook, by Environmental Law Institute
2007 USACE and USEPA Jurisdictional Determination Form Instructional Guidebook.
- Other information (please specify):Google Earth satellite images: 1985-2019, <http://www.historicaerials.com>.
Stream stats-USGS

B. ADDITIONAL COMMENTS TO SUPPORT JD: The project site consists of 0.33 acre Farmed Wetland 1, is fed by agricultural drainage north of the site, and it directly abuts and flows into Wetland 1, which directly abuts and flows into a tributary to the Little Mackinaw River, which directly abuts and flows into the Little Mackinaw River, which directly abuts and flows into the Mackinaw River, a TNW in the Rock Island District of Illinois. The two wetlands and the tributary stream are located a little over 5 miles from the TNW, and are directly connected by tributary stream, to an offsite pond (located to the south), the pond outlet pipe/tile appears to flow underground or thru a grass waterway for approximately 0.16 miles, then flows back to the tributary stream for approximately 0.38 miles, then flows into the Little Mackinaw River, which flows to the southwest for approximately 4.80 miles, until it flows into the Mackinaw River, a TNW. The flow from Farmed Wetland 1 to Wetland 1 to Tributary to the Little Mackinaw River, to the Little Mackinaw River, to the Mackinaw River, creates a direct connection to TNW.

