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 REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 06/05/17 B. DISTRICT OFFICE, FILE NAME, AND NUMBER: USACE - Memphis District; MVM-2017-026 C. PROJECT LOCATION AND BACKGROUND INFORMATION: State:Arkansas County/parish/borough: Craighead County City: Center coordinates of site (lat/long in degree decimal format): Lat. 35.721005° N, Long. -91.032043° W. Universal Transverse Mercator: Name of nearest waterbody: Cache River Name of nearest Traditional Navigable Water (TNW) Into which the aquatic resource flows: White River Name of watershed or Hydrologic Unit Code (HUC): 08020302 Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form. D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Date: Field Determination. Date(s): 03-01-2017 **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. 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: 1329 linear feet: width (ft) and/or .12 acres.

c. Limits (boundaries) of jurisdiction based on: Established by OHWM.

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: Field #1 and Field #2 were delinated as Prior Converted Cropland (PC) by the Natural Resources

Conservation Service. The PC designation is given to a wetland converted to cropland before December 23, 1985 and

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

Wetlands: 53.45 acres.

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.

was capable of be wetland hydrolog	eing cropped and did y and vegitation.	d not meet farmed w	vetland hydrology criter	ia. These fields current	y lack natural

SECTION III: CWA ANALYSIS

TNW

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:	
	Summarize rationale supporting determination:	
•	XX/-411 - 1' 4 4 - (DNIXX/	

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.

Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: The stream receives hydrology from parts of 2, 12 digit HUCs. The average of 080203020305 and 080203020306 is approximiantly 32,058-acres

Drainage area: 850- acres Average annual rainfall: 46.19 inches Average annual snowfall: 5.1 inches

(ii) Physical Characteristics:

(a) Relationship with TNW: ☐ Tributary flows directly into TNW. Tributary flows through 2 tributaries before entering TNW. Project waters are **30 (or more)** river miles from TNW. Project waters are 1 (or less) river miles from RPW. Project waters are 30 (or more) 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: NO.

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

	Identify flow route to TNW ⁵ : The unnammed tributary flows directly into the Cache River which flows into the White River a TNW. Tributary stream order, if known: Second.
(b)	General Tributary Characteristics (check all that apply): Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain: The tributary was delineated in its natural meander in the
USGS 7.5 min	ute Topographic map. The tributary has scince been channelized and rerouted around agricultural field boundaries.
	Tributary properties with respect to top of bank (estimate): Average width: 10-20 feet Average depth: unknown feet Average side slopes: 2:1.
	Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain:
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: turbid. Presence of run/riffle/pool complexes. Explain: Channelized. Tributary geometry: Relatively straight Tributary gradient (approximate average slope): 0-1 %
5" of precipita different times 12" of the sur- regime. Based shelving and l	Flow: Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: Average yearly and monthley percipitation records indicate that the drainage area recives 3-tion per month during the Fall, Winter, and Spring seasons. Aerial photos indicate observable hydrology in the channel at of year over several years. Additionally the majority of the soils in the drainage area have a high water table (within 0-ace which is above the elevation of the OHWM) and low permibility adding to the frequency and duration of the flow I on this information and other information available it is estimated that the tributary flows seasonally. Other information on duration and volume: An observable Oridinary High Water Mark (OHWM) is well defined with ack of vegitation indicating long periods of time under flow conditions (e.g. seasonally). Agricultural production in the sy irrigated with pumped groundwater which provides hydrology to the system that is not included in the percipitation
	Surface flow is: Confined. Characteristics: The channel of the tributary is well defined.
tributary.	Subsurface flow: Unknown . Explain findings: Soils indicate a high water table contributing to the hydrology of the
uno utany.	Dye (or other) test performed:
	Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition water staining other (list): Discontinuous OHWM. 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:

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. 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.

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):	
Chemical Characteristics:	
~	

(iii)

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: The channel recieves water from agricultural runoff which tends to have a high sediment load due to agricultural practices such as tilling and discing and also contain agricultural pollutants such as herbicides, pesticides, fugicides, and fertilizers. The water color is brown and turbid from agricultural runoff.

Identify specific pollutants, if known:

(iv)		ogical Characteristics. Channel supports (check all that apply):
	g bar	Riparian corridor. Characteristics (type, average width): Abutting bottomland hardwood forest along the southern (right ak) bank of the tributary averaging 4,000'. There is an approximately 80' berm with herbacious to scrub shrub vegetation
to the no	rın.	Wetland fringe. Characteristics: .
	\boxtimes	Habitat for:
		Federally Listed species. Explain findings:
		☐ Fish/spawn areas. Explain findings: See aquatic diversity below. ☐ Other environmentally-sensitive species. Explain findings:
		Aquatic/wildlife diversity. Explain findings: The tributary immediately flows into the Cache River. The Cache River
		one of the largest tracts of bottomland hardwoods left in eastern Arkansas. These forested tracts and RPWs provide for
-	-	nd richness. These smaller RPWs serve as breeding, spawning, and feeding grounds for species that inhabit the larger
system as we	r as p	rovide hydrology and carbon to the larger system.
2. Cha	aract	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
(i)		sical Characteristics:
	(a)	General Wetland Characteristics: Perporties:
		Properties: Wetland size:53.45 acres
		Wetland type. Explain: See Table 1 attached.
		Wetland quality. Explain: Wetland quality ranges from mature intact bottomland hardwood forest to emergent and
scrub sh	ub w	etlands that have been impacted by roads and culverts Project wetlands cross or serve as state boundaries. Explain: .
		Froject wettailds cross of serve as state boundaries. Explain.
	(b)	General Flow Relationship with Non-TNW:
		Flow is: Intermittent flow . Explain: .
		Surface flow is: Overland sheetflow
		Characteristics: Flow through the wetlands ranges from sheetflow through bottomland hardwood forest to confined
flow thro	ough l	linear herbaceous wetlands. The largest tract of wetlands are bottomland hardwoods.
		Subander dan N. Farlinda da linea
		Subsurface flow: No. 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: .
	(L)	Description (Description des TNW)
	(a)	Proximity (Relationship) to TNW Project wetlands are 30 (or more) river miles from TNW.
		Project waters are 30 (or more) aerial (straight) miles from TNW.
		Flow is from: Wetland to navigable waters.
		Estimate approximate location of wetland as within the 50 - 100-year floodplain.
(ii)	Che	emical Characteristics:
(11)		racterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed
		characteristics; etc.). Explain: Water was turbid and brown although overall water quality is unknown. Watershed is
	T.J	heavily impacted agriculture.
	idei	ntify specific pollutants, if known:
(iii) Bio	logical Characteristics. Wetland supports (check all that apply):
	\boxtimes	Riparian buffer. Characteristics (type, average width):
		Vegetation type/percent cover. Explain:Vegitation type varies from herbaceous to forested. Percent cover varies as well.
	\boxtimes	Habitat for:
	لات	Federally Listed species. Explain findings:
		Fish/spawn areas. Explain findings:
		Other environmentally-sensitive species. Explain findings:
watershed con	ntaine	Aquatic/wildlife diversity. Explain findings: The wetlands abut the Cache River and its tributaries. The Cache River one of the largest tracts of bottomland hardwoods left in eastern Arkansas. These forested tracts and RPWs provide for
		nd richness. These bottomland hardwood wetlands provide shelter, resting, breeding, nesting, feeding and watering places
		ates and vertabrates including migratory birds. This tract is surrounded largely by agricultural land.

Characteristics of all wetlands adjacent to the tributary (if any)
All wetland(s) being considered in the cumulative analysis: 8
Approximately (53.45 + 0.12) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N) Wetland 1 (Y)	Size (in acres) 46.37	Directly abuts? (Y/N) Wetland 2 (Y)	Size (in acres)	0.04
Wetland 3 (Y)	0.03	Wetland 4 (Y)		0.02
Wetland 5 (Y)	0.81	Wetland 6 (Y)		1.62
Wetland 7 (Y)	2.23	Other Waters		0.12

Summarize overall biological, chemical and physical functions being performed: These wetlands serve to filter runoff from the surrounding agricultural fields. Runoff from agricultural often contains chemical pollutants which can be uptaken by these wetlands. They also provide carbon for the carbon cycle of the downstream foodweb. They attinuate flood waters from the Cache River and its tributaries. Flooding is an issue along the Cache and these areas provide several acre feet of flood storage. The forested wetlands provide habitat for many biological functions as discussed above, adding to the overall complexity and diversity of the ecosystem.

C. SIGNIFICANT NEXUS DETERMINATION

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

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

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

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

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

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

1.	TNWs and Adjacent V	Netlands. Ch	eck all that	apply and	provide size	estimates in revi	ew area:
	☐ TNWs: linear feet	width (ft)), Or,	acres.			
	Wetlands adjacent to	o TNWs:	acres.				

2.	RPWs that flow directly or indirectly into TNWs. Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
	Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: Average yearly and monthly precipitation records indicate that the drainage area recives 3-5" of precipitation per month during the Fall, Winter, and Spring seasons. Aerial photos indicate observable hydrology in the channel at different times of year over several years. Additionally the majority of the soils in the drainage area have a high water table (within 0-12" of the surface) and low permibility adding to the frequency and duration of the flow regime. Based on this information and other information available it is estimated that the tributary flows seasonally. An observable Oridinary High Water Mark (OHWM) is well defined with shelving and a lack of vegitation indicating long periods of time under flow conditions (e.g. seasonally). Agricultural production in the area is routinely irrigated with pumped groundwater which provides hydrology to the system that is not included in the percipitaion records.
	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: 1329 linear feet 20' width (ft). Other non-wetland waters: 0.12acres. Identify type(s) of waters: Open water.
3.	Non-RPWs ⁸ 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: The Cache River is a first order perennial river that flows year round; wetlands flow directly into the Cache River and it's tributaries through culverts and direct flow.
	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: 53.45 acres.
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.
6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
	Provide estimates for jurisdictional wetlands in the review area: acres.
7.	Impoundments of jurisdictional waters. As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. □ Demonstrate that impoundment was created from "waters of the U.S.," or

 $^{^8} See$ Footnote # 3. 9 To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

	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: . Other factors. Explain: .
	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): Field #1 and Field #2 were delinated as Prior Converted Cropland (PC) by the Natural sources Conservation Service. These fields currently lack natural hydrology or vegitation.
	Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: acres.
	Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: acres.
	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: 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.

 $^{^{10}}$ 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 $\it Memorandum~Regarding~CWA~Act~Jurisdiction~Following~Rapanos.$

	☐ USGS 8 and 12 digit HUC maps.
\boxtimes	U.S. Geological Survey map(s). Cite scale & quad name: .
\boxtimes	USDA Natural Resources Conservation Service Soil Survey. Citation: Craighead County, AR.
\boxtimes	National wetlands inventory map(s). Cite name: .
	State/Local wetland inventory map(s): .
\boxtimes	FEMA/FIRM maps: .
	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
\boxtimes	Photographs: Aerial (Name & Date):Google Earth multiple dates, NAIP multiple years.
	or Other (Name & Date):
	Previous determination(s). File no. and date of response letter: .
	Applicable/supporting case law: .
	Applicable/supporting scientific literature: .
	Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: