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.

<u>SECTION I: BACKGROUND INFORMATION</u> A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 28 NOV 2022

	R: SWT-2022-00453	AND NUMBER:	, FILE NAME	DISTRICT OFFICE	В.
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ь.	DISTRICT OFFICE, FILE NAME, AND NUMBER: SW 1-2022-00455
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: State: OK County/parish/borough: Canadian City: Oklahoma City Center coordinates of site (lat/long in degree decimal format): Lat. 35.605683° N, Long97.668082° W. Universal Transverse Mercator: Name of nearest waterbody: Deer Creek Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Arkansas River Name of watershed or Hydrologic Unit Code (HUC): 1105000208 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: 10/28/2022 ☐ Field Determination. Date(s): 10/21/2022
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the lew 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.
The	ere 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): TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters ² (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
12.7	b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: R4SB-1: linear feet: 690, width (ft): 20; R6SB-1: linear feet: 2,680, width (ft): 4; PUB-1: width (ft) and/or acres. Wetlands: PEM1-1: 0.175 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:

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.

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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: 380.34 square miles

Drainage area: R4SB-1: 1,917 acres; Drainage area: R6SB-1: 85.3 acres

Average annual rainfall: 33.37 inches Average annual snowfall: 6.4 inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

Tributary flows through 4 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: N/A.

Identify flow route to TNW⁵: Unnamed Tributary of Deer Creek, Deer Creek, Cottonwood Creek, Cimarron River, Arkansas River, a Section 10 TNW.

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.

	Tributary stream of	rder, if known:		
(b)	General Tributary Tributary is:	Characteristics (check all that apply): ☐ Natural ☐ Artificial (man-made). Explain: ☐ Manipulated (man-altered). Exp	lain: R6SB-1	l displayed a discontinuous OHWM due to
agricultural ac	ctivities.			
	Average widt	ies with respect to top of bank (estimath: R4SB-1: 20 feet; Average Width: Rh: R4SB-1: 3 feet; Average depth: R6S slopes: 3:1.	6SB-1: 4 fee	et
	Silts☐ Cobbles☐ Bedrock	substrate composition (check all that ap Sands Gravel Vegetation. Type/% coplain: Sandstone.		☐ Concrete ☑ Muck
no highly eroo	ding or sloughing ba Presence of run/rif Tributary geometry	inks being noticed. fle/pool complexes. Explain: N/A.	ing banks].	Explain: Tributaries were in stable condition with
throughout. Fe the time of the immediately f the upper reac discontinuous	Estimate average in Describe flow R4SB-1 was determine site visit in drough collowing a rainfall of thes of R6SB-1 that bed/bank and OHW Other informa	ned to have an intermittent or greater for the conditions. R6SB-1 was observed to event. At the time of the site visit, no contained pooled water. R6SB-1 is bear of M within the review area due to agrication on duration and volume: R4SB-1	was observed flow regime of exhibit sign flow was obsest described cultural activities best described	ed to contain pooled water with little flow due to it containing pooled water throughout during as of ephemeral flows that occur during and served within the stream. There was one location in a san ephemeral stream channel that has a
		(R4SB-1 and R6SB-1) with some of R		within the defined stream channels that were we being unconfined due to its discontinuous OHWN
		Unknown. Explain findings: her) test performed: .		
have occurred	clear, chang shelvi vegeta leaf li sedim water other	anks (check all indicators that apply): natural line impressed on the bank tes in the character of soil ag ation matted down, bent, or absent tter disturbed or washed away tent deposition staining (list): uous OHWM.7 Explain: R6SB-1 exhil	destruction the present sediment scour multiple of abrupt ch	nce of litter and debris on of terrestrial vegetation nce of wrack line sorting observed or predicted flow events nange in plant community tinuous OHWM due to agricultural activities that
	☐ High Tid ☐ oil or		ean High Wa	t of CWA jurisdiction (check all that apply): ater Mark indicated by: available datum; arkings;

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.

	□ physical markings/characteristics□ tidal gauges□ other (list):	vegetation lines/changes in vegetation types.
(iii)	Explain: R4SB-1 exhibited a relatively clear water co	d, oily film; water quality; general watershed characteristics, etc.). Ilor with the stream containing pooled water throughout. No the site visit. R6SB-1 ony exhibited one small pool of water that

	` ′	\boxtimes	ogical Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): R4SB-1: (Forested, 80-foot); R6SB-1: (Forested and
			0-foot). Wetland fringe. Characteristics: R6SB-1 exhibited small emergent wetland characteristics in four seperate locations in
ıne	poru		the relic stream channel where agricultural activities led to a loss of bed/bank and OHWM. Habitat for:
			Federally Listed species. Explain findings:
			Fish/spawn areas. Explain findings:
			☐ Other environmentally-sensitive species. Explain findings: ☐ Aquatic/wildlife diversity. Explain findings: The streams identified within the review area are utilized by various
			pious vertebrates such snakes, frogs, lizards, and salamanders as well as aquatic invertebrates that support these are also used by other wildlife species such as deer, turkeys, and other mammalian species.
2.	Cha	ract	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)		sical Characteristics:
		(a)	General Wetland Characteristics: Percentification:
			Properties: Wetland size: 0.175 acres
			Wetland type. Explain: Emergent.
			Wetland quality. Explain: PEM1-1 is a fully fuctioning wetland that has a direct hydrological connection to R4SB-1 Project wetlands cross or serve as state boundaries. Explain: N/A.
		(b)	General Flow Relationship with Non-TNW:
			Flow is: Intermittent flow. Explain: .
			Surface flow is: Confined
			Characteristics: .
			Subsurface flow: Unknown. Explain findings: Dye (or other) test performed:
		(c)	Wetland Adjacency Determination with Non-TNW:
			Directly abutting
			☐ Not directly abutting ☐ Discrete wetland hydrologic connection. Explain: .
			Ecological connection. Explain:
			Separated by berm/barrier. Explain:
		(d)	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 2 - 5-year floodplain.
	(ii)	Che	emical Characteristics:
	()		racterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed
			characteristics; etc.). Explain: During the site visit, PEM1-1 was heavily vegetated with signs of hydrology present.
		Iden	PEM1-1 was abutting R4SB-1 which exhibited clear water clarity. tify specific pollutants, if known: N/A.
	(:::		logical Characteristics. Wetland supports (check all that apply):
	(III)		Riparian buffer. Characteristics (type, average width):30-100 feet.
		\boxtimes	Vegetation type/percent cover. Explain:Barnyard Grass (Echinochloa crus-gali) 65%.
		\boxtimes	Habitat for:
			Federally Listed species. Explain findings: Fish/spawn areas. Explain findings:
			Other environmentally-sensitive species. Explain findings:
			Aquatic/wildlife diversity. Explain findings: PEM1-1 serves as habitat for a variety of aquatic species and provides
shelter a	nd fo	rage t	to migratory birds and other forms of wildlife.

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

All wetland(s) being considered in the cumulative analysis: 1

Approximately (0.175) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y	<u>Y/N)</u> Size (in	n acres)	Directly abuts? (Y/N)	Size (in acres)
PFM1-1	V	0.175		

Summarize overall biological, chemical and physical functions being performed: PEM1-1 acts as a small catchment area for sediments carried via storm water toward the abutting tributary as well as habitat for aquatic organisms, migratory birds, and other wildlife. Sediments and attached nutrients, pollutants, and/or other elements become deposited and captured within the wetland, as opposed to flowing directly into R4SB-1 and ultimately to the Arkansas River. Wetlands have been documented as having the capability of providing a long-term sink for nutrients present within waste, pesticides and fertilizers, primarily through their biogeochemical cycling (Walbridge and Lockaby 1994, Axt and Walbridge 1999). Due to this function, wetlands have long been termed the "kidneys of the landscape", due to their capacity to assist with pollutant filtration (Mitsch and Gosselink 2000). Because of the wetland's fluctuating hydrologic conditions, they likely host a variety of organisms dependent upon this type of system.

Axt, J.R., and M.R. Walbridge. 1999. Phosphate removal capacity of palustrine forested wetlands and adjacent uplands in Virginia. Soil Science Society of American Journal 63:1019-1031.

Mitsch, W.J. and J.G. Gosselink. 2000. Wetlands. John Wiley and Sons, Inc. New York, New York.

Walbridge, M.R. and B.G. Lockaby. 1994. Effects of forest management on biogeochemical functions in southern forested wetlands. Wetlands 14:10-17.

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:The subject tributary, R6SB-1, provides storage and filtration during precipitation events. It has been determined that the tributary possesses a hydrologic connectivity to the Arkansas River (Traditional Navigable Water) into which it indirectly flows. Hydrologic connectivity refers to the flow that transports organic matter and nutrients, energy, and aquatic organisms throughout the system (Freeman et al. 2006). Evidence of this connection and, consequently, a significant nexus is supported by observations and scientific literature. Solid OM, such as leaves and other detrital material, is processed by a feeding group referred to as "shredders", which includes crayfish, larvae of craneflies, caddisflies, and nymphs of stoneflies. Shredders break down this coarse material, and allow the material to be utilized by a secondary group known as "collectors". Collectors further process the OM and produce dissolved OM and fine particulate matter, which flow downstream. Generally, as the solid OM identified on the subject property is processed and translocated downstream, so are the microorganisms and invertebrates which utilize the material (Smith and Smith 2001). As such, headwater tributaries represent the base of the food chain and, therefore, comprise one of the most important

components of a watershed (Meyer et al. 2007). That is, the diversity of aquatic fauna in this headwater stream contributes to the biodiversity of the Arkansas River by fitting into the complex foodweb of the river basin. Furthermore, the frequency of major rainfall events in the watershed results in pulsating hydrology, which sustains the local waterways, and subsequently, the Arkansas River system. This influences the chemistry of the Arkansas River basin via the transport of sediments and nutrients and geochemical cycling which occur during these pulses. Various pollutants are likely present since this stream is located in close proximity to a developed area. Typical pollutants, such as oil, become suspended in storm water and, without adequate filtration, are transported downstream. After water is conveyed through the tributary, drying occurs in the headwater stream. This process of drying produces natural chemical and physical changes in the headwater stream. According to Izbicki (2007), even while headwater streams are drying, they remain an integral part of the overall stream because of this influence on the chemistry of the river downstream. Finally, headwater streams, such as the subject tributary, have been documented as providing necessary habitat for birds, mammals, reptiles, and amphibian populations (Meyer 2007). The small catchment area of headwater streams results in some of the most diverse habitats within a lotic system. Since the channel is greatly affected by precipitation events, the physical and chemical state of the stream changes rapidly and frequently which allows the habitat to be utilized by a large variety of species. Headwater streams are utilized not only by species which are unique to headwater streams, but also by animals which depend on such an environment for certain stages of their life cycles and those which migrate between headwater environments and larger waters. The subject tributary possesses a hydrologic connection to the Arkansas River through an open and defined channel. Due to this hydrologic connection, R6SB-1 has the capacity to contribute hydrology, carry pollutants, provide habitat for aquatic life cycles, and provide food in the form of organic matter to waters downstream, all of which illustrates that R6SB-1 possesses a significant nexus to the Arkansas River.

LITERATURE CITED:

- Freeman, M. C., C. M. Pringle, and C. R. Jackson. 2007. Hydrologic Connectivity and the Contribution of Stream Headwaters to Ecological Integrity at Regional Scales. Journal of the American Water Resources Association. 43: 5-14.
- Izbicki, J. A. 2007. Physical and Temporal Isolation of Mountain Headwater Streams in the Western Mojave Desert, Southern California. Journal of the American Water Resources Association. 43: 26-40.
- Meyer, J. L., D. L.Strayer, J. B. Wallace, S. L. Eggert, G. S. Helfman, and N. E. Leonard. 2007. The Contribution of Headwater Streams to Biodiversity in River Networks. Journal of the American Water Resources Association. 43: 86-103.
- Smith, R. L. and T. M. Smith. 2001. Ecology and Field Biology. Benjamin Cummings, New York. Pp. 644-650.
 - 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 Wetlands. Check all that apply and provide size estimates in review area: TNWs: linear feet width (ft), Or, acres. Wetlands adjacent to TNWs: acres.
2.	RPWs that flow directly or indirectly into TNWs. Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: R4SB-1 (unnamed tributary of Deer Creek) is mapped on USGS Topographic, NHD, and USFWS NWI Maps as an intermittent stream channel. During the site visit, R4SB-1 was observed to have a defined bed and bank, a distinguishable OHWM, and pooled water throughout.

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

Tributary waters: **R4SB-1**; 690 linear feet 20 width (ft).

Other non-wetland waters: PUB-1; 12.707 acres.

Identify type(s) of waters: PUB-1 is a jurisdictional impoundment of R4SB-1.

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: R6SB-1; 2,680 linear feet 4 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:
	Provide acreage estimates for jurisdictional wetlands in the review area: PEM1-1: 0.175 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 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).
SUC	LATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH 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:
Ider	ntify water body and summarize rationale supporting determination:
	vide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft).

E.

 ⁸See Footnote # 3.
 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.

	☐ 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 <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: acres.
	Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: acres.
SEC	TION IV: DATA SOURCES.
A. S	BUPPORTING 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. 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:Bethany, OK (1:24,000). USDA Natural Resources Conservation Service Soil Survey. Citation: National wetlands inventory map(s). Cite name:USFWS NWI Map. State/Local wetland inventory map(s): FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) Photographs: Aerial (Name & Date):Google Earth 1995-2022. Previous determination(s). File no. and date of response letter: Applicable/supporting case law: Applicable/supporting case law: Applicable/supporting scientific literature: Other information (please specify): USGS Stream Stats, Oklahoma Climatological Survey.

B. ADDITIONAL COMMENTS TO SUPPORT JD: The review area is approximately 105 acres containing two jurisdictional lotic water bodies (R4SB-1 and R6SB-1) and two jurisdictional lentic water bodies (PEM1-1 and PUB-1). R4SB-1 is a jurisdictional RPW that exhibits relatively permanent or greater flow characteristics. R6SB-1 is a jurisdictional non-RPW that is mapped on USGS Topographic, NHD, and USFWS NWI Maps as being an intermittent stream channel. During the site visit, R6SB-1 was determined to be an ephemeral non-RPW that exhibits a discontinuous OHWM due to agricultural activities. PEM1-1 is a jurisdictional wetland that abuts R4SB-1, a jurisdictional RPW. PUB-1 is a jurisdictional impoundment of R4SB-1, a jurisdictional RPW.