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 22, 2015

R	DISTRICT	OFFICE	FILENAME	AND NUMBER	·SWT_2015_380
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c.	PROJECT LOCATION AND BACKGROUND INFORMATION: State: Oklahoma County/parish/borough: Craig City: n/a Center coordinates of site (lat/long in degree decimal format): Lat. 36.69075° N, Long. 95.39544° W. Universal Transverse Mercator: Name of nearest waterbody: Lightning Creek Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Verdigris River Name of watershed or Hydrologic Unit Code (HUC): Lightning Creek 110701030504 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: October 22, 2015 ☐ Field Determination. Date(s): August 21, 2015
SE A.	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	ere Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the riew 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:
В.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
The	ere are and are not "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): 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
	b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: 14,798 width (ft) and/or 5.98 acres. Wetlands: 0.74 acres.
	c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known): n/a.
	 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: This site has approximately 39 upland ponds/lakes that are not connected to an otherwise regulated water body, thus the aquatic features do not represent a regulated water body. Several of these features are strip pits as the aftermath of the historic mining activities that occurred on the overall tract of land at this site.

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: 28,684.7 acres
Drainage area: 3,000 acres

Average annual rainfall: 43.97 inches Average annual snowfall: 9.8 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.

Identify flow route to TNW⁵: Lightning Creek flows into Oologah Lake, which is an impoundment of the Verdigris River. The Verdigris River becomes a TNW Northeast of the Port of Catoosa.

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 order, if known: 3 rd order.
(b)	General Tributary Characteristics (check all that apply):
, ,	Tributary is:
in the alteration	on of Lightning Creek at the time of the original mine.
	Tributary properties with respect to top of bank (estimate): Average width: 25 feet Average depth: 20 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: Shale was present in several locations within Lightning Creek.
features throu	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Presence of run/riffle/pool complexes. Explain: Several locations indicated that Lightning Creek has all three of these ghout the evaluation site. Tributary geometry: Meandering Tributary gradient (approximate average slope): 2 %
year with som	Flow: Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: 11-20 Describe flow regime: Based on the Oklahoma Climatological Survey, Craig County has an average of 86 days a see precipitation, this would allow for a portion of those days to result in flow events. Other information on duration and volume: Based on the National Hydrographic Data, Lightning Creek represents an ream and transistions to a perrenial stream within the evaluation site.
	Surface flow is: Confined. Characteristics: There is a clear bed and bank which this stream remains in.
	Subsurface flow: Unknown. Explain findings: 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: the presence of litter and debris destruction of terrestrial vegetation the presence of wrack line sediment sorting sediment sorting abrupt change in plant community
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by:
(iii) Che	emical Characteristics:

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.

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: The water was slightly green tinged color. The site is within a larger watershed which has coal mining ongoing. Identify specific pollutants, if known: n/a.

(iv)	\boxtimes	logical Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): forested, 250 feet average width. Wetland fringe. Characteristics: several wetland types were identified within the applicants JD report. Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: With water present year round, Lightning Creek would represent adequate habitation.
for aquatic spe	ecies.	
species in the	area.	23 required within a diversity. Explain mindings. The stream and its riparian corridor offer matrial for a wide variety of
2. Cha	ract	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
(i)	(a)	sical Characteristics: General Wetland Characteristics: Properties: Wetland size: 0.02 acres Wetland type. Explain: The site contains 2 emergent wetlands which all flow to Lightning Creek at different
iocations.	•	Wetland quality. Explain: Both wetlands are natural. Project wetlands cross or serve as state boundaries. Explain: no.
	(b)	General Flow Relationship with Non-TNW: Flow is: No Flow . Explain: Although the wetlands are tied to Lightning Creek, they would not have notable flow.
		Surface flow is: Overland sheetflow Characteristics: n/a.
		Subsurface flow: Unknown. Explain findings:
	(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-year or less floodplain.
, ,	Cha	emical Characteristics: racterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: n/a. https://doi.org/10.1001/j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.j.
aquatic fe	eature Sature	logical Characteristics. Wetland supports (check all that apply): Riparian buffer. Characteristics (type, average width): Forested corridors are present throughout the site and most of the es have some form of forested riparian corridor. Vegetation type/percent cover. Explain: The emergent wetlands are predominantly composed of blunt spike-rush, and swamp smartweed. Habitat for:
	ıs am	Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: These wetlands would likely support various aquatic uphibians, reptiles, and invertebrates. Aquatic/wildlife diversity. Explain findings: The wetlands represent a unique habitat type allowing greater wildlife to overall system at this site.

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

All wetland(s) being considered in the cumulative analysis: 5

Approximately (0.02) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	<u>Directly abuts? (Y/N)</u>	Size (in acres)
W1, Y	0.42	W5, N	0.01
W2, Y	0.17		
W3, Y	0.13		
W4, N	0.01		

Summarize overall biological, chemical and physical functions being performed: These wetlands offer storage, recharge, and supply of water. Additionally, the vegetation structure within these areas will aid in slowing the water velocities during large precipitation events. The existing wetlands provide limited storage of water, thereby contributing to the recharge of ground water. The wetlands can offer filtration of sediments and nutrients. Additionally, wetland plants will be established that are adapted to increased nutrient uptake and storage. The wetlands provide good food and cover for wildlife. The deeper emergent portions of the wetlands provide intermittent to perennial pools as a water source for all animals; in addition, to a potential food source for secondary consumer wildlife..

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: The jurisdictional wetlands exhibit the necessary indicators and elements to satisfy the significant nexus determination, including chemical, physical and biological factors for downstream ecosystems. These wetlands have the potential to aid in numerous downstream functions. The riparian corridor adjacent to the aquatic resources provide a shading effect for the aquatic resource; which in turn allows pooling areas to maintain desirable water temperatures and contribute organic nutrients to supply food webs downstream. Pooling water in deeper sections potentially support aquatic organisms throughout the year by providing habitat. These wetlands aid in the overall improvement of water quality for downstream ecosystems by trapping pollutants and allowing water to recharge ground water supplies, also contribute to increased biodiversity in the immediate area.

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: Lightning Creek is the primary stream channel that all of the site under evaluation flows into and eventually into TNW. Lightning Creek was flowing during the site visit on August 21, 2015, but it is mapped on the USGS Topographic map and NHD as being a perinnial 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: The unnamed tributary within the site had a well established OHWM and clear bed and bank at the site visit of August 21, 2015. This stream is a higher gradient system at its highest point, however, once it reaches the floodplain to Lightning Creek it reduces the energy and develeps more pools and would likely support seasonal flow.
	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: 14,798 linear feet 25 width (ft). Other non-wetland waters: acres. Identify type(s) of waters: Lightning Creek and its unnamed tributary.
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: During a site visit of August 21, 2015, I obeserved these wetlands and concluded that these wetlands were at or near the same elevation as Lightning Creek. The wetlands would extend the OHWM for the stream at their specific locations to include the entire wetlands until they no longer met all the parameters of the Corps Wetland Manual and the appropriate regional supplements.
	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: During a site visit of August 21, 2015, I obeserved the wetland and concluded that it was at or near the same elevation as the unnamed tributary. The wetland would extend the OHWM for the stream at this specific location to include the entire wetland until it no longer met all the parameters of the Corps Wetland Manual and the appropriate regional supplement.
	Provide acreage estimates for jurisdictional wetlands in the review area: 0.72 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: 0.02 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.

⁸See Footnote # 3.

	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).
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): There are numerous upland drainage features, ephemeral swales and other ditch like tures that did not meet Corps definitions of being a tributary.
	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): 21,963 linear feet n/a width (ft). Lakes/ponds: 25.27 acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: 5.41 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.
SE	CTION IV: DATA SOURCES.
	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.

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.

	Office does not concur with data sheets/delineation report.		
	Data sheets prepared by the Corps: .		
	Corps navigable waters' study: .		
\boxtimes	U.S. Geological Survey Hydrologic Atlas: ORM Map.		
	USGS NHD data.		
	☐ USGS 8 and 12 digit HUC maps.		
\boxtimes	U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 Chelsea NW, OK.		
	USDA Natural Resources Conservation Service Soil Survey. Citation:		
\boxtimes	National wetlands inventory map(s). Cite name: Chelsea NW, OK.		
	State/Local wetland inventory map(s): .		
\boxtimes	FEMA/FIRM maps: Panel 40105C0300D, Feb 16, 2012.		
	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)		
\boxtimes	Photographs: Aerial (Name & Date):Google Earth, .		
	or Other (Name & Date):		
	Previous determination(s). File no. and date of response letter: .		
\boxtimes	Applicable/supporting case law: SWANCC and RAPANOS rulings.		
	Applicable/supporting scientific literature: .		
	Other information (please specify): Oklahoma Climatological Survey data for Craig County.		

B. ADDITIONAL COMMENTS TO SUPPORT JD: This project site is approximately 780 acres within Craig County, Oklahoma. Portions of this site were previously altered due to strip coal mining and agricultural activities. The by product of those activities left approximately 39 water bodies on the site that hold water throughout the year, and also several depressional areas which did not result in meeting necessary parameters to be considered jurisdictional wetlands. There were also numerous upland drainage features, ephemeral swales and other features that did not meet Corps definitions of being a tributary.