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): September 12, 2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Sacramento District, Lentzner Springs Restoration Project, SPK-2008-00973

c.	PROJECT LOCATION AND BACKGROUND INFORMATION:
	State:CA County/parish/borough: Contra Costa City: Center coordinates of site (lat/long in degree decimal format): Lat. 37.93222° N, Long121.84502° W.
	Universal Transverse Mercator: Name of nearest waterbody: Oil Canyon Creek
	Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Sacramento-San Joaquin Delta
	Name of watershed or Hydrologic Unit Code (HUC): 18040003 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: 9/12/08 Field Determination. Date(s):
SE(CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	re Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the
	ew 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	re 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 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
	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: 3 linear feet: width (ft) and/or 0.0002 acres.
	Wetlands: 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:
an.	CETION INT. CONT. AND A VICTO

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

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).

Supporting documentation is presented in Section III.F.

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: 60,000 acres
Drainage area: acres

Average annual rainfall: 13-16 inches Average annual snowfall: 0 inches

(ii) Physical Characteristics:

((a)	Rel	atio	nshin	with	TNV	w.
١.	aı	IVCI	auoi	изиир	with	TIN	٧V.

☐ Tributary flows directly into TNW.

Tributary flows through 2 tributaries before entering TNW.

Project waters are 15-20 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 (or less) aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW⁵: Oil Canyon Creek lies within the project site along its northern edge, and is an RPW with seasonal flow (at least three months per year). Oil Canyon creek flows to Sand Creek, which flows to Marsh Creek, which drains to the San Joaquin River Delta at Big Break, in the Oakley area..

Tributary stream order, if known: Unknown.

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

Tributary is:	Natura
---------------	--------

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.

	Artificial (man-made). Explai Manipulated (man-altered). E		in: .
	Tributary properties with respect to top of bank (esting Average width: 3 feet Average depth: 2 feet Average side slopes: 4:1 (or greater).	mate)	c
	Primary tributary substrate composition (check all that Silts Sands Gravel Bedrock Vegetation. Type/% Other. Explain:		☐ Concrete ☐ Muck
along the bank		he cre ie bed	g banks]. Explain: The consultant's documentation noted Oil eek provided by the consultant show abundant cover by grasses I of the channel. Overall the portion of the tributary
April 23, 2008	3. Also, the consultant provided documentation indicati	umen	ar: 20 (or greater) tation, flow was noted in Oil Canyon Creek on March 3 and at the creek is known by a locally knowledgable source to be dedgable source is referenced in the consultant's report.
	Surface flow is: $\overline{\textbf{Confined}}$. Characteristics: Confined	with	in incised banks.
	Subsurface flow: Unknown . Explain findings: Unknown Dye (or other) test performed:	own s	ubsurface flow characteristics.
	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 scour multiple observed or predicted flow events abrupt change in plant community
	If factors other than the OHWM were used to determing this high Tide Line indicated by: Oil or scum line along shore objects in the shell or debris deposits (foreshore) physical markings/characteristics tidal gauges other (list):	Mea	teral extent of CWA jurisdiction (check all that apply): in High Water Mark indicated by: survey to available datum; physical markings; vegetation lines/changes in vegetation types.
	Explain: At the time of the consultant's delineation sit water within the project area. The consultant also doct	e visi umen	film; water quality; general watershed characteristics, etc.). t (June 16, 2008), Oil Canyon Creek contained no surface ted site visits prior to the delineation, on March 3 and April of the March-April period. The consultant documented clear

water color conditions in the draft JD form provided with the wetland delineation report.

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.

Identify specific pollutants, if known: None known.

	(iv)		ogical Characteristics. Cl			
inal	udina				dth): Based on photographs provide within the project site consists of the	
HICI	uumg		Wetland fringe. Character		within the project site consists of t	upianu grassianu.
			Habitat for:			
			Federally Listed specie		•	
			☐ Fish/spawn areas. Expl ☐ Other environmentally		n findings:	
			Aquatic/wildlife divers		ii iiidiigs	
			_ 1	7. 1		
2.	Cha	aract	eristics of wetlands adjace	nt to non-TNW that flov	v directly or indirectly into TNW	
	(i)	Phy	sical Characteristics:			
			General Wetland Characte	ristics:		
			Properties:			
			Wetland size: acı Wetland type. Explair			
			Wetland quality. Expl			
			Project wetlands cross or s		Explain: .	
		(b)	General Flow Relationship	with Non TNW:		
		(0)	Flow is: Pick List . Explain			
			Surface flow is: Pick List			
			Characteristics:			
			Cl	F1-: f:1:		
			Subsurface flow: Pick Lis Dye (or other) test		•	
				periorinea		
		(c)	Wetland Adjacency Determined	mination with Non-TNW:		
			☐ Directly abutting ☐ Not directly abutting			
				ydrologic connection. Ex	plain:	
			☐ Ecological connec			
			☐ Separated by berm	/barrier. Explain: .		
		(d)	Proximity (Relationship) t	n TNW		
		(4)	Project wetlands are Pick		V.	
			Project waters are Pick L	ist aerial (straight) miles f	rom TNW.	
			Flow is from: Pick List.	tion of watland as within	the District fleedulein	
			Estimate approximate loca	tion of wettand as within	the Fick List noodplain.	
	(ii)		emical Characteristics:			
		Cha			own, oil film on surface; water qua	lity; general watershed
		Ider	characteristics; etc.). Expl tify specific pollutants, if k			
		Idei	mily specific politicinis, if k	nown.		
	(iii)	Bio!	logical Characteristics. W			
		H	Riparian buffer. Character Vegetation type/percent co		h): .	
		Ħ	Habitat for:	Wei. Explain		
		_	☐ Federally Listed specie			
			Fish/spawn areas. Expl		c. 1:	
			Aquatic/wildlife divers	sensitive species. Explainty Explain findings:	n findings:	
				ity. Explain illianigs.	•	
3.	Cha		eristics of all wetlands adj			
			wetland(s) being considered broximately () acres		is: Pick List ed in the cumulative analysis.	
		, vht	rominately () acres	in total are being consider	ca in the camulative allalysis.	
		For	each wetland, specify the fo	ollowing:		
			Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

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 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: According to the consultant's documentation, water was observed in the channel on March 3 and April 23, 2008 during site visits conducted by their firm. Also, a locally familiar source cited by the consultant provided information that Oil Canyon Creek is typically dry by June of a given year. This information supports a determination of RPW with continuous flow on a seasonal basis.

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

Tributary waters: 3 linear feet 3 width (ft).

	Other non-wetland waters: acres. Identify type(s) of waters: .
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:
	■ 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: Wetlands .
	Provide acreage estimates for jurisdictional wetlands in the review area: 0.0852 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.	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	OLATED [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:
Ide	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). Other non-wetland waters: acres.

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.

		Identify type(s) of waters: Wetlands: acres.
F.		N-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):
	fact	vide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR ors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional gment (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.
		vide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such adding 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	CTIC	ON IV: DATA SOURCES.
A. (and 20,	PORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked requested, appropriately reference sources below): Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: "Lentzner Wetland Delineation Map" dated August 2008, prepared by ICF Jones & Stokes. 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 NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: Antioch South 7.5' quadrangle. USDA Natural Resources Conservation Service Soil Survey. Citation: Contra Costa Soil Survey (1977). National wetlands inventory map(s). Cite name: State/Local wetland inventory map(s): FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) Photographs: Aerial (Name & Date): (National Geodectic Vertical Datum of 1929)
		Previous determination(s). File no. and date of response letter: Applicable/supporting case law: Applicable/supporting scientific literature: Other information (please specify): For aquatic resources information on Sand Creek, the RPW to which Oil Canyon Creek is utary, the Final East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan (Jones and Stokes, 6) was referred to.

B. ADDITIONAL COMMENTS TO SUPPORT JD: Oil Canyon Creek is an RPW with continuous flow "seasonally" (typically three months or more each year). Upland grassland directly abuts the banks of Oil Canyon Creek within the project area.

