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): August 17, 2015

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Sacramento District, Tesoro Remote Tank Farm, SPK-2015-00587-UO C. PROJECT LOCATION AND BACKGROUND INFORMATION: County/parish/borough: Salt Lake State: **Utah** City: Salt Lake City Center coordinates of site (lat/long in degree decimal format): Lat. 40.8067380052728°, Long. -111.931060974178° Universal Transverse Mercator: 12 421467.56 4517720.52 Name of nearest waterbody: Jordan River Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Great Salt Lake Name of watershed or Hydrologic Unit Code (HUC): Jordan, 16020204 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): July 6, 2015 **SECTION II: SUMMARY OF FINDINGS** A. RHA SECTION 10 DETERMINATION OF JURISDICTION. There Pick List "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required] □ Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: B. CWA SECTION 404 DETERMINATION OF JURISDICTION. There Are no "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: linear feet. wide, and/or acres. Wetlands: acres c. Limits (boundaries) of jurisdiction based on: Pick List Elevation of established OHWM (if known):

□ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: A total of 4 separate wetland areas comprising 22.1 acres were determined to be isolated within the 81.7 acre property. Wetland A (6.7 acres) and Wetland B (7.8 acres) are not connected.

Non-regulated waters/wetlands (check if applicable):³
 Potentially jurisdictional waters and/or wetlands were a

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.

with the nearest relatively permanent waterways (RPW). Wetland A is approximately 150 feet east of the Jordan River the nearest RPW. Wetland B is approximately 100 feet west of the Oil Drain Canal. Hydrology of both wetland areas are contained within the site through berms and an elevated road.

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: Pick List
Drainage area: Pick List
Average annual rainfall: inches
Average annual snowfall: inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW. Project waters are **Pick List** river miles from RPW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Project waters are **Pick List** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

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 : Tributary stream order, if known:
	(b)	General Tributary Characteristics (check all that apply): Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain:
		Tributary properties with respect to top of bank (estimate): Average width: feet Average depth: feet Average side slopes: Pick List.
		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: Presence of run/riffle/pool complexes. Explain: Tributary geometry: Pick List Tributary gradient (approximate average slope): %
	(c)	Flow: Tributary provides for: Pick List Estimate average number of flow events in review area/year: Pick List Describe flow regime: Other information on duration and volume:
		Surface flow is: Pick List. Characteristics:
		Subsurface flow: Pick List. 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 the presence of litter and debris changes in the character of soil destruction of terrestrial vegetation shelving the presence of wrack line vegetation matted down, bent, or absent sediment sorting leaf litter disturbed or washed away scour sediment deposition multiple observed or predicted flow events water staining abrupt change in plant community other (list): Discontinuous OHWM. Explain:
apply):		If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that
		 ☐ High Tide Line indicated by: ☐ oil or scum line along shore objects ☐ survey to available datum; ☐ fine shell or debris deposits (foreshore) ☐ physical markings; ☐ physical markings/characteristics ☐ vegetation lines/changes in vegetation types. ☐ tidal gauges ☐ other (list):
	(iii) Ch	emical Characteristics:

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.

		С	aracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed haracteristics, etc.). Explain: ntify specific pollutants, if known:
	(iv)		logical Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): Wetland fringe. Characteristics: Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings:
2.	Cha	aract	teristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)		Assical Characteristics: General Wetland Characteristics: Properties: Wetland size: 14.5 acres Wetland type. Explain: Both wetland A and B are wet meadows with a small area of shrub/scrub wetland in Wetland B. Wetland quality. Explain: Wetland quality within the site is generally low since the area is continuously maintained through mowing and weed control for safety concerns. Project wetlands cross or serve as state boundaries. Explain: No
		(b)	General Flow Relationship with Non-TNW: Flow is: No Flow . Explain: No surface flow could be identified during the Corps site visit and delineation prepared by Biowest. The site has been designed to contain all petroleum in the event of tank leakage including a catstrophic event of all 13 above ground tanks failing.
			Surface flow is: Not present Characteristics:
			Subsurface flow: Unknown. Explain findings: Groundwater levels for the area are at least 4 feet below the lowest wetland point which is the horseshoe shaped depression located 350 feet west from the Oil Drain Canal in Wetland B. In Wetland A groundwater levels are at least 6.5 feet from the surface. These wetlands are mainly precipitation driven with a semi-impermeable layer of clay-silt that was identified through each of the wetland test pits and on the NRCS soils mapping (Chipman silty clay loam). Due to the poorly drained soils and deep groundwater table there is no significant subsurface flows between the wetlands and nearest RPW's. 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: Wetland A is seperated approximately approximately 100 feet from the Jordan River by a perimeter berm, perimeter elevated road and flood berm of 6 feet tall. Wetland B is seperated approximately 70 feet from the Oil Drain Canal by a perimeter berm, permiter elevated road and 4 foot high canal berm.
		(d)	Proximity (Relationship) to TNW Project wetlands are 5-10 river miles from TNW. Project waters are 5-10 aerial (straight) miles from TNW. Flow is from: No Flow. Estimate approximate location of wetland as within the 100 - 500-year floodplain.
	(ii)	Cha c R	emical Characteristics: aracterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed haracteristics; etc.). Explain: During the site visit Wetland A and B were completely dry. The Jordan Liver watershed water quality is listed as impaired mainly for non point source pollution ntify specific pollutants, if known: unknown
	(iii)	Bio	logical Characteristics. Wetland supports (check all that apply): Riparian buffer. Characteristics (type, average width):

		cover. Explain: Distich	ilis spicata 30%, Elaeagnus an	igustifolia 5%, Phragmi	tes
	australis 40%				
		sion Explain findings:			
	☐ Fish/spawn areas. E				
		ly-sensitive species. E	volain findings:		
	☐ Aquatic/wildlife diver		Apiani mangs.		
		ony. Explain illianigo.			
3.	Characteristics of all wetlands All wetland(s) being consider Approximately acres in	red in the cumulative a	, <u>, , , , , , , , , , , , , , , , , , </u>		
	For each wetland, specify the	e following:			
	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:

- 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: There is an absence of a significant nexus due to the lack of a physical, chemical or biological connection with the nearest RPW's. There is an impercetible subsurface groundwater connection due to the depth of groundwater (4.5 to 6 feet) and the proorly draining clay soils throughout the profile. This imperceptible connection does not constitute a significant nexus. Wetlands within the site are low functioning due to the proximity to the tank farm and continual maintenance for safety reasons. Non point source pollution from the facility would be minimal since each tank has berms surrounding them to prevent

leakage outside of the facility. These wetlands provide little habitat to the occasional birds and small mammals due to the continual maintenance/mowing for safety issues.

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. wide. 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: Provide estimates for jurisdictional waters in the review area (check all that apply): ☐ Tributary waters: linear feet wide. Other non-wetland waters: acres. Identify type(s) of waters: 3. Non-RPWs⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C. Provide estimates for jurisdictional waters within the review area (check all that apply): ☐ Tributary waters: linear feet. wide. ☐ Other non-wetland waters: acres. Identify type(s) of waters: 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: 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. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

7. Impoundments of jurisdictional waters.9

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

☐ Demonstrate that impoundment was created from "waters of the U.S.," or

Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area:

Demonstrate that water meets the criteria for one of the categories presented above (1-6), or

☐ 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.

acres.

Demonstrate that water is isolated with a nexus to commerce (see E below).

⁸See Footnote # 3.

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

	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:
	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, wide. 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: There is an absence of a significant nexus due to the lack of a physical, chemical or biological connection with the nearest RPW's. There is an impercetible subsurface groundwater connection due to the depth of groundwater (4.5 to 6 feet) and the proorly draining clay soils throughout the profile. This imperceptible connection does not constitute a significant nexus. Wetlands within the site are low functioning due to the proximity to the tank farm and continual maintenance for safety reasons. Non point source pollution from the facility would be minimal since each tank has berms surrounding them to prevent leakage outside of the facility. These wetlands provide little habitat to the occasional birds and small mammals due to the continual maintenance/mowing for safety issues.
	Other: (explain, if not covered above):
<u>SE</u> :	 □ 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, wide. □ 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, wide. □ Lakes/ponds: acres. □ Other non-wetland waters: acres. List type of aquatic resource:

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.*

\boxtimes	U.S. Geological Survey Hydrologic Atlas:
	USGS NHD data.
	☐ USGS 8 and 12 digit HUC maps.
\boxtimes	U.S. Geological Survey map(s). Cite scale & quad name: 1:24K; UT-SALT LAKE CITY NORTH
Ħ	USDA Natural Resources Conservation Service Soil Survey. Citation:
Ħ	National wetlands inventory map(s). Cite name:
Ħ	State/Local wetland inventory map(s):
Ħ	FEMA/FIRM maps:
Ħ	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
\forall	Photographs: Aerial (Name & Date): Google Earth
	or Other (Name & Date):
_	· · · · · · · · · · · · · · · · · · ·
Ш	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:

The Tesoro Tank Farm site has a total of 22.1 acres of palustrine emergent wetland within the 81.7 acre site. Wetlands A-6.7 acres and B-7.8 acres analyzed under this form have no significant nexus with the nearest TNW. Wetland C and D are considered isolated and were analyzed under a separate JD form.

The Tesoro Tank Farm facility has been designed to contain any tank leaks in the event of any emergency. This includes an emergency event where all 13 above ground petroleum storage tanks would fail. The 81.7 acres are surrounded by a low lying berm and a raised road that prevents water from leaving the site. There are no culverts or surface hydrologic connections to the nearest RPW's, which are the Jordan River to the west and the Oil Drain Canal to the east. There is a 100 foot section between the Jordan River and the nearest wetland "A" that is comprised of a low lying berm, raised road and flood control berm approximately 6 feet tall. Wetland "B" is adjacent to the Oil Drain Canal approximately 70 feet east and is seperated by a low lying berm, raised road and canal berm of approximately 4 feet tall. The nearest groundwater elevation below Wetlands A and B is 4.5 feet below the surface. Wetland soils for the area are classified as Chipman clay silty loam which are very poorly draining. This soil classification is consitent with the wetland test pits dug onsite. The deep clay soils create an almost impermeable layer throughout the profile, especially near the surface. Between the deep groundwater table and poorly drainaing soils there is an impercetible subsurface groundwater connection between these wetlands and RPW's. Therefore the Corps has determined that Wetland A (6.7 acres) and B (7.8 acres) are non-jurisdictional, due to the lack of significant nexus between these wetlands and the nearest traditional navigable water of the U.S., the Great Salt Lake approximately 9 miles to the northwest.

Tesoro Tank Farm does conduct interstate commerce and the wetland areas could be impacted for future production expansions; however, currently the Wetland A 6.7-acres and B-7.8-acres are not directly associated with the production of petroleum products. Therefore, the degradation of these aquatic resources would have no affect on interstate commerce.

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): August 5, 2015

·
ake City g111.931060974178° Great Salt Lake upon request. this action and are recorded
as defined by 33 CFR part to transport interstate or foreign
FR part 328) in the review area.
nto TNWs

c. Limits (boundaries) of jurisdiction based on: Pick List

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: A total of 4 separate wetland areas comprising 22.1 acres are located within the 81.7 acre parcel. Two of the four wetland areas are considered isolated and non jurisdictional. Wetland C (3.7)

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.

acres) and Wetland D (3.9 acres) are not hydrologically connected with the Jordan River to the west ranging between 500 and 700 linear feet.

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: Pick List
Drainage area: Pick List
Average annual rainfall: inches
Average annual snowfall: inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.

Project waters are **Pick List** river miles from RPW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Project waters are **Pick List** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

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 : Tributary stream order, if known:
	(b)	General Tributary Characteristics (check all that apply): Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain:
		Tributary properties with respect to top of bank (estimate): Average width: feet Average depth: feet Average side slopes: Pick List.
		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: Presence of run/riffle/pool complexes. Explain: Tributary geometry: Pick List Tributary gradient (approximate average slope):
	(c)	Flow: Tributary provides for: Pick List Estimate average number of flow events in review area/year: Pick List Describe flow regime: Other information on duration and volume:
		Surface flow is: Pick List. Characteristics:
		Subsurface flow: Pick List. 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 the presence of litter and debris destruction of terrestrial vegetation shelving the presence of wrack line vegetation matted down, bent, or absent sediment sorting leaf litter disturbed or washed away scour sediment deposition multiple observed or predicted flow events water staining abrupt change in plant community other (list): Discontinuous OHWM. Explain:
apply):		If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that
∾kkıî).		 ☐ High Tide Line indicated by: ☐ oil or scum line along shore objects ☐ survey to available datum; ☐ fine shell or debris deposits (foreshore) ☐ physical markings; ☐ physical markings/characteristics ☐ vegetation lines/changes in vegetation types. ☐ idal gauges ☐ other (list):
	(iii) Che	emical Characteristics:

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.

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Identify specific pollutants, if known: (iv) Biological Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): ☐ Wetland fringe. Characteristics: ☐ Habitat for: ☐ Federally Listed species. Explain findings: ☐ Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: ☐ Aquatic/wildlife diversity. Explain findings: 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW **Physical Characteristics:** (a) General Wetland Characteristics: Properties: Wetland size: Wetland type. Explain: Wetland quality. Explain: Project wetlands cross or serve as state boundaries. Explain: (b) General Flow Relationship with Non-TNW: Flow is: Pick List. Explain: Surface flow is: Pick List Characteristics: Subsurface flow: Pick List. 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 Pick List river miles from TNW. Project waters are **Pick List** aerial (straight) miles from TNW. Flow is from: Pick List. Estimate approximate location of wetland as within the **Pick List** floodplain. (ii) Chemical Characteristics: Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Identify specific pollutants, if known: (iii) Biological Characteristics. Wetland supports (check all that apply): ☐ Riparian buffer. Characteristics (type, average width): ☐ Vegetation type/percent cover. Explain: ☐ Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings: 3. Characteristics of all wetlands adjacent to the tributary (if any) All wetland(s) being considered in the cumulative analysis: Pick List Approximately acres in total are being considered in the cumulative analysis. For each wetland, specify the following: 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:

- 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):

١.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: TNWs: linear feet, wide, 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:
	Provide estimates for jurisdictional waters in the review area (check all that apply):
	☐ 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, wide. 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: 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).
WA	PLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH TERS (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, wide. Other non-wetland waters: acres. Identify type(s) of waters: Wetlands: acres.

E.

⁸See Footnote # 3.
⁹To 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.

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, wide.
	Lakes/ponds: acres.
	Other non-wetland waters: acres. List type of aquatic resource:
	Wetlands: 7.6 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, wide.
	Lakes/ponds: acres.
	☐ Other non-wetland waters: acres. List type of aquatic resource: ☐ Wetlands: acres.
	∐ Wetlands: acres.
SF	CTION IV: DATA SOURCES.
<u>or.</u>	CHOKIV. DATA GOURGES.
Α.	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.
	⊠ USGS 8 and 12 digit HUC maps.
	U.S. Geological Survey map(s). Cite scale & quad name: 1:24K; UT-SALT LAKE CITY NORTH
	USDA Natural Resources Conservation Service Soil Survey. Citation:
	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): Google Earth
	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:

There is a total of 22.1 acres of wetlands within the 81.7 acre Tesoro Tank Farm. Wetlands C and D total 7.6 acres and are considered isolated with no connection to the Jordan River, the nearest RPW. This facility has been designed to contain any tank leaks in the event of any emergency. This includes an emergency event where all 13 above ground petroleum storage tanks would fail. The 81.7 acres are surrounded by a low lying berm and a raised road that prevents water from leaving the site. There are no culverts or hydrologic connection to the Jordan River. There is a 500 foot section between the Jordan River and the nearest wetland "C" that is comprised of a low lying berm, raised road and 6 foot tall flood control berm. Wetland "D" is approximately 700 feet east of the Jordan River and is also seperated from the river by a low lying berm, raised road and canal berm of approximately 6 feet tall. No physical, chemical or biological connections could be identified between the study site and the Jordan River the nearest RPW that flows into the nearest TNW, the Great Salt Lake approximately 9 miles to the northwest. Wetlands A and B will be evaluated on a different form under the significant nexus test.

Tesoro Tank Farm does conduct interstate commerce and the wetland areas could be impacted for future production expansions; however, currently Wetland C (3.7 acres) and D (3.9 acres) are not directly associated with the production

of petroleum products. Therefore, the degradation of these aquatic resources would have no affect on interstate commerce. Additionally, there are no other commercial endeavors being conducted on the surface waters of these watersheds.