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): 22 Oct 2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Sacramento District, Jordanelle Parkridge, 2008-1057

| ъ. | DISTRICT OFFICE, FIED WAVE, AND WONDER. SACTAMENTO DISTRICT, SOCIALICAE TATATAGE, 2000-1037 |
|-----|--|
| C. | PROJECT LOCATION AND BACKGROUND INFORMATION: State:Utah County/parish/borough: Summit City: Center coordinates of site (lat/long in degree decimal format): Lat. 40.6671972° N, Long. 111.4551873° W. |
| D. | REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): ☐ Office (Desk) Determination. Date: ☐ Field Determination. Date(s): 14 Aug 2008 |
| | CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION. |
| | Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the lew area. [Required] Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: |
| B. | CWA SECTION 404 DETERMINATION OF JURISDICTION. |
| The | ere Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required] |
| | 1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent 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: width (ft) and/or acres. Wetlands: 0.66 acres. |
| | c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):6754 ft msl. |
| | 2. Non-regulated waters/wetlands (check if applicable): ³ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional Explain: |

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

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

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 waterbody is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

(i) General Area Conditions: Watershed size: Pick List Drainage area: Pick List Average annual rainfall: inches Average annual snowfall: inches

(ii) P (a

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

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.

| | (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 changes in the character of soil destruction of terrestrial vegetation the presence of wrack line shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away sediment deposition destruction of terrestrial vegetation the presence of wrack line sediment sorting sediment sorting scour multiple observed or predicted flow events abrupt change in plant community other (list): |
| | | 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) | Cha | emical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.) Explain: .tify specific pollutants, if known: |
| (iv) | Biol | ogical Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): Wetland fringe. 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.

| | | | Habitat for: Federally Listed species Fish/spawn areas. Expla Other environmentally Aquatic/wildlife diversi | ain findings: . sensitive species. Explain t | indings: . | |
|----|-------|-------|---|---|------------------------------------|-------------------------|
| 2. | Cha | aract | eristics of wetlands adjace | nt to non-TNW that flow o | lirectly or indirectly into TNW | |
| | (i) | | Fisical Characteristics: General Wetland Character Properties: Wetland size: acre Wetland type. Explain Wetland quality. Expla Project wetlands cross or se | es : . in: . | plain: . | |
| | | (b) | General Flow Relationship Flow is: Pick List . Explain | | | |
| | | | Surface flow is: Pick List Characteristics: | | | |
| | | | Subsurface flow: Pick List Dye (or other) test p | | | |
| | | (c) | Wetland Adjacency Determ Directly abutting Not directly abutting Discrete wetland hy Ecological connect Separated by berma | ydrologic connection. Expl ion. Explain: . | ain: . | |
| | | (d) | Proximity (Relationship) to Project wetlands are Pick I Project waters are Pick Li Flow is from: Pick List. Estimate approximate local | List river miles from TNW. st aerial (straight) miles fro | | |
| | (ii) | Cha | emical Characteristics: racterize wetland system (e. characteristics; etc.). Explantify specific pollutants, if kn | nin: . | vn, oil film on surface; water qua | lity; general watershed |
| | (iii) | Biol | Riparian buffer. Character Vegetation type/percent co Habitat for: Federally Listed species Fish/spawn areas. Expla Other environmentally- Aquatic/wildlife diversi | istics (type, average width): ver. Explain: s. Explain findings: ain findings: sensitive species. Explain f | | |
| 3. | Cha | All | eristics of all wetlands adja wetland(s) being considered proximately () acres i | in the cumulative analysis: | | |
| | | For | each wetland, specify the fo | llowing: | | |
| | | | 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

2.

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):

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. | |
|---|------|
| RPWs that flow directly or indirectly into TNWs. Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating tributary is perennial: The wetland, discussed in III.D.4 below, abuts Silver Creek which is perennial. The creek flows round and the creek's perennial nature is based on hydrologic data and field observation, as well as verified by EPA-contractors and UDOT contractors working in the area. Additionally the size of the tributary channel and its apparent, constant flow volumes indicate that Silver Creek would be a 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 f seasonally: | yeaı |
| 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: . | |

| 3. | Non-RPWs ⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C. |
|-----|---|
| | Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: . |
| 4. | Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: The large wetland swale directly abuts Silver Creek, which is confluent with the Weber River which directly discharges into the Great Salt Lake, a traditional navigable water —navigable-in-fact water Because there is a direct surface connection of the tributary system and its abutting wetland to a regulated TNW-NIF system, there is an indirect connection to a regulated tributary system. |
| | 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. | 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 | DLATED [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. | NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR). Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: Other: (explain, if not covered above): |
| | Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: acres. |
| | Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: acres. |
| SEC | CTION IV: DATA SOURCES. |
| A. (| 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:Rocky Mountain Environmental. 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 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 NHD data. USGS Office does not concur with data sheets/delineation report. U.S. Geological Survey map(s). Cite scale & quad name:Park City East. USDA Natural Resources Conservation Service Soil Survey. Citation: National wetlands inventory map(s). Cite name: State/Local wetland 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): |

B. ADDITIONAL COMMENTS TO SUPPORT JD: The long wetland swale is contiguous flows past Richardson Flats, a superfund site. As this wetland swale flows into the project area, it is mostly routed around excavation areas into a perennial channel the is confluent with Silver Creek. The Corps considers this wetland swale directly abutting Silver Creek. The wetland, which is discussed in III.D.4 above, abuts Silver Creek which is a perennial tributary. The creek flows year round and the creek's perennial nature is based on hydrologic data and field observation, as well as verified by EPA-contractors and UDOT contractors working in the area. Additionally the size of the tributary channel and its apparent, constant flow volumes indicate that Silver Creek would be a perennial. The large wetland swale directly abuts Silver Creek, which is confluent with the Weber River which directly discharges into the Great Salt Lake, a traditional navigable water —navigable-in-fact water Because there is a direct surface connection of the tributary system and its abutting wetland to a regulated TNW-NIF system, there is an indirect connection to a regulated tributary system

APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 22 Oct 2008

| В. | DISTRICT OFFICE, FILE NAME, AND NUMBER: Sacramento District, Jordanelle Parkridge, 2008-1057 |
|------|---|
| C. | PROJECT LOCATION AND BACKGROUND INFORMATION: State:Utah County/parish/borough: Washatch City: Center coordinates of site (lat/long in degree decimal format): Lat. 40.654261° N, Long. 111.4428162° W. Universal Transverse Mercator: Name of nearest waterbody: Jordanelle Reservoir |
| | Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Utah Lake Name of watershed or Hydrologic Unit Code (HUC): 16020203 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): 14 Aug 2008 |
| | CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION. |
| revi | 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: |
| B. | CWA SECTION 404 DETERMINATION OF JURISDICTION. |
| The | re 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): 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: width (ft) and/or acres. Wetlands: acres. |
| | 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: The waters are located in a tributary canyon that slopes toward the Jordanelle Reservoir, an impoundment of the Provo River which flows into Utah Lake, a TNW-NIF water. These waters in the JD report are located at the upper end (higher elevation) of the tributary canyon, over a mile from the reservoir. One (perhaps two) small springs are evident, however they do not discharge enough water to flow down-slope to the reservoir. The spring(s) influence does not affect the plant community more than 50 yards or so down-slope. There is one small pond and another abandoned one down-slope from the existing pond. These were artificially created, likely as a livestock watering pond. There is not enough drainage to fill these ponds, thus it is likely that a spring provides the water to keep the small,

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.

existing pond with permanent water. The pond appears to be excavated with the excavated material used to build a dam on the down-slope side of the pond. The down-slope pond appears to have been a bit larger and no longer contains water, although a hydrophytic community exists. This pond's down-slope dam was breached and appears older than the existing pond. It is likely that seepage from the existing dam causes there to be a hydrophytic community down-slope to include the breeched dam. About 25 yards or so downstream from the breeched dam, the vegetative community is FACU to UPL and continues on down-slope to the reservoir. A couple hundred yards down-slope from the project area, oak trees are growing in the canyon swale. There is another small seep adjacent to a trail that parallels the canyon down-slope towards the reservoir, but the road does not appear to go beyond a quarter mile down-slope. This seep water barely flows down-slope more than 5 yards (in August) and 30 yards or so in the spring. Its hydrologic influence rapidly disappears as the narrow hydrophytic community transitions to an FACU-FAC dominated community. The canyon swale does not have a defined bed and bank. It appears these identified waters are upslope seeps that are not part of the tributary system of the Provo River's impoundment that creates Jordanelle Reservoir.

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 waterbody 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

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

| (ii) | | sical Characteristics: 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: |
| | | |
| | | 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 changes in the character of soil destruction of terrestrial vegetation the presence of wrack line sediment sorting sediment deposition multiple observed or predicted flow events water staining abrupt change in plant community other (list): |
| | | ☐ Discontinuous OHWM. Explain: |
| | | If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): |

in factors other than the OHWW were used to determine fateral extent of CWA jurisdiction (check an that apply)

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.

| | | | High Tide Line indicated by: oil or scum line along shore objects fine shell or debris deposits (foreshore) physical markings/characteristics physical markings/characteristics tidal gauges other (list): Mean High Water Mark indicated by: physical mark indicated by: physical markings; physical markings; vegetation lines/changes in vegetation types. |
|----|------------|------|--|
| | (iii) | Cha | emical Characteristics: racterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.) Explain: .tify specific pollutants, if known: |
| | (iv) | Biol | 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 (i) | Phy | ristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW risical Characteristics: General Wetland Characteristics: Properties: Wetland size: acres 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) | Cha | emical Characteristics: racterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: https://example.com/racteristics/racteris |
| | (iii) | Biol | logical 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: |
| | <u>Directly abuts? (Y/N)</u> <u>Size (in acres)</u> <u>Directly abuts? (Y/N)</u> <u>Size (in acres)</u> |
| | Summarize overall biological, chemical and physical functions being performed: . |
| SIC | GNIFICANT NEXUS DETERMINATION |
| by sof a wet Corof v wet trik | ignificant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent tlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Insiderations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent tlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a putary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or side of a floodplain is not solely determinative of significant nexus. |
| | aw connections between the features documented and the effects on the TNW, as identified in the Rapanos Guidance and |
| | 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 tha 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? |
| | te: the above list of considerations is not inclusive and other functions observed or known to occur should be documented ow: |
| 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: |
| | TERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL AT 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 |

C.

D.

seasonally:

| | 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: . |
|--------|---|
| 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: |
| | 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. | 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). |
| DE/SUC | DLATED [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: Other factors. Explain: |
| | |

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.

| | 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:As described in II.B.2 (above), seeps that provide hydrology for a hydrophytic community and have created hydric soils are evident in a small, confined area at the upper end of a canyon swale. The hydrologic influence of these minor seeps is limited. The canyon swale does not have bed and bank characteristics and is dominated by a FACU — UPL community down-slope. ☐ Other: (explain, if not covered above): |
| | Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: acres. |
| | Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft). Lakes/ponds: 0.05 acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: 0.11 acres. |
| | SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below): Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Rocky Mountain Environmental. 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: Park City East. 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): unknown, provided in delineation report. 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: The waters are located in a tributary canyon that slopes toward the Jordanelle Reservoir, an impoundment of the Provo River which flows into Utah Lake, a TNW-NIF water. These waters in the JD report are located at the upper end (higher elevation) of the tributary canyon, over a mile from the reservoir. One (perhaps two) small springs are evident, however they do not discharge enough water to flow down-slope to the reservoir. The spring(s) influence does not affect the plant community more than 50 yards or so down-slope. There is one small pond and another abandoned one down-slope from the existing pond.

These were artificially created, likely as a livestock watering pond. There is not enough drainage to fill these ponds, thus it is likely that a spring provides the water to keep the small, existing pond with permanent water. The pond appears to be excavated with the excavated material used to build a dam on the down-slope side of the pond. The down-slope pond appears to have been a bit larger and no longer contains water, although a hydrophytic community exists. This pond's down-slope dam was breached and appears older than the existing pond. It is likely that seepage from the existing dam causes there to be a hydrophytic community down-slope to include the breeched dam. About 25 yards or so downstream from the breeched dam, the vegetative community is FACU to UPL and continues on down-slope to the reservoir. A couple hundred yards down-slope from the project area, oak trees are growing in the canyon swale. There is another small seep adjacent to a trail that parallels the canyon down-slope towards the reservoir, but the road does not appear to go beyond a quarter mile down-slope. This seep water barely flows down-slope more than 5 yards (in August) and 30 yards or so in the spring. Its hydrologic influence rapidly disappears as the narrow hydrophytic community transitions to an FACU-FAC dominated community. The canyon swale does not have a defined bed and bank. It appears these identified waters are upslope seeps that are not part of the tributary system of the Provo River's impoundment that creates Jordanelle Reservoir.

US 40 **HWY 248** Richardson SITE

Sections 12 & 13, Township 2 S, Range 4 E

NORTH

SCALE: 1" = 1/2 mi.



LONE GOOSE ENVIRONMENTAL, LLC

FIGURE 1 - Site Location

Topozone

Corps Number: 200801057

Keetley Junction

FIGURE 2 - Site Location/Aerial Photograph

HWY 248

Landhill Road

US 40

Richardson Flat wetlands

Isolated wetlands at upper canon

SITE

NORTH

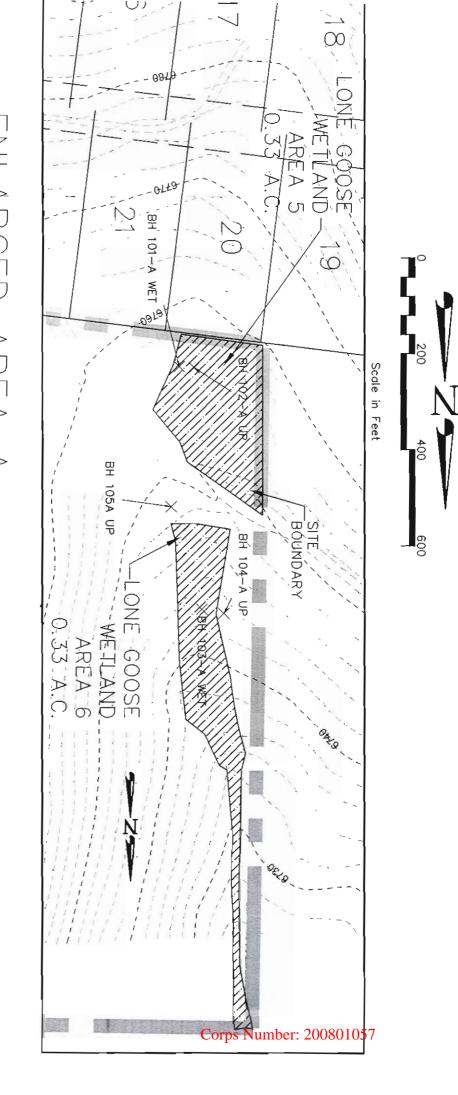
SCALE: None



LONE GOOSE ENVIRONMENTAL, LLC

Corns Number: 200801057

Jordanelle Reservoir



ENLARGED AREA A
Scale: 1"=100'

