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

#### SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): July19, 2012.

#### B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Sacramento District, Kennecott Tailings Expansion, SPK-2009-01213-UO.

Name of water being evaluated on this JD form: <u>Clarification Canal and Clarification Canal Wetlands; Toe Ditch and Toe Ditch</u> Wetlands; Historic Toe Ditch Wetlands (Jones Spring Area)

#### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: UT County: Salt Lake City: Magna

Center coordinates of site (lat/long in degree decimal format): Lat: 40.7189 N, Long: 112.0874 W

Universal Transverse Mercator: .

Name of nearest waterbody: Great Salt Lake.

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A.

Name of watershed or Hydrologic Unit Code (HUC): 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. List other JDs: SPK-2009-01213 JD1, JD2, JD3, Playa Area/Jones Spring, Adamson Spring,

#### D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: June 14, 2012.

Field Determination. Date(s): <u>September 6, 2011, November 22, 2010</u>.

### SECTION II: SUMMARY OF FINDINGS

### A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "*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): <sup>1</sup>
  - TNWs, including territorial seas
  - Wetlands adjacent to TNWs
  - Relatively permanent waters<sup>2</sup> (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** and **Pick List** Elevation of established OHWM (if known): \_\_\_\_\_.
- 2. <u>Non-regulated waters/wetlands (check if applicable)</u>:<sup>3</sup>
  - Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: <u>The Historic Toe Ditch Wetlands near Jones Spring, the Toe Ditch and the Clarification Canal are part of Kennecott Utah Copper's (KUC) industrial process water system. A system of drains and channels that are pumped</u>

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> 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"

<sup>(</sup>e.g., typically 3 months).

<sup>&</sup>lt;sup>3</sup> Supporting documentation is presented in Section III.F.

Version 2-8-08 Isolated & Non-Waters Only

uphill to the Copperton Concentrator, approximately 9 miles to the south. The industrial process water system is used to process ore and to transport tailings, the waste product of mineral extraction, to the decant pond located on top of the North Tailing Impoundment. From the decant pond, the water either evaporates, is pumped to the clarification canal, returns to the toe drain, or is pumped from the decant pond to Outfall 012 which discharges to the Great Salt Lake, the closest TNW. Although the Historic Toe Ditch Wetlands near Jones Spring, the Clarification Canal and the Toe Ditch, along with the wetland associated with them, potentially drain to the Great Salt Lake the Toe Ditch and Clarification Canal were constructed as part of a permitted discharge (SPK-1994-50301) to construct the North Impoundment in 1996 or were constructed as part of the historic tailings impoundment prior to the Clean Water Act. The wetlands associated with the Toe Ditch and Clarification Canal and historic Toe Ditch receive hydrology only through rainfall and from the industrial process water system. These aquatic features are all at a higher elevation (approx. 30-50'higher) than any surrounding jurisdictional waters or any natural water source. If the tailings operation ceased, these aquatic features would lose their artificial hydrology and would revert to being uplands. Therefore, the normal circumstances of these areas are upland and not jurisdictional waters

#### SECTION III: CWA ANALYSIS

- A. TNWs AND WETLANDS ADJACENT TO TNWs: NOT APPLICABLE
- B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS: NOT APPLICABLE
- C. SIGNIFICANT NEXUS DETERMINATION: NOT APPLICABLE
- **D.** DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE: NOT APPLICABLE
- **E.** ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY <u>SU</u>CH WATERS (CHECK ALL THAT APPLY):<sup>4</sup>
  - which are or could be used by interstate or foreign travelers for recreational or other purposes.
  - from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
  - which are or could be used for industrial purposes by industries in interstate commerce.
  - Interstate isolated waters. Explain: \_\_\_\_\_.
  - Other factors. Explain: \_\_\_\_\_.

Identify water body and summarize rationale supporting determination:

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

Tributary waters: \_\_\_\_\_ linear feet \_\_\_\_\_ width (ft).

Other non-wetland waters: \_\_\_\_\_ acres.

Identify type(s) of waters: \_\_\_\_.

- Wetlands: \_\_\_\_\_ acres.
- F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:
  - 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 <u>solely</u> on the *"Migratory Bird Rule"* (MBR).

Other: (explain, if not covered above): These are artificial waters that would dry up and revert to uplands if industrial processes and pumping of water ceased.

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.

<sup>&</sup>lt;sup>4</sup> 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 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: \_\_\_\_\_ acre Other non-wetland water Wetlands: \_\_\_\_\_ acres.
  - Lakes/ponds: \_\_\_\_\_\_ acres.

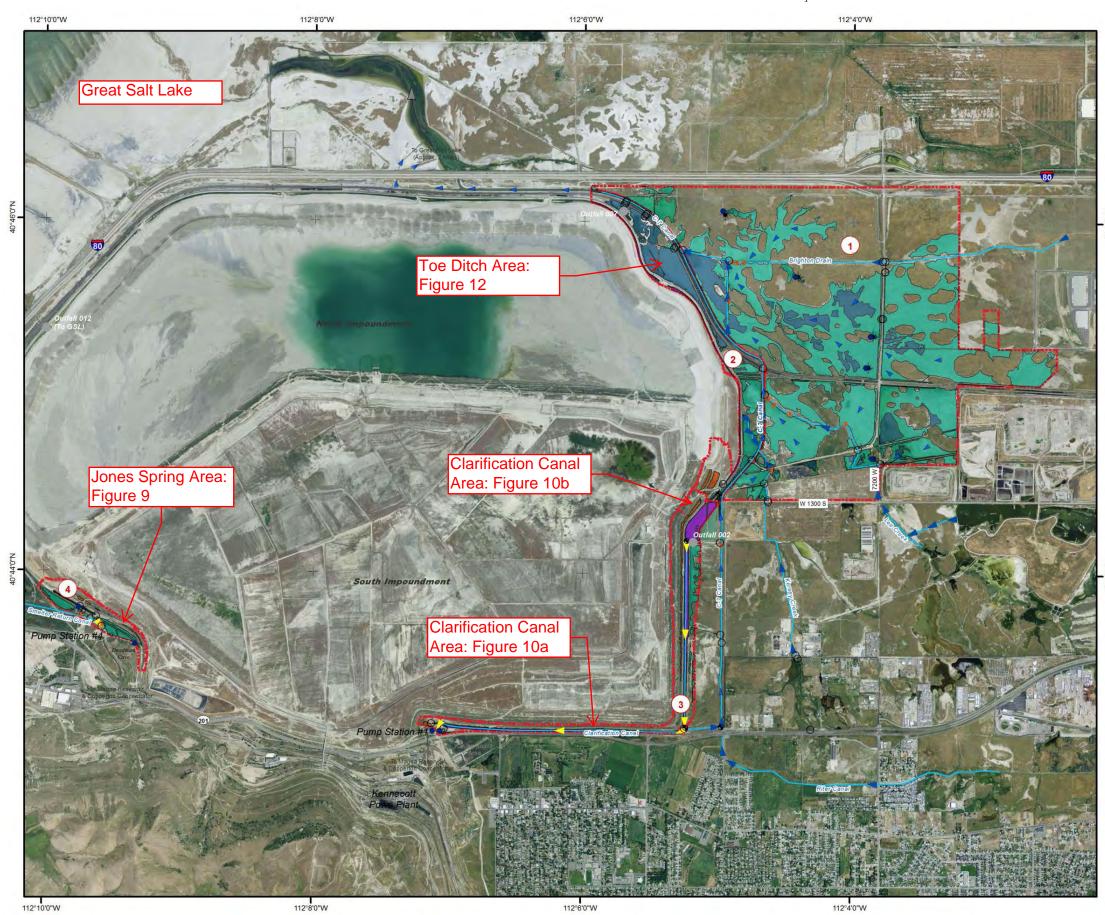
     Other non-wetland waters: \_\_\_\_\_\_ acres.

     List type of aquatic resource: \_\_\_\_\_\_.

#### SECTION IV: DATA SOURCES.

A.		PORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked
		requested, appropriately reference sources below):
	$\bowtie$	Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Wetland Delineation by WP Natural Resources
		sulting, Inc. dated July 2011 and received July 8, 2011.
	$\boxtimes$	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.
	$\boxtimes$	U.S. Geological Survey map(s). Cite scale & quad name: FARNSWORTH PEAK AND MAGNA 7.5-Minute Quadrangles
	$\square$	USDA Natural Resources Conservation Service Soil Survey. Citation: <u>Included in 2011 Supplemental JD</u> .
		National wetlands inventory map(s). Cite name: <u>FWS Wetlands Mapper</u> .
		State/Local wetland inventory map(s):
		FEMA/FIRM maps:
		100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
	$\boxtimes$	Photographs: 🖾 Aerial (Name & Date): Included in 2011 Supplemental JD
		or $\boxtimes$ Other (Name & Date): Included in 2011 Supplemental JD.
		Previous determination(s). File no. and date of response letter:
		Applicable/supporting case law:
		Applicable/supporting scientific literature:
		Other information (please specify):
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#### B. ADDITIONAL COMMENTS TO SUPPORT JD: \_\_\_\_\_.



WP NATURAL RESOURCE CONSULTING, INC.

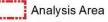
# RioTinto

Kennecott Utah Copper LLC

# 2012 Supplemental Jurisdictional Delineation

Figure 8

## Water Management

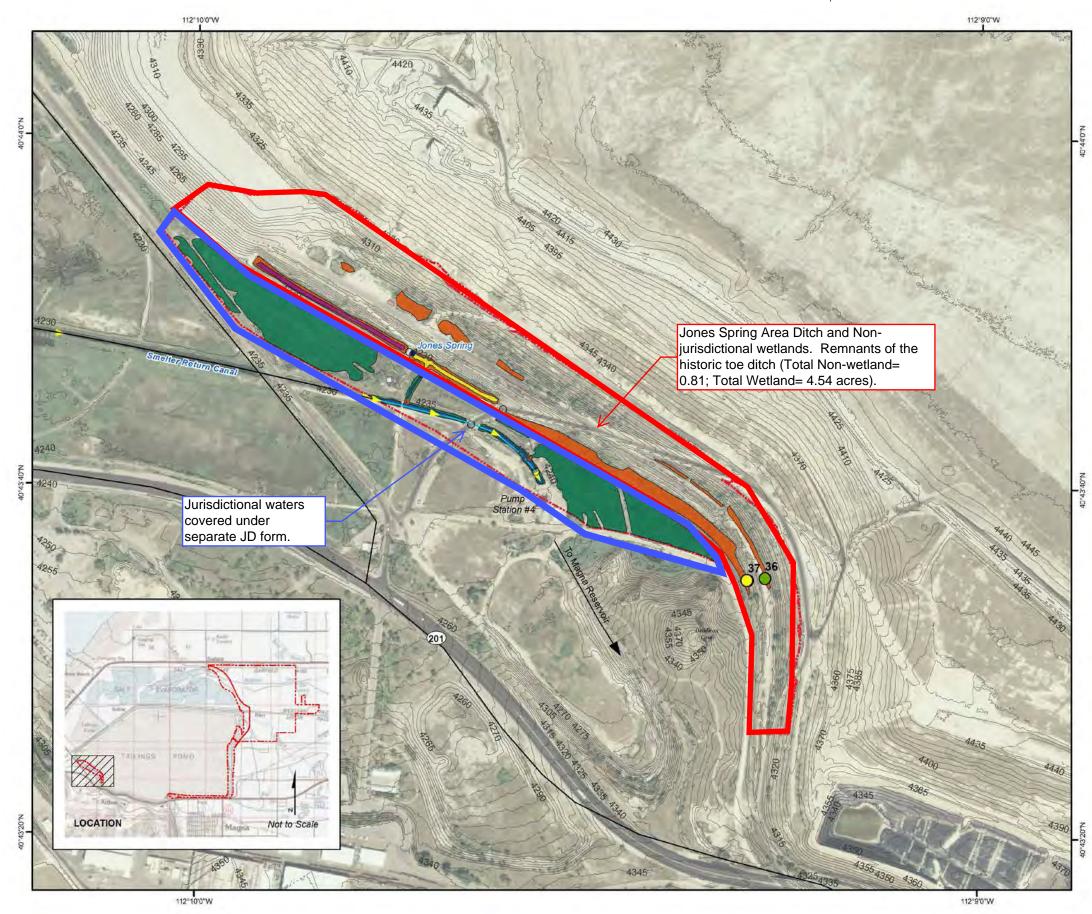


- 1 Playa Analysis Area
- (2) Toe Ditch Road Analysis Area
- 3 Clarification Canal Analysis Area
- (4) Jones Spring Analysis Area
- Outfall
- Spring
- O Culvert
- Breach
- Headgate
- Well Head

5

- Stream/Ditch
- 🔨 Industrial Process Water
- Direction of Flow
  - Jurisdictional Wetland
- Non-Jurisdictional Wetland
- Non Jurisdictional Water
- Waters of the US
- Industrial Process Water

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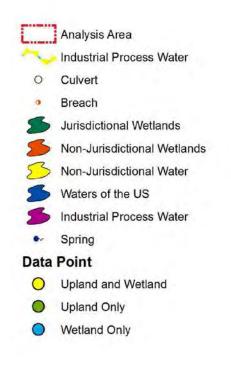
# RioTinto

Kennecott Utah Copper LLC

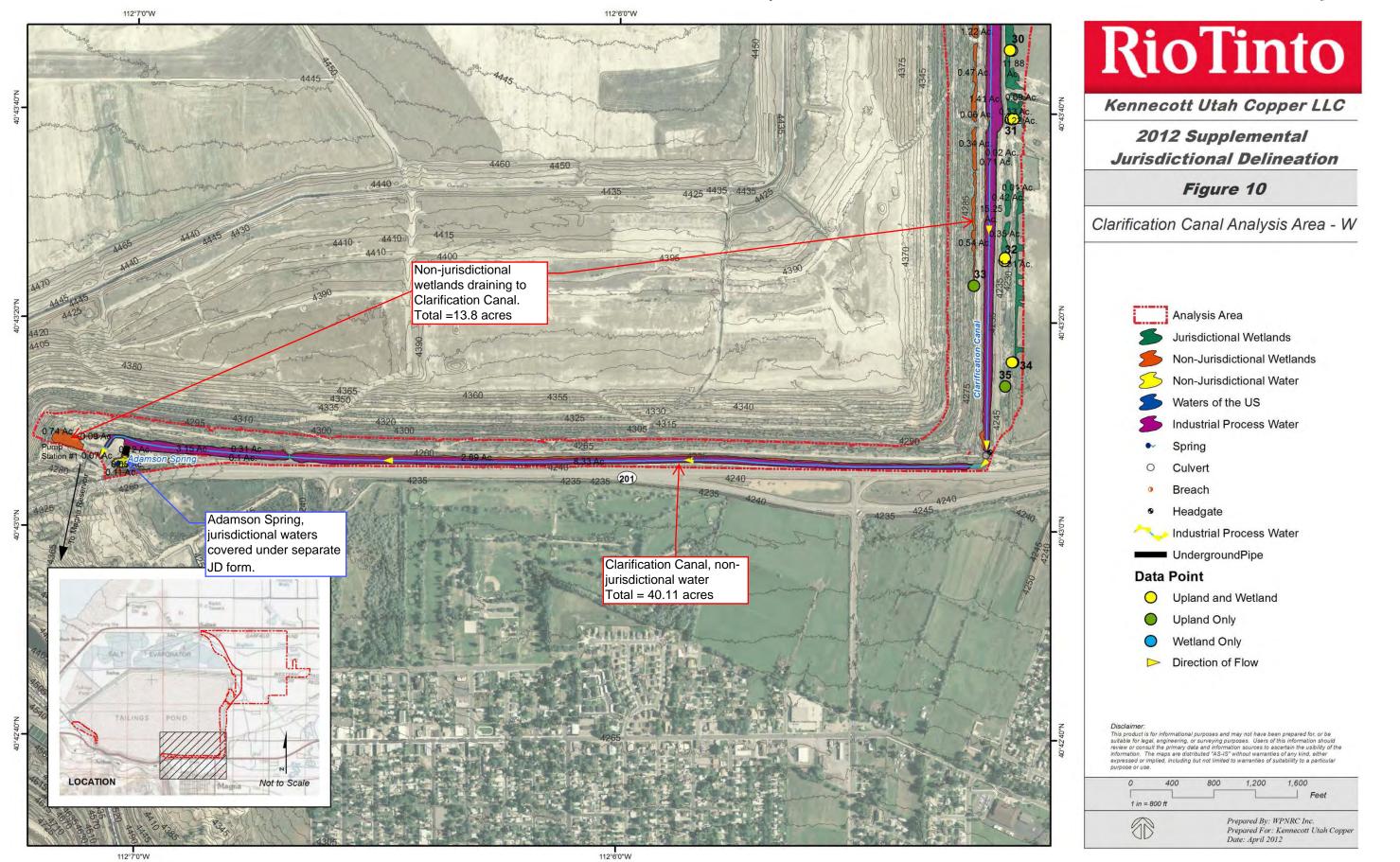
2012 Supplemental Jurisdictional Delineation

Figure 9

Jones Spring Analysis Area



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