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**APPENDIX B**

**APPROVED  
JURISDICTIONAL  
DELINEATION FORMS**

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="173.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: **G**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Natural  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Discontinuous? Explain:
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012)

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="173.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

**2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

**(i) Physical Characteristics:**

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

**(ii) Chemical Characteristics:**

Characterize Wetland System:

**(iii) Biological Characteristics. Wetland supports (check all that apply):**

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

**3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)**

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

**C. SIGNIFICANT NEXUS DETERMINATION**

**1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:**

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012)

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                   |                   |                                  |            |
|--|-----------------------------------|-------------------|----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="1220"/> | linear feet (ft), | <input type="text" value="1.8"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>              | acres             |                                  |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>              | acres             |                                  |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="173.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: **H**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: **Natural** Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: **4:1 (or greater)**

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain: **Stable**

Presence of Run/Riffle/Pool Complexes. Explain: **Not present.**

Tributary Geometry: **Relatively Straight**

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for: **Ephemeral Flow** Average Flow Events per year: **1**

Describe Flow Regime: **Ephemeral** Other Information on Duration and Volume:

Surface Flow is: **Overland Sheetflow** Characteristics:

Subsurface Flow: **No** Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

**2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

**(i) Physical Characteristics:**

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

**(ii) Chemical Characteristics:**

Characterize Wetland System:

**(iii) Biological Characteristics. Wetland supports (check all that apply):**

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

**3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)**

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

**C. SIGNIFICANT NEXUS DETERMINATION**

**1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:**

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012)

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="173.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: **H1**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Natural  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Discontinuous? Explain:
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012)

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: I

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature I

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage I

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID: I

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: Natural Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: 4:1 (or greater)

Primary tributary substrate composition (check all that apply):

Silts Sands Cobbles Bedrock Gravel Vegetation

Concrete Muck Other, Explain:

Tributary Condition/Stability. Explain: Stable

Presence of Run/Riffle/Pool Complexes. Explain: Not present.

Tributary Geometry: Relatively Straight

Tributary Gradient (approximate average slope):

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 1

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Overland Sheetflow Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank
Changes in soil character
Shelving
Sediment deposition
Sediment sorting
Scour
Presence of wrack line
Vegetation matted down, bent or absent
Leaf litter disturbed or washed away
Presence of litter and debris
Destruction of terrestrial vegetation
Abrupt change in plant community
Multiple observed or predicted flow events
Water staining

Other (list):

Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: I

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: I

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  2543 linear feet (ft),  5.0 width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID: I

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name: Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: I1

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: Natural Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: 4:1 (or greater)

Primary tributary substrate composition (check all that apply):

Silts Sands Cobbles Bedrock Gravel Vegetation

Concrete Muck Other, Explain:

Tributary Condition/Stability. Explain: Stable

Presence of Run/Riffle/Pool Complexes. Explain: Not present.

Tributary Geometry: Relatively Straight

Tributary Gradient (approximate average slope):

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 1

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Overland Sheetflow Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank
Vegetation matted down, bent or absent
Changes in soil character
Leaf litter disturbed or washed away
Shelving
Presence of litter and debris
Sediment deposition
Destruction of terrestrial vegetation
Sediment sorting
Abrupt change in plant community
Scour
Multiple observed or predicted flow events
Presence of wrack line
Water staining

Other (list):

Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian Corridor Characteristics:
Wetland Fringe Characteristics:

Habitat for:

- Federally Listed Species Explain:
Fish/Spawn Areas Explain:
Other environmentally -sensitive species Explain:
Aquatic/Wildlife diversity Explain:

Feature ID: I1

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: I1

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE

1. TNWs and Adjacent Wetlands

TNWs: Linear Feet Width (ft), Or, Acres

Wetlands adjacent to TNWs Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters 1230 linear feet (ft), 1.8 width (ft)
Other waters acres
Wetlands acres

Feature ID: I1

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:  
Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Discontinuous? Explain:
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: J

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature J

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage J

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID: J

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: Natural Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: 4:1 (or greater)

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain: Stable

Presence of Run/Riffle/Pool Complexes. Explain: Not present.

Tributary Geometry: Relatively Straight

Tributary Gradient (approximate average slope):

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 1

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Overland Sheetflow Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank
- Changes in soil character
- Shelving
- Sediment deposition
- Sediment sorting
- Scour
- Presence of wrack line
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

Other (list):

Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: J

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: J

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  3447 linear feet (ft),  3.1 width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID: J

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:  
Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Discontinuous? Explain:
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID:

**2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

**(i) Physical Characteristics:**

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

**(ii) Chemical Characteristics:**

Characterize Wetland System:

**(iii) Biological Characteristics. Wetland supports (check all that apply):**

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

**3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)**

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

**C. SIGNIFICANT NEXUS DETERMINATION**

**1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:**

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts    Sands    Cobbles    Bedrock    Gravel    Vegetation  
 Concrete    Muck   Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |
- Other (list):
- Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
- Federally Listed Species Explain:
- Fish/Spawn Areas Explain:
- Other environmentally -sensitive species Explain:
- Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                  |                   |                                  |            |
|--|----------------------------------|-------------------|----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="308"/> | linear feet (ft), | <input type="text" value="2.5"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>             | acres             |                                  |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>             | acres             |                                  |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: L

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature L

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage L

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID: L

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: Natural Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: 4:1 (or greater)

Primary tributary substrate composition (check all that apply):

Silts Sands Cobbles Bedrock Gravel Vegetation

Concrete Muck Other, Explain:

Tributary Condition/Stability. Explain: Stable

Presence of Run/Riffle/Pool Complexes. Explain: Not present.

Tributary Geometry: Relatively Straight

Tributary Gradient (approximate average slope):

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 1

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Overland Sheetflow Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank
Vegetation matted down, bent or absent
Changes in soil character
Leaf litter disturbed or washed away
Shelving
Presence of litter and debris
Sediment deposition
Destruction of terrestrial vegetation
Sediment sorting
Abrupt change in plant community
Scour
Multiple observed or predicted flow events
Presence of wrack line
Water staining

Other (list):

Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: L

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: L

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  1281 linear feet (ft),  4.8 width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID: L

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:  
Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: **L1**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: **Natural** Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: **4:1 (or greater)**

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain: **Stable**

Presence of Run/Riffle/Pool Complexes. Explain: **Not present.**

Tributary Geometry: **Relatively Straight**

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for: **Ephemeral Flow** Average Flow Events per year: **1**

Describe Flow Regime: **Ephemeral** Other Information on Duration and Volume:

Surface Flow is: **Overland Sheetflow** Characteristics:

Subsurface Flow: **No** Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

**2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

**(i) Physical Characteristics:**

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

**(ii) Chemical Characteristics:**

Characterize Wetland System:

**(iii) Biological Characteristics. Wetland supports (check all that apply):**

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

**3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)**

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

**C. SIGNIFICANT NEXUS DETERMINATION**

**1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:**

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: L1

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE

1. TNWs and Adjacent Wetlands

TNWs: Linear Feet Width (ft), Or, Acres

Wetlands adjacent to TNWs Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters 1052 linear feet (ft), 4.7 width (ft)
Other waters acres
Wetlands acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: L2

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature L2

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage L2

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID: L2

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: Natural Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: 4:1 (or greater)

Primary tributary substrate composition (check all that apply):

Silts Sands Cobbles Bedrock Gravel Vegetation

Concrete Muck Other, Explain:

Tributary Condition/Stability. Explain: Stable

Presence of Run/Riffle/Pool Complexes. Explain: Not present.

Tributary Geometry: Relatively Straight

Tributary Gradient (approximate average slope):

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 1

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Overland Sheetflow Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

Bed and Banks

OHWL: OHWL Indicators:

- Clear, natural line impressed on the bank
Vegetation matted down, bent or absent
Changes in soil character
Leaf litter disturbed or washed away
Shelving
Presence of litter and debris
Sediment deposition
Destruction of terrestrial vegetation
Sediment sorting
Abrupt change in plant community
Scour
Multiple observed or predicted flow events
Presence of wrack line
Water staining

Other (list):

Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: L2

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: L2a

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

<input checked="" type="checkbox"/> Non-wetland waters	<input type="text" value="1395"/>	linear feet (ft),	<input type="text" value="2.8"/>	width (ft)
<input type="checkbox"/> Other waters	<input type="text"/>	acres		
<input type="checkbox"/> Wetlands	<input type="text"/>	acres		

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: **L3**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Natural  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: L3

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

<input checked="" type="checkbox"/> Non-wetland waters	<input type="text"/> 978	linear feet (ft),	<input type="text"/> 3.2	width (ft)
<input type="checkbox"/> Other waters	<input type="text"/>	acres		
<input type="checkbox"/> Wetlands	<input type="text"/>	acres		

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: L4

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature L4

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage L4

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: L4

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: L4

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                          |                   |                          |            |
|--|--------------------------|-------------------|--------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text"/> 725 | linear feet (ft), | <input type="text"/> 2.0 | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>     | acres             |                          |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>     | acres             |                          |            |

Feature ID: L4

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:  
Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: **M**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: **Natural** Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: **4:1 (or greater)**

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain: **Stable**

Presence of Run/Riffle/Pool Complexes. Explain: **Not present.**

Tributary Geometry: **Relatively Straight**

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<b>Ephemeral Flow</b>	Average Flow Events per year:	<b>1</b>
Describe Flow Regime:	<b>Ephemeral</b>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<b>Overland Sheetflow</b>	Characteristics:	<input type="text"/>
Subsurface Flow:	<b>No</b>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Discontinuous? Explain:
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

**(iii) Chemical Characteristics:**

Characterize Tributary:   
Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: **M3**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: **Natural** Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: **4:1 (or greater)**

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain: **Stable**

Presence of Run/Riffle/Pool Complexes. Explain: **Not present.**

Tributary Geometry: **Relatively Straight**

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for: **Ephemeral Flow** Average Flow Events per year: **1**

Describe Flow Regime: **Ephemeral** Other Information on Duration and Volume:

Surface Flow is: **Overland Sheetflow** Characteristics:

Subsurface Flow: **No** Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: M3

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                          |                   |                          |            |
|--|--------------------------|-------------------|--------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text"/> 690 | linear feet (ft), | <input type="text"/> 6.7 | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>     | acres             |                          |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>     | acres             |                          |            |

Feature ID: M3

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name: Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: **M4**

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: **August 15, 2012**

B. District Office and File No: **Los Angeles District, File No. Pending**

C. Project Location and Background Information: **Drainage Feature M4**

City, County, State **Casa Grande, Pinal County, Arizona**

Center coordinates of site: Lat. **32.984326** Long. **-111.802358**

Name of nearest waterbody: **Unnamed Drainage M4**

Name of nearest downstream TNW: **Gila River between Powers Butte and Gillespie Dam**

HUC Code: **15050303**

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: **June 29, 2012**

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<b>49650</b>	Tributaries flow to TNW:	<b>4</b>
Drainage Area (sq mi):	<b>297.0000</b>	River Miles from tributary to TNW:	<b>30 (or more)</b>
Average Annual Rainfall (in):	<b>8.35</b>	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	<b>30 (or more)</b>
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID: **M4**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Natural  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Discontinuous? Explain:
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID: **M4**

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                  |                   |                                  |            |
|--|----------------------------------|-------------------|----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="596"/> | linear feet (ft), | <input type="text" value="3.0"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>             | acres             |                                  |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>             | acres             |                                  |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: **M5**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: **Natural** Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: **4:1 (or greater)**

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain: **Stable**

Presence of Run/Riffle/Pool Complexes. Explain: **Not present.**

Tributary Geometry: **Relatively Straight**

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for: **Ephemeral Flow** Average Flow Events per year: **1**

Describe Flow Regime: **Ephemeral** Other Information on Duration and Volume:

Surface Flow is: **Overland Sheetflow** Characteristics:

Subsurface Flow: **No** Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank  Vegetation matted down, bent or absent
- Changes in soil character  Leaf litter disturbed or washed away
- Shelving  Presence of litter and debris
- Sediment deposition  Destruction of terrestrial vegetation
- Sediment sorting  Abrupt change in plant community
- Scour  Multiple observed or predicted flow events
- Presence of wrack line  Water staining

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: M5

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: M5

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                           |                   |                          |            |
|--|---------------------------|-------------------|--------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text"/> 2066 | linear feet (ft), | <input type="text"/> 7.0 | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>      | acres             |                          |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>      | acres             |                          |            |

Feature ID: M5

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:  
Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

**2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

**(i) Physical Characteristics:**

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

**(ii) Chemical Characteristics:**

Characterize Wetland System:

**(iii) Biological Characteristics. Wetland supports (check all that apply):**

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

**3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)**

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

**C. SIGNIFICANT NEXUS DETERMINATION**

**1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:**

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: M5ai

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                          |                   |                          |            |
|--|--------------------------|-------------------|--------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text"/> 919 | linear feet (ft), | <input type="text"/> 2.2 | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>     | acres             |                          |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>     | acres             |                          |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: **M6**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Natural  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank  Vegetation matted down, bent or absent
- Changes in soil character  Leaf litter disturbed or washed away
- Shelving  Presence of litter and debris
- Sediment deposition  Destruction of terrestrial vegetation
- Sediment sorting  Abrupt change in plant community
- Scour  Multiple observed or predicted flow events
- Presence of wrack line  Water staining

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: M6

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is: Explain:

Surface Flow is: Characteristics:

Subsurface Flow: Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

(iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: M6

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                   |                   |                                  |            |
|--|-----------------------------------|-------------------|----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="1162"/> | linear feet (ft), | <input type="text" value="4.1"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>              | acres             |                                  |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>              | acres             |                                  |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: **M7**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Natural  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

Wetland Size (ac): [ ] Wetland Type, Explain: [ ]

Wetland Quality, Explain: [ ]

Project Wetlands Cross or Serve as State Boundaries, Explain: [ ]

Wetland Flow is: [ ] Explain: [ ]

Surface Flow is: [ ] Characteristics: [ ]

Subsurface Flow: [ ] Explain Findings: [ ]

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain: [ ]

Ecological connection Explain: [ ]

Separated by berm/barrier Explain: [ ]

Project Wetlands: River Miles from TNW: [ ]

Project Wetlands: Aerial Miles from TNW: [ ]

Flow is From: [ ]

Approximate Location of Wetland within Floodplain: [ ]

(ii) Chemical Characteristics:

Characterize Wetland System: [ ]

(iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain: [ ]

Vegetation type/percent cover. Explain: [ ]

Habitat for:

Federally Listed Species Explain: [ ]

Fish/Spawn Areas Explain: [ ]

Other environmentally-sensitive species Explain: [ ]

Aquatic/Wildlife Diversity Explain: [ ]

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

All wetland(s) considered in cumulative analysis: [ ]

Wetland acres in total being considered in cumulative analysis: [ ]

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                   |                   |                                  |            |
|--|-----------------------------------|-------------------|----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="1356"/> | linear feet (ft), | <input type="text" value="6.0"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>              | acres             |                                  |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>              | acres             |                                  |            |

Feature ID: M7

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:  
Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: **M8**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Natural  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: M8

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: **M8**

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

<input checked="" type="checkbox"/> Non-wetland waters	<input type="text" value="720"/>	linear feet (ft),	<input type="text" value="4.7"/>	width (ft)
<input type="checkbox"/> Other waters	<input type="text"/>	acres		
<input type="checkbox"/> Wetlands	<input type="text"/>	acres		

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: **N**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: **Natural** Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: **4:1 (or greater)**

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain: **Stable**

Presence of Run/Riffle/Pool Complexes. Explain: **Not present.**

Tributary Geometry: **Relatively Straight**

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<b>Ephemeral Flow</b>	Average Flow Events per year:	<b>1</b>
Describe Flow Regime:	<b>Ephemeral</b>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<b>Overland Sheetflow</b>	Characteristics:	<input type="text"/>
Subsurface Flow:	<b>No</b>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

**(iii) Chemical Characteristics:**

Characterize Tributary:   
Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID: N

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: N

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  2896 linear feet (ft),  11.0 width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID: N

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name: Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: **N1**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: **Natural** Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: **4:1 (or greater)**

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain: **Stable**

Presence of Run/Riffle/Pool Complexes. Explain: **Not present.**

Tributary Geometry: **Relatively Straight**

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for: **Ephemeral Flow** Average Flow Events per year: **1**

Describe Flow Regime: **Ephemeral** Other Information on Duration and Volume:

Surface Flow is: **Overland Sheetflow** Characteristics:

Subsurface Flow: **No** Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank  Vegetation matted down, bent or absent
- Changes in soil character  Leaf litter disturbed or washed away
- Shelving  Presence of litter and debris
- Sediment deposition  Destruction of terrestrial vegetation
- Sediment sorting  Abrupt change in plant community
- Scour  Multiple observed or predicted flow events
- Presence of wrack line  Water staining

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Discontinuous? Explain:
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                   |                   |                                   |            |
|--|-----------------------------------|-------------------|-----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="6929"/> | linear feet (ft), | <input type="text" value="10.1"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>              | acres             |                                   |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>              | acres             |                                   |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: P

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature P

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage P

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID: P

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: Natural Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: 4:1 (or greater)

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain: Stable

Presence of Run/Riffle/Pool Complexes. Explain: Not present.

Tributary Geometry: Relatively Straight

Tributary Gradient (approximate average slope):

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 1

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Overland Sheetflow Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank
- Changes in soil character
- Shelving
- Sediment deposition
- Sediment sorting
- Scour
- Presence of wrack line
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

Other (list):

Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: P

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: P

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  4902 linear feet (ft),  9.3 width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID: P

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:  
Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Discontinuous? Explain:
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID: P1

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: P1

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE

1. TNWs and Adjacent Wetlands

TNWs: Linear Feet Width (ft), Or, Acres

Wetlands adjacent to TNWs Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters 1455 linear feet (ft), 4.3 width (ft)
Other waters acres
Wetlands acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: P1a

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: P1a

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                   |                   |                                  |            |
|--|-----------------------------------|-------------------|----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="1202"/> | linear feet (ft), | <input type="text" value="2.0"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>              | acres             |                                  |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>              | acres             |                                  |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

**2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

**(i) Physical Characteristics:**

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

**(ii) Chemical Characteristics:**

Characterize Wetland System:

**(iii) Biological Characteristics. Wetland supports (check all that apply):**

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

**3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)**

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

**C. SIGNIFICANT NEXUS DETERMINATION**

**1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:**

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: P2

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE

1. TNWs and Adjacent Wetlands

TNWs: Linear Feet Width (ft), Or, Acres

Wetlands adjacent to TNWs Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters 1326 linear feet (ft), 2.4 width (ft)
Other waters acres
Wetlands acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: P3

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is: Explain:

Surface Flow is: Characteristics:

Subsurface Flow: Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

(iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: P3

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE

1. TNWs and Adjacent Wetlands

TNWs: Linear Feet Width (ft), Or, Acres

Wetlands adjacent to TNWs Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters 2722 linear feet (ft), 5.6 width (ft)
Other waters acres
Wetlands acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts    Sands    Cobbles    Bedrock    Gravel    Vegetation  
 Concrete    Muck   Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks  
 OHWM: OHWM Indicators:  
 Clear, natural line impressed on the bank    Vegetation matted down, bent or absent  
 Changes in soil character    Leaf litter disturbed or washed away  
 Shelving    Presence of litter and debris  
 Sediment deposition    Destruction of terrestrial vegetation  
 Sediment sorting    Abrupt change in plant community  
 Scour    Multiple observed or predicted flow events  
 Presence of wrack line    Water staining  
Other (list):   
 Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:   
Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:   
 Wetland Fringe Characteristics:   
Habitat for:  
 Federally Listed Species Explain:   
 Fish/Spawn Areas Explain:   
 Other environmentally -sensitive species Explain:   
 Aquatic/Wildlife diversity Explain:

Feature ID: P3a

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: P3a

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                          |                   |                          |            |
|--|--------------------------|-------------------|--------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text"/> 496 | linear feet (ft), | <input type="text"/> 3.0 | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>     | acres             |                          |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>     | acres             |                          |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: P4

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                          |                   |                          |            |
|--|--------------------------|-------------------|--------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text"/> 834 | linear feet (ft), | <input type="text"/> 2.7 | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>     | acres             |                          |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>     | acres             |                          |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: P5

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature P5

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage P5

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID: P5

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: Natural Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: 4:1 (or greater)

Primary tributary substrate composition (check all that apply):

Silts Sands Cobbles Bedrock Gravel Vegetation

Concrete Muck Other, Explain:

Tributary Condition/Stability. Explain: Stable

Presence of Run/Riffle/Pool Complexes. Explain: Not present.

Tributary Geometry: Relatively Straight

Tributary Gradient (approximate average slope):

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 1

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Overland Sheetflow Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank
Changes in soil character
Shelving
Sediment deposition
Sediment sorting
Scour
Presence of wrack line
Vegetation matted down, bent or absent
Leaf litter disturbed or washed away
Presence of litter and debris
Destruction of terrestrial vegetation
Abrupt change in plant community
Multiple observed or predicted flow events
Water staining

Other (list):

Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: P5

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is: Explain:

Surface Flow is: Characteristics:

Subsurface Flow: Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

(iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: P5

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  752 linear feet (ft),  2.4 width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID: P5

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:  
Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: R

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: **Drainage Feature R**

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage R

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:

Habitat for:

- Federally Listed Species Explain:
- Fish/Spawn Areas Explain:
- Other environmentally -sensitive species Explain:
- Aquatic/Wildlife diversity Explain:

Feature ID: R

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: R

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE

1. TNWs and Adjacent Wetlands

TNWs: Linear Feet Width (ft), Or, Acres

Wetlands adjacent to TNWs Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters 7607 linear feet (ft), 13.3 width (ft)
Other waters acres
Wetlands acres

Feature ID: R

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name: Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

**2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

**(i) Physical Characteristics:**

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

**(ii) Chemical Characteristics:**

Characterize Wetland System:

**(iii) Biological Characteristics. Wetland supports (check all that apply):**

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

**3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)**

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

**C. SIGNIFICANT NEXUS DETERMINATION**

**1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:**

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank  Vegetation matted down, bent or absent
- Changes in soil character  Leaf litter disturbed or washed away
- Shelving  Presence of litter and debris
- Sediment deposition  Destruction of terrestrial vegetation
- Sediment sorting  Abrupt change in plant community
- Scour  Multiple observed or predicted flow events
- Presence of wrack line  Water staining

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: S

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: Natural Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: 4:1 (or greater)

Primary tributary substrate composition (check all that apply):

Silts Sands Cobbles Bedrock Gravel Vegetation

Concrete Muck Other, Explain:

Tributary Condition/Stability. Explain: Stable

Presence of Run/Riffle/Pool Complexes. Explain: Not present.

Tributary Geometry: Relatively Straight

Tributary Gradient (approximate average slope):

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 1

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Overland Sheetflow Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank
Vegetation matted down, bent or absent
Changes in soil character
Leaf litter disturbed or washed away
Shelving
Presence of litter and debris
Sediment deposition
Destruction of terrestrial vegetation
Sediment sorting
Abrupt change in plant community
Scour
Multiple observed or predicted flow events
Presence of wrack line
Water staining

Other (list):

Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: S

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank  Vegetation matted down, bent or absent
- Changes in soil character  Leaf litter disturbed or washed away
- Shelving  Presence of litter and debris
- Sediment deposition  Destruction of terrestrial vegetation
- Sediment sorting  Abrupt change in plant community
- Scour  Multiple observed or predicted flow events
- Presence of wrack line  Water staining

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

**2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

**(i) Physical Characteristics:**

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

**(ii) Chemical Characteristics:**

Characterize Wetland System:

**(iii) Biological Characteristics. Wetland supports (check all that apply):**

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

**3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)**

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

**C. SIGNIFICANT NEXUS DETERMINATION**

**1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:**

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: S1

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

<input checked="" type="checkbox"/> Non-wetland waters	<input type="text" value="3055"/>	linear feet (ft),	<input type="text" value="2.6"/>	width (ft)
<input type="checkbox"/> Other waters	<input type="text"/>	acres		
<input type="checkbox"/> Wetlands	<input type="text"/>	acres		

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: S1a

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                   |                   |                                  |            |
|--|-----------------------------------|-------------------|----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="1215"/> | linear feet (ft), | <input type="text" value="2.8"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>              | acres             |                                  |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>              | acres             |                                  |            |

Feature ID: S1a

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name: Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                   |                   |                                  |            |
|--|-----------------------------------|-------------------|----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="2716"/> | linear feet (ft), | <input type="text" value="4.7"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>              | acres             |                                  |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>              | acres             |                                  |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: S4

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                   |                   |                                  |            |
|--|-----------------------------------|-------------------|----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="2439"/> | linear feet (ft), | <input type="text" value="6.1"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>              | acres             |                                  |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>              | acres             |                                  |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:

Habitat for:

- Federally Listed Species Explain:
- Fish/Spawn Areas Explain:
- Other environmentally -sensitive species Explain:
- Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: S4a

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                   |                   |                                  |            |
|--|-----------------------------------|-------------------|----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="1366"/> | linear feet (ft), | <input type="text" value="3.0"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>              | acres             |                                  |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>              | acres             |                                  |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: T

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: **Drainage Feature T**

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage T

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID: T

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: Natural Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: 4:1 (or greater)

Primary tributary substrate composition (check all that apply):

Silts Sands Cobbles Bedrock Gravel Vegetation

Concrete Muck Other, Explain:

Tributary Condition/Stability. Explain: Stable

Presence of Run/Riffle/Pool Complexes. Explain: Not present.

Tributary Geometry: Relatively Straight

Tributary Gradient (approximate average slope):

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 1

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Overland Sheetflow Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank
Vegetation matted down, bent or absent
Changes in soil character
Leaf litter disturbed or washed away
Shelving
Presence of litter and debris
Sediment deposition
Destruction of terrestrial vegetation
Sediment sorting
Abrupt change in plant community
Scour
Multiple observed or predicted flow events
Presence of wrack line
Water staining

Other (list):

Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: T

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: T

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  5311 linear feet (ft),  2.4 width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID: T

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:  
Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: T1

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature T1

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage T1

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID: T1

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: Natural Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: 4:1 (or greater)

Primary tributary substrate composition (check all that apply):

- Silts, Sands, Cobbles, Bedrock, Gravel, Vegetation, Concrete, Muck, Other, Explain:

Tributary Condition/Stability. Explain: Stable

Presence of Run/Riffle/Pool Complexes. Explain: Not present.

Tributary Geometry: Relatively Straight

Tributary Gradient (approximate average slope):

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 1
Describe Flow Regime: Ephemeral Other Information on Duration and Volume:
Surface Flow is: Overland Sheetflow Characteristics:
Subsurface Flow: No Explain:

Tributary Has:

- Bed and Banks, OHWM: OHWM Indicators: Clear, natural line impressed on the bank, Changes in soil character, Shelving, Sediment deposition, Sediment sorting, Scour, Presence of wrack line, Vegetation matted down, bent or absent, Leaf litter disturbed or washed away, Presence of litter and debris, Destruction of terrestrial vegetation, Abrupt change in plant community, Multiple observed or predicted flow events, Water staining, Other (list):, Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:
Identify Specific Pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian Corridor Characteristics:
Wetland Fringe Characteristics:
Habitat for:
Federally Listed Species Explain:
Fish/Spawn Areas Explain:
Other environmentally -sensitive species Explain:
Aquatic/Wildlife diversity Explain:

Feature ID: T1

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: T1

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE

1. TNWs and Adjacent Wetlands

TNWs: Linear Feet Width (ft), Or, Acres

Wetlands adjacent to TNWs Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet): Width (feet): Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction:

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): Acres:

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters 4123 linear feet (ft), 3.3 width (ft)
Other waters acres
Wetlands acres

Feature ID: T1

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name: Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: U

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature U

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage U

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID: U

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: Natural Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: 4:1 (or greater)

Primary tributary substrate composition (check all that apply):

Silts Sands Cobbles Bedrock Gravel Vegetation

Concrete Muck Other, Explain:

Tributary Condition/Stability. Explain: Stable

Presence of Run/Riffle/Pool Complexes. Explain: Not present.

Tributary Geometry: Relatively Straight

Tributary Gradient (approximate average slope):

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 1

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Overland Sheetflow Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank
Vegetation matted down, bent or absent
Changes in soil character
Leaf litter disturbed or washed away
Shelving
Presence of litter and debris
Sediment deposition
Destruction of terrestrial vegetation
Sediment sorting
Abrupt change in plant community
Scour
Multiple observed or predicted flow events
Presence of wrack line
Water staining

Other (list):

Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: U

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: U

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  11409 linear feet (ft),  4.8 width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: U1

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature U1

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage U1

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID: U1

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: Natural Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: 4:1 (or greater)

Primary tributary substrate composition (check all that apply):

- Silts, Sands, Cobbles, Bedrock, Gravel, Vegetation, Concrete, Muck, Other, Explain:

Tributary Condition/Stability. Explain: Stable

Presence of Run/Riffle/Pool Complexes. Explain: Not present.

Tributary Geometry: Relatively Straight

Tributary Gradient (approximate average slope):

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 1
Describe Flow Regime: Ephemeral Other Information on Duration and Volume:
Surface Flow is: Overland Sheetflow Characteristics:
Subsurface Flow: No Explain:

Tributary Has:

- Bed and Banks, OHWM: OHWM Indicators: Clear, natural line impressed on the bank, Changes in soil character, Shelving, Sediment deposition, Sediment sorting, Scour, Presence of wrack line, Vegetation matted down, bent or absent, Leaf litter disturbed or washed away, Presence of litter and debris, Destruction of terrestrial vegetation, Abrupt change in plant community, Multiple observed or predicted flow events, Water staining, Other (list):, Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:
Identify Specific Pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian Corridor Characteristics:
Wetland Fringe Characteristics:
Habitat for:
Federally Listed Species Explain:
Fish/Spawn Areas Explain:
Other environmentally -sensitive species Explain:
Aquatic/Wildlife diversity Explain:

Feature ID: U1

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: U1

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

<input checked="" type="checkbox"/> Non-wetland waters	<input type="text" value="1078"/>	linear feet (ft),	<input type="text" value="2.6"/>	width (ft)
<input type="checkbox"/> Other waters	<input type="text"/>	acres		
<input type="checkbox"/> Wetlands	<input type="text"/>	acres		

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: U4

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature U4

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage U4

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: U4

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is: Explain:

Surface Flow is: Characteristics:

Subsurface Flow: Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

(iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: U4

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                          |                   |                          |            |
|--|--------------------------|-------------------|--------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text"/> 387 | linear feet (ft), | <input type="text"/> 2.0 | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>     | acres             |                          |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>     | acres             |                          |            |

Feature ID: U4

SECTION IV: DATA SOURCES

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name: Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: U5

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature U5

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage U5

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: U5

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: U5

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

<input checked="" type="checkbox"/> Non-wetland waters	<input type="text"/> 586	linear feet (ft),	<input type="text"/> 3.0	width (ft)
<input type="checkbox"/> Other waters	<input type="text"/>	acres		
<input type="checkbox"/> Wetlands	<input type="text"/>	acres		

Feature ID: U5

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:  
Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: U7

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature U7

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage U7

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Vegetation matted down, bent or absent
  - Changes in soil character
  - Leaf litter disturbed or washed away
  - Shelving
  - Presence of litter and debris
  - Sediment deposition
  - Destruction of terrestrial vegetation
  - Sediment sorting
  - Abrupt change in plant community
  - Scour
  - Multiple observed or predicted flow events
  - Presence of wrack line
  - Water staining
- Other (list):
- Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID: U7

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is: Explain:

Surface Flow is: Characteristics:

Subsurface Flow: Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

(iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: U7

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                   |                   |                                  |            |
|--|-----------------------------------|-------------------|----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="5072"/> | linear feet (ft), | <input type="text" value="2.7"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>              | acres             |                                  |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>              | acres             |                                  |            |

Feature ID: U7

SECTION IV: DATA SOURCES

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name: Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: U7a

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: U7a

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                          |                   |                          |            |
|--|--------------------------|-------------------|--------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text"/> 611 | linear feet (ft), | <input type="text"/> 2.5 | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>     | acres             |                          |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>     | acres             |                          |            |

Feature ID: U7a

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:  
Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Discontinuous? Explain:
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

**2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

**(i) Physical Characteristics:**

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

**(ii) Chemical Characteristics:**

Characterize Wetland System:

**(iii) Biological Characteristics. Wetland supports (check all that apply):**

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

**3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)**

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

**C. SIGNIFICANT NEXUS DETERMINATION**

**1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:**

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                   |                   |                                  |            |
|--|-----------------------------------|-------------------|----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="1694"/> | linear feet (ft), | <input type="text" value="2.1"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>              | acres             |                                  |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>              | acres             |                                  |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                   |                   |                                  |            |
|--|-----------------------------------|-------------------|----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="1087"/> | linear feet (ft), | <input type="text" value="1.8"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>              | acres             |                                  |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>              | acres             |                                  |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: **W**

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Natural  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Vegetation matted down, bent or absent
  - Leaf litter disturbed or washed away
  - Presence of litter and debris
  - Destruction of terrestrial vegetation
  - Abrupt change in plant community
  - Multiple observed or predicted flow events
  - Water staining

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:

Habitat for:

- Federally Listed Species Explain:
- Fish/Spawn Areas Explain:
- Other environmentally -sensitive species Explain:
- Aquatic/Wildlife diversity Explain:

Feature ID:

**2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

**(i) Physical Characteristics:**

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

**(ii) Chemical Characteristics:**

Characterize Wetland System:

**(iii) Biological Characteristics. Wetland supports (check all that apply):**

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

**3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)**

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

**C. SIGNIFICANT NEXUS DETERMINATION**

**1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:**

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID: X

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: Natural Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: 4:1 (or greater)

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain: Stable

Presence of Run/Riffle/Pool Complexes. Explain: Not present.

Tributary Geometry: Relatively Straight

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 1  
Describe Flow Regime: Ephemeral Other Information on Duration and Volume:  
Surface Flow is: Overland Sheetflow Characteristics:  
Subsurface Flow: No Explain:

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Discontinuous? Explain:
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

**(iii) Chemical Characteristics:**

Characterize Tributary:  
Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID: X

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: X

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  3768 linear feet (ft),  6.0 width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID: X

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:  
Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
  - OHWM: OHWM Indicators:
    - Clear, natural line impressed on the bank
    - Changes in soil character
    - Shelving
    - Sediment deposition
    - Sediment sorting
    - Scour
    - Presence of wrack line
    - Other (list):
  - Vegetation matted down, bent or absent
  - Leaf litter disturbed or washed away
  - Presence of litter and debris
  - Destruction of terrestrial vegetation
  - Abrupt change in plant community
  - Multiple observed or predicted flow events
  - Water staining
- Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID: X1

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID:

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  linear feet (ft),  width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID: X1

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name: Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: X1b

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: X1b

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- |  |                                   |                   |                                  |            |
|--|-----------------------------------|-------------------|----------------------------------|------------|
| <input checked="" type="checkbox"/> Non-wetland waters | <input type="text" value="2923"/> | linear feet (ft), | <input type="text" value="7.7"/> | width (ft) |
| <input type="checkbox"/> Other waters                  | <input type="text"/>              | acres             |                                  |            |
| <input type="checkbox"/> Wetlands                      | <input type="text"/>              | acres             |                                  |            |

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID:

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination:

B. District Office and File No:

C. Project Location and Background Information: **Drainage Feature**

City, County, State

Center coordinates of site: Lat.  Long.

Name of nearest waterbody:

Name of nearest downstream TNW:

HUC Code:

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date:

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet  Width (ft) and/or  Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	<input type="text" value="49650"/>	Tributaries flow to TNW:	<input type="text" value="4"/>
Drainage Area (sq mi):	<input type="text" value="297.0000"/>	River Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
Average Annual Rainfall (in):	<input type="text" value="8.35"/>	River Miles from tributary to RPW:	<input type="text"/>
Average Annual Snowfall (in):	<input type="text"/>	Aerial Miles from tributary to TNW:	<input type="text" value="30 (or more)"/>
		Aerial Miles from tributary to RPW:	<input type="text"/>

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
- OHWM: OHWM Indicators:
  - Clear, natural line impressed on the bank
  - Changes in soil character
  - Shelving
  - Sediment deposition
  - Sediment sorting
  - Scour
  - Presence of wrack line
  - Other (list):
- Vegetation matted down, bent or absent
- Leaf litter disturbed or washed away
- Presence of litter and debris
- Destruction of terrestrial vegetation
- Abrupt change in plant community
- Multiple observed or predicted flow events
- Water staining

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID: X1bi

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: X1bi

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

<input checked="" type="checkbox"/> Non-wetland waters	<input type="text"/> 829	linear feet (ft),	<input type="text"/> 2.5	width (ft)
<input type="checkbox"/> Other waters	<input type="text"/>	acres		
<input type="checkbox"/> Wetlands	<input type="text"/>	acres		

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: X2

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature X2

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage X2

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID: X2

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is: Natural Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes: 4:1 (or greater)

Primary tributary substrate composition (check all that apply):

Silts Sands Cobbles Bedrock Gravel Vegetation

Concrete Muck Other, Explain:

Tributary Condition/Stability. Explain: Stable

Presence of Run/Riffle/Pool Complexes. Explain: Not present.

Tributary Geometry: Relatively Straight

Tributary Gradient (approximate average slope):

(c) Flow:

Tributary Provides for: Ephemeral Flow Average Flow Events per year: 1

Describe Flow Regime: Ephemeral Other Information on Duration and Volume:

Surface Flow is: Overland Sheetflow Characteristics:

Subsurface Flow: No Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- Clear, natural line impressed on the bank
Changes in soil character
Shelving
Sediment deposition
Sediment sorting
Scour
Presence of wrack line
Vegetation matted down, bent or absent
Leaf litter disturbed or washed away
Presence of litter and debris
Destruction of terrestrial vegetation
Abrupt change in plant community
Multiple observed or predicted flow events
Water staining

Other (list):

Discontinuous? Explain:

(iii) Chemical Characteristics:

Characterize Tributary:

Identify Specific Pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: X2

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

Wetland Size (ac): Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is: Explain:

Surface Flow is: Characteristics:

Subsurface Flow: Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

(ii) Chemical Characteristics:

Characterize Wetland System:

(iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

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

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: X2

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE

1. TNWs and Adjacent Wetlands

TNWs: [ ] Linear Feet [ ] Width (ft), Or, [ ] Acres

Wetlands adjacent to TNWs [ ] Acres

Reserved for Section III D 2 (RPWs):

3. Non-RPWs that flow directly or indirectly into TNWs.

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet): [ ] Width (feet): [ ] Acres: [ ]

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres): [ ]

7. Impoundments of jurisdictional waters.

Demonstration of Jurisdiction: [ ]

E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE

Supporting rationale:

Length (linear feet): [ ] Acres: [ ]

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters [ 3964 ] linear feet (ft), [ 4.6 ] width (ft)
- Other waters [ ] acres
- Wetlands [ ] acres

Feature ID: X2

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:  
Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: X2a

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: Drainage Feature X2a

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage X2a

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

Silts  Sands  Cobbles  Bedrock  Gravel  Vegetation

Concrete  Muck Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:  Average Flow Events per year:

Describe Flow Regime:  Other Information on Duration and Volume:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain:

Tributary Has:

Bed and Banks

OHWM: OHWM Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Clear, natural line impressed on the bank | <input type="checkbox"/> Vegetation matted down, bent or absent     |
| <input checked="" type="checkbox"/> Changes in soil character      | <input type="checkbox"/> Leaf litter disturbed or washed away       |
| <input type="checkbox"/> Shelving                                  | <input type="checkbox"/> Presence of litter and debris              |
| <input checked="" type="checkbox"/> Sediment deposition            | <input type="checkbox"/> Destruction of terrestrial vegetation      |
| <input type="checkbox"/> Sediment sorting                          | <input type="checkbox"/> Abrupt change in plant community           |
| <input type="checkbox"/> Scour                                     | <input type="checkbox"/> Multiple observed or predicted flow events |
| <input type="checkbox"/> Presence of wrack line                    | <input type="checkbox"/> Water staining                             |

Other (list):

Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

Riparian Corridor Characteristics:

Wetland Fringe Characteristics:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally -sensitive species Explain:

Aquatic/Wildlife diversity Explain:

Feature ID: X2a

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: X2a

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

<input checked="" type="checkbox"/> Non-wetland waters	<input type="text" value="1828"/>	linear feet (ft),	<input type="text" value="4.3"/>	width (ft)
<input type="checkbox"/> Other waters	<input type="text"/>	acres		
<input type="checkbox"/> Wetlands	<input type="text"/>	acres		

Feature ID: X2a

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant: WestLand Resources, Inc.
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:  
Casa Grande 7.5-Minute Quadrangle
- USDA Nat'l Res Conservation Service Soil Survey Citation: Web Soil Survey, 08/01/2012
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps 04021C 1175E, 12/4/2007
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date): BING Aerial Photography, 2010
- Other Photographs (Name and Date): Ground Photos; June 29, 2012
- Previous Determinations File No. and Date of Response Letter: Corps File No. 974-0202-SDM
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD:

Feature ID: Y

**SECTION I: BACKGROUND INFORMATION**

A. Report Completion Date for Approved Jurisdictional Determination: August 15, 2012

B. District Office and File No: Los Angeles District, File No. Pending

C. Project Location and Background Information: **Drainage Feature Y**

City, County, State Casa Grande, Pinal County, Arizona

Center coordinates of site: Lat. 32.984326 Long. -111.802358

Name of nearest waterbody: Unnamed Drainage Y

Name of nearest downstream TNW: Gila River between Powers Butte and Gillespie Dam

HUC Code: 15050303

Map/Diagram of potential jurisdictional area is available on request

D. Review Performed for Site Evaluation:

Office Determination. Date:

Field Determination. Date: June 29, 2012

**SECTION II: SUMMARY OF FINDINGS**

A. RHA Section 10 Determination of Jurisdiction

There Are No "navigable waters of the U.S." within RHA jurisdiction in the review area.

B. CWA Section 404 Determination of Jurisdiction

**There Are No** "waters of the U.S." within CWA jurisdiction in the review area.

1. Waters of the US:

Linear Feet Width (ft) and/or Acres

Limits of Jurisdiction based on:

2. Non-Regulated Waters/Wetlands:

Potentially jurisdictional waters and/or wetlands were assessed and determined not to be jurisdictional:

Ephemeral drainage exhibits indicators of an OHWM, but was determined not to have a significant nexus to TNWs, based on: distance to TNW; low frequency and amount of flow; rapid dissipation of stormwater through high evaporation, low precipitation, high soil permeability, and water uptake by vegetation; effects of intervening manmade channels, impoundments, and agricultural land uses; and lack of lifecycle support functions for aquatic species in TNWs. Consequently, they do not have more than an insubstantial or speculative effect on the physical, chemical, or biological integrity of TNWs (see Section III.C).

**SECTION III: CWA ANALYSIS**

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. Identified TNW:

Rationale for TNW determination:

2. Rationale for conclusion that any wetlands present are "adjacent":

B. CHARACTERISTICS OF NON-TNW TRIBUTARY AND ITS ADJACENT WETLANDS

TNW Watershed Size (sq mi):	49650	Tributaries flow to TNW:	4
Drainage Area (sq mi):	297.0000	River Miles from tributary to TNW:	30 (or more)
Average Annual Rainfall (in):	8.35	River Miles from tributary to RPW:	
Average Annual Snowfall (in):		Aerial Miles from tributary to TNW:	30 (or more)
		Aerial Miles from tributary to RPW:	

Project waters cross or serve as state boundaries. Explain:

Feature ID:

Identify flow route to TNW:

Project area drainages flow to the North Branch Santa Cruz Wash to the Santa Cruz Wash, which is interrupted by approximately 13 miles (in a straight line) of agricultural area, to the Gila River.

Tributary is:  Explain:

Average Width (ft):

Average Depth (ft):

Average Side Slopes:

Primary tributary substrate composition (check all that apply):

- Silts
- Sands
- Cobbles
- Bedrock
- Gravel
- Vegetation
- Concrete
- Muck
- Other, Explain:

Tributary Condition/Stability. Explain:

Presence of Run/Riffle/Pool Complexes. Explain:

Tributary Geometry:

Tributary Gradient (approximate average slope):

**(c) Flow:**

Tributary Provides for:	<input type="text" value="Ephemeral Flow"/>	Average Flow Events per year:	<input type="text" value="1"/>
Describe Flow Regime:	<input type="text" value="Ephemeral"/>	Other Information on Duration and Volume:	<input type="text"/>
Surface Flow is:	<input type="text" value="Overland Sheetflow"/>	Characteristics:	<input type="text"/>
Subsurface Flow:	<input type="text" value="No"/>	Explain:	<input type="text"/>

Tributary Has:

- Bed and Banks
  - OHWM: OHWM Indicators:
    - Clear, natural line impressed on the bank
    - Changes in soil character
    - Shelving
    - Sediment deposition
    - Sediment sorting
    - Scour
    - Presence of wrack line
    - Other (list):
  - Vegetation matted down, bent or absent
  - Leaf litter disturbed or washed away
  - Presence of litter and debris
  - Destruction of terrestrial vegetation
  - Abrupt change in plant community
  - Multiple observed or predicted flow events
  - Water staining
- Discontinuous? Explain:

**(iii) Chemical Characteristics:**

Characterize Tributary:

Identify Specific Pollutants, if known:

**(iv) Biological Characteristics. Channel supports (check all that apply):**

- Riparian Corridor Characteristics:
- Wetland Fringe Characteristics:
- Habitat for:
  - Federally Listed Species Explain:
  - Fish/Spawn Areas Explain:
  - Other environmentally -sensitive species Explain:
  - Aquatic/Wildlife diversity Explain:

Feature ID:

## 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

Wetland Size (ac):  Wetland Type, Explain:

Wetland Quality, Explain:

Project Wetlands Cross or Serve as State Boundaries, Explain:

Wetland Flow is:  Explain:

Surface Flow is:  Characteristics:

Subsurface Flow:  Explain Findings:

Wetland Directly Abutting Non-TNW

Wetland Not Directly Abutting Non-TNW

Discrete wetland hydrologic connection Explain:

Ecological connection Explain:

Separated by berm/barrier Explain:

Project Wetlands: River Miles from TNW:

Project Wetlands: Aerial Miles from TNW:

Flow is From:

Approximate Location of Wetland within Floodplain:

### (ii) Chemical Characteristics:

Characterize Wetland System:

### (iii) Biological Characteristics. Wetland supports (check all that apply):

Riparian Buffer Explain:

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed Species Explain:

Fish/Spawn Areas Explain:

Other environmentally-sensitive species Explain:

Aquatic/Wildlife Diversity Explain:

## 3. Characteristics of all wetlands adjacent to the non-TNW tributary (if any)

All wetland(s) considered in cumulative analysis:

Wetland acres in total being considered in cumulative analysis:

Describe each wetland (directly abuts tributary?; size in acres; overall biological, chemical or physical functions):

## C. SIGNIFICANT NEXUS DETERMINATION

### 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNW. Explain:

The Copper Mountain Ranch project area drains to the North Branch Santa Cruz Wash to Santa Cruz Wash to the Gila River. In total, the project area is approximately 80 ephemeral 'river' miles from the reach of the Gila River designated as the TNW. With the exception of the intermittent flow created by effluent discharge into the Gila River, the entire length of this flow path consists of ephemeral drainages. The flow path is highly discontinuous, interrupted by numerous levees, diversions, stock tanks, channels, agricultural fields, canals, road crossings, and other constructed features. The likelihood that stormwater originating in the project area is conveyed downgradient to the TNW is extremely remote. The largest and most obvious disruption in the flow path is the thirteen miles of agricultural production along the course of the Santa Cruz Wash. In addition, the arid climate, high evaporation rate, and permeable soils lead to rapid evaporation and infiltration of stormwater flows within the project area and at many of the constructed features that detain

Feature ID: Y

or interrupt stormwater flows. In summary, the Copper Mountain Ranch project area does not contain any drainages that have characteristics, functions, or values having more than an insubstantial or speculative effect on the chemical, physical, and/or biological integrity of the downstream TNW, and are therefore not waters of the U.S. (WestLand Resources 2012).

**2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNW. Explain:**

**3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain:**

**D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE**

**1. TNWs and Adjacent Wetlands**

TNWs:  Linear Feet  Width (ft), Or,  Acres

Wetlands adjacent to TNWs  Acres

Reserved for Section III D 2 (RPWs):

**3. Non-RPWs that flow directly or indirectly into TNWs.**

Non-TNW/non-RPW waterbody that flows directly or indirectly into a TNW and has a significant nexus with a TNW, and is therefore jurisdictional.

Length (Linear Feet):  Width (feet):  Acres:

Reserved for Section III D 4 (Wetlands directly abutting RPWs):

Reserved for Section III D 5 (Wetlands adjacent to but not directly abutting RPWs):

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

Wetland adjacent to non-RPWs which, in combination with the tributary and other adjacent wetlands, has a significant nexus with the TNW.

Estimated size of jurisdictional wetland (in acres):

**7. Impoundments of jurisdictional waters.**

Demonstration of Jurisdiction:

**E. ISOLATED WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE**

Supporting rationale:

Length (linear feet):  Acres:

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS:**

Non-Jurisdictional Waters:

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.

Explain finding of no Significant Nexus:

See Section III.C.1.

- Non-wetland waters  1828 linear feet (ft),  1.9 width (ft)
- Other waters  acres
- Wetlands  acres

Feature ID:

**SECTION IV: DATA SOURCES**

- Maps, Plans, Plots or Plat Submitted by Applicant/Consultant:
- Data Sheets Prepared/Submitted on behalf of Applicant
  - Office Concurrs with delineation
  - Office Does Not Concur with delineation
- Data Sheets Prepared by the Corps
- Corps Navigable Water Study
- US Geological Survey Hydrologic Atlas
  - USGS NHD Data
  - USGS 8 and 12 digit HUC Map
- US Geological Survey Map(s) Scale and Quad Name:
- USDA Nat'l Res Conservation Service Soil Survey Citation:
- National Wetlands Inventory Maps Cite Map Name:
- State/Local Wetland Inventory Maps
- FEMA/FIR Maps
- 100-year Floodplain Elevation is:  (National Geodetic Vertical Datum of 1929)
- Aerial Photographs (Name and Date):
- Other Photographs (Name and Date):
- Previous Determinations File No. and Date of Response Letter:
- Applicable/Supporting Case Law Citation:
- Applicable/Supporting Scientific Literature Citation:
- Other Information, Please Specify:

Additional Comments to Support JD: