California High-Speed Rail Authority

Bakersfield to Palmdale Project Section

Final Project Environmental Impact Report/Environmental Impact Statement

Appendix 8-B: Concurrence Letters

May 2021

CALIFORNIA
High-Speed Rail Authority

The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

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CALIFORNIA
High-Speed Rail Authority

U.S. Department of Transportation
Federal Railroad Administration

June 29, 2017

Clifton Meek
NEPA Reviewer - Transportation
U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street, ENF-4-2
San Francisco, CA 94105

Spencer D. MacNeil
Chief, Transportation and Special Projects Branch
U.S. Army Corps of Engineers, Los Angeles District
2151 Alessandro Drive, Suite 110
Ventura, CA 93001

RE: California High-Speed Rail, Bakersfield to Palmdale Section, Notice to Withdraw from NEPA/404/408/MOU

Dear Mr. Meek and Mr. MacNeil:

As we have previously discussed with you, the Federal Railroad Administration (FRA) and the California High-Speed Rail Authority (Authority) are providing this joint written notice of our withdrawal from the 2010 MOU for the Bakersfield to Palmdale Section of the California High-Speed Train Program. We are withdrawing because based on best available information we have identified no waters under the jurisdiction of the US Army Corps of Engineers (USACE) pursuant to sections 404 and 408 of the Clean Water Act.

Our decision to withdraw is based on an Approved Jurisdictional Determination (AJD) application demonstrating that the Bakersfield to Palmdale section does not include Waters of the U.S. under the Clean Water Act section 404. We submitted the AJD application to USACE for its concurrence on January 11, 2017. Further, we have identified no resource requiring review under the USACE's Section 408 program.

In providing this notice, we will continue to engage with both the U.S. Environmental Protection Agency and the USACE as we develop our Draft and Final Environmental Impact Report/Environmental Impact Statement. We greatly appreciate your participation in our environmental review process and note that USACE has agreed to participate as a cooperating agency under NEPA in the Tier 2 environmental process and we will coordinate with USACE accordingly.

EDMUND G. BROWN JR.
GOVERNOR

Should you have any questions regarding this notice, please contact Stephanie Perez-Arrieta at Stephanie.Perez@dot.gov or (202) 493-0388 on behalf of FRA and Mark McLoughlin at Mark.McLoughlin@hsr.ca.gov or (916) 403-6934 for the Authority.

Sincerely,

Marlys Osterhues
Chief Environment and Corridor Planner
Federal Railroad Administration

Mark A. McLoughlin
Director, Environmental Services
California High-Speed Rail Authority

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, U.S. ARMY CORPS OF ENGINEERS
915 WILSHIRE BOULEVARD, SUITE 930
LOS ANGELES, CA 90017-3401

December 11, 2017

Mark A. McLoughlin, Director of Environmental Services
California High Speed Rail Authority
777 L Street, Suite 620
Sacramento, California 95814

SUBJECT: Approved Jurisdictional Determination regarding geographic jurisdiction

Dear Mr. McLoughlin:

I am responding to your request (File No. SPL-2010-00945-VCL) dated January 6, 2017, for an approved Department of the Army jurisdictional determination (JD) for the California High Speed Train Bakersfield to Palmdale Project Section site (Lat/Long: 35.038628°N, -118.285486°W) located between the City of Bakersfield, Kern County, and the City of Palmdale, Los Angeles County, California (see attached approved JD maps).

The Corps' evaluation process for determining whether or not a Department of the Army permit is needed involves two tests. If both tests are met, a permit would likely be required. The first test determines whether or not the proposed project is located within the Corps' geographic jurisdiction (i.e., it is within a water of the United States). The second test determines whether or not the proposed project is a regulated activity under Section 10 of the Rivers and Harbors Act or Section 404 of the Clean Water Act. This evaluation pertains only to geographic jurisdiction.

Based on available information, I have determined waters of the United States do not occur on the project site. The basis for our determination can be found in the enclosed approved Jurisdictional Determination (JD) form(s).

The aquatic resources identified in project documentation you provided are "intrastate isolated waters" with no apparent interstate or foreign commerce connection. As such, these aquatic resources are not currently regulated by the Corps of Engineers. This disclaimer of jurisdiction is only for Section 404 of the Clean Water Act. Other federal, state, and local laws may apply to your activities. In particular, you may need authorization from the California State Water Resources Control Board, the California Department of Fish and Wildlife, and/or the U.S. Fish and Wildlife Service.

This letter includes an approved jurisdictional determination for the California High Speed Train Bakersfield to Palmdale Project Section site drainages. If you wish to submit new information regarding this jurisdictional determination, please do so within 60 days. We will consider any new information so submitted and **respond within 60 days** by either revising the prior determination if appropriate, or reissuing the prior determination. If you object to this or any revised or reissued jurisdictional determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you wish to appeal this decision, you must submit a completed RFA form within 60 days of the date on the NAP to the Corps South Pacific Division Office at the following address:

Tom Cavanaugh
Administrative Appeal Review Officer
U.S. Army Corps of Engineers
South Pacific Division, CESPD-PDS-O, 2042B
1455 Market Street
San Francisco, California 94103-1399

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5 (see below), and that it has been received by the Division Office by **February 2, 2017**.

This determination has been conducted to identify the extent of the Corps' Clean Water Act jurisdiction on the particular project site identified in your request, and is valid for five years from the date of this letter, unless new information warrants revision of the determination before the expiration date. This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work.

Thank you for participating in the regulatory program. If you have any questions, please contact me at (213) 452-3292 or via e-mail at Veronica.C.Li@usace.army.mil. Please help me to evaluate and improve the regulatory experience for others by completing the customer survey form at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey.

Sincerely,

COHEN.MARK.D.1
239558450

Digitally signed by COHEN.MARK.D.1239558450
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USA, cn=COHEN.MARK.D.1239558450
Date: 2017.12.11 09:32:52 -08'00'

Mark D. Cohen
Deputy Chief, Regulatory Division

Enclosure(s)

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: California High Speed Rail Authority, Attn: Mr. Mark McLoughlin		File No.: SPL-2010-00945-VCL	Date: December 4, 2017
Attached is:			See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)		A
	PROFFERED PERMIT (Standard Permit or Letter of permission)		B
	PERMIT DENIAL		C
X	APPROVED JURISDICTIONAL DETERMINATION		D
	PRELIMINARY JURISDICTIONAL DETERMINATION		E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at *http://www.usace.army.mil/cecw/pages/reg_materials.aspx* or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer (address on reverse). This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer (address on reverse). This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.

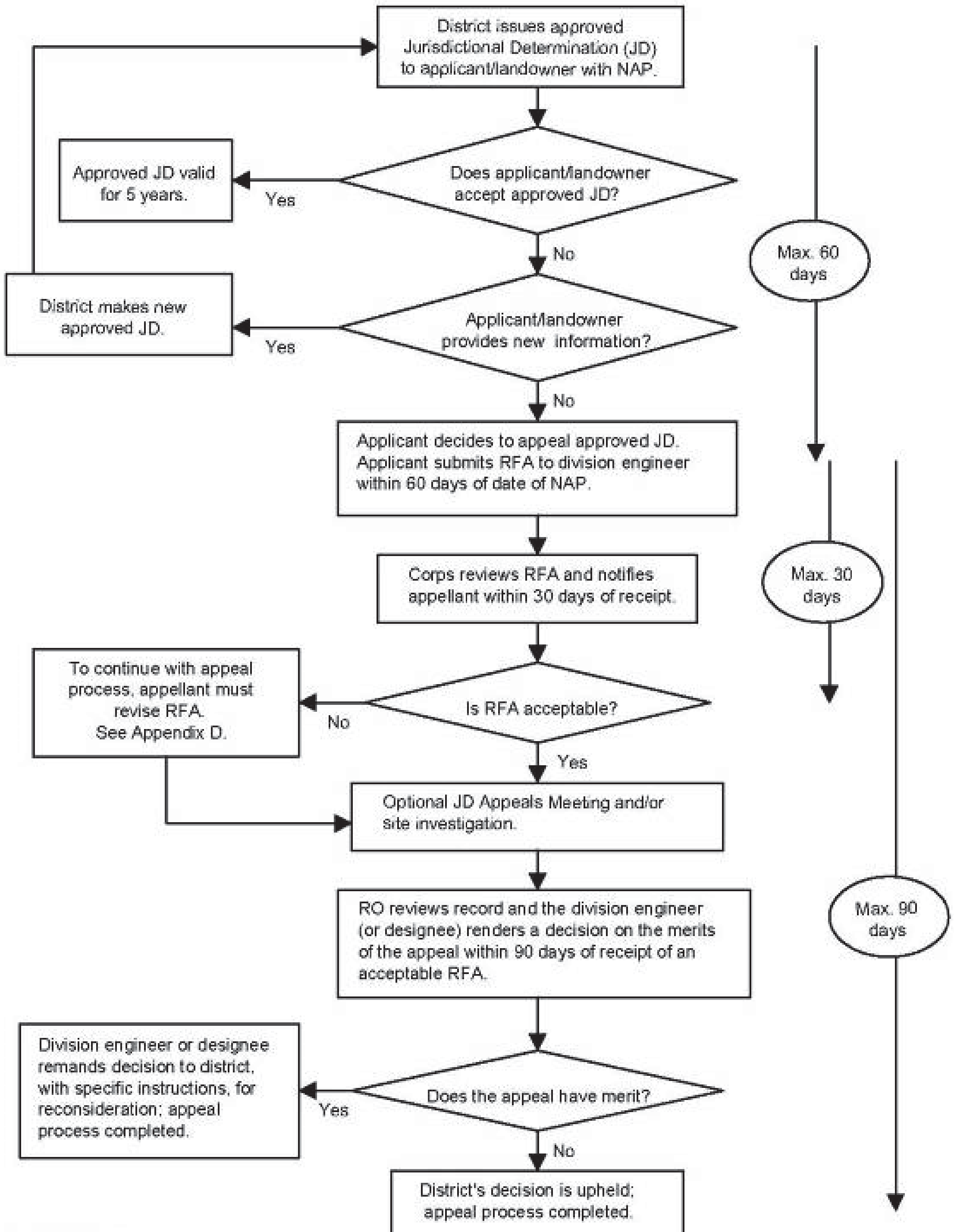
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer (address on reverse). This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT
REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)
ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:		
If you have questions regarding this decision and/or the appeal process you may contact: Veronica Li, Senior Project Manager Transportation & Special Projects Branch ATTN: SPL-2010-00945-VCL U.S. Army Corps of Engineers Los Angeles District 915 Wilshire Boulevard, Suite 930 Los Angeles, California 90017-3401 Phone: (213) 452-3292, FAX 916-557-7803 Email: Veronica.C.Li@usace.army.mil	If you only have questions regarding the appeal process you may also contact: Thomas J. Cavanaugh Administrative Appeal Review Officer U.S. Army Corps of Engineers South Pacific Division 1455 Market Street, 2052B San Francisco, California 94103-1399 Phone: 415-503-6574, FAX 415-503-6646) Email: Thomas.J.Cavanaugh@usace.army.mil	
RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.		
Signature of appellant or agent.	Date:	Telephone number:

Administrative Appeal Process for Approved Jurisdictional Determinations



Appendix C

§ 331.5 Criteria.

(a) *Criteria for appeal* —(1) *Submission of RFA.* The appellant must submit a completed RFA (as defined at §331.2) to the appropriate division office in order to appeal an approved JD, a permit denial, or a declined permit. An individual permit that has been signed by the applicant, and subsequently unilaterally modified by the district engineer pursuant to 33 CFR 325.7, may be appealed under this process, provided that the applicant has not started work in waters of the United States authorized by the permit. The RFA must be received by the division engineer within 60 days of the date of the NAP.

(2) *Reasons for appeal.* The reason(s) for requesting an appeal of an approved JD, a permit denial, or a declined permit must be specifically stated in the RFA and must be more than a simple request for appeal because the affected party did not like the approved JD, permit decision, or the permit conditions. Examples of reasons for appeals include, but are not limited to, the following: A procedural error; an incorrect application of law, regulation or officially promulgated policy; omission of material fact; incorrect application of the current regulatory criteria and associated guidance for identifying and delineating wetlands; incorrect application of the Section 404(b)(1) Guidelines (see 40 CFR Part 230); or use of incorrect data. The reasons for appealing a permit denial or a declined permit may include jurisdiction issues, whether or not a previous approved JD was appealed.

(b) *Actions not appealable.* An action or decision is not subject to an administrative appeal under this part if it falls into one or more of the following categories:

(1) An individual permit decision (including a letter of permission or a standard permit with special conditions), where the permit has been accepted and signed by the permittee. By signing the permit, the applicant waives all rights to appeal the terms and conditions of the permit, unless the authorized work has not started in waters of the United States and that issued permit is subsequently modified by the district engineer pursuant to 33 CFR 325.7;

(2) Any site-specific matter that has been the subject of a final decision of the Federal courts;

(3) A final Corps decision that has resulted from additional analysis and evaluation, as directed by a final appeal decision;

(4) A permit denial without prejudice or a declined permit, where the controlling factor cannot be changed by the Corps decision maker (e.g., the requirements of a binding statute, regulation, state Section 401 water quality certification, state coastal zone management disapproval, etc. (See 33 CFR 320.4(j));

(5) A permit denial case where the applicant has subsequently modified the proposed project, because this would constitute an amended application that would require a new public interest review, rather than an appeal of the existing record and decision;

(6) Any request for the appeal of an approved JD, a denied permit, or a declined permit where the RFA has not been received by the division engineer within 60 days of the date of the NAP;

(7) A previously approved JD that has been superceded by another approved JD based on new information or data submitted by the applicant. The new approved JD is an appealable action;

(8) An approved JD associated with an individual permit where the permit has been accepted and signed by the permittee;

(9) A preliminary JD; or

(10) A JD associated with unauthorized activities except as provided in §331.11.

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

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

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): January 27, 2017

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Los Angeles District, California High-Speed Rail, Bakersfield to Palmdale Section, SPL-2010-00945

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: **California** County/parish/borough: **Kern** City:
Center coordinates of site (lat/long in degree decimal format): Lat. **35.341170°**, Long. **-118.856917°**
Universal Transverse Mercator: **11 331249.71 3912460.69**
Name of nearest waterbody: **Kern River**
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: **N/A**
Name of watershed or Hydrologic Unit Code (HUC): **Middle Kern-Upper Tehachapi-Grapevine, 18030003**
☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☒ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form: **Waters within the boundary of the Sacramento District are split into two review areas, waters within the Caliente Creek watershed and waters within the San Joaquin Valley west of Caliente Creek. The projects extends into Los Angeles District and waters within this area are being evaluated separately.**

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

☐ Office (Desk) Determination. Date:
☒ Field Determination. Date(s): **July 18, 2016**

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]

☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are no** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
      ☐ TNWs, including territorial seas
      ☐ Wetlands adjacent to TNWs
      ☐ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
      ☐ Non-RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      ☐ Impoundments of jurisdictional waters
      ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
      Non-wetland waters: linear feet, wide, and/or acres.
      Wetlands: acres.

   c. **Limits (boundaries) of jurisdiction** based on: **Pick List**
      Elevation of established OHWM (if known):

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: **The 2,274-acre review area includes approximately 27.18 acres of waters, consisting of approximately 23.54 acres of basins, 3.30 acres of canals, and 0.34 acre of ditches. The basins and ditches are industrial and agricultural and are not connected to larger irrigation or water circulation systems.**

[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

The 3.30 acres of canals consists of 2.79 acres of the East Side Canal and 0.51 acre of the Arvin Edison Canal. The East Side Canal receives irrigation water from the Kern River while the Arvin Edison Canal receives water from the Friant-Kern Canal. Both canals deliver irrigation water to users southeast of Bakersfield and do not connect any other water bodies. In personal communication with Mark Mulkay, General Manager of the Kern Delta Water District, on January 30, 2017, he confirmed that both canals flow away from the Kern River and do not connect to another water body or conveyance. Both canals would require manual pumping to reverse flows back to the Kern River.

The features within the review area are intrastate isolated waters with no connection to foreign or interstate commerce.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW
Identify TNW:

Summarize rationale supporting determination:

2. Wetland adjacent to TNW
Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

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

(ii) Physical Characteristics:
(a) Relationship with TNW:
☐ Tributary flows directly into TNW.

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

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

Project waters are **Pick List** river miles from TNW.
Project waters are **Pick List** river miles from RPW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Project waters are **Pick List** aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW[5]:
Tributary stream order, if known:

(b) General Tributary Characteristics (check all that apply):
Tributary is: ☐ Natural
☐ Artificial (man-made). Explain:
☐ Manipulated (man-altered). Explain:

Tributary properties with respect to top of bank (estimate):
Average width: feet
Average depth: feet
Average side slopes: **Pick List.**

Primary tributary substrate composition (check all that apply):
☐ Silts ☐ Sands ☐ Concrete
☐ Cobbles ☐ Gravel ☐ Muck
☐ Bedrock ☐ Vegetation. Type/% cover:
☐ Other. Explain:

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain:
Presence of run/riffle/pool complexes. Explain:
Tributary geometry: **Pick List**
Tributary gradient (approximate average slope): %

(c) Flow:
Tributary provides for: **Pick List**
Estimate average number of flow events in review area/year: **Pick List**
Describe flow regime:
Other information on duration and volume:

Surface flow is: **Pick List.** Characteristics:

Subsurface flow: **Pick List**. Explain findings:
☐ Dye (or other) test performed:

Tributary has (check all that apply):
☐ Bed and banks
☐ OHWM[6] (check all indicators that apply):
☐ clear, natural line impressed on the bank ☐ the presence of litter and debris
☐ changes in the character of soil ☐ destruction of terrestrial vegetation
☐ shelving ☐ the presence of wrack line
☐ vegetation matted down, bent, or absent ☐ sediment sorting
☐ leaf litter disturbed or washed away ☐ scour
☐ sediment deposition ☐ multiple observed or predicted flow events
☐ water staining ☐ abrupt change in plant community
☐ other (list):
☐ Discontinuous OHWM.[7] Explain:

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):
☐ High Tide Line indicated by: ☐ Mean High Water Mark indicated by:

[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.
[6] A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
[7] Ibid.

☐ oil or scum line along shore objects ☐ survey to available datum;
☐ fine shell or debris deposits (foreshore) ☐ physical markings;
☐ physical markings/characteristics ☐ vegetation lines/changes in vegetation types.
☐ tidal gauges
☐ other (list):

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain:
Identify specific pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):
☐ Riparian corridor. Characteristics (type, average width):
☐ Wetland fringe. Characteristics:
☐ Habitat for:
  ☐ Federally Listed species. Explain findings:
  ☐ Fish/spawn areas. Explain findings:
  ☐ Other environmentally-sensitive species. Explain findings:
  ☐ Aquatic/wildlife diversity. Explain findings:

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

(i) Physical Characteristics:
(a) General Wetland Characteristics:
Properties:
Wetland size: acres
Wetland type. Explain:
Wetland quality. Explain:
Project wetlands cross or serve as state boundaries. Explain:

(b) General Flow Relationship with Non-TNW:
Flow is: **Pick List**. Explain:

Surface flow is**: Pick List**
Characteristics:

Subsurface flow: **Pick List**. Explain findings:
☐ Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:
☐ Directly abutting
☐ Not directly abutting
  ☐ Discrete wetland hydrologic connection. Explain:
  ☐ Ecological connection. Explain:
  ☐ Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW
Project wetlands are **Pick List** river miles from TNW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Flow is from: **Pick List.**
Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:
Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:
Identify specific pollutants, if known:

(iii) Biological Characteristics. Wetland supports (check all that apply):
☐ Riparian buffer. Characteristics (type, average width):
☐ Vegetation type/percent cover. Explain:
☐ Habitat for:
  ☐ Federally Listed species. Explain findings:
  ☐ Fish/spawn areas. Explain findings:
  ☐ Other environmentally-sensitive species. Explain findings:
  ☐ Aquatic/wildlife diversity. Explain findings:

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List**

Approximately acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   ☐ TNWs: linear feet, wide, Or acres.
   ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
   ☐ Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):
- ☐ Tributary waters: linear feet wide.
- ☐ Other non-wetland waters: acres.
  Identify type(s) of waters:

3. Non-RPWs[8] that flow directly or indirectly into TNWs.

☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):
- ☐ Tributary waters: linear feet, wide.
- ☐ Other non-wetland waters: acres.
  Identify type(s) of waters:

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
- ☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

- ☐ Wetlands directly abutting an RPW where tributaries typically flow “seasonally.” Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

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

☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.[9]

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
- ☐ Demonstrate that impoundment was created from “waters of the U.S.,” or
- ☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- ☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]

- ☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
- ☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- ☐ which are or could be used for industrial purposes by industries in interstate commerce.
- ☐ Interstate isolated waters. Explain:
- ☐ Other factors. Explain:

Identify water body and summarize rationale supporting determination:

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

---

[8]See Footnote # 3.
[9] To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
[10] Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.*

☐ Tributary waters: linear feet, wide.
☐ Other non-wetland waters: acres.
Identify type(s) of waters:
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☒ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☒ Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
☐ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:
☐ Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): acres.
☐ Lakes/ponds: acres. List type of aquatic resource:
☒ Other non-wetland waters: **27.18** acres. List type of aquatic resource: **23.54 acres of basins, 3.30 acres of canals, and 0.34 acre of ditches**
☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet, wide.
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource:
☐ Wetlands: acres.

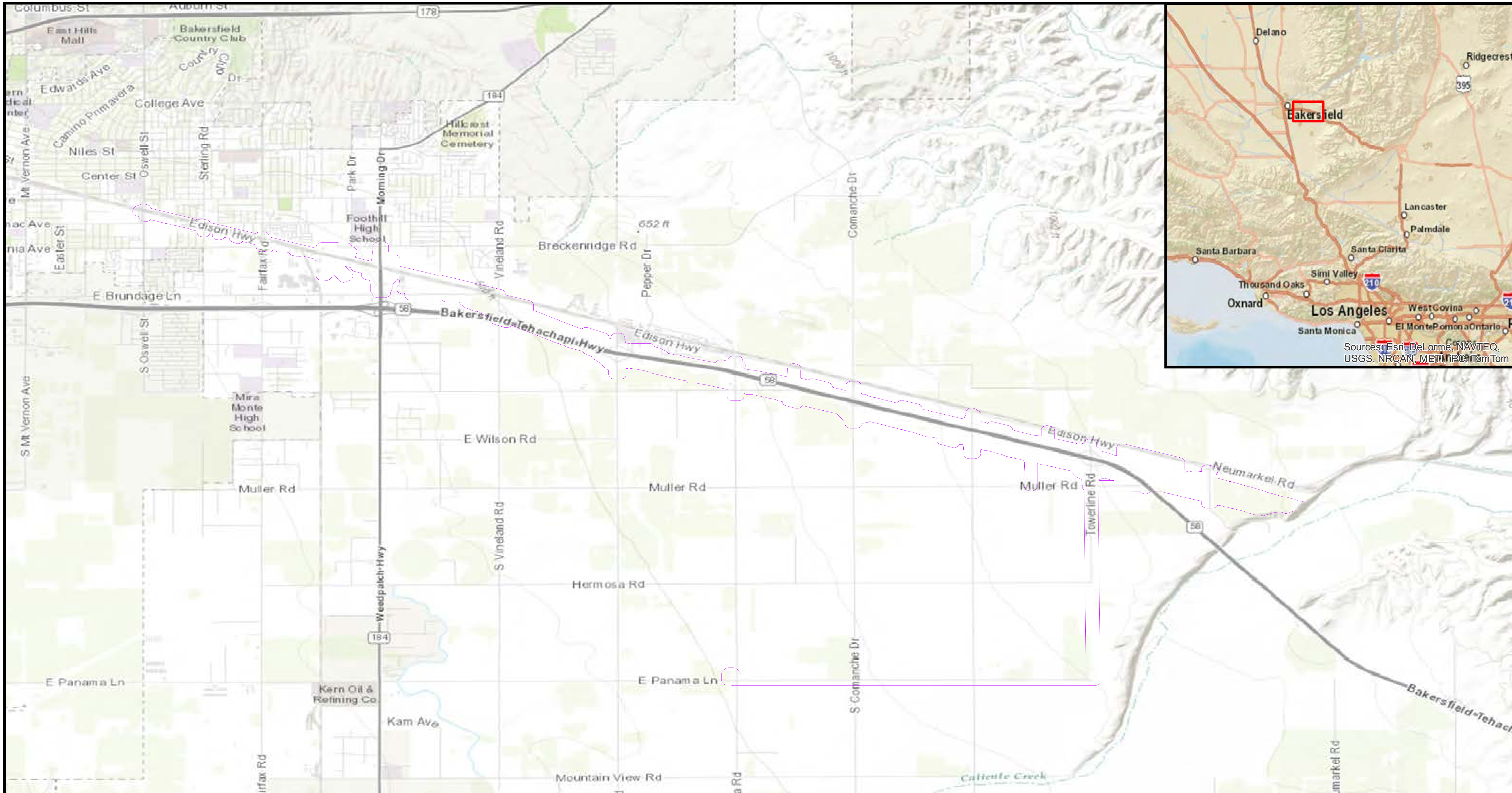
SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: **Appendix E: Jurisdictional Delineation Mabook, Aquatic Resources, Study Area for Bakersfield Palmdale, Sheets 1 through 22 of 171, Dated November 4, 2016**
☐ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps:
☐ Corps navigable waters' study:
☐ U.S. Geological Survey Hydrologic Atlas:
☐ USGS NHD data.
☐ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: **1:24K; CA-Edison, CA-Lamont**
☐ USDA Natural Resources Conservation Service Soil Survey. Citation:
☐ National wetlands inventory map(s). Cite name:
☐ State/Local wetland inventory map(s):
☐ FEMA/FIRM maps:
☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☐ Photographs: ☐ Aerial (Name & Date):
or ☐ Other (Name & Date):
☐ Previous determination(s). File no. and date of response letter:
☐ Applicable/supporting case law:
☐ Applicable/supporting scientific literature:
☒ Other information (please specify): **Personal Communication between Mr. Mark Mulkay, General Manager, Kern Delta Water District, and Mr. Zachary Simmons, Senior Project Manager, USACE, January 30, 2017.**

B. ADDITIONAL COMMENTS TO SUPPORT JD:

See Section II(B)(2)



0 0.2 0.4 0.8 1.2 1.6 Miles

Bakersfield to Palmdale Section
California High-Speed Rail
Kern County, Ca
SPL-2010-945
January 30, 2017

Map Prepared By:
Zachary Simmons
Senior Project Manager
US Army Corps of Engineers
Sacramento District,
Regulatory Division
1325 J Street, Room 1350
Sacramento, California 95814-2922

Legend

Valley Study Area

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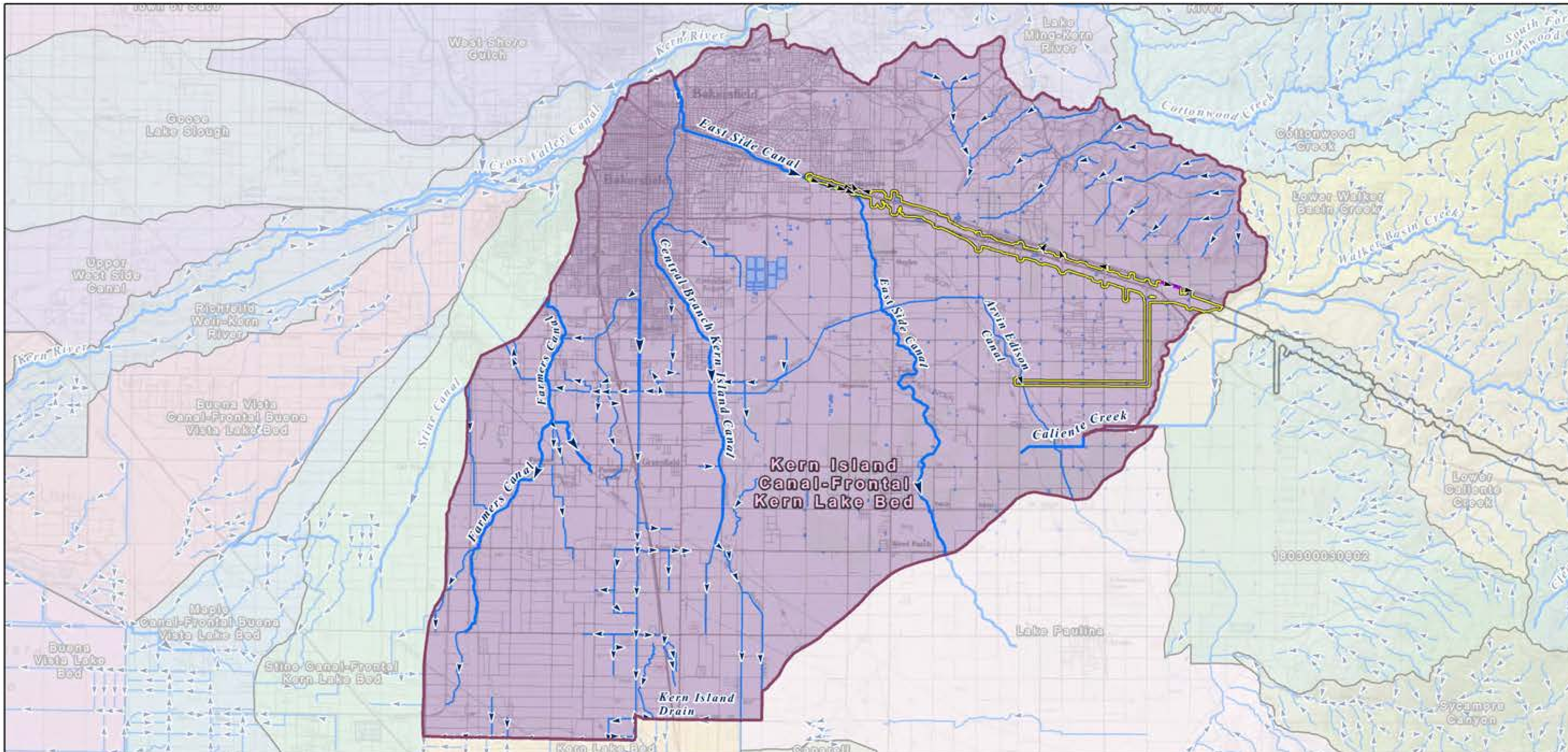
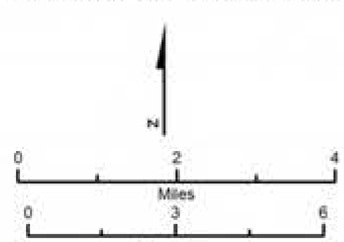
Datum: D_North_American_1983



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 18, 2016

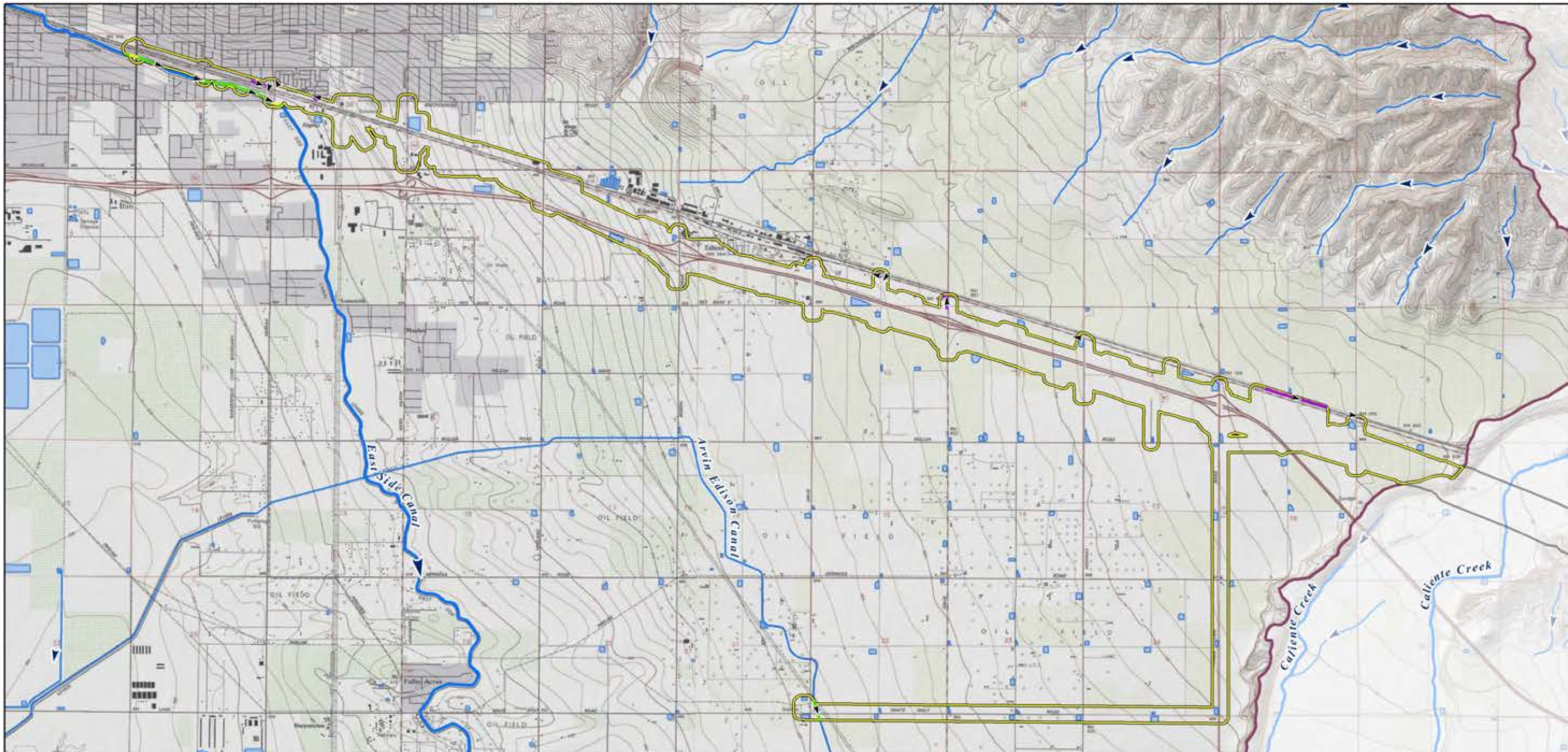


BP HSR Mapped Streams with OHWM in Kern Island Canal-Frontal Kern Lake Bed Watershed Study Area

- Culvert
- Canal
- Ditch

- Study Area in Kern Island Canal-Frontal Kern Lake Bed Watershed
- Kern Island Canal-Frontal Kern Lake Bed HUC-12 Watershed
- Other HUC-12 Watersheds
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- NHD Waterbodies
- Direction of flow based on NHD flowlines

Kern Island Canal-Frontal Kern Lake Bed Watershed Hydrologic Connectivity



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SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 18, 2016

0 0.5 1 Miles
0 1 2 Kilometers

BP HSR Mapped Streams with OHWM in Kern Island Canal-Frontal Kern Lake Bed Watershed Study Area

- Culvert
- Canal
- Ditch

Study Area in Kern Island Canal-Frontal Kern Lake Bed Watershed

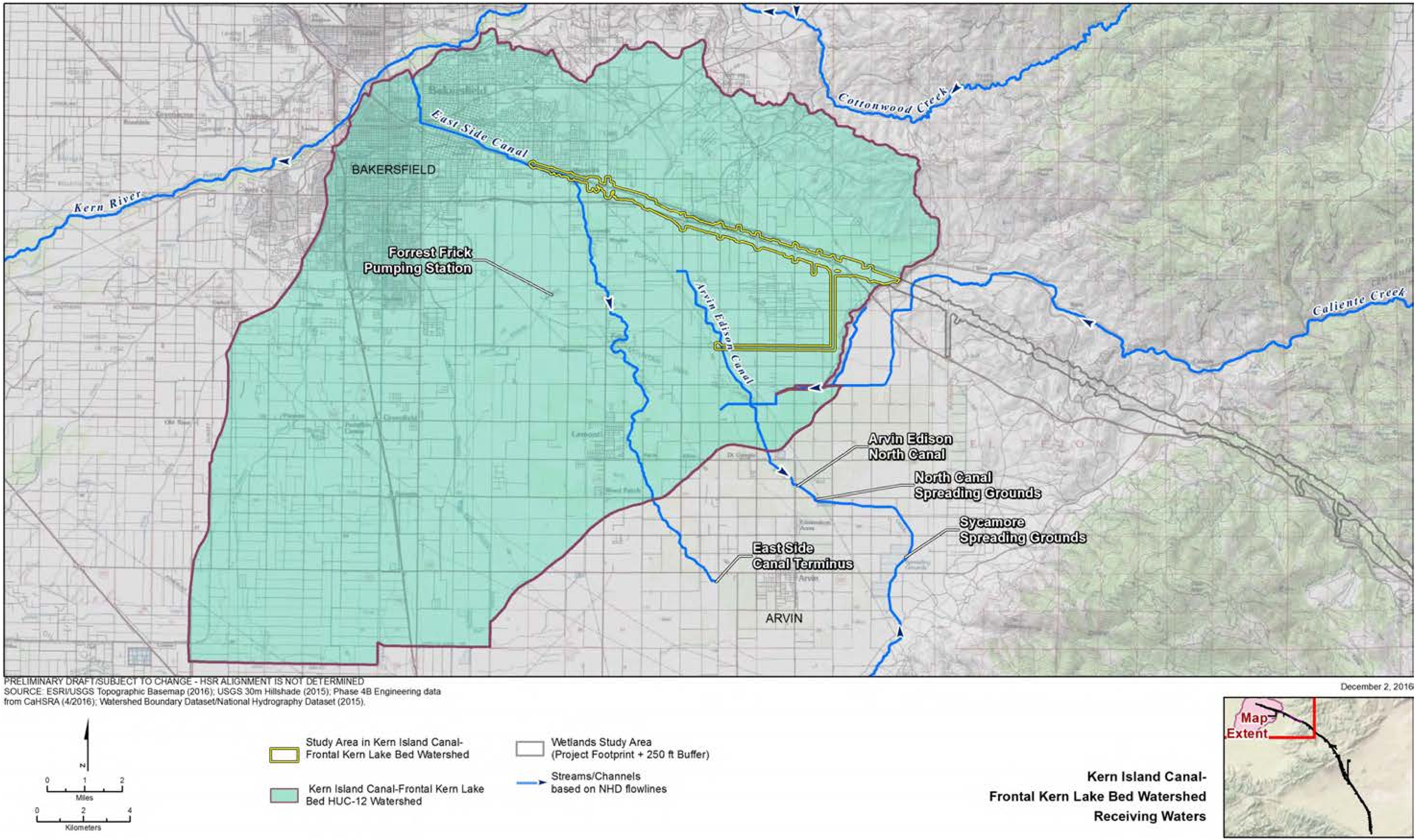
Kern Island Canal-Frontal Kern Lake Bed HUC-12 Watershed

Wetlands Study Area (Project Footprint + 250 ft Buffer)

NHD Waterbodies

Direction of flow based on NHD flowlines

Kern Island Canal-Frontal Kern Lake Bed Watershed Study Area Hydrologic Connectivity



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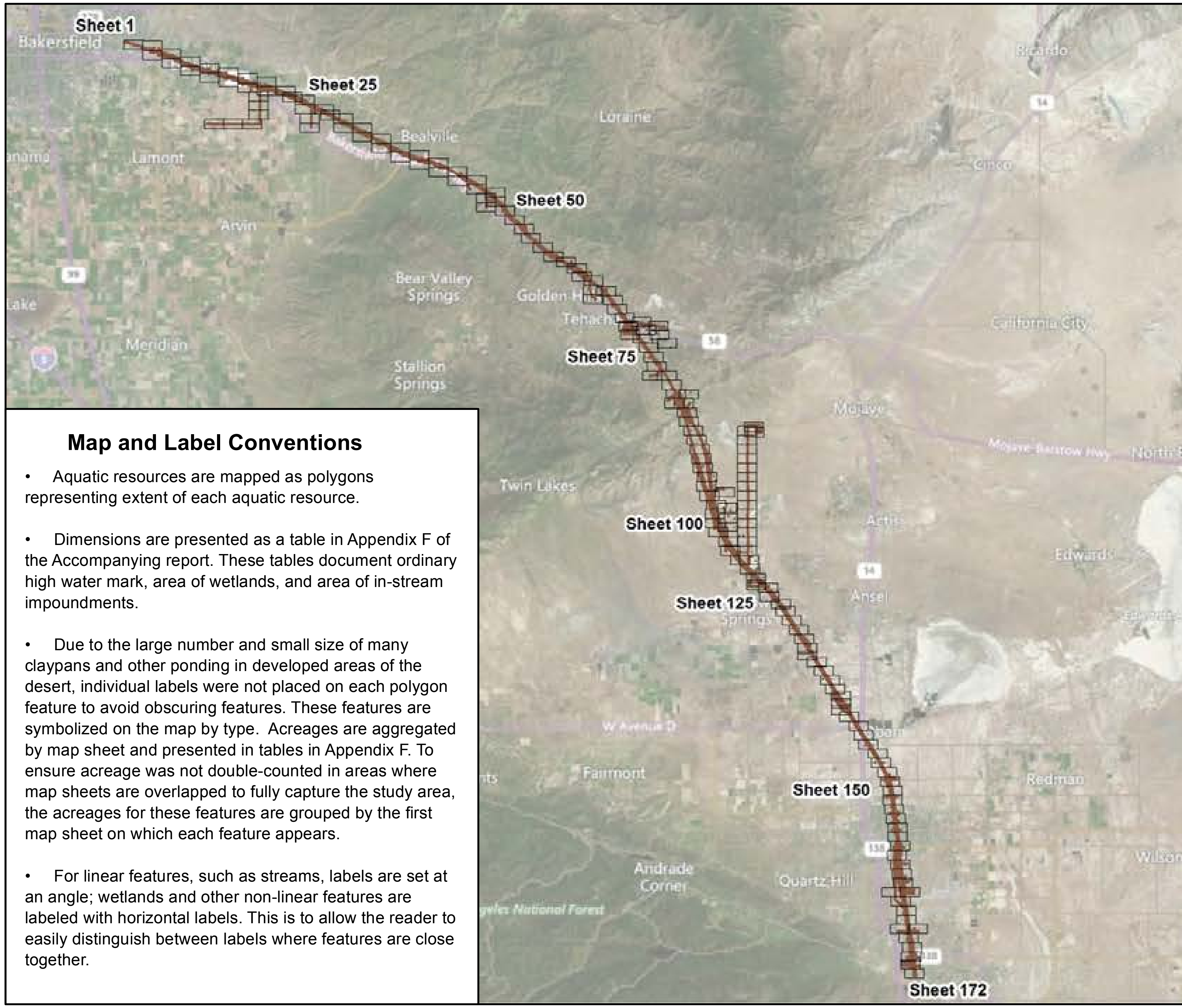
December 2, 2016



Map and Label Conventions

- Aquatic resources are mapped as polygons representing extent of each aquatic resource.
- Dimensions are presented as a table in Appendix F of the Accompanying report. These tables document ordinary high water mark, area of wetlands, and area of in-stream impoundments.
- Due to the large number and small size of many claypans and other ponding in developed areas of the desert, individual labels were not placed on each polygon feature to avoid obscuring features. These features are symbolized on the map by type. Acreages are aggregated by map sheet and presented in tables in Appendix F. To ensure acreage was not double-counted in areas where map sheets are overlapped to fully capture the study area, the acreages for these features are grouped by the first map sheet on which each feature appears.
- For linear features, such as streams, labels are set at an angle; wetlands and other non-linear features are labeled with horizontal labels. This is to allow the reader to easily distinguish between labels where features are close together.

Acreage Summary: Potentially Jurisdictional Waters in the Aquatic Resources Study Area [a]

Feature Type		Cowardin Classification	Extent of features to OHWM or edge of Wetland Acres[b]	Expected Jurisdictional Status[c]
Seasonal wetland		Palustrine emergent	4.05	Non-jurisdictional due to isolation as intrastate isolated waters, with no apparent interstate or foreign commerce connection (33 CFR 328.3 (a)(3)
Forested wetland		Palustrine forested Palustrine scrub-shrub	2.76	
Claypans and Desert Ponded Areas	Natural Claypans	Palustrine unconsolidated bottom Palustrine emergent	13.69	
	Ponding in Desert Developed Areas	Palustrine unconsolidated bottom	1.98	
Streams and Washes	Ephemeral Streams	Riverine unconsolidated bottom Palustrine scrub-shrub	21.36	
	Desert Wash	Riverine unconsolidated bottom	15.89	
	Intermittent Streams	Riverine unconsolidated bottom Palustrine forested Palustrine scrub-shrub	13.39	
	Perennial Streams	Riverine unconsolidated bottom Palustrine forested Palustrine scrub-shrub	0.80	
In-stream impoundments		Palustrine unconsolidated bottom Palustrine emergent	0.71	
Total Extent of Features that are Non-jurisdictional due to Isolation			**74.63 acres**	
Artificial Watercourse – canals		(Riverine unconsolidated bottom)	3.30	Non-jurisdictional – artificial features constructed in uplands, and the features are non-navigable, intrastate isolated waters with no apparent interstate or foreign commerce connection (33 CFR 328.3 (a)(3)
Artificial Watercourse – ditches		(Riverine unconsolidated bottom)	5.60	
Artificial Watercourse – detention/retention basins		Palustrine unconsolidated bottom Palustrine emergent	53.43	
Total Extent of Features that are Non-jurisdictional – artificial features constructed in uplands			**62.33 acres**	
Total Extent of features to OHWM /edge of Wetland			**136.96 acres**	

[a] The ARSA includes linear and auxiliary project construction features (i.e., traction power substations, switching stations, paralleling stations, road overcrossings, heavy maintenance facilities), operations and maintenance facilities and access points, temporary disturbance areas associated with construction, plus a 250-foot buffer

[b] Acreage values are calculated in the ARSA. Acreage totals are derived from raw GIS data, and as a result, they may not exactly equal the sum of the rounded values presented in the table.

[c] Subject to USACE and US EPA concurrence with findings of this report.

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Phase 4B Engineering data from CHSR (4/2016); BLM (3/2016).

N

0 4 8 Miles

0 6 12 Kilometers

Atlas Sheet Index

Aquatic Resources Study Area (Project Footprint +250ft Buffer)

Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED

SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400 Feet

0 60 120 Meters

1 inch = 400 feet

Ditch
Canal
Basin
Culvert Connection
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale

November 3, 2016

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SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400 Feet

0 60 120 Meters

1 inch = 400 feet

- Ditch
- Canal
- Basin
- Culvert Connection
- Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
- Elevation Contour

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Aquatic Resources

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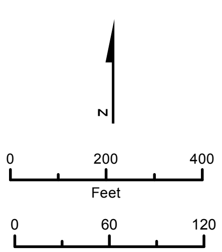

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Basin
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

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Aquatic Resources

Study Area for Bakersfield to Palmdale

November 3, 2016

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Basin
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Elevation Contour

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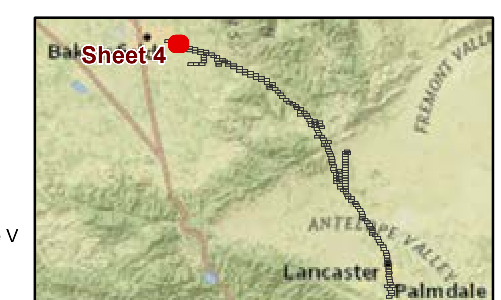
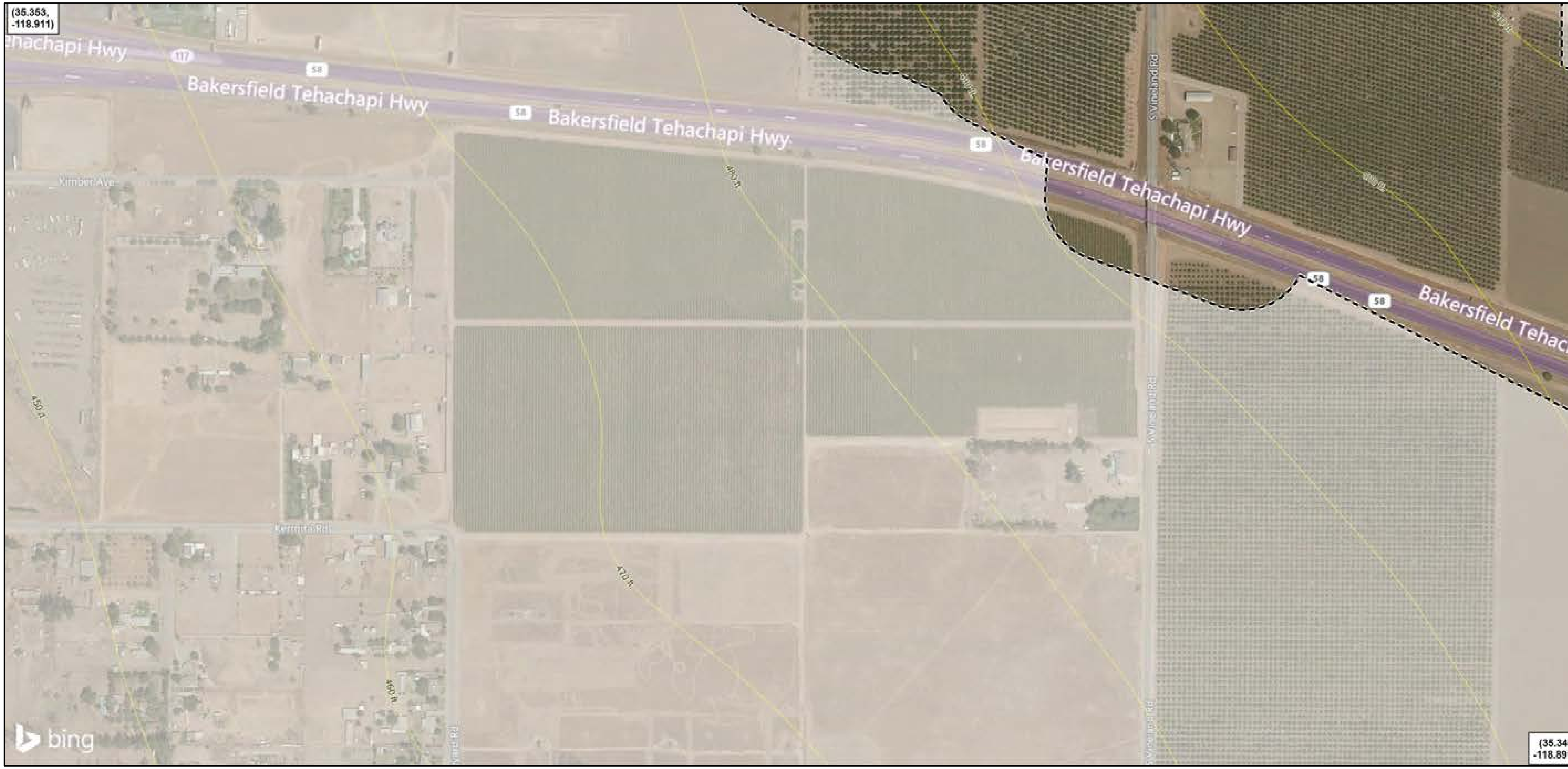


Aquatic Resources

Study Area for Bakersfield to Palmdale



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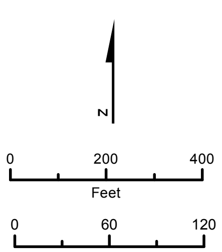

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Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

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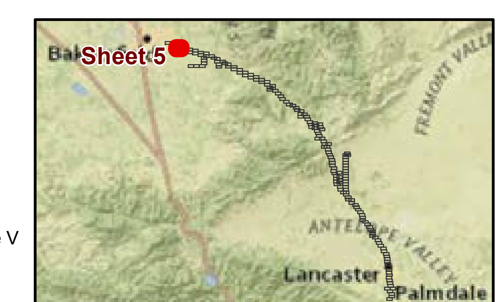

Aquatic Resources

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N
0 200 400 Feet
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Basin
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
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Basin

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N

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Ditch
Basin
Culvert Connection
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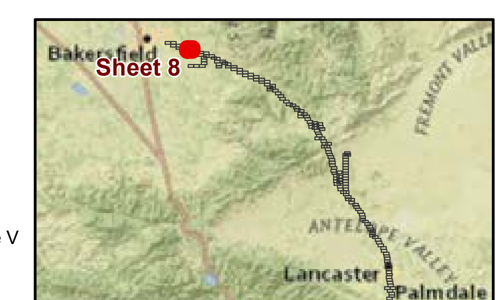

Aquatic Resources

Study Area for Bakersfield to Palmdale

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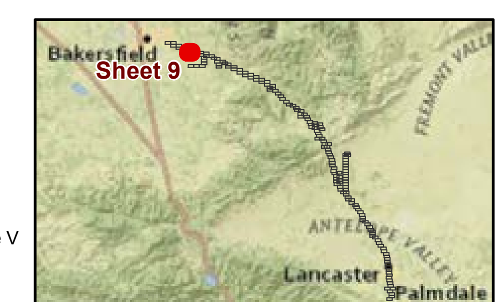
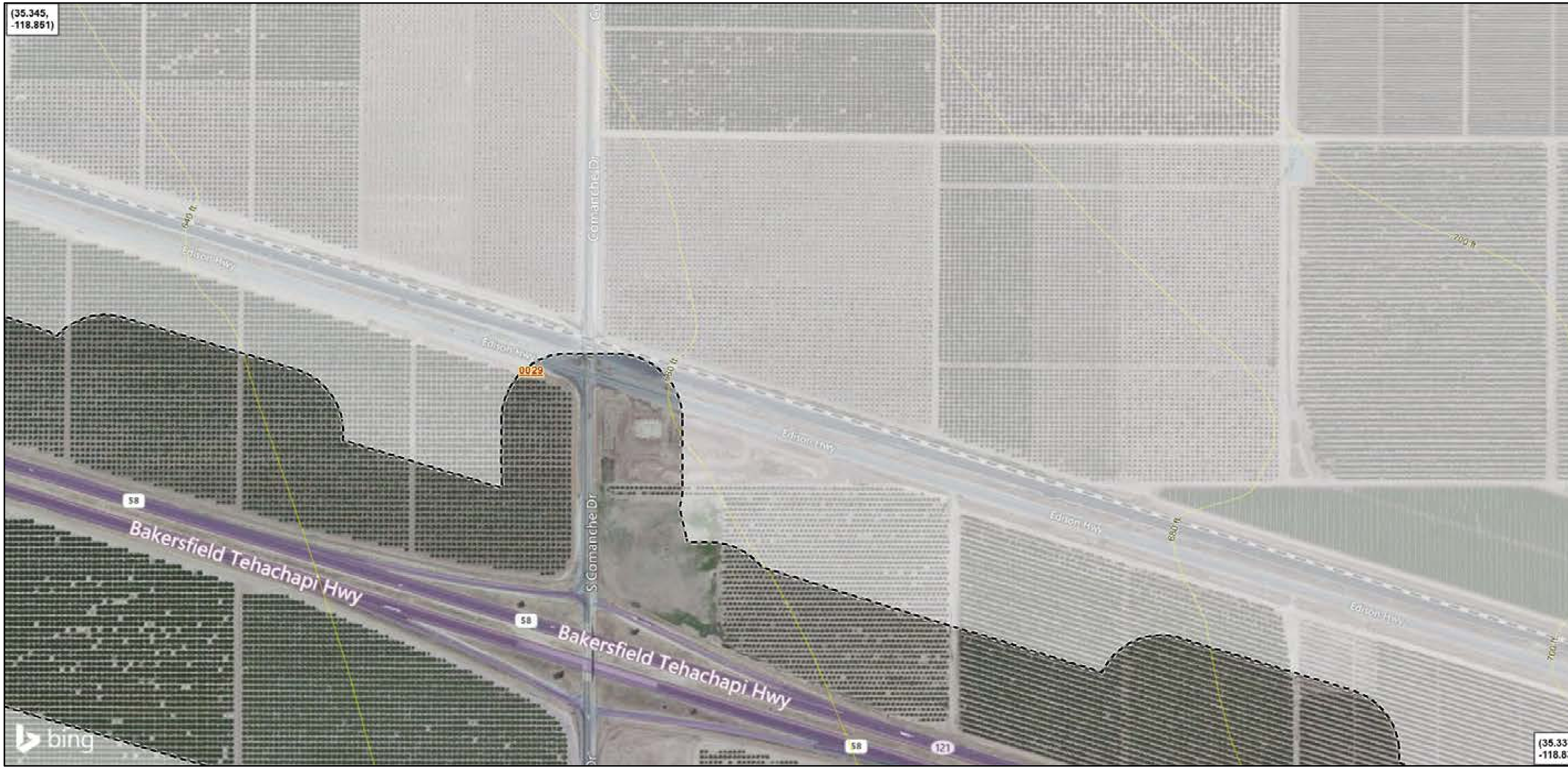


Aquatic Resources

Study Area for Bakersfield to Palmdale



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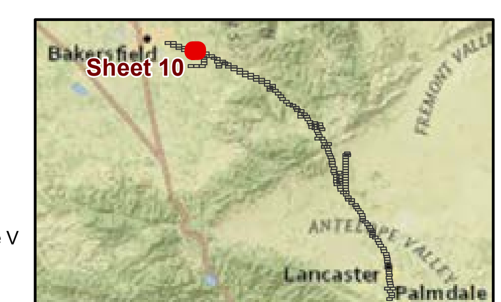
1 inch = 400 feet

Ditch
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400
Feet

0 60 120
Meters

1 inch = 400 feet

Basin

Aquatic Resources Study Area (Project Footprint +250 ft Buffer)

Elevation Contour

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Coordinate System: NAD 1983 California State Plane V
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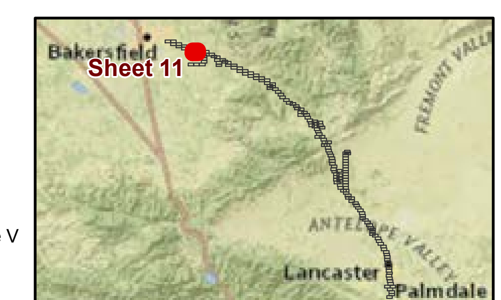
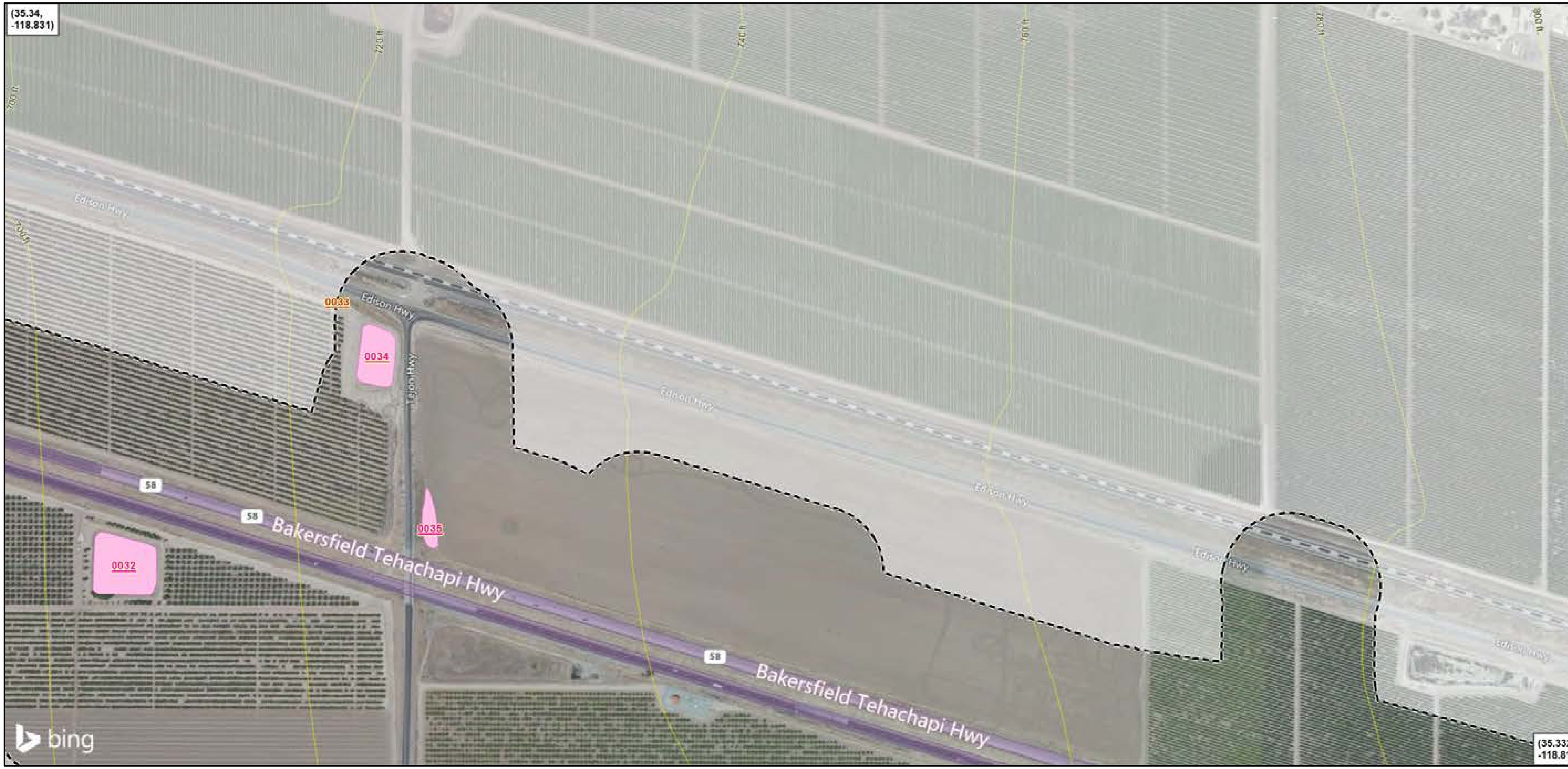
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400 Feet

0 60 120 Meters

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Ditch
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Elevation Contour

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Aquatic Resources

Study Area for Bakersfield to Palmdale

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SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400
Feet
0 60 120
Meters
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Basin
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

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Aquatic Resources

Study Area for Bakersfield to Palmdale

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SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

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Ditch
Basin
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

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Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale

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SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

Basin
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

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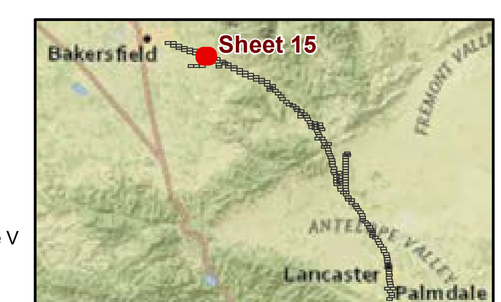
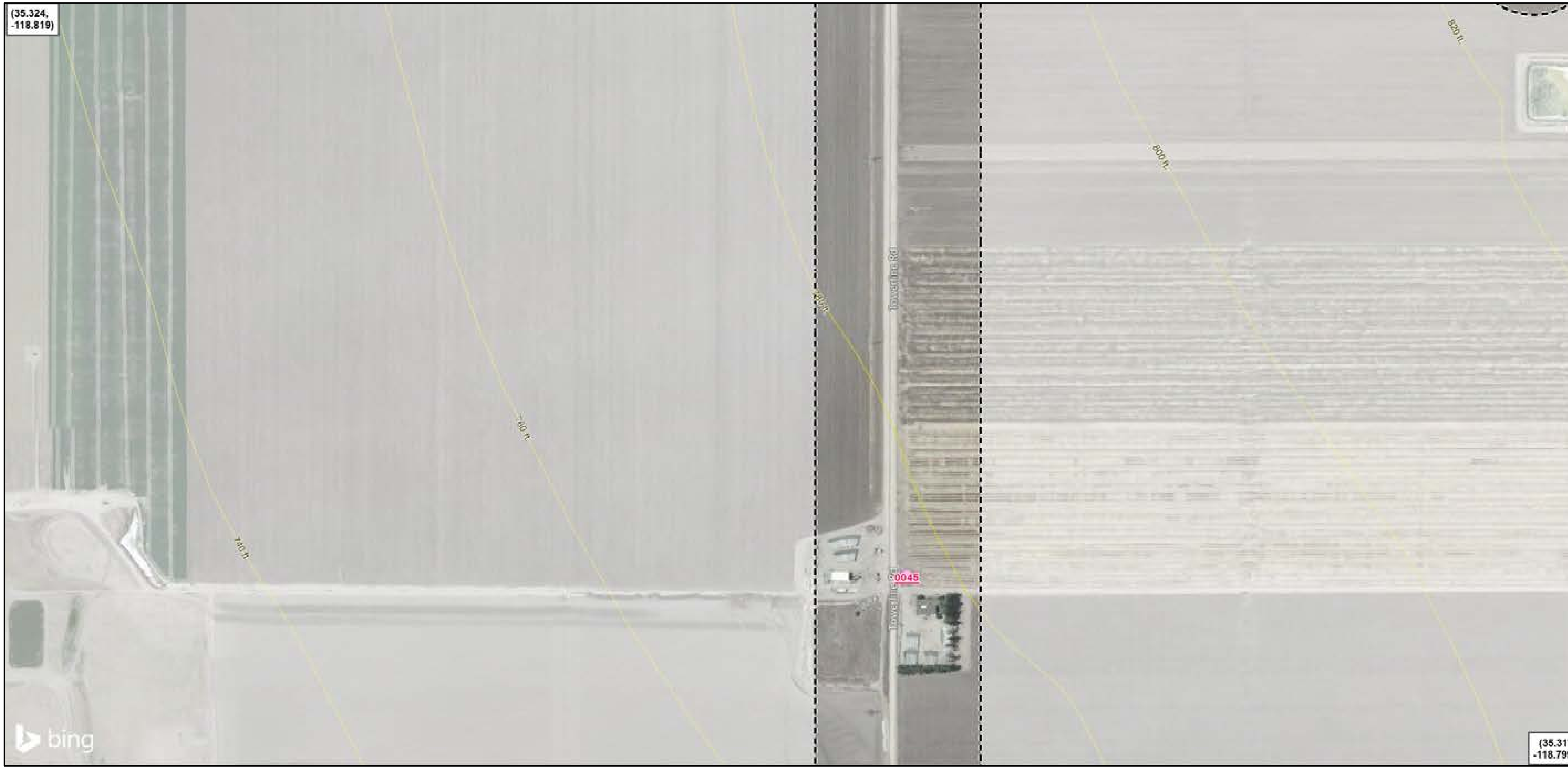
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400
Feet

0 60 120
Meters

1 inch = 400 feet

Basin

Aquatic Resources Study Area
(Project Footprint +250 ft Buffer)

Elevation Contour

Made in accordance with the
Updated Map and Drawing Standards for the
South Pacific Division Regulatory Program,
as amended on September 10, 2016.

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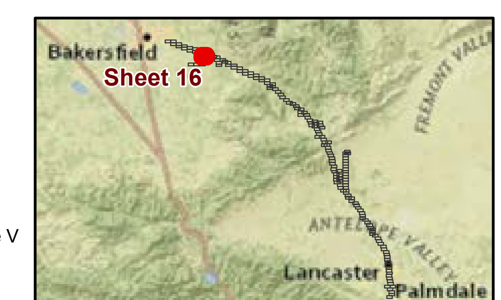
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400
Feet

0 60 120
Meters

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Basin

Aquatic Resources Study Area (Project Footprint +250 ft Buffer)

Elevation Contour

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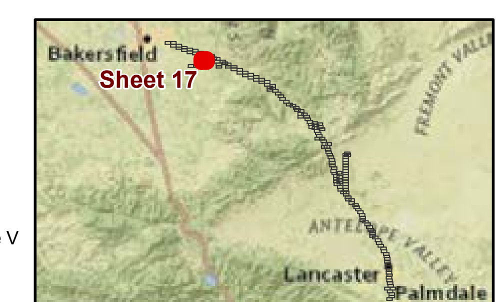
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

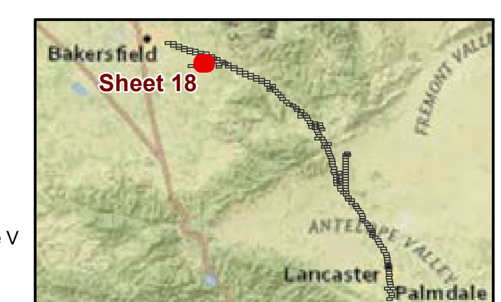
N

0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

Basin
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400 Feet

0 60 120 Meters

1 inch = 400 feet

Basin

Aquatic Resources Study Area (Project Footprint +250 ft Buffer)

Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

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Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

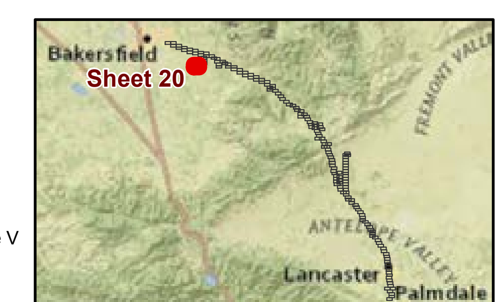
N

0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

Basin
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale

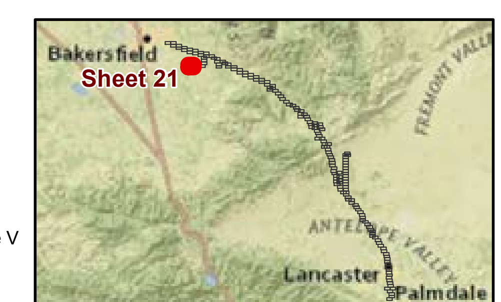
PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

Canal
Basin
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400
Feet
0 60 120
Meters
1 inch = 400 feet

Ditch
Basin
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

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Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale

Table F-1 Jurisdictional Delineation Dimensions

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
1	Basin	perennial - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0001	0.008	1	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
2	Canal	perennial	n/a	n/a	n/a	30	EastSideCanal_0002-001	0.09	1, 2	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
							EastSideCanal_0002-002	0.22		
							EastSideCanal_0002-003	1.35		
							EastSideCanal_0002-004	0.17		
							EastSideCanal_0002-005	0.19		
							EastSideCanal_0002-006	0.66		
							EastSideCanal_0002-007	0.11		
3	Ditch	ephemeral	n/a	n/a	n/a	1	Ditch_0003	0.02	1	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
4	Ditch	ephemeral	n/a	n/a	n/a	2	Ditch_0004	0.01	1, 2	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
5	Basin	intermittent - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0005	0.82	2	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
6	Ditch	ephemeral	n/a	n/a	n/a	6	Ditch_0006	0.04	2	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
7	Basin	intermittent - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0007	3.47	2, 3	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
8	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Industrial_0008	0.81	3	Kern Island Canal-Frontal Kern Lake Bed (HUC12)

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
9	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Industrial_0009	0.67	3	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
10	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Industrial_0010	0.36	3	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
11	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Industrial_0011	0.28	3	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
12	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Industrial_0012	0.3	3	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
13	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Industrial_0013	0.33	3	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
14	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Industrial_0014	0.23	3	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
15	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Industrial_0015	0.09	3	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
16	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0016	0.05	3	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
17	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0017	0.01	3	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
18	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0018	0.04	3	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
19	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0019	0.05	3	Kern Island Canal-Frontal Kern Lake Bed (HUC12)

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
20	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0020	0.005	3	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
21	Basin	intermittent - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0021	0.12	4	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
22	Basin	perennial	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0022	0.08	4	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
23	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0023	0.05	6	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
24	Basin	intermittent - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0024	1.15	6	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
25	Basin	intermittent - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0025	0.89	6, 7	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
26	Basin	perennial - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0026	0.65	8	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
27	Basin	perennial - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0027	0.04	8	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
28	Ditch	ephemeral	n/a	n/a	n/a	1	Ditch_0028-001	0.001	8	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
							Ditch_0028-002	0.0008		
29	Ditch	ephemeral	n/a	n/a	n/a	1	Ditch_0029-001	0.01	8, 10	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
							Ditch_0029-002	0.006		
							Ditch_0029-003	0.007		
30	Basin	perennial	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0030	0.33	9	Kern Island Canal-Frontal Kern Lake Bed (HUC12)

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
31	Basin	intermittent - artificial	Palustrine unconsolidated bottom	PUB	n/a	--	Basin_0031	0.03	11	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
32	Basin	perennial - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0032	1.15	12	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
33	Ditch	intermittent	n/a	n/a	n/a	2	Ditch_0033	0.003	12	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
34	Basin	perennial - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0034	0.65	12	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
35	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0035	0.22	12	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
36	Basin	intermittent - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0036	0.23	13	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
37	Basin	perennial - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0037	1.7	14	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
38	Basin	perennial - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0038	0.52	14	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
39	Basin	perennial - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0039	0.02	14	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
40	Ditch	intermittent	n/a	n/a	n/a	4	Ditch_0040-001	0.23	14, 15, 22	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
							Ditch_0040-002	0.008		
41	Basin	perennial	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0041	0.21	15	Kern Island Canal-Frontal Kern Lake Bed (HUC12)

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
42	Basin	intermittent - artificial	Palustrine unconsolidated bottom	PUB	n/a	--	Basin_0042	0.04	15	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
43	Basin	perennial - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0043	0.96	15, 22	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
44	Basin	intermittent - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0044	0.66	15, 22	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
45	Basin	intermittent - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0045	0.05	16	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
46	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0046	0.06	17	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
47	Basin	perennial	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0047	0.63	18	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
48	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0048	0.12	19	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
49	Basin	intermittent - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0049	1.57	19	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
50	Basin	perennial	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0050	0.7	19	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
51	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0051	0.31	20	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
52	Basin	perennial	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0052	0.5	20	Kern Island Canal-Frontal Kern Lake Bed (HUC12)

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
53	Basin	intermittent - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0053	0.18	20	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
54	Basin	intermittent - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0054	0.68	20	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
55	Basin	intermittent - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0055	0.68	21	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
56	Canal	perennial	n/a	n/a	n/a	30	ArvinEdisonCanal_0056-001	0.17	21	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
							ArvinEdisonCanal_0056-002	0.34		
57	Basin	intermittent - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0057	0.66	21	Kern Island Canal-Frontal Kern Lake Bed (HUC12)
58	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0058	0.18	21	Kern Island Canal-Frontal Kern Lake Bed (HUC12)

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

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

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): January 27, 2017

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Los Angeles District, California High-Speed Rail, Bakersfield to Palmdale Section, SPL-2010-00945

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: **California** County/parish/borough: **Kern** City:
Center coordinates of site (lat/long in degree decimal format): Lat. **35.245201°**, Long. **-118.577313°**
Universal Transverse Mercator: **11 356492.16 3901375.56**
Name of nearest waterbody: **Caliente Creek**
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: **N/A**
Name of watershed or Hydrologic Unit Code (HUC): **Middle Kern-Upper Tehachapi-Grapevine, 18030003**
☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☒ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form: **Waters within the boundary of the Sacramento District are split into two review areas, waters within the Caliente Creek watershed and waters within the San Joaquin Valley west of Caliente Creek. The projects extends into Los Angeles District and waters within this area are being evaluated separately.**

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

☐ Office (Desk) Determination. Date:
☒ Field Determination. Date(s): **July 18, 2016**

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]

☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are no** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
   ☐ TNWs, including territorial seas
   ☐ Wetlands adjacent to TNWs
   ☐ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
   ☐ Non-RPWs that flow directly or indirectly into TNWs
   ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
   ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
   ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
   ☐ Impoundments of jurisdictional waters
   ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
   Non-wetland waters: linear feet, wide, and/or acres.
   Wetlands: acres.

   c. **Limits (boundaries) of jurisdiction** based on: **Pick List**
   Elevation of established OHWM (if known):

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: **The 4,674-acre review area includes approximately 42.96 acres of waters, consisting of approximately 14.51 acres of basins, 0.71 acre of instream impoundments, 0.02 acre of desert wash, 14.61 acres of ephemeral streams, 11.7 acres of intermittent streams, 0.80 acre of perennial streams, and 0.61 acre of seasonal wetlands. The linear review area parallels and crosses Tehachapi Creek, a tributary to Caliente**

[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

Creek, at multiple locations. Named waterways within the review area include Caliente Creek, Clear Creek, and Tweedy Creek. The remaining features are tributary to these waters.

Tehachapi Creek starts approximately 3.36 miles upstream of the review area and flows parallel to the review area, entering and exiting it multiple times. There is approximately 9.08 acres of Tehachapi Creek within the review area, identified as an intermittent stream. Tehachapi Creek flows approximately 17.17 miles from the point is first crosses the review area to the point where it enters Caliente Creek.

Tweedy Creek starts approximately 8.26 miles upstream of the review area then continues 0.93 miles to Tehachapi Creek. Clear Creek starts approximately 4.41 miles upstream of the review area then continues 2.95 miles to Tehachapi Creek. There are approximately 0.85 acre and 0.80 acre present within the review area respectively. Tweedy Creek was identified as an intermittent stream while Clear Creek was identified as a perennial stream.

Caliente Creek starts approximately 25.74 miles upstream of Tehachapi Creek then continues an additional 10.19 miles to the point where it crosses the review area. Caliente Creek continues 7.20 miles to its terminus at Malaga Road. There is approximately 4.14 acres of Caliente Creek within the review area, identified as an ephemeral stream.

Two approved jurisdictional determinations were made on December 11, 2014 (SPK-2009-00116 and SPK-2014-00236) for waters tributary to Tehachapi Creek and Caliente Creek. Both determinations found Caliente Creek to an intrastate isolated water and non-jurisdictional under Section 404 of the CWA. The conditions within the Caliente Creek watershed have not changed since this determinations were made.

On May 8, 2014, a site visit was conducted to determine whether there is a hydrologic connection from the terminus of Caliente Creek at Malaga Road to wetlands adjacent to East Side Canal. Based on the attached site photographs, there are no ditches along either side of Malaga Road, Mountain View Road, or Edison Road, to convey normal flows from Caliente Creek. In addition, no culverts or pipes were found at the terminus of Caliente Creek with Malaga Road to convey normal flows underground. Based on the enclosed newspaper articles, a storm drain system, including detention basins, have been constructed along Caliente Creek. In addition, as shown on the enclosed FEMA flood maps, during a 100-year flood event, the area surrounding Caliente Creek may be subject to flood depth of 1-3 feet.

The following information regarding the flows through the flood control system and historic floods comes from personal communication with Aaron Leicht, Supervising Engineer Flood/Drainage/Grading, Kern County, on October 29, 2014. In approximately the 10-year event, flood waters reach Malaga Road and split approximately 50/50 to the north and south. Flows follow Malaga Road to north to Mountain View Road and to the south to Panama Road. The flows then turn west along these roads and continue to the East Side Canal. Several detention basins are constructed along the East Side Canal to hold the flood waters. The flood control system is designed to keep flood waters from entering either the Arvin Edison Canal or the East Side Canal due to the sediment load that the flood waters carry. These canals carry irrigation water to the south from the Kern River. Water within these canals does not reach a navigable water. During larger events, such as 1976 and 1983, the flood waters exceeded the capacity of the levees and basins, entering the canals and flooding the towns of Lamont and Arvin. Flood waters eventually drained south west to the Kern Lake bed, a dry terminal lake bed.

Based on the above information, we have determined that Caliente Creek is an intrastate isolated water with no apparent interstate or foreign commerce connection. Therefore, the 42.96 acres of waters within the review area, which are hydrologically connected to Caliente Creek through Tehachapi Creek, are intrastate isolated waters with no interstate or foreign commerce connection and therefore are not currently regulated under Section 404 of the Clean Water Act.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW:

Summarize rationale supporting determination:

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

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

(ii) Physical Characteristics:
(a) Relationship with TNW:
☐ Tributary flows directly into TNW.
☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.
Project waters are **Pick List** river miles from RPW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Project waters are **Pick List** aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW[5]:
Tributary stream order, if known:

(b) General Tributary Characteristics (check all that apply):
Tributary is: ☐ Natural
☐ Artificial (man-made). Explain:
☐ Manipulated (man-altered). Explain:

Tributary properties with respect to top of bank (estimate):
Average width: feet
Average depth: feet
Average side slopes: **Pick List.**

Primary tributary substrate composition (check all that apply):
☐ Silts ☐ Sands ☐ Concrete
☐ Cobbles ☐ Gravel ☐ Muck

[4] Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

☐ Bedrock ☐ Vegetation. Type/% cover:
☐ Other. Explain:

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain:
Presence of run/riffle/pool complexes. Explain:
Tributary geometry: **Pick List**
Tributary gradient (approximate average slope): %

(c) Flow:
Tributary provides for: **Pick List**
Estimate average number of flow events in review area/year: **Pick List**
Describe flow regime:
Other information on duration and volume:

Surface flow is: **Pick List.** Characteristics:

Subsurface flow: **Pick List**. Explain findings:
☐ Dye (or other) test performed:

Tributary has (check all that apply):
☐ Bed and banks
☐ OHWM[6] (check all indicators that apply):
☐ clear, natural line impressed on the bank ☐ the presence of litter and debris
☐ changes in the character of soil ☐ destruction of terrestrial vegetation
☐ shelving ☐ the presence of wrack line
☐ vegetation matted down, bent, or absent ☐ sediment sorting
☐ leaf litter disturbed or washed away ☐ scour
☐ sediment deposition ☐ multiple observed or predicted flow events
☐ water staining ☐ abrupt change in plant community
☐ other (list):
☐ Discontinuous OHWM.[7] Explain:

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):
☐ High Tide Line indicated by: ☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects ☐ survey to available datum;
☐ fine shell or debris deposits (foreshore) ☐ physical markings;
☐ physical markings/characteristics ☐ vegetation lines/changes in vegetation types.
☐ tidal gauges
☐ other (list):

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain:
Identify specific pollutants, if known:

(iv) Biological Characteristics. Channel supports (check all that apply):
☐ Riparian corridor. Characteristics (type, average width):
☐ Wetland fringe. Characteristics:
☐ Habitat for:
☐ Federally Listed species. Explain findings:
☐ Fish/spawn areas. Explain findings:
☐ Other environmentally-sensitive species. Explain findings:
☐ Aquatic/wildlife diversity. Explain findings:

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

(i) Physical Characteristics:
(a) General Wetland Characteristics:
Properties:
Wetland size: acres

[6]A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
[7]Ibid.

Wetland type. Explain:
Wetland quality. Explain:
Project wetlands cross or serve as state boundaries. Explain:

(b) General Flow Relationship with Non-TNW:
Flow is: **Pick List**. Explain:

Surface flow is**: Pick List**
Characteristics:

Subsurface flow: **Pick List**. Explain findings:
☐ Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:
☐ Directly abutting
☐ Not directly abutting
☐ Discrete wetland hydrologic connection. Explain:
☐ Ecological connection. Explain:
☐ Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW
Project wetlands are **Pick List** river miles from TNW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Flow is from: **Pick List.**
Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:
Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:
Identify specific pollutants, if known:

(iii) Biological Characteristics. Wetland supports (check all that apply):
☐ Riparian buffer. Characteristics (type, average width):
☐ Vegetation type/percent cover. Explain:
☐ Habitat for:
☐ Federally Listed species. Explain findings:
☐ Fish/spawn areas. Explain findings:
☐ Other environmentally-sensitive species. Explain findings:
☐ Aquatic/wildlife diversity. Explain findings:

3. Characteristics of all wetlands adjacent to the tributary (if any)
All wetland(s) being considered in the cumulative analysis: **Pick List**
Approximately acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed:

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   ☐ TNWs: linear feet, wide, Or acres.
   ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
   ☐ Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

   Provide estimates for jurisdictional waters in the review area (check all that apply):
   ☐ Tributary waters: linear feet wide.
   ☐ Other non-wetland waters: acres.
   Identify type(s) of waters:

3. **Non-RPWs[8] that flow directly or indirectly into TNWs.**
   ☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

   Provide estimates for jurisdictional waters within the review area (check all that apply):
   ☐ Tributary waters: linear feet, wide.
   ☐ Other non-wetland waters: acres.
   Identify type(s) of waters:

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**
   ☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
   ☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

   ☐ Wetlands directly abutting an RPW where tributaries typically flow “seasonally.” Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

[8]See Footnote # 3.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**
☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**
☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.**[9]
As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
☐ Demonstrate that impoundment was created from “waters of the U.S.,” or
☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]
☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
☐ which are or could be used for industrial purposes by industries in interstate commerce.
☐ Interstate isolated waters. Explain:
☐ Other factors. Explain:

Identify water body and summarize rationale supporting determination:

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet, wide.
☐ Other non-wetland waters: acres.
Identify type(s) of waters:
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☒ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☒ Prior to the Jan 2001 Supreme Court decision in “*SWANCC*,” the review area would have been regulated based solely on the “Migratory Bird Rule” (MBR).
☐ Waters do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction. Explain:
☐ Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
☒ Non-wetland waters (i.e., rivers, streams): **27.13** acres.
☒ Lakes/ponds: **0.71** acres. List type of aquatic resource: **Instream impoundments**
☒ Other non-wetland waters: **14.51** acres. List type of aquatic resource: **Basins and instream impoundments**
☒ Wetlands: **0.61** acres.

[9] To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
[10] Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.*

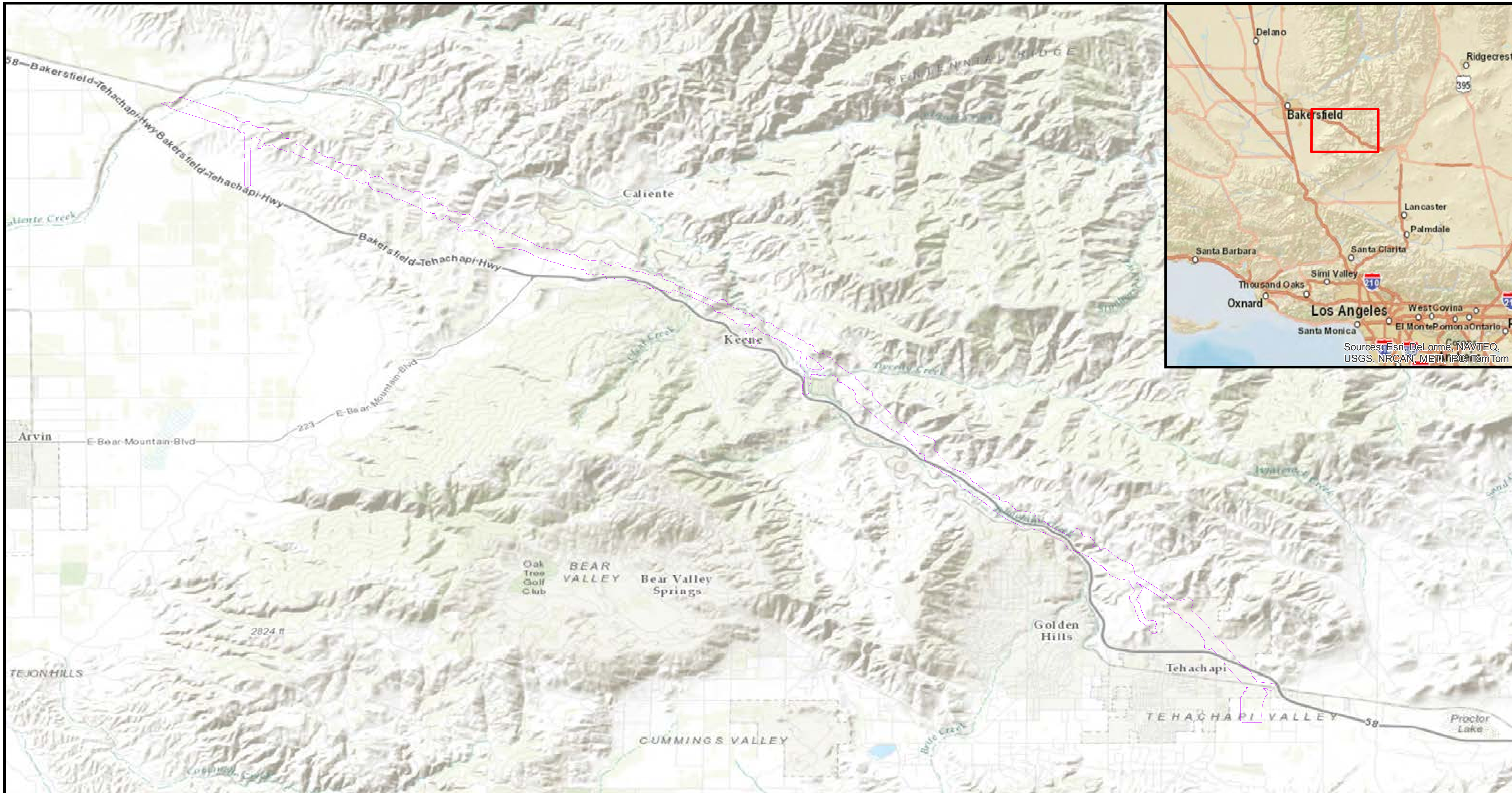
Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet, wide.
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource:
☐ Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: **Appendix E: Jurisdictional Delineation Mabook, Aquatic Resources, Study Area for Bakersfield Palmdale, Sheets 24 through 65, 68, and 72 of 171, Dated November 4, 2016**
☐ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps:
☐ Corps navigable waters' study:
☐ U.S. Geological Survey Hydrologic Atlas:
☐ USGS NHD data.
☐ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: **1:24K; CA-Edison, Bena, Oiler Peak, Keene, and Tehachapi North**
☐ USDA Natural Resources Conservation Service Soil Survey. Citation:
☐ National wetlands inventory map(s). Cite name:
☐ State/Local wetland inventory map(s):
☒ FEMA/FIRM maps: **FIRN Map, Kern County, California, map numbers: 06029C2350E, effective September 26, 2008, and 06029C2325E, effective September 26, 2008**
☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☒ Photographs: ☐ Aerial (Name & Date):
or ☒ Other (Name & Date): **May 8, 2014, site visit photographs taken by Mr. Jamie Robb, USACE**
☒ Previous determination(s). File no. and date of response letter: **SPK-2009-00116, dated December 11, 2014, intrastate isolated determination for an ephemeral drainage tributary to Tehachapi Creek. SPK-2014-00236, dated December 11, 2014, intrastate isolated determination for an ephemeral drainage tributary to Caliente Creek. Both determinations found that Caliente Creek is an intrastate isolated water with the interstate or foreign commerce.**
☐ Applicable/supporting case law:
☐ Applicable/supporting scientific literature:
☒ Other information (please specify): **Newspaper Articles: February 9, 2006, Bakersfield Californian; December 20, 2010, Bakersfield Now; December 21, 2010, Bakersfield Californian.**
Personal Communication between Aaron Leight, Supercising Engineer Flood/Drainage/Grading, Kern County, and Mr. Zachary Simmons, Senior Project Manager, USACE.

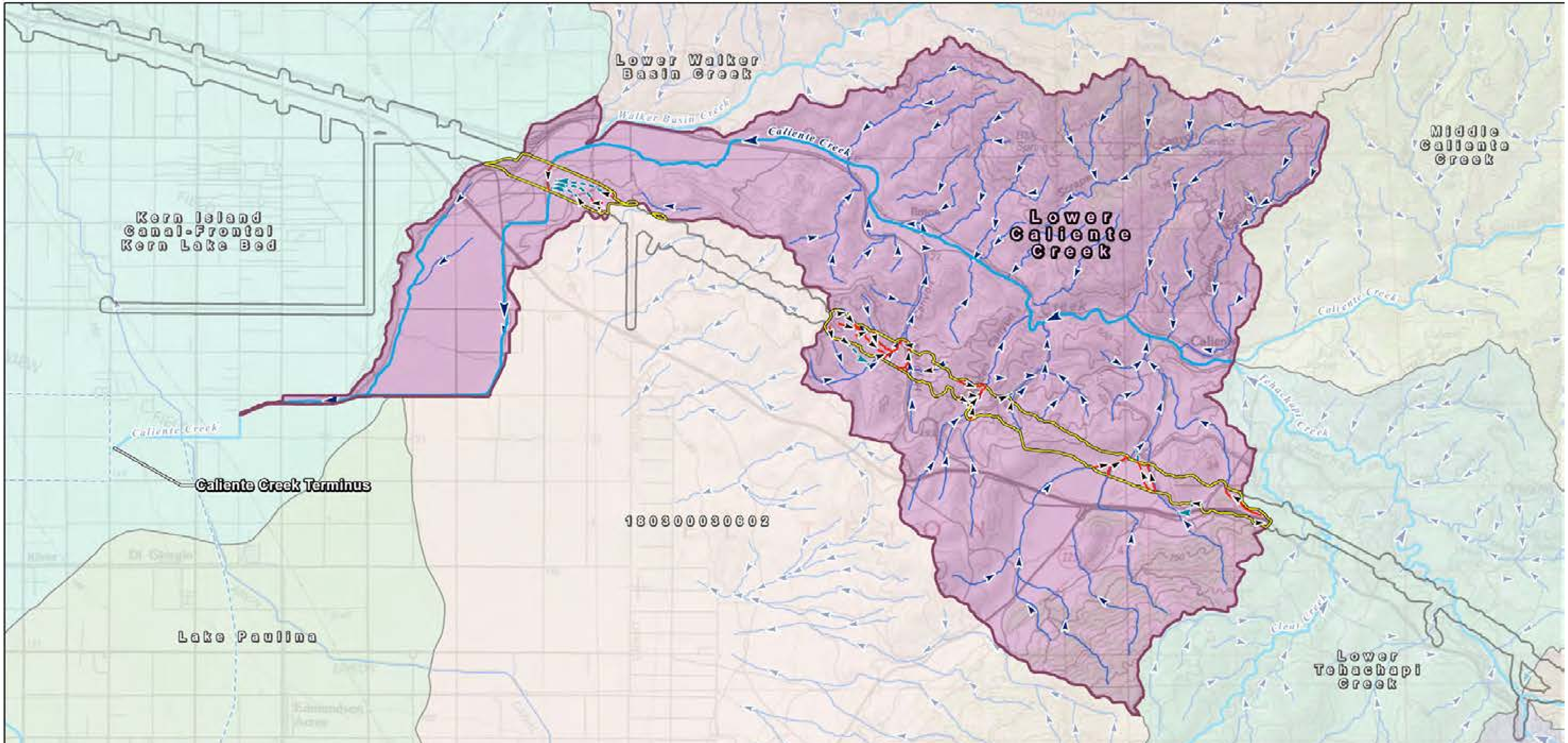
B. ADDITIONAL COMMENTS TO SUPPORT JD:

See Section II(B)(2)



Bakersfield to Palmdale Section
California High-Speed Rail
Kern County, Ca
SPL-2010-945
January 30, 2017

Map Prepared By:
Zachary Simmons
Senior Project Manager
US Army Corps of Engineers
Sacramento District,
Regulatory Division
1325 J Street, Room 1350
Sacramento, California 95814-2922



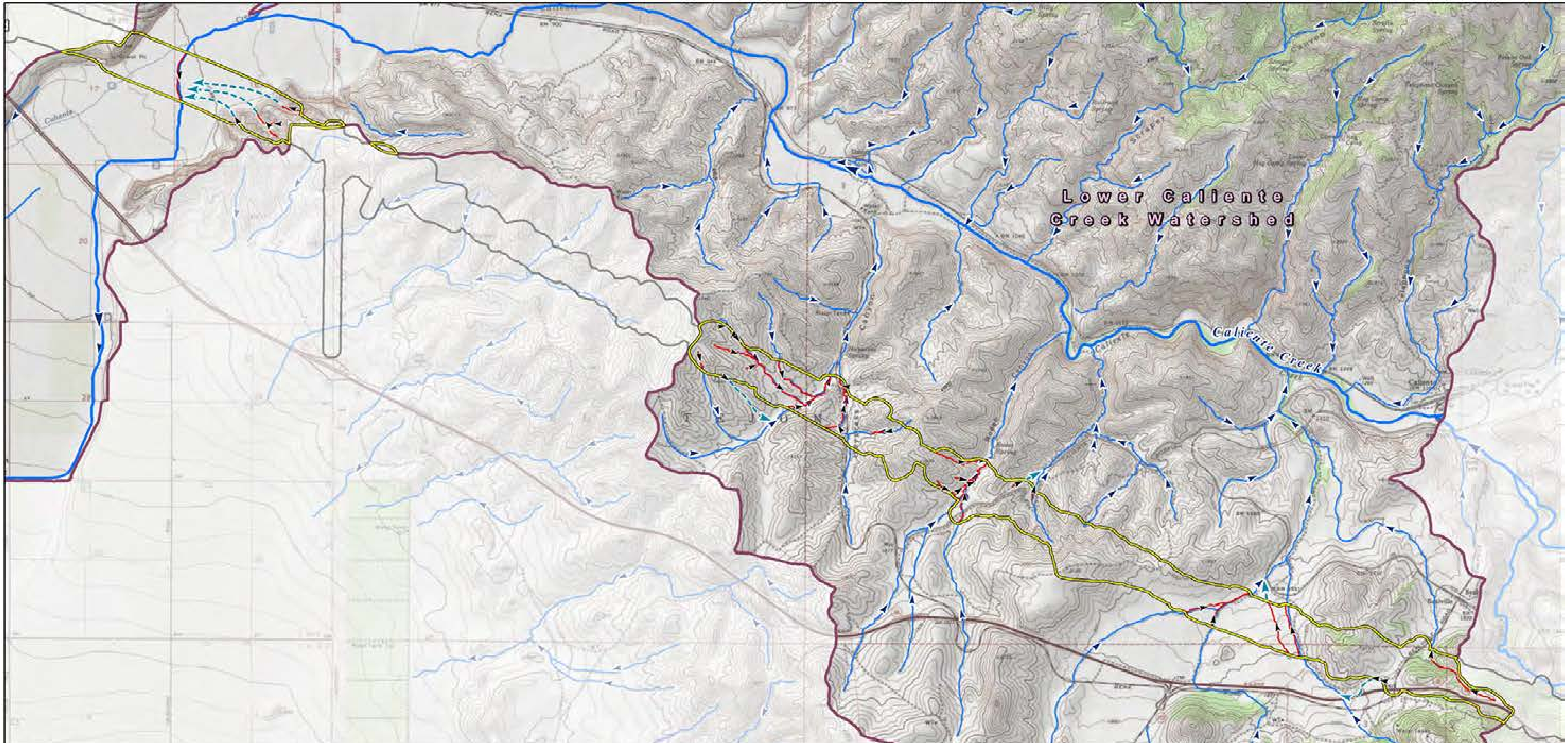
PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 14, 2016

0 0.5 1 Miles
0 1 2 Kilometers

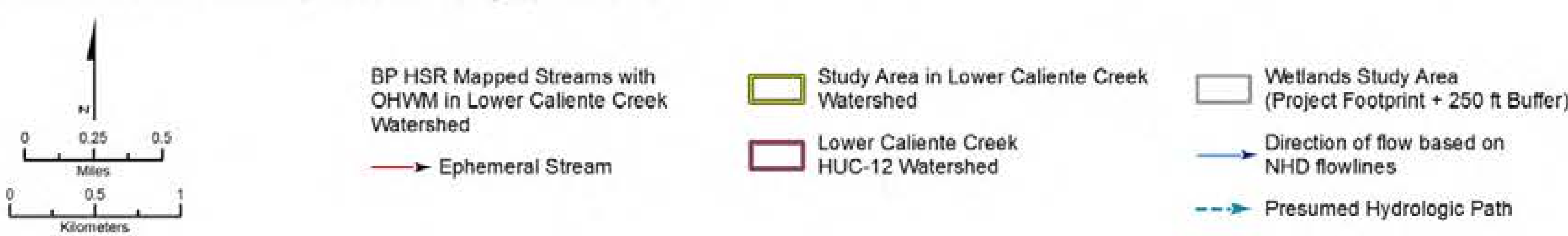
BP HSR Mapped Streams with OHWM in Lower Caliente Creek Watershed
Ephemeral Stream
Study Area in Lower Caliente Creek Watershed
Lower Caliente Creek HUC-12 Watershed
Other HUC-12 Watersheds
Wetlands Study Area (Project Footprint + 250 ft Buffer)
Direction of flow based on NHD flowlines
Presumed Hydrologic Path

Lower Caliente Creek Watershed
Hydrologic Connectivity

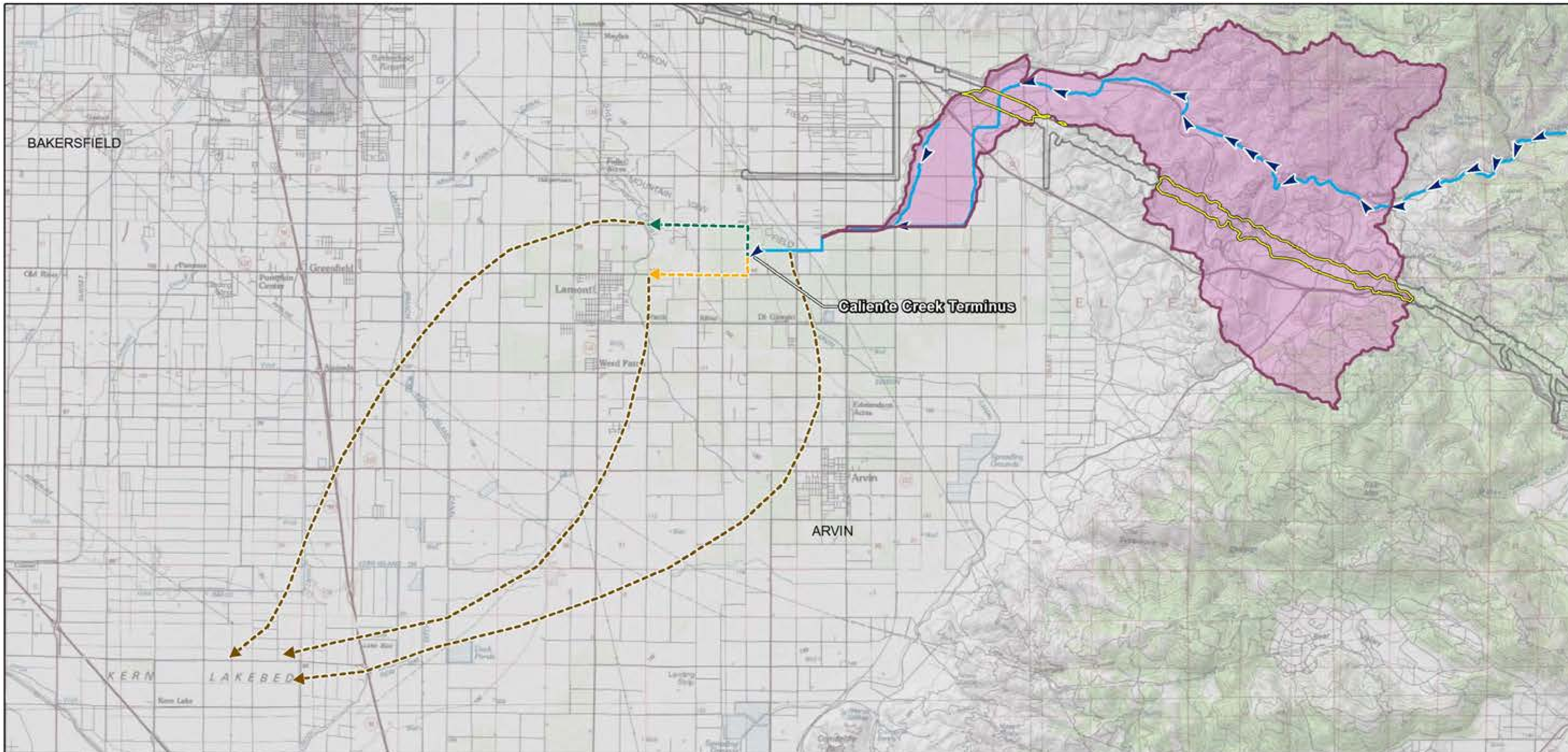


PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 14, 2016

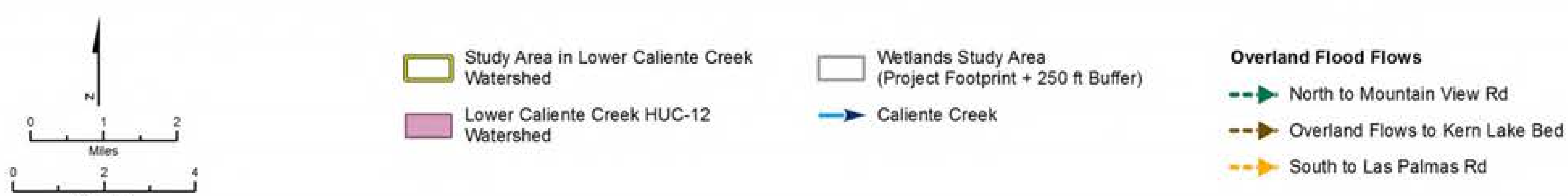


Lower Caliente Creek Watershed Study Area
Hydrologic Connectivity

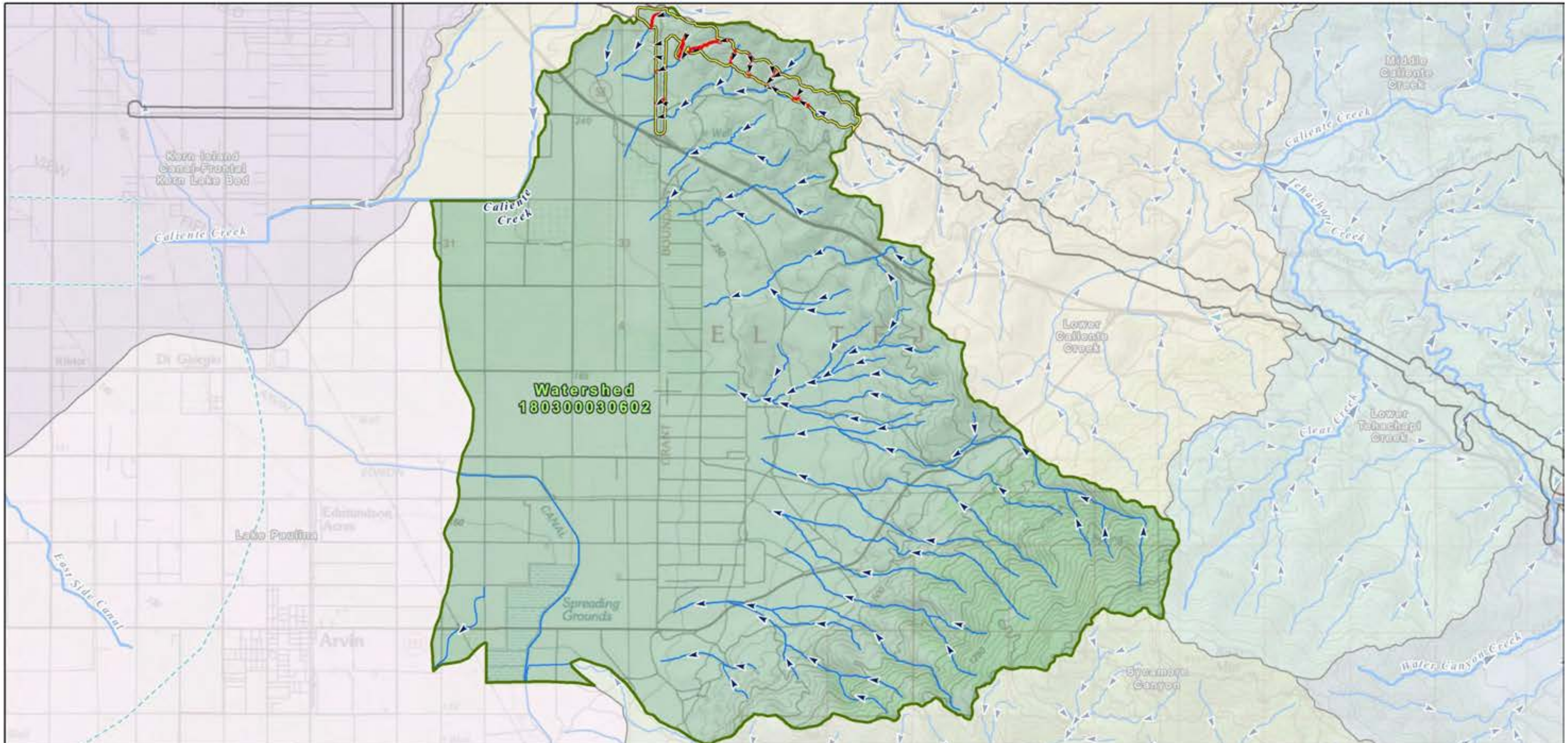


PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

October 21, 2016



Lower Caliente Creek Watershed Receiving Waters



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 16, 2016

BP HSR Mapped Streams with OHWM in Watershed 180300030602 Study Area

Ephemeral Stream

Study Area in Watershed 180300030602

HUC-12 Watershed 180300030602

Other HUC-12 Watersheds

Wetlands Study Area (Project Footprint + 250 ft Buffer)

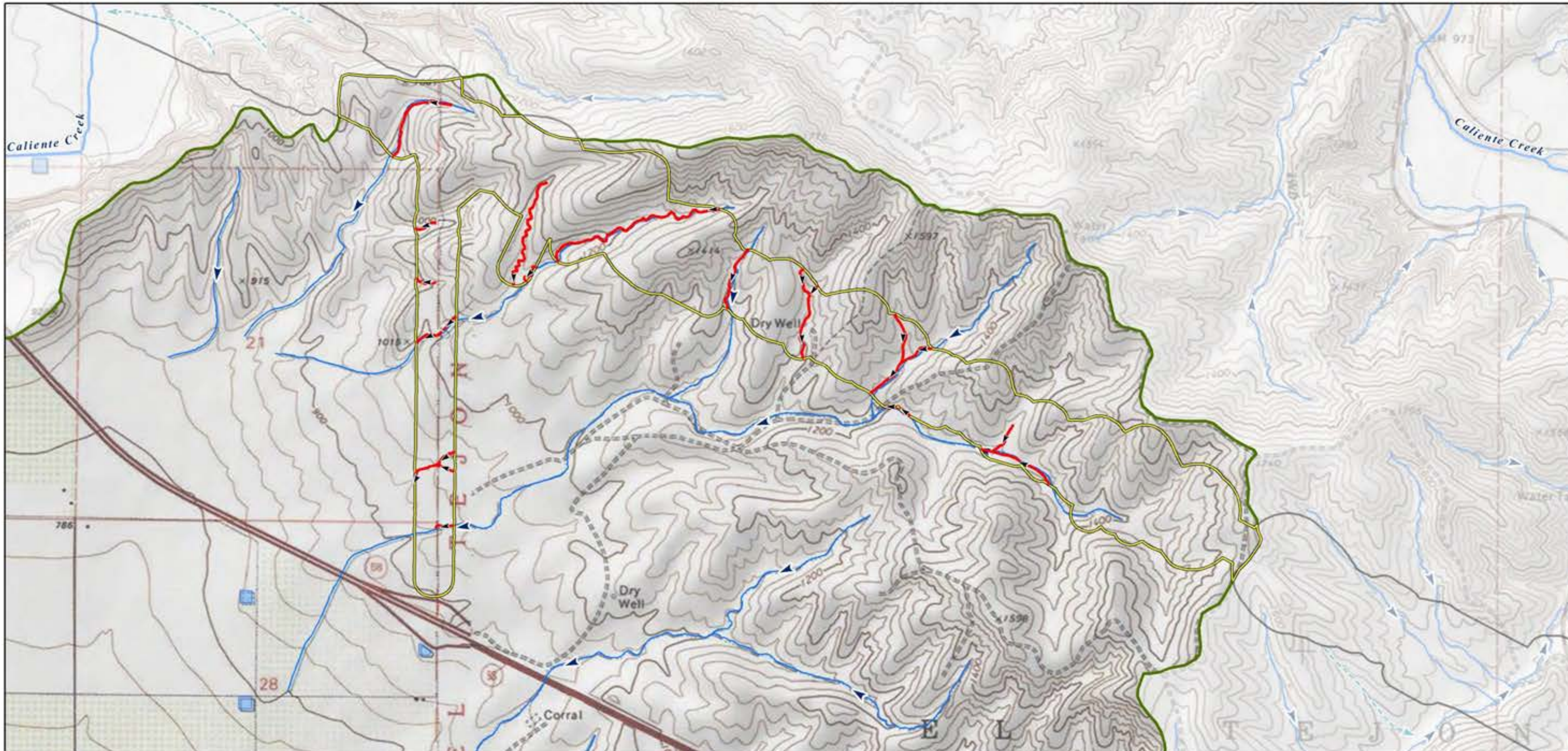
Direction of flow based on NHD flowlines

N

0 1 2 Miles

0 1.5 3 Kilometers

Watershed 180300030602
Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 16, 2016

BP HSR Mapped Streams with OHWM in Watershed 180300030602 Study Area

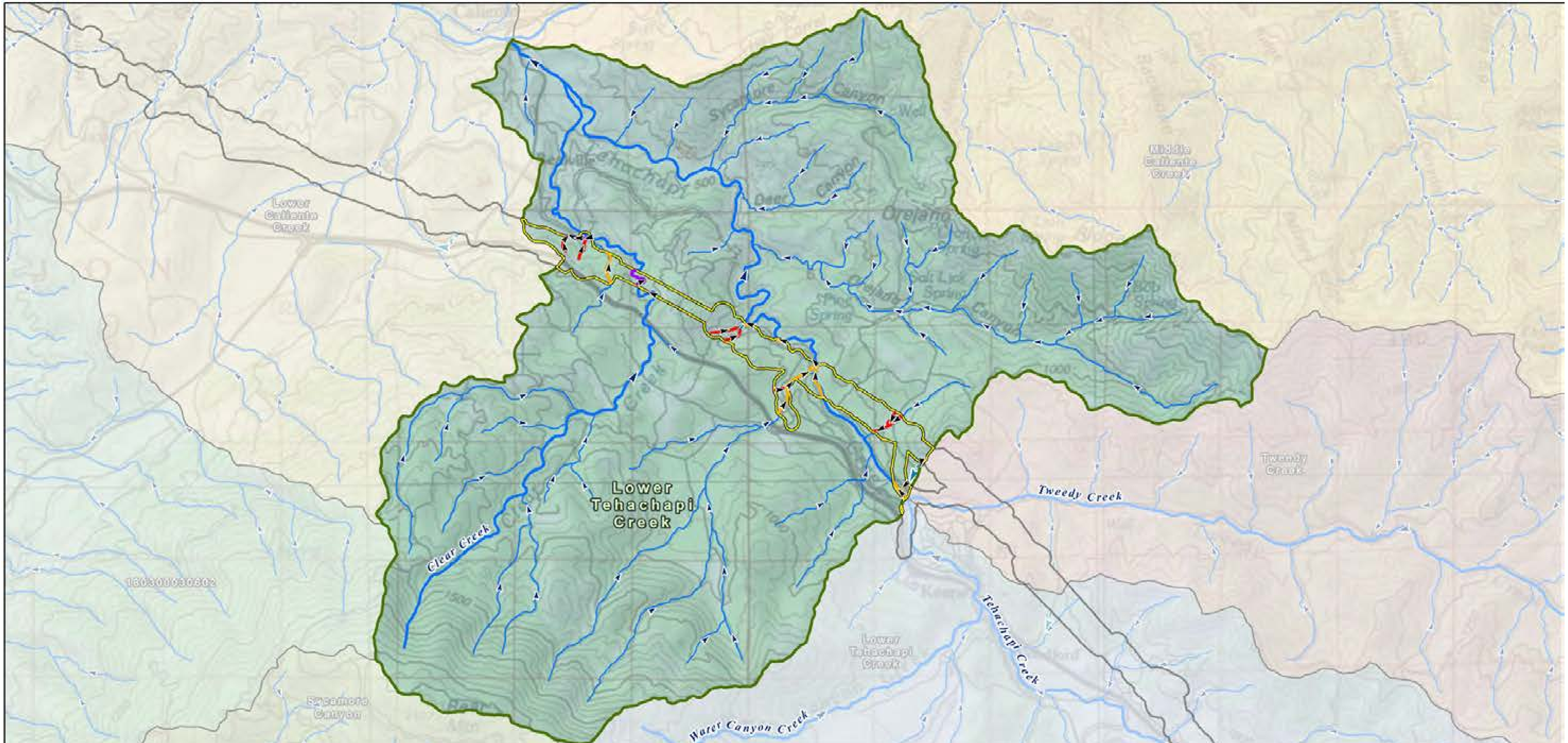
- Ephemeral Stream
- Study Area in Watershed 180300030602
- HUC-12 Watershed 180300030602
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines
- NHD Waterbodies

N

0 0.25 0.5 Miles

0 0.5 1 Kilometers

Watershed 180300030602 Study Area Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 14, 2016

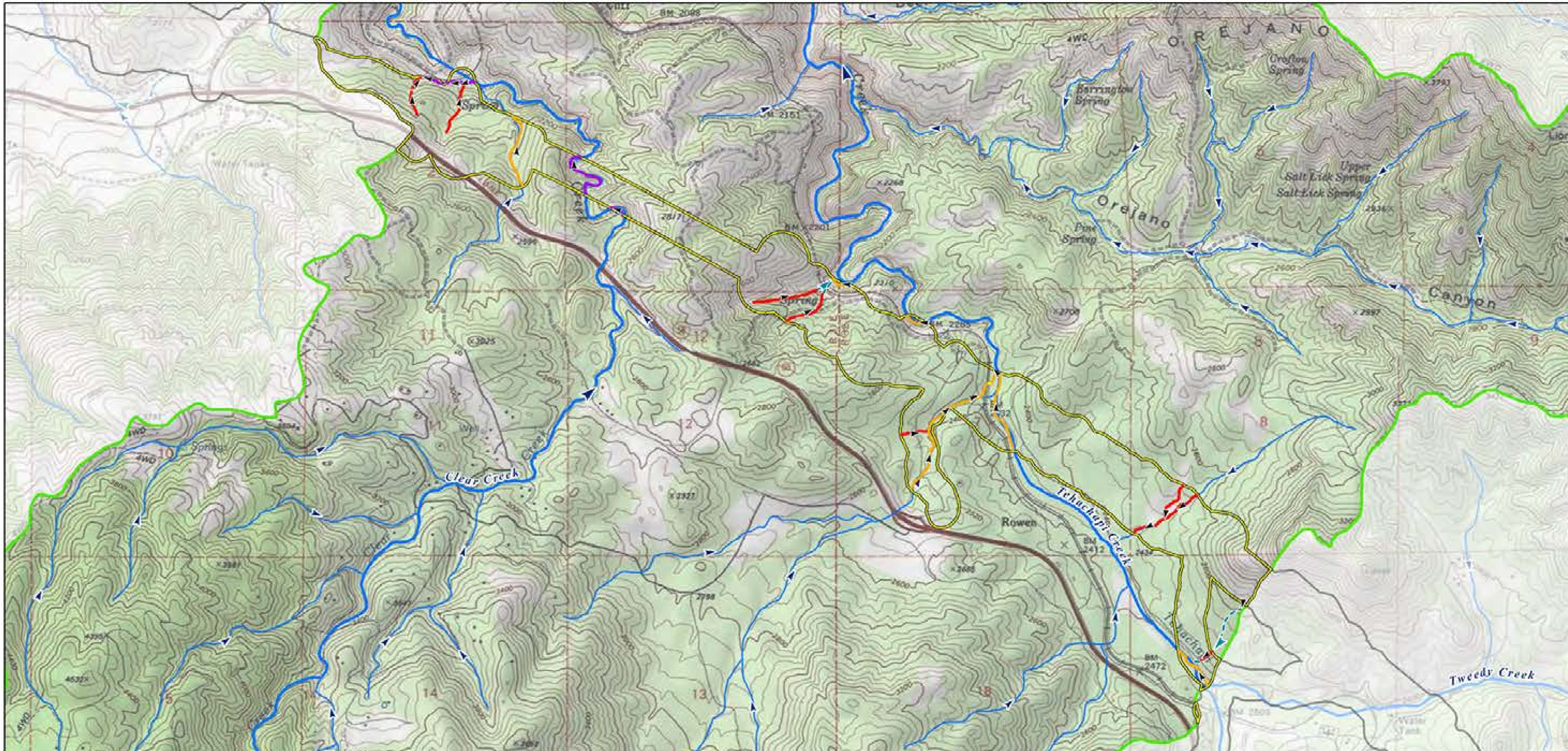
BP HSR Mapped Streams with OHWM in Lower Tehachapi Creek Watershed Study Area

- Culvert
- Ephemeral Stream
- Perennial Stream
- Intermittent Stream

- Study Area in the Lower Tehachapi Creek Watershed
- Lower Tehachapi Creek HUC-12 Watershed
- Other HUC-12 Watersheds
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines
- Presumed Hydrologic Path

0 0.5 1 Miles
0 1 2 Kilometers

Lower Tehachapi Creek Watershed
Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 14, 2016

0 0.25 0.5 Miles
0 0.5 1 Kilometers

BP HSR Mapped Streams with OHWM in Lower Tehachapi Creek Watershed Study Area

- Culvert
- Ephemeral Stream
- Perennial Stream
- Intermittent Stream

- Study Area in Lower Tehachapi Creek Watershed
- Lower Tehachapi Creek HUC-12 Watershed
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines
- Presumed Hydrologic Path

Lower Tehachapi Creek Watershed Study Area Hydrologic Connectivity

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 18, 2016

N

0 0.25 0.5 Miles
0 0.5 1 Kilometers

BP HSR Mapped Streams with OHWM in Tweedy Creek Watershed Study Area

- Culvert
- Ephemeral Stream
- Intermittent Stream

- Study Area in the Tweedy Creek Watershed
- Study Area in the Tweedy Creek Watershed
- Other HUC-12 Watersheds

- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines
- Presumed Hydrologic Path

Tweedy Creek Watershed Hydrologic Connectivity

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

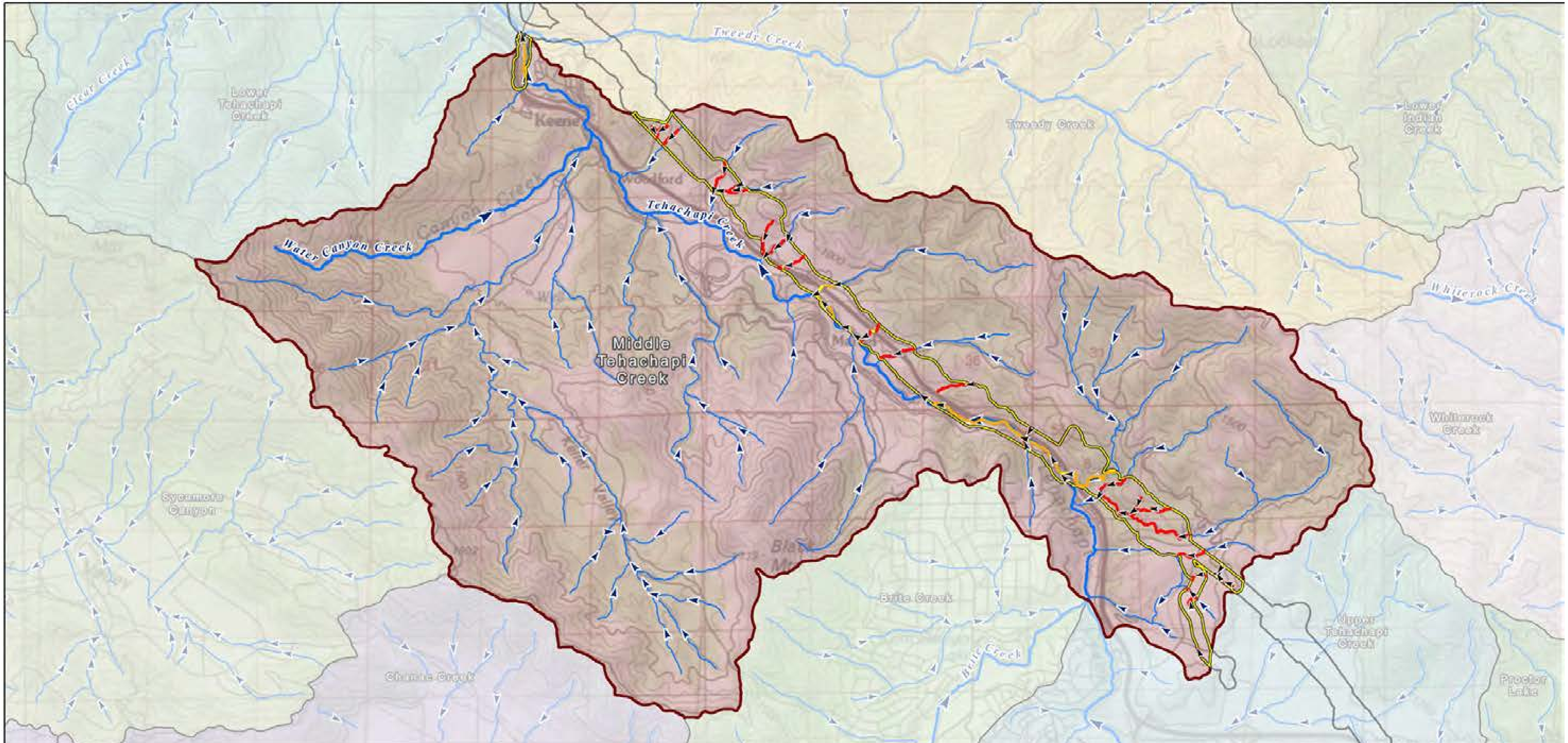
November 14, 2016

0 800 1,600 Feet
0 300 600 Meters

BP HSR Mapped Streams with OHWM in Tweedy Creek Watershed Study Area

- Culvert
- Ephemeral Stream
- Intermittent Stream
- Study Area in Tweedy Creek Watershed
- Tweedy Creek Watershed HUC-12
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines
- Presumed Hydrologic Path

Tweedy Creek Watershed
Study Area Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 14, 2016

N

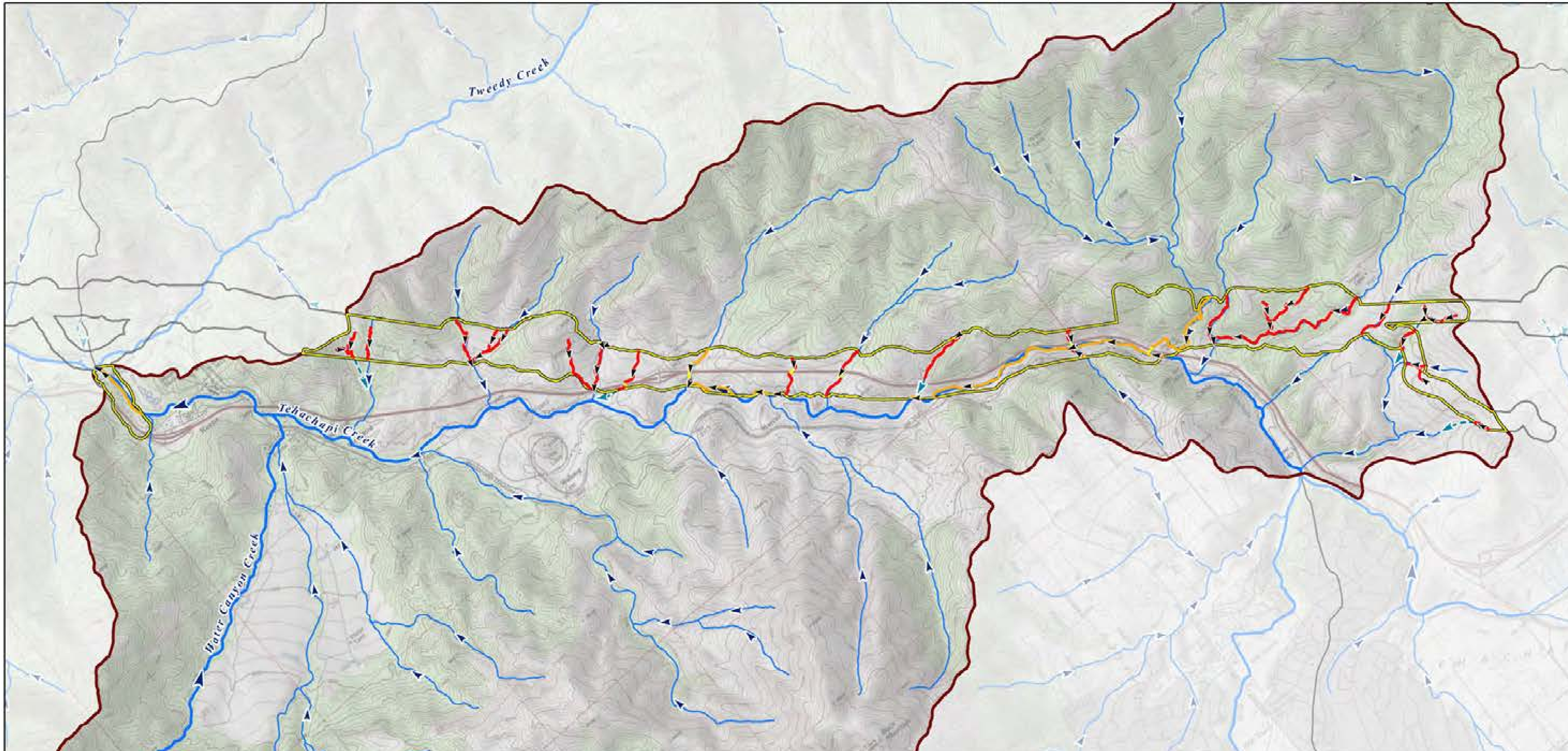
0 0.5 1 Miles

0 1 2 Kilometers

BP HSR Mapped Streams with OHWM in Middle Tehachapi Creek Watershed Study Area

- Culvert
- Ephemeral Stream
- Intermittent Stream
- Study Area in the Middle Tehachapi Creek Watershed
- Middle Tehachapi Creek Watershed HUC-12
- Other HUC-12 Watersheds
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines
- Presumed Hydrologic Path

Middle Tehachapi Creek Watershed
Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 14, 2016

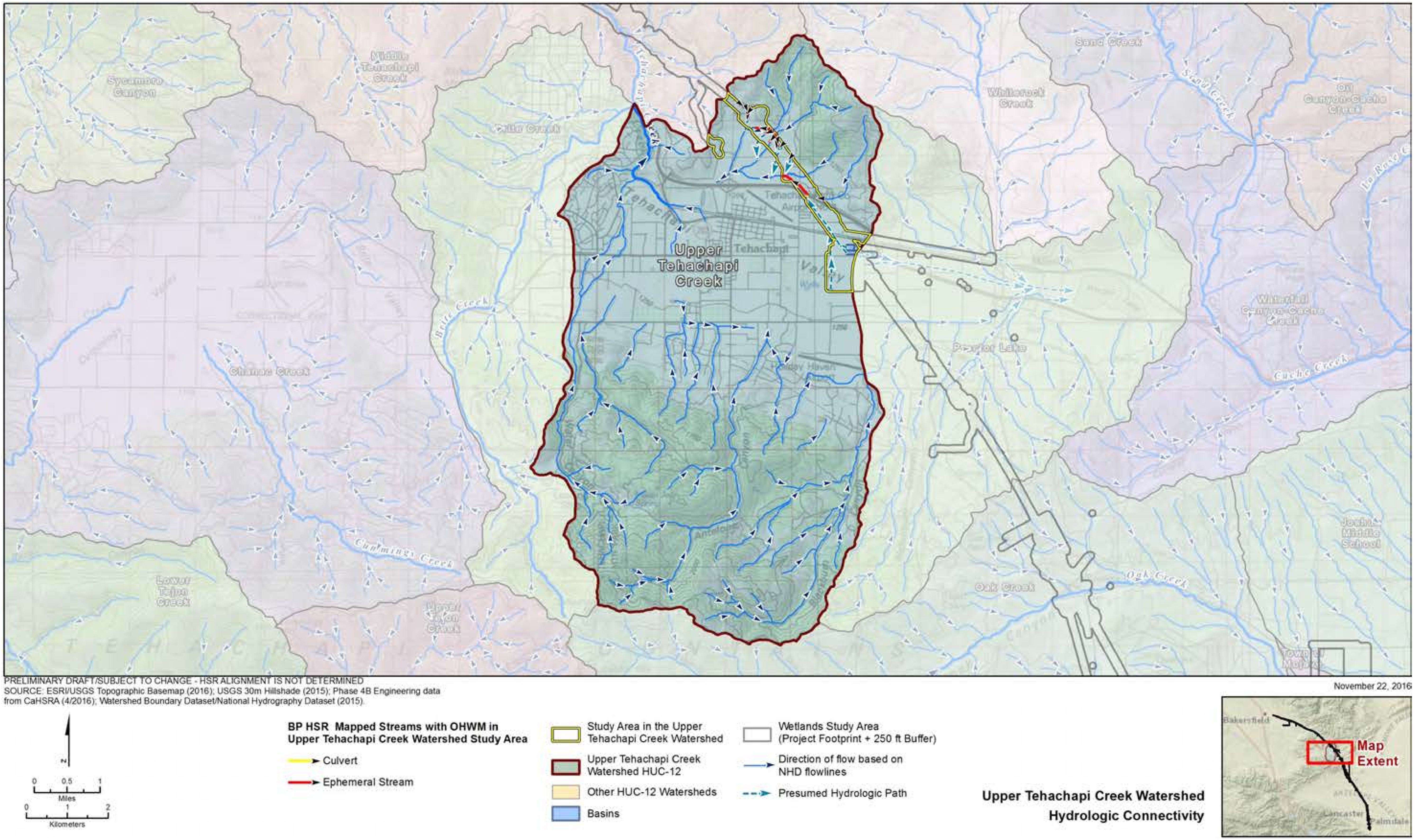
0 0.3 0.6 Miles
0 0.5 1 Kilometers

BP HSR Mapped Streams with OHWM in Middle Tehachapi Creek Watershed Study Area

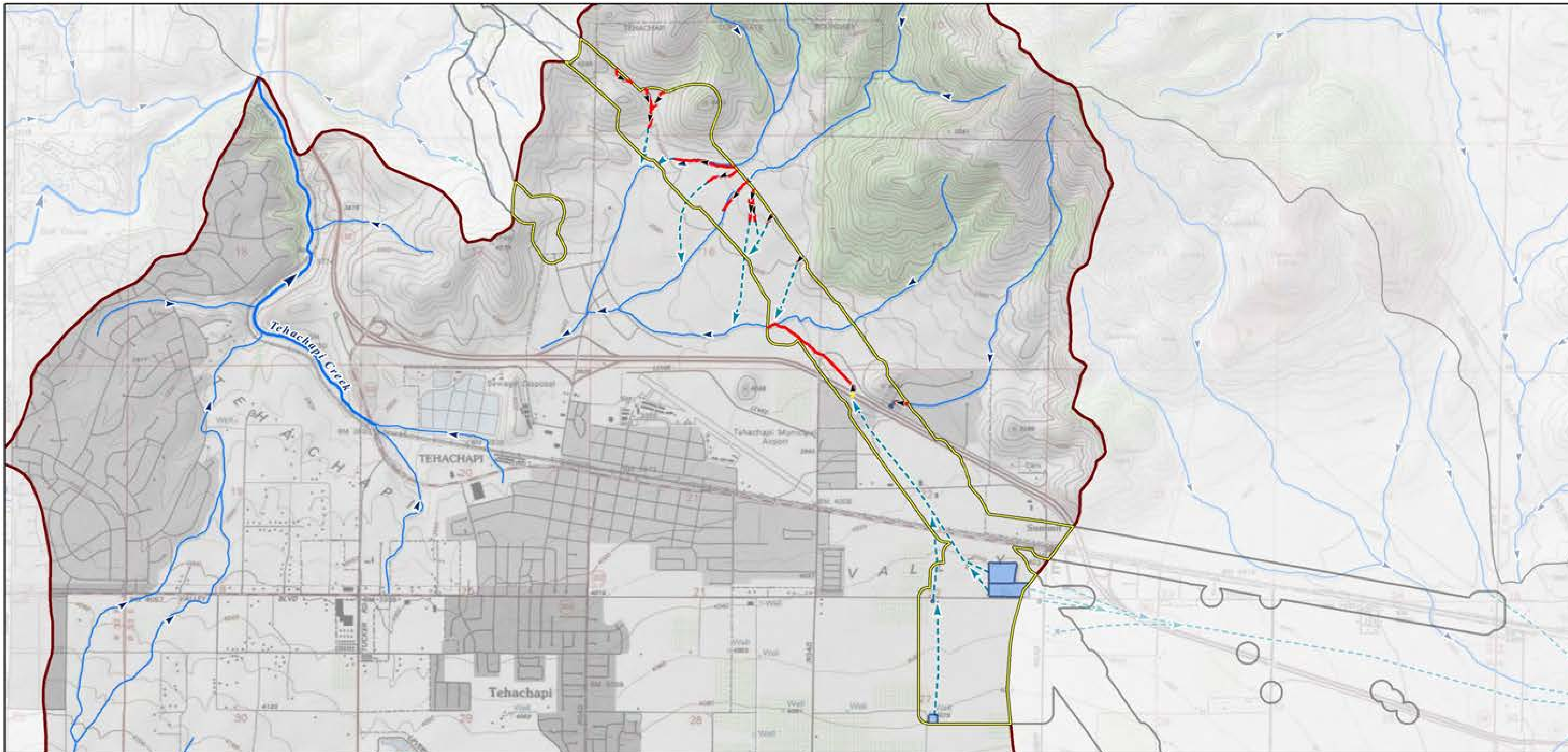
- Culvert
- Ephemeral Stream
- Intermittent Stream

- Study Area in the Middle Tehachapi Creek Watershed
- Middle Tehachapi Creek Watershed HUC-12
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines
- Presumed Hydrologic Path

Middle Tehachapi Creek Watershed Study Area Hydrologic Connectivity



Upper Tehachapi Creek Watershed
Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 22, 2016

N

0 0.2 0.4 Miles

0 0.4 0.8 Kilometers

BP HSR Mapped Streams with OHWM in Upper Tehachapi Creek Watershed Study Area

- Culvert
- Ephemeral Stream
- Study Area in the Upper Tehachapi Creek Watershed
- Upper Tehachapi Creek Watershed HUC-12
- Basins
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines
- Presumed Hydrologic Path

Upper Tehachapi Creek Watershed Study Area Hydrologic Connectivity

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400 Feet

0 60 120 Meters

1 inch = 400 feet

Ephemeral Stream

Aquatic Resources Study Area (Project Footprint +250 ft Buffer)

Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400
Feet

0 60 120
Meters

1 inch = 400 feet

Ephemeral Stream
In-Stream Basin
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400 Feet

0 60 120 Meters

1 inch = 400 feet

Ephemeral Stream

Aquatic Resources Study Area (Project Footprint +250 ft Buffer)

Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

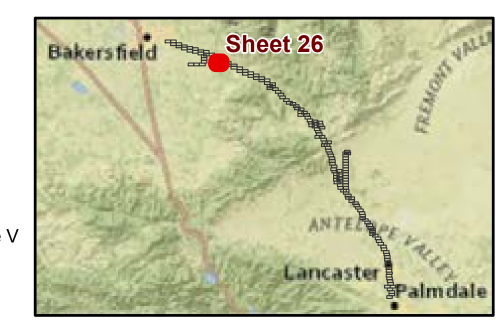
N

0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

Ephemeral Stream
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale

November 3, 2016

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

Ephemeral Stream
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N
0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

Ephemeral Stream
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
OHWM Data Point
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

Ephemeral Stream
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
OHWM Data Point
Elevation Contour

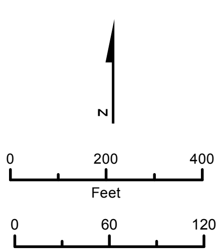
Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).



1 inch = 400 feet

Ephemeral Stream
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400
Feet
0 60 120
Meters
1 inch = 400 feet

Ephemeral Stream
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale

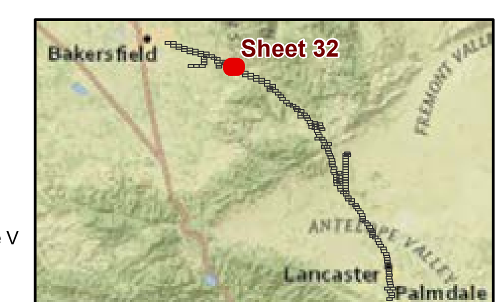
PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N
0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

- Ephemeral Stream
- Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
- Wetland Determination Sample
- Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

Ephemeral Stream
Culvert Connection
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
OHWM Data Point
Elevation Contour

0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400
Feet

0 60 120
Meters

1 inch = 400 feet

Ephemeral Stream

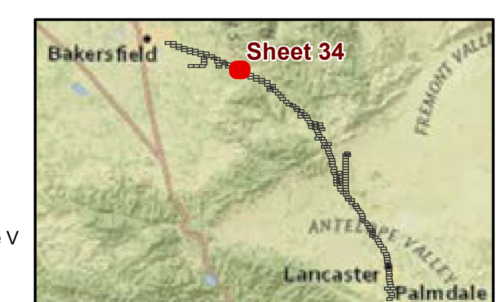
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)

Wetland Determination Sample Point

Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

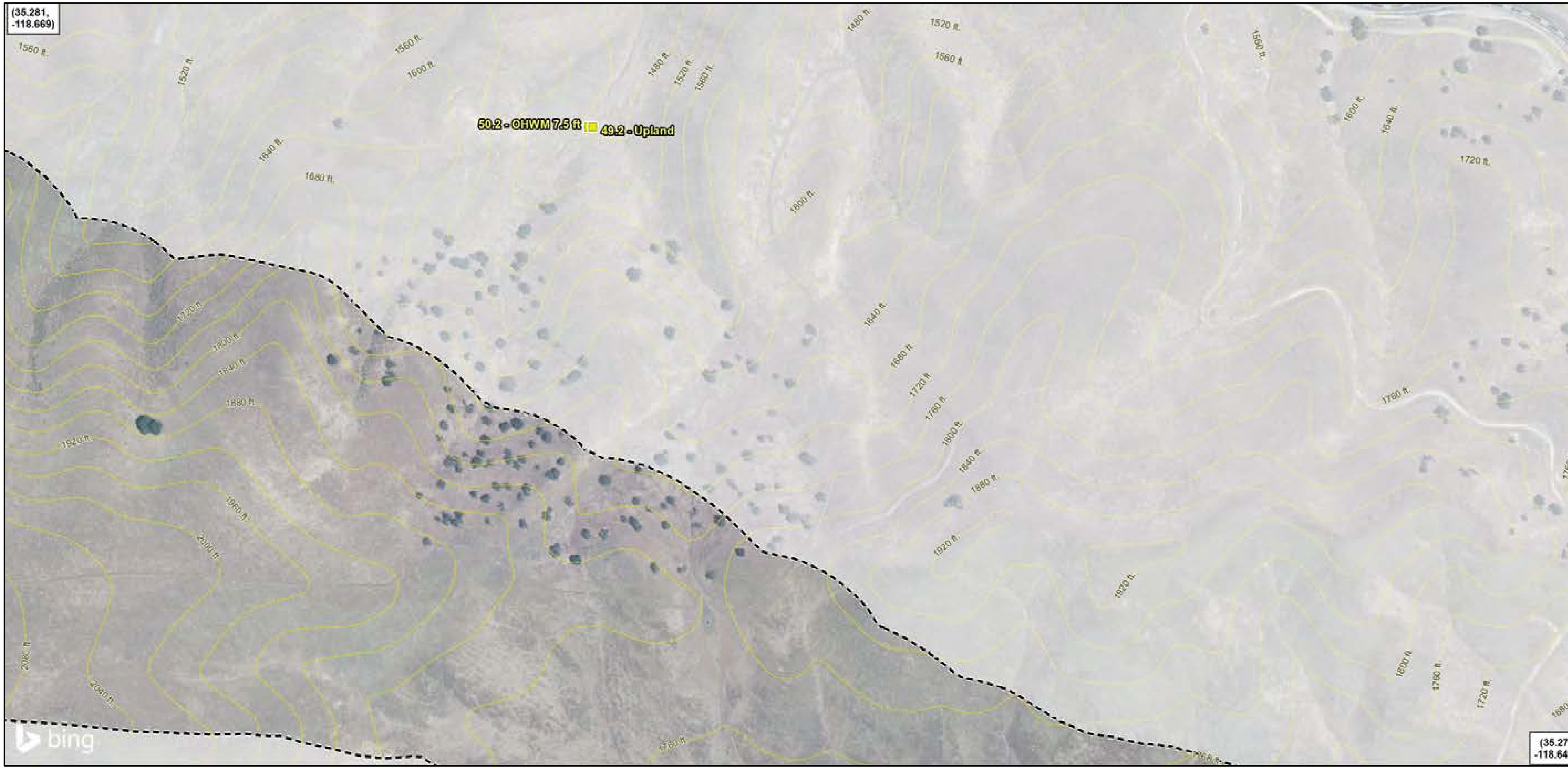
Ephemeral Stream
Culvert Connection
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
OHWM Data Point
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N
0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Wetland Determination Sample Point
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet

Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400 Feet

0 60 120 Meters

1 inch = 400 feet

Ephemeral Stream

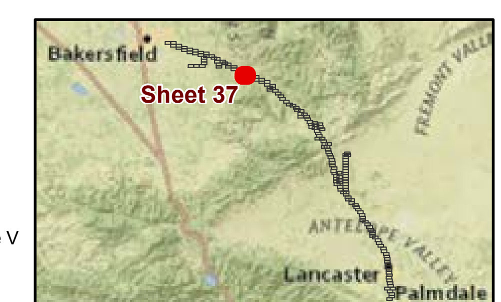
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)

Wetland Determination Sample Point

Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400
Feet

0 60 120
Meters

1 inch = 400 feet

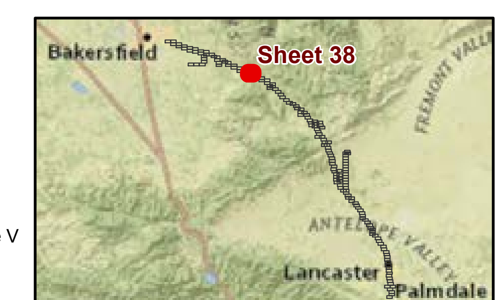
Ephemeral Stream

Aquatic Resources Study Area (Project Footprint +250 ft Buffer)

Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

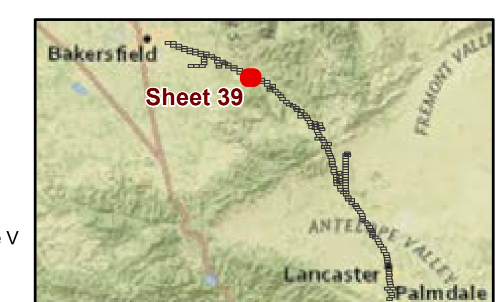
N

0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

Ephemeral Stream
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale

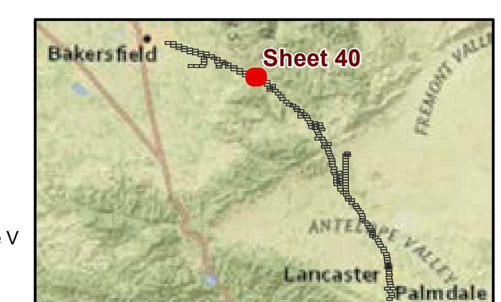
PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N
0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

Perennial Stream
Intermittent Stream
Ephemeral Stream
Culvert Connection
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

Coordinate System: NAD 1983 California State Plane V
Projection: Lambert Conic Conformal
Datum: North American 1983
Vertical Datum: NAVD88, U.S. Feet



Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: Microsoft Corporation Bing Hybrid Imagery ESRI Service Layer (2016); Esri/National Geographic (2016); Phase 4B Engineering data from CHSR (4/2016); USGS Elevation Contours (2014).

N

0 200 400 Feet

0 60 120 Meters

1 inch = 400 feet

Perennial Stream
Intermittent Stream
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

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Aquatic Resources

Study Area for Bakersfield to Palmdale

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N

0 200 400
Feet

0 60 120
Meters

1 inch = 400 feet

- Seasonal Wetland
- Perennial Stream
- Intermittent Stream
- Ephemeral Stream
- Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
- Elevation Contour

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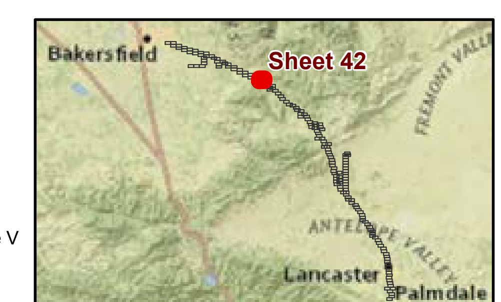

Aquatic Resources

Study Area for Bakersfield to Palmdale

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Ephemeral Stream

Aquatic Resources Study Area (Project Footprint +250 ft Buffer)

Elevation Contour

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Aquatic Resources

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Intermittent Stream
Ephemeral Stream
Culvert Connection
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

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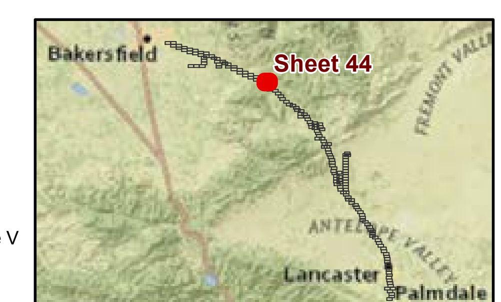

Aquatic Resources

Study Area for Bakersfield to Palmdale

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
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Intermittent Stream

Ephemeral Stream

Aquatic Resources Study Area (Project Footprint +250 ft Buffer)

Elevation Contour

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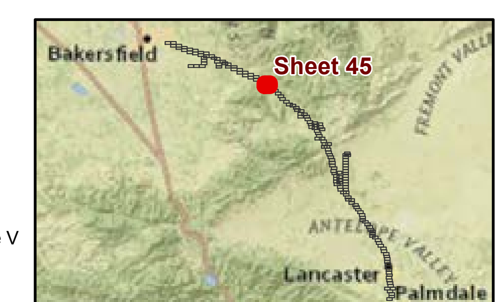
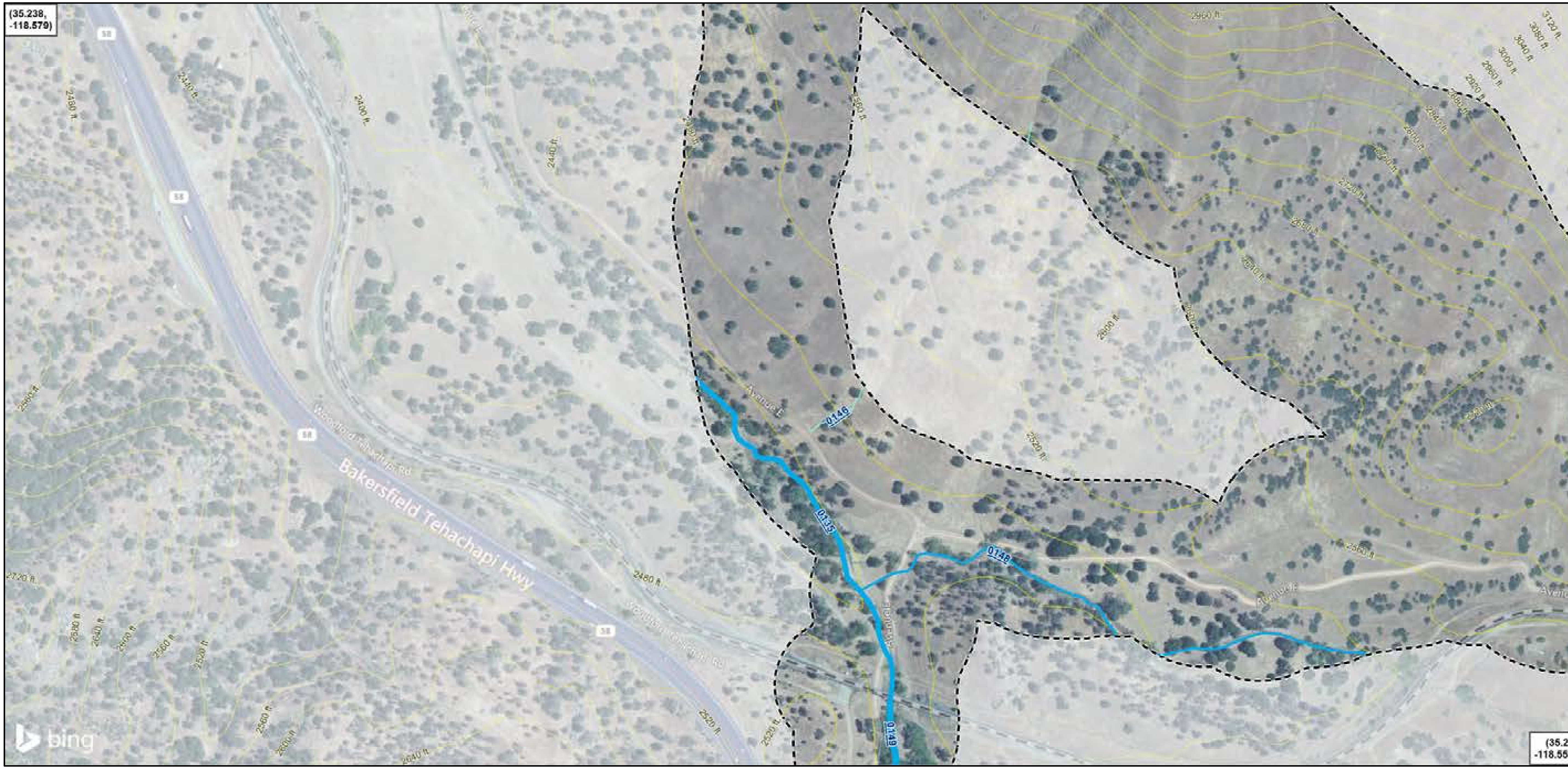


Aquatic Resources

Study Area for Bakersfield to Palmdale



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Intermittent Stream
Ephemeral Stream
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

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Aquatic Resources

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Ephemeral Stream
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

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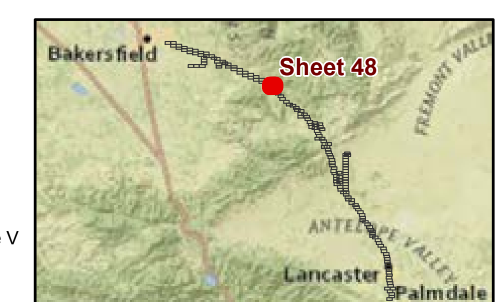

Aquatic Resources

Study Area for Bakersfield to Palmdale

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Intermittent Stream
Ephemeral Stream
Culvert Connection
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

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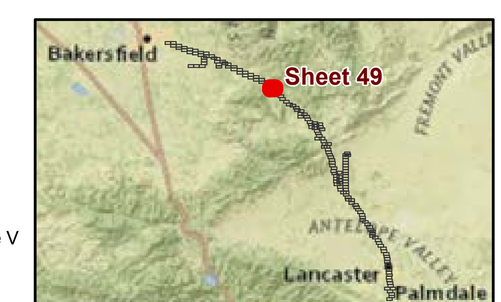

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Ephemeral Stream
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Elevation Contour

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Aquatic Resources

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Ephemeral Stream
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
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Ephemeral Stream

Aquatic Resources Study Area (Project Footprint +250 ft Buffer)

Elevation Contour

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Aquatic Resources

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1 inch = 400 feet

Intermittent Stream
Ephemeral Stream
Culvert Connection
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

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Ephemeral Stream
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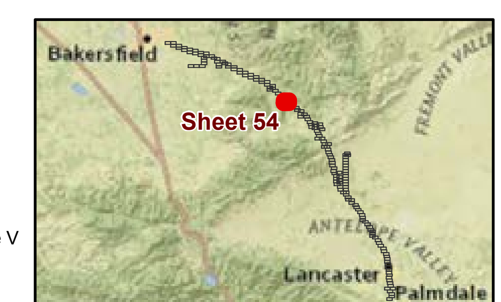

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Ephemeral Stream
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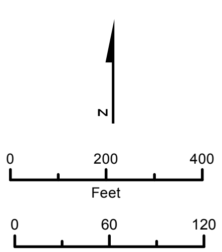

1 inch = 400 feet

Intermittent Stream
Ephemeral Stream
Culvert Connection
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

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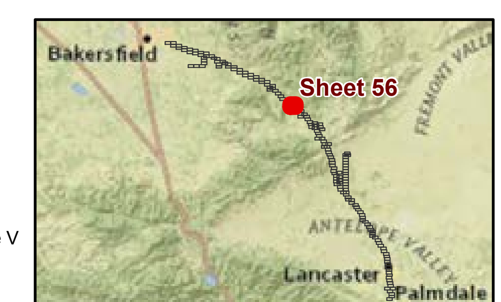

Aquatic Resources

Study Area for Bakersfield to Palmdale

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0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

Intermittent Stream
Ephemeral Stream
Culvert Connection
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

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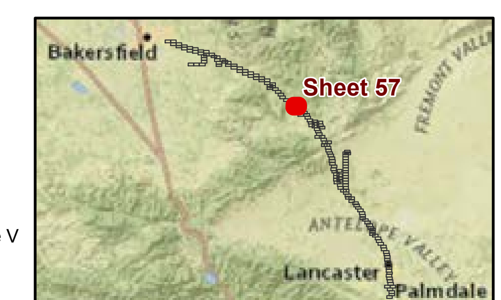
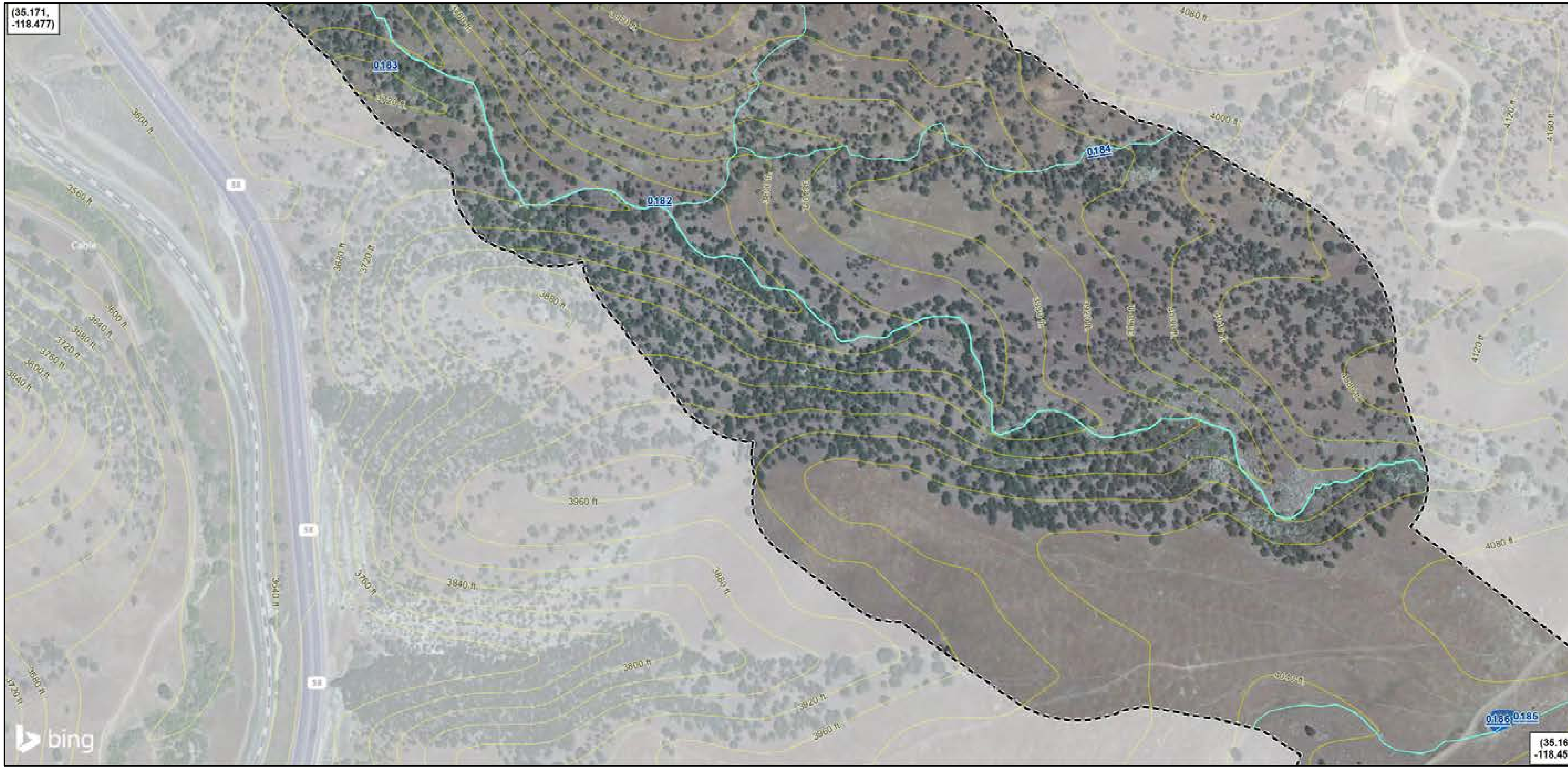


Aquatic Resources

Study Area for Bakersfield to Palmdale



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Ephemeral Stream
In-Stream Basin
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

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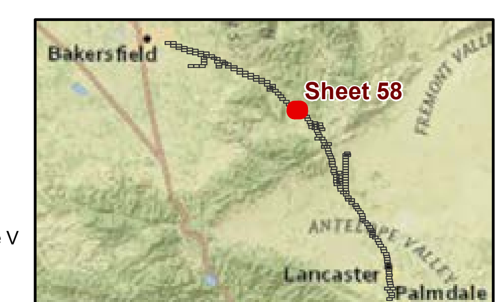

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Ephemeral Stream
In-Stream Basin
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

0 200 400 Feet
0 60 120 Meters
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Aquatic Resources

Study Area for Bakersfield to Palmdale

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Ephemeral Stream
In-Stream Basin
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

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Aquatic Resources

Study Area for Bakersfield to Palmdale

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Ephemeral Stream

Aquatic Resources Study Area (Project Footprint +250 ft Buffer)

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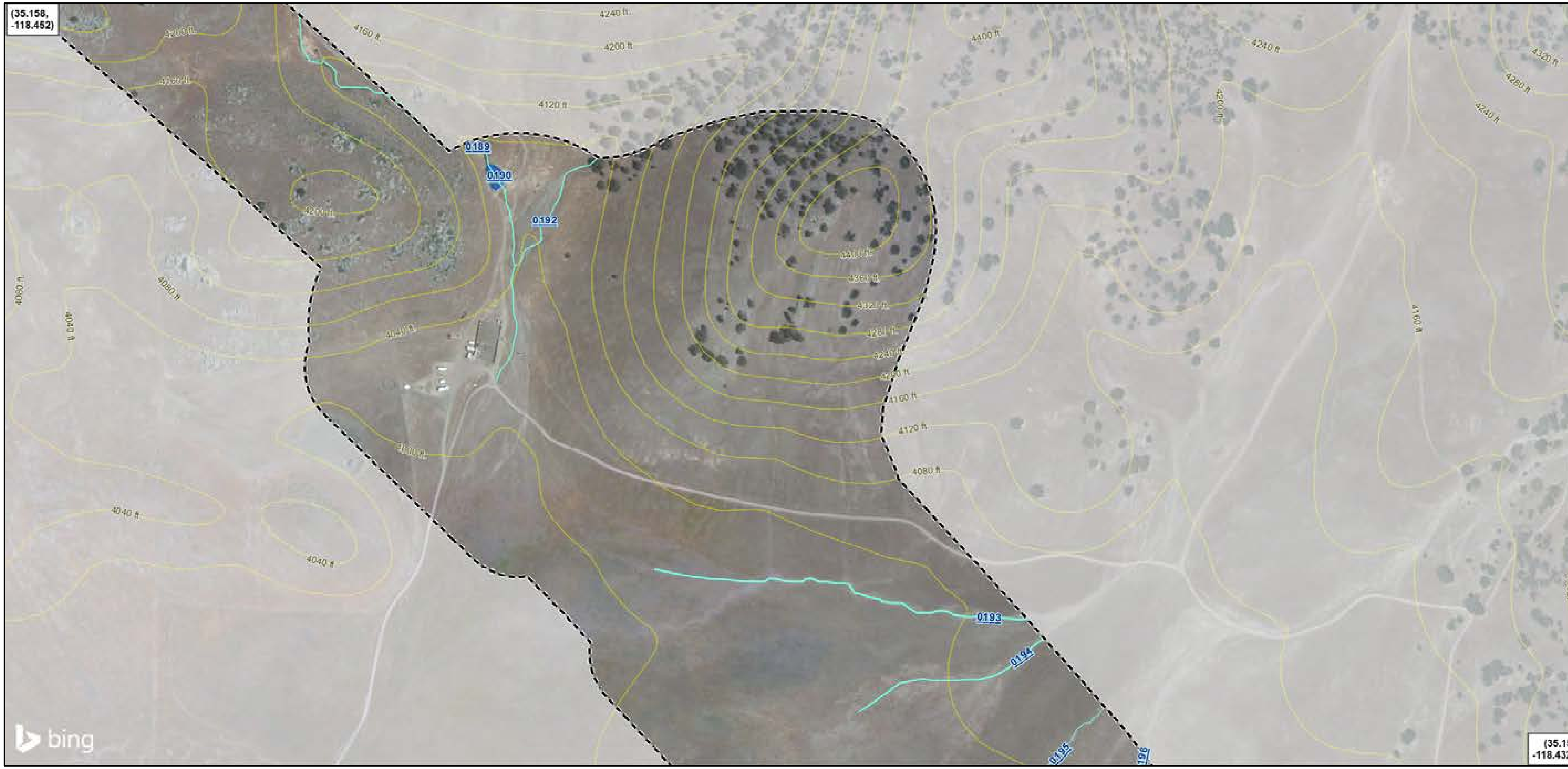
Aquatic Resources

Study Area for Bakersfield to Palmdale



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Ephemeral Stream

In-Stream Basin

Aquatic Resources Study Area (Project Footprint +250 ft Buffer)

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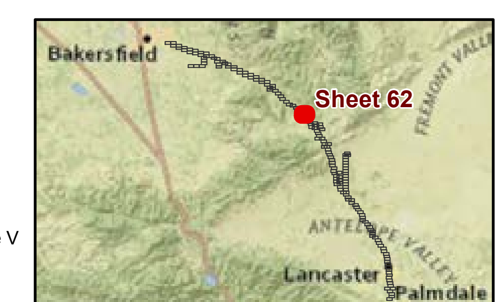

Aquatic Resources

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Ephemeral Stream
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

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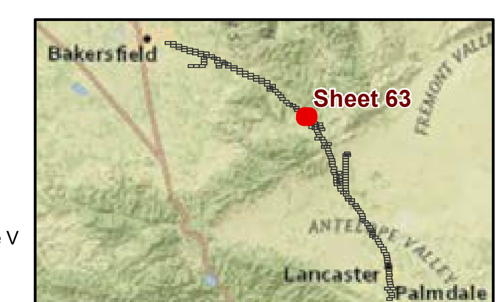

Aquatic Resources

Study Area for Bakersfield to Palmdale

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N
0 200 400 Feet
0 60 120 Meters
1 inch = 400 feet

- Seasonal Wetland
- Ephemeral Stream
- Desert Wash
- Culvert Connection
- Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
- Wetland Determination Sample
- Elevation Contour

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on September 10, 2016.

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Aquatic Resources

Study Area for Bakersfield to Palmdale

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Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Wetland Determination Sample Point
Elevation Contour

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Aquatic Resources

Study Area for Bakersfield to Palmdale

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N

0 200 400
Feet
0 60 120
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Basin
Aquatic Resources Study Area (Project Footprint +250 ft Buffer)
Elevation Contour

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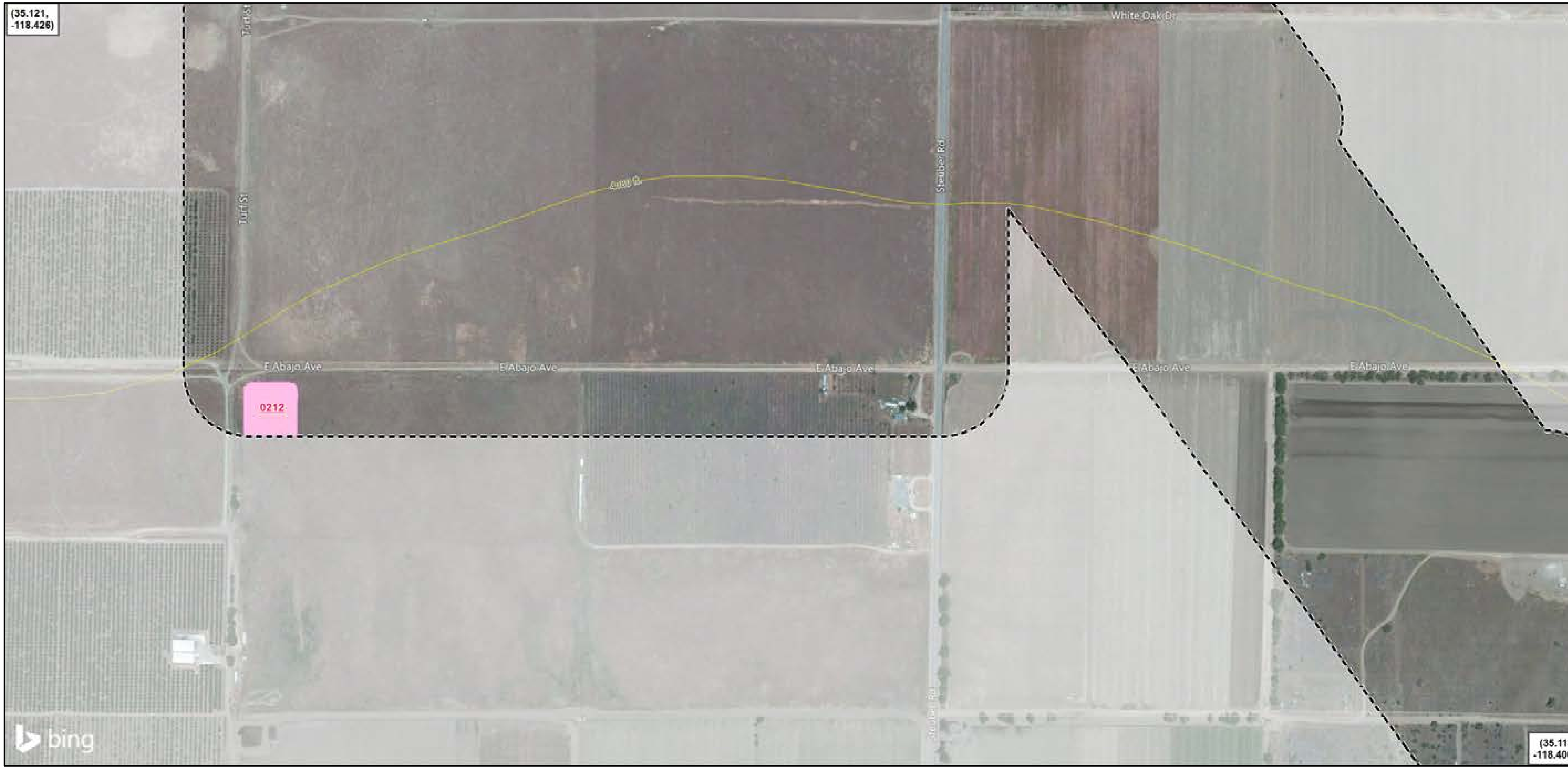
Aquatic Resources

Study Area for Bakersfield to Palmdale



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Aquatic Resources

Study Area for Bakersfield to Palmdale

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
59	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	532	CalienteCreek_0059	3.28	22, 23, 24	Lower Caliente Creek (HUC12)
60	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	100	CalienteCreek_0060	0.86	23, 24	Lower Caliente Creek (HUC12)
61	Basin - In Stream	ephemeral	Palustrine unconsolidated bottom	PUB	n/a	--	Imp_0061	0.15	24	Lower Caliente Creek (HUC12)
62	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1	Str_0062	0.007	24	Lower Caliente Creek (HUC12)
63	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	9	Str_0063	0.09	24	Lower Caliente Creek (HUC12)
64	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0064	0.03	24, 25	Lower Caliente Creek (HUC12)

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
65	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1.5	Str_0065	0.02	24	Lower Caliente Creek (HUC12)
66	Basin - In Stream	perennial	Palustrine unconsolidated bottom	PUB	n/a	--	Imp_0066	0.33	24	Lower Caliente Creek (HUC12)
67	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	6	Str_0067	0.08	24	Lower Caliente Creek (HUC12)
68	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2.5	Str_0068	0.006	24	Lower Caliente Creek (HUC12)
69	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	6	Str_0069	0.21	24, 25	180300030602 (HUC12)
70	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0070	0.02	25	180300030602 (HUC12)
71	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	5	Str_0071	0.04	25	180300030602 (HUC12)
72	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	6	Str_0072	0.06	26	180300030602 (HUC12)
73	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0073	0.08	26	180300030602 (HUC12)
74	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0074	0.02	26	180300030602 (HUC12)
75	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0075	0.006	26	180300030602 (HUC12)
76	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	6	Str_0076-001	0.04	26, 28	180300030602 (HUC12)
							Str_0076-002	0.05		
							Str_0076-003	0.43		
77	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	20	Str_0077	0.15	27	180300030602 (HUC12)

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
78	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0078	0.09	28	180300030602 (HUC12)
79	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	3	Str_0079	0.07	28, 29	180300030602 (HUC12)
80	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1.5	Str_0080	0.02	28, 29	180300030602 (HUC12)
81	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1.5	Str_0081	0.02	28, 29	180300030602 (HUC12)
82	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	5	Str_0082	0.08	29	180300030602 (HUC12)
83	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0083	0.05	29, 30	180300030602 (HUC12)
84	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1.5	Str_0084	0.03	29, 30	180300030602 (HUC12)
85	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1.5	Str_0085	0.02	29, 30	180300030602 (HUC12)
86	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0086-001	0.11	29, 30	180300030602 (HUC12)
							Str_0086-002	0.02		
							Str_0086-003	0.02		
87	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0087	0.05	30	180300030602 (HUC12)
88	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	5	Str_0088	0.08	31	Lower Caliente Creek (HUC12)
89	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0089	0.15	31, 32	Lower Caliente Creek (HUC12)
90	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	3	Str_0090	0.02	32	Lower Caliente Creek (HUC12)
91	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0091-001	0.0003	32	Lower Caliente Creek (HUC12)
							Str_0091-002	0.02		

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
92	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0092	0.004	32	Lower Caliente Creek (HUC12)
93	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0093-001	0.12	32	Lower Caliente Creek (HUC12)
							Str_0093-002	0.06		
94	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	3	Str_0094	0.03	32	Lower Caliente Creek (HUC12)
95	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0095	0.01	32	Lower Caliente Creek (HUC12)
96	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	8	Str_0096	0.32	32, 33	Lower Caliente Creek (HUC12)
97	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	8	Str_0097	0.34	32, 33	Lower Caliente Creek (HUC12)
98	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	33	Str_0098	0.94	32, 33	Lower Caliente Creek (HUC12)
99	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	10	Str_0099	0.29	32, 33	Lower Caliente Creek (HUC12)
100	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	6	Str_0100	0.01	32	Lower Caliente Creek (HUC12)
101	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	6	Str_0101	0.09	33	Lower Caliente Creek (HUC12)
102	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	6	Str_0102	0.04	33	Lower Caliente Creek (HUC12)
103	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	15	Str_0103	0.18	33	Lower Caliente Creek (HUC12)
104	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0104	0.07	33	Lower Caliente Creek (HUC12)
105	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0105	0.08	34	Lower Caliente Creek (HUC12)

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
106	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0106	0.13	34	Lower Caliente Creek (HUC12)
107	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	8	Str_0107	0.15	34	Lower Caliente Creek (HUC12)
108	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	6	Str_0108	0.0008	34	Lower Caliente Creek (HUC12)
109	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	8	Str_0109	0.12	34	Lower Caliente Creek (HUC12)
110	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	11	Str_0110	0.19	34, 35	Lower Caliente Creek (HUC12)
111	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0111	0.19	34	Lower Caliente Creek (HUC12)
112	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0112	0.05	34	Lower Caliente Creek (HUC12)
113	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	3	Str_0113	0.04	34	Lower Caliente Creek (HUC12)
114	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	5	Str_0114	0.05	34	Lower Caliente Creek (HUC12)
115	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	5	Str_0115	0.05	35	Lower Caliente Creek (HUC12)
116	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0116	0.07	37	Lower Caliente Creek (HUC12)
117	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0117	0.19	37	Lower Caliente Creek (HUC12)
119	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0119	0.09	38	Lower Caliente Creek (HUC12)
120	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0120	0.09	38, 39	Lower Caliente Creek (HUC12)
121	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0121	0.13	38, 39, 40	Lower Caliente Creek (HUC12)

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
122	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	10	Str_0122-001	0.01	39	Lower Caliente Creek (HUC12)
							Str_0122-002	0.03		
123	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	3	Str_0123	0.11	40	Lower Caliente Creek (HUC12)
124	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1.5	Str_0124-001	0.02	40	Lower Tehachapi Creek (HUC12)
							Str_0124-002	0.01		
125	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0125-001	0.05	40	Lower Tehachapi Creek (HUC12)
							Str_0125-002	0.04		
127	Perennial Stream	perennial	Riverine, lower perennial, unconsolidated bottom	R2UB	n/a	12	ClearCreek_0127-001	0.08	40, 41, 42	Lower Tehachapi Creek (HUC12)
							ClearCreek_0127-002	0.44		
							ClearCreek_0127-003	0.16		
							ClearCreek_0127-004	0.12		
128	Intermittent Stream	intermittent	Riverine, intermittent, streambed	R4SB	n/a	12	Str_0128	0.43	40, 41	Lower Tehachapi Creek (HUC12)
131	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1.5	Str_0131	0.04	42, 43	Lower Tehachapi Creek (HUC12)
133	Seasonal Wetland	intermittent	Palustrine emergent	PEM	Riverine	--	SW_0133	0.51	42	Lower Tehachapi Creek (HUC12)
135	Intermittent Stream	intermittent	Riverine, intermittent, streambed	R4SB	n/a	20	TehachapiCreek_0135a-001	0.45	42, 44, 45, 46, 49	Lower Tehachapi Creek (HUC12)
							TehachapiCreek_0135b-001	0.27		Middle Tehachapi Creek (HUC12)
							TehachapiCreek_0135-002	0.81		Lower Tehachapi Creek (HUC12)
							TehachapiCreek_0135-003	0.2		Lower Tehachapi Creek (HUC12)
							TehachapiCreek_0135-004	0.17		Lower Tehachapi Creek (HUC12)

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
136	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1.5	Str_0136	0.03	43	Lower Tehachapi Creek (HUC12)
137	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1.5	Str_0137	0.02	44, 45	Lower Tehachapi Creek (HUC12)
138	Intermittent Stream	intermittent	Riverine, intermittent, streambed	R4SB	n/a	8	Str_0138-001	0.36	44, 45	Lower Tehachapi Creek (HUC12)
							Str_0138-002	0.17		
							Str_0138-003	0.05		
143	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	3	Str_0143	0.11	45	Lower Tehachapi Creek (HUC12)
144	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	3	Str_0144	0.06	45	Lower Tehachapi Creek (HUC12)
146	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0146-001	0.01	46, 48, 49	Lower Tehachapi Creek (HUC12)
							Str_0146-002	0.003		
148	Intermittent Stream	intermittent	Riverine, intermittent, streambed	R4SB	n/a	10	TweedyCreek_0148b-001	0.06	46, 49	Tweedy Creek (HUC12)
							TweedyCreek_0148b-002	0.19	46, 49	
							TweedyCreek_0148b-003	0.33	46, 49	
							TweedyCreek_0148a-004	0.02	46, 49	Middle Tehachapi Creek (HUC12)
							TweedyCreek_0148b-004	0.25	46, 49	Tweedy Creek (HUC12)
149	Intermittent Stream	intermittent	Riverine, intermittent, streambed	R4SB	n/a	25	TehachapiCreek_0149-001	4.63	46, 49, 53, 54, 55, 56, 57	Middle Tehachapi Creek (HUC12)
							TehachapiCreek_0149-002	0.24		
							TehachapiCreek_0149-003	0.15		
							TehachapiCreek_0149-004	0.31		
							TehachapiCreek_0149-005	0.93		

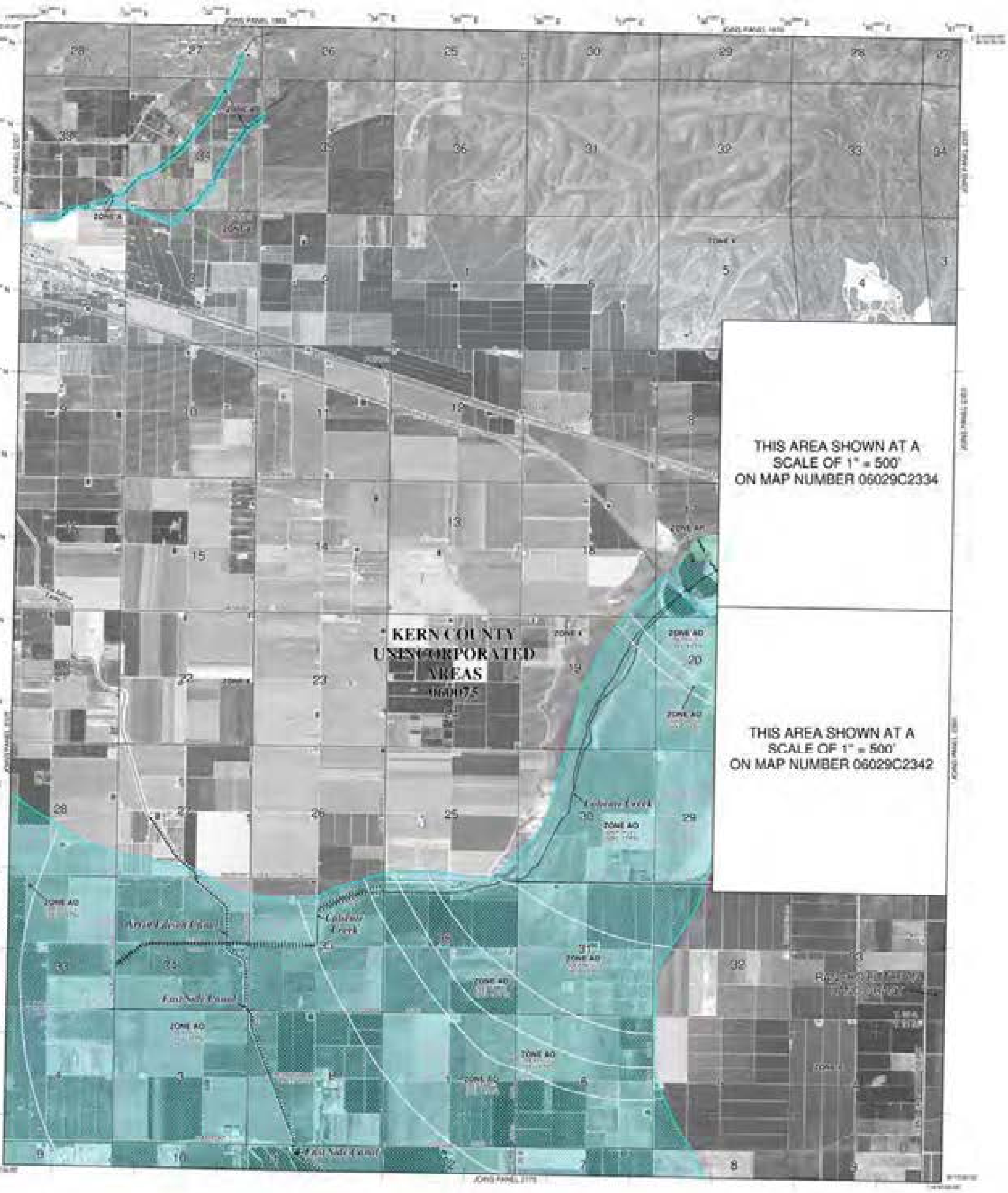
Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
							TehachapiCreek_0149-006	0.92		
150	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1	Str_0150	0.01	50	Tweedy Creek (HUC12)
151	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	3	Str_0151	0.04	50, 51	Middle Tehachapi Creek (HUC12)
152	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	5	Str_0152-001	0.1	50	Tweedy Creek (HUC12)
							Str_0152-002	0.05		
153	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0153	0.05	50, 51	Middle Tehachapi Creek (HUC12)
154	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	3	Str_0154	0.08	50, 51	Middle Tehachapi Creek (HUC12)
155	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0155	0.16	51, 52	Middle Tehachapi Creek (HUC12)
156	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	3	Str_0156	0.12	51, 52	Middle Tehachapi Creek (HUC12)
157	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1.5	Str_0157	0.03	51, 52	Middle Tehachapi Creek (HUC12)
158	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0158	0.1	52, 53	Middle Tehachapi Creek (HUC12)
159	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	6	Str_0159	0.23	52, 53	Middle Tehachapi Creek (HUC12)
160	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0160	0.004	52	Middle Tehachapi Creek (HUC12)
161	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1.5	Str_0161-001	0.009	53	Middle Tehachapi Creek (HUC12)
							Str_0161-002	0.04		
162	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	5	Str_0162	0.02	53	Middle Tehachapi Creek (HUC12)
164	Intermittent	intermittent	Riverine,	R4SB	n/a	5	Str_0164-001	0.01	53	Middle Tehachapi

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
	Stream		intermittent, streambed				Str_0164-002	0.09		Creek (HUC12)
166	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1.5	Str_0166-001	0.03	54	Middle Tehachapi Creek (HUC12)
							Str_0166-002	0.02		
167	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	5	Str_0167-001	0.09	54	Middle Tehachapi Creek (HUC12)
							Str_0167-002	0.09		
169	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0169	0.09	55	Middle Tehachapi Creek (HUC12)
173	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1	Str_0173	0.01	56	Middle Tehachapi Creek (HUC12)
174	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0174-001	0.001	56	Middle Tehachapi Creek (HUC12)
							Str_0174-002	0.02		
180	Intermittent Stream	intermittent	Riverine, intermittent, streambed	R4SB	n/a	8	Str_0180	0.66	57	Middle Tehachapi Creek (HUC12)
181	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0181	0.18	57	Middle Tehachapi Creek (HUC12)
182	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0182	0.06	57, 58	Middle Tehachapi Creek (HUC12)
183	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0183	0.55	57, 58, 59	Middle Tehachapi Creek (HUC12)
184	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0184	0.09	58	Middle Tehachapi Creek (HUC12)
185	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0185	0.07	58, 59	Middle Tehachapi Creek (HUC12)
186	Basin - In Stream	intermittent	Palustrine unconsolidated bottom	PUB	n/a	--	Imp_0186-001	0.04	58, 59	Middle Tehachapi Creek (HUC12)
							Imp_0186-002	0.1		
187	Ephemeral	ephemeral	Riverine,	R6	n/a	2	Str_0187-001	0.03	59, 60	Middle Tehachapi

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
	Stream		ephemeral				Str_0187-002	0.04		Creek (HUC12)
							Str_0187-003	0.03		
188	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1.5	Str_0188	0.02	59	Middle Tehachapi Creek (HUC12)
189	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2.5	Str_0189-001	0.06	60, 62	Upper Tehachapi Creek (HUC12)
							Str_0189-002	0.04		
190	Basin - In Stream	intermittent	Palustrine unconsolidated bottom	PUB	n/a	--	IMP_0190-001	0.04	60, 62	Upper Tehachapi Creek (HUC12)
							IMP_0190-002	0.05		
191	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0191	0.05	61	Middle Tehachapi Creek (HUC12)
192	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	2	Str_0192	0.03	62	Upper Tehachapi Creek (HUC12)
193	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	5	Str_0193	0.17	62	Upper Tehachapi Creek (HUC12)
194	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	4	Str_0194	0.07	62	Upper Tehachapi Creek (HUC12)
195	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1	Str_0195	0.02	62, 63	Upper Tehachapi Creek (HUC12)
196	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	6	Str_0196	0.19	62, 63	Upper Tehachapi Creek (HUC12)
197	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1	Str_0197	0.006	63	Upper Tehachapi Creek (HUC12)
198	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	1	Str_0198	0.005	63	Upper Tehachapi Creek (HUC12)
199	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	6	Str_0199	0.22	64	Upper Tehachapi Creek (HUC12)
200	Ephemeral Stream	ephemeral	Riverine, ephemeral	R6	n/a	8	Str_0200	0.21	64	Upper Tehachapi Creek (HUC12)

Map Label	Feature Type	Hydro-period	Cowardin Class	Cowardin Code	HGM Code	Typical OHWM Width (Ft.)	Segment ID	Potential USACE Jurisdictional Area, Acres	Map Sheet(s)	HUC Watershed(s)
201	Seasonal Wetland	intermittent	Palustrine emergent	PEM	Riverine	--	SW_0201	0.1	64	Upper Tehachapi Creek (HUC12)
202	Desert Wash	ephemeral	Riverine, ephemeral	R6	n/a	3	Str_0202	0.02	64	Upper Tehachapi Creek (HUC12)
203	Basin	intermittent - artificial	Palustrine unconsolidated bottom	PUB	n/a	--	Basin_0203	0.2	66, 68	Proctor Lake (HUC12)
204	Seasonal Wetland	ephemeral	Palustrine emergent	PEM	Depress-ional	--	SW_0204	0.04	67	Proctor Lake (HUC12)
205	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0205	0.06	68	Upper Tehachapi Creek (HUC12)
206	Basin	perennial - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0206	6.89	68	Upper Tehachapi Creek (HUC12)
207	Basin	perennial - artificial	Palustrine emergent	PEM	Lacustrine	--	Basin_0207	6.66	68	Upper Tehachapi Creek (HUC12)
208	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0208	0.09	68	Proctor Lake (HUC12)
209	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0209	0.1	68	Proctor Lake (HUC12)
212	Basin	ephemeral	Palustrine unconsolidated bottom	PUBx	n/a	--	Basin_0212	0.96	72	Upper Tehachapi Creek (HUC12)

NOTES TO USERS



LEGEND

PANEL 2350E

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

KERN COUNTY,
CALIFORNIA
AND INCORPORATED AREAS

PANEL 2350 OF 4135

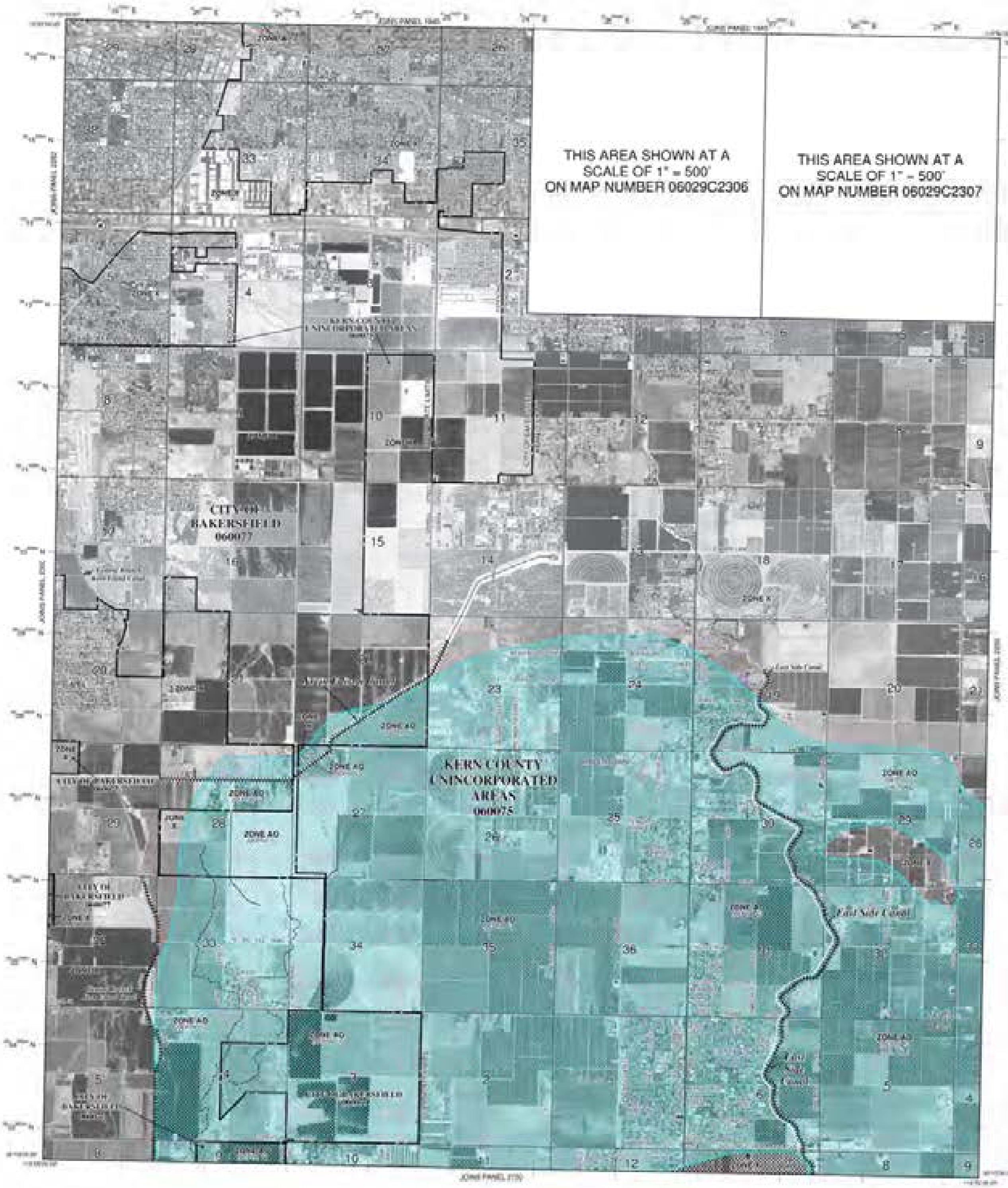
MAP NUMBER
06029C2350E

EFFECTIVE DATE
SEPTEMBER 26, 200

Federal Emergency Management Agency

NOTES TO USERS

LEGEND



PANEL 2325E

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

KERN COUNTY,

CALIFORNIA

AND INCORPORATED AREAS

PANEL 2325 OF 4125

MAP NUMBER 06029C2325

EFFECTIVE DATE SEPTEMBER 26, 200

Federal Emergency Management Agency

Photograph 1:
Project: Bena Sanitary Landfill (SPK-2014-00236)
Taken By: James Robb, USACE
Date: May 8, 2014

View looking from Malaga Road to the east at Caliente Creek. Caliente Creek ends at Malaga Road. There are not culverts or other evidence of a hydrologic connection with Caliente Creek to navigable waters.

Photograph 2:
Project: Bena Sanitary Landfill (SPK-2014-00236)
Taken By: James Robb, USACE
Date: May 8, 2014

View looking from Malaga Road to the northast at Caliente Creek. Caliente Creek ends at Malaga Road. There are not culverts or other evidence of a hydrologic connection with Caliente Creek to navigable waters.

Photograph 3:
Project: Bena Sanitary Landfill (SPK-2014-00236)
Taken By: James Robb, USACE
Date: May 8, 2014

View looking from Malaga Road to the south-east at Caliente Creek. Caliente Creek ends at Malaga Road. There are not culverts or other evidence of a hydrologic connection with Caliente Creek to navigable waters.

Photograph 4:
Project: Bena Sanitary Landfill (SPK-2014-00236)
Taken By: James Robb, USACE
Date: May 8, 2014

View looking south along the east shoulder of Malaga Road from the first power pole north of Caliente Creek. There is no drainage ditch along the road. Caliente Creek does not flow through a drainage ditch along the eastern side of Malaga Road to the north. During high flows, Malaga Road may flood with water from Caliente Creek.

Photograph 5:
Project: Bena Sanitary Landfill (SPK-2014-00236)
Taken By: James Robb, USACE
Date: May 8, 2014

View looking south along the east shoulder of Malaga Road from the first power pole north of Caliente Creek. There is no drainage ditch along the road. Caliente Creek does not flow through a drainage ditch along the eastern side of Malaga Road to the north. During high flows, Malaga Road may flood with water from Caliente Creek.

Photograph 6:
Project: Bena Sanitary Landfill (SPK-2014-00236)
Taken By: James Robb, USACE
Date: May 8, 2014

View looking north from the intersection of Malaga Road and Mountain View Road, approximately ½ mile to the north of the end of Caliente Creek There is no drainage ditch along the north or south sides of Mountain View Road to the east or west.

Photograph 7:
Project: Bena Sanitary Landfill (SPK-2014-00236)
Taken By: James Robb, USACE
Date: May 8, 2014

View looking east at the shoulder of Mountain View Road, west of the location in Photograph 6. south along the east shoulder of Malaga Road from the first power pole north of Caliente Creek. There is no drainage ditch along the north or south sides of Mountain View Road to the east or west.

Photograph 8:
Project: Bena Sanitary Landfill (SPK-2014-00236)
Taken By: James Robb, USACE
Date: May 8, 2014

View looking west from the east side of Edison Road, approximately ½ mile north of Mountain View Road. There is no drainage ditch located along the east or west sides of Edison to carry flows from Caliente Creek to the ditch shown in this photographs.

Photograph 9:
Project: Bena Sanitary Landfill (SPK-2014-00236)
Taken By: James Robb, USACE
Date: May 8, 2014

View looking west from the east side of Edison Road, approximately ½ mile north of Mountain View Road. There is no drainage ditch located along the east or west sides of Edison to carry flows from Caliente Creek to the ditch shown in this photographs.

Photograph 9:
Project: Bena Sanitary Landfill (SPK-2014-00236)
Taken By: James Robb, USACE
Date: May 8, 2014

View looking south from the west side of Edison Road, approximately ½ mile north of Mountain View Road. There is no drainage ditch located along the east or west sides of Edison to carry flows from Caliente Creek to the ditch shown in this photographs.

Photograph 9:
Project: Bena Sanitary Landfill (SPK-2014-00236)
Taken By: James Robb, USACE
Date: May 8, 2014

View looking east from the west side of Edison Road, approximately ½ mile north of Mountain View Road. There is no drainage ditch located along the east or west sides of Edison to carry flows from Caliente Creek to the ditch shown in this photographs.

Thursday, Feb 09 2006 04:05 PM

Lamont should brace for future flood waters

By STUART PYLE

With winter coming on, it seems a little rain would be a good thing for Kern County. But then I think about a possible five inch rain centere over Caliente Creek, like the one in Los Angeles recently. I worry about what might happen in Lamont.

Even though Kern County has made expensive improvements to some areas where Lamont gets flooded, some changes made at th Tamarisk levee-dam have created a disaster waiting to happen.

Over the past three years, the county has spent about $8 million on three flood projects for Lamont that give more storage for flood wate coming down Panama Road, open up the drain ditches on the west side of the tracks on Panama Road and divert flood water around th Reynolds Tract area.

With this new work and the same size floods as in 1995 and 1998 when Caliente Creek flood water made a mess of Lamont, it is possible tha the roads would still be flooded, but Lamont might get by with little or no damage.

In all past floods, a good share of the water has flowed through openings in the Tamarisk levee-dam and made its way into natural channel south of Arvin. What is different now is that all of the openings in the levee have been blocked with dirt and concrete blocks right up to th top.

That means that all of the flood water from Caliente Creek will be turned to the west and flow through artificial channels or on the count roads right into Lamont. The new plugs were put in after the 1998 flood.

Why doesn't someone do something about this? The county has spent millions on Lamont flooding but seems to ignore that the levee-dam creates an unnatural condition. The Tamarisk levee-dam did not exist when the largest known flood happened in 1932. After that, the leve was put up and trees were planted on it. Now, it is two and a half miles long, 20 feet high in some places, and reinforced with concret blocks, and old car bodies. A solid barrier.

Does the county know about it? Well, it has certainly been told about it many times. It seems to believe it is absolved of any responsibilit for damage the levee might cause as the results of several recent lawsuits.

It is willing to include remedial actions in the list of projects that make up a long-range Kern Lake Basin Flood Management Plan that wa adopted earlier this year. However, those actions depend on massive financing and might take 20 or 40 years before any actual floo channels and floodwater disposal areas come into being.

In the meantime, Lamont sits there with the full potential for all the flood water from Caliente Creek smashing into it. Is it possible tha Lamont, once a depression-era haven for refugees from the Dust Bowl and now a center for a large Hispanic population, is suffering from the stigma of second class citizenship?

Why and where else would this potentially dangerous situation be allowed to persist?

Stuart Pyle, engineering consultant to the Lamont Storm Water District and former general manager of the Kern County Water Agency.

Tuesday, Dec 21 2010 07:22 PM

Lamont canal survives storm

BY GRETCHEN WENNER, Californian staff writer gwenner@bakersfield.com

LAMONT -- Lamont residents were again spared major flooding Tuesday as officials continued efforts to keep a canal from breaking.

Their worst fears -- that the Eastside Canal wouldn't be able to hold all of the floodwater pouring into it -- were kept in check as rainfa eased overnight. But work shoring up the canal's weak spots was still needed.

The canal broke in numerous places in 1983, contributing to an epic flood. Lamont, a community about 15 miles southeast of Bakersfield was flooded again in 1995 and 1998, though the canal held those years.

Mark Mulkay, general manager of the Kern Delta Water Storage District, which owns the canal, was busy putting out fires Tuesday.

He'd been working all day to fix a section above Bear Mountain Boulevard, perhaps 100 feet long, that had broken around 10:30 p.m Monday, unleashing water over farmland and near some homes.

On Tuesday, a small leak where the canal crossed Di Giorgio Road had sent water flowing toward houses in central Lamont, panickin residents. Such little overpours aren't necessarily a bad thing.

"It spreads out the hurt," he said.

But county firefighters had patched the leak, which caused more headaches: A worker downstream had been on a tractor in the canal. Th sudden rise in water levels endangered him and left the tractor submerged.

"The problem is, it dead ends," Mulkay said of the canal.

That means Mulkay has to find places for excess water to go as floodwater enters the canal. So far, farmers have agreed to take water the don't need to help prevent catastrophe.

"This is not a flood control structure," Mulkay said. "It's an irrigation canal."

Other canals owned by the district have also served as an outlet to ease flooding in Bakersfield and elsewhere, he said.

The Eastside Canal runs more than 18 miles from the Kern River, near Manor Street, to a spot below Bear Mountain Boulevard, west o Arvin.

While a break from rain meant the worst problems were under control Tuesday, Kern County officials went ahead with a plan to pum water from the canal into a new storm drain system on Panama Road.

Workers from water-handling company Rain for Rent were installing three large pumps Tuesday afternoon, each capable of handling 4 cubic feet per second.

"They are big pumps," said Chuck Lackey, head of the county's engineering department.

Lackey hopes the pumps, which were ordered Monday night, will take pressure off the canal. The pumping may no longer be needed for th current storm, but Lackey wants the system tested anyway.

"If there is a flood in the future, it will be another tool we can use," he said.

The county's new storm drain system, which was built around 2004 and routes water west of town through a series of basins and drainfield, was given its first big test by the weekend downpours.

"It's extremely successful," Lackey said of the structure.

A breach of the canal north of town, by Kam Avenue, allowed floodwaters to pour into the canal. The county had also designed a floo control system there, but the sheer volume of Caliente Creek floodwater exceeded the system's capacity, Lackey said.

Some residents narrowly escaped flooding that swamped some streets.

Ruby Garcia's family piled sandbags to keep water out of their home on Mountain View Road on Monday, as did neighbors. Water cam over the driveway, almost to the front door, but stopped just feet from the house.

"It's pretty scary when you see water coming up right here," Garcia said Tuesday.

Residents in Arvin, Lamont threatened by creek flooding
By Amity Addrisi, Eyewitness News Published: Dec 20, 2010 at 7:28 PM PDT Last Updated: Dec 20, 2010 at 7:28 PM PDT

»Play Video

Related Content

- Record rainfall closes roads, prompts evacuations
- List: Kern County roads closed for flooding
- Calif. rain shatters records, and more is coming

ARVIN, Calif. -- As the rainfall continued, storm water basins in Lamont were getting dangerously full, threatening to flood homes nearby.

Juan Esquivel lives near the Caliente Creek storm flood water basin where the levees are close to capacity. Esquivel said, "My concern is that water is going to go in the houses, because we're so close to the canals, we're already in a flood zone risk."

Through the storm, Esquivel is holding his breath, hoping his home doesn't end up under water and plans to use sandbags to protect his home. The threat of water flooding over the levees in Lamont is a big concern and caused the evacuation of a the Lamont Children's Development Center on Monday afternoon.

Caliente Creek is causing more problems up stream near Arvin. There, the raging water is washing away the land near one home off Comanche Road. Hugo Figueroa lives there and says the fire department told him and his family to evacuate.

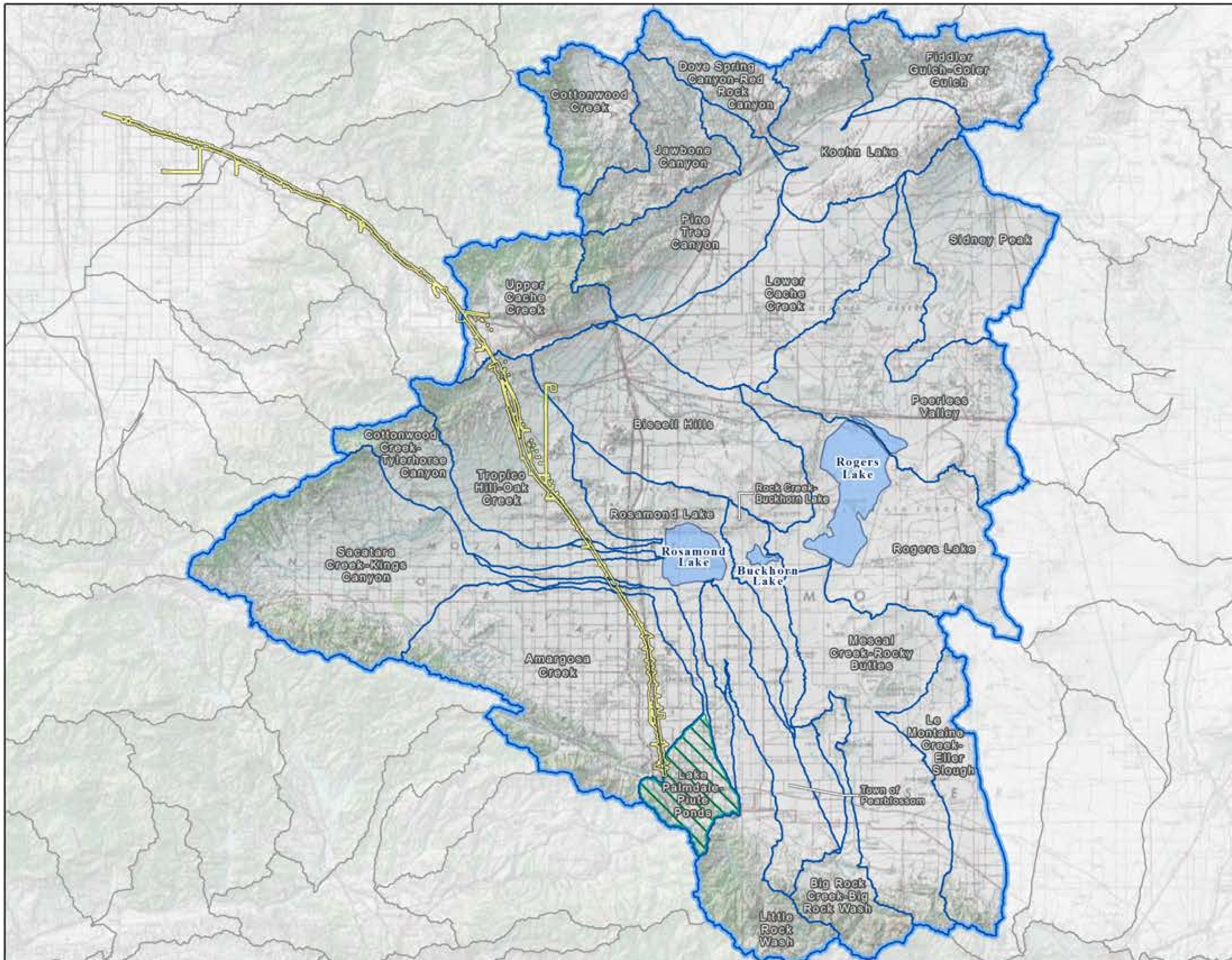
The Caliente Creek flood channel at Comanche Road was built in the 1990s to protect from flooding, but, with the record rainfall, dirt and debris has clogged the system, causing the base of the bridge to erode.

Because of the damage to the bridge, Comanche Road at Caliente Creek is closed indefinitely. Getting around that closure is almost impossible. Flooding has washed out several roads between Lamont and Arvin, including Malaga and Vineland roads.

Back in Lamont home owners like Esquivel say they can only watch and wait.

"I am gonna stay awake and see what's going on, because I have a friend up in the lake, he told me it's raining a lot and all that rain is coming down here and here it doesn't stop raining either," Esquivel said.

The Kern County Roads Department and the Kern County Fire Department are working to try to divert the flooding away from homes.



Antelope-Fremont Valleys HUC-8
HUC-10 Watersheds
Lake Palmdale HUC-12 Watershed
Wetlands Study Area (Project Footprint + 250 ft Buffer)

N
0 10 20 Miles
0 16 32 Kilometers

Antelope-Fremont Valleys Watershed Overview

July 5, 2017

PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED

SOURCE: ESRI/USGS Topographic Basemap (2017); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/ National Hydrography Dataset (2015).

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

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

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): August 25, 2017

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: SPL-2010-00945-VCL-JD-1

C. PROJECT LOCATION AND BACKGROUND INFORMATION:
State: CA County/parish/borough: Kern County City: N/A
Center coordinates of site (lat/long in degree decimal format): Lat. 35.038628° N, Long. -118.285486° W.
Universal Transverse Mercator: 382749 m E, 3878082 m N
Name of nearest waterbody: Nearest named stream is Oak Creek in adjacent watershed to the west.
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A
Name of watershed or Hydrologic Unit Code (HUC): Bissell Hills (California), HUC10 #1809020620
☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☒ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):
☒ Office (Desk) Determination. Date: July 25, 2017
☐ Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]
☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are no** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
      ☐ TNWs, including territorial seas
      ☐ Wetlands adjacent to TNWs
      ☐ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
      ☐ Non-RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      ☐ Impoundments of jurisdictional waters
      ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
      Non-wetland waters: linear feet: width (ft) and/or acres.
      Wetlands: acres.

   c. **Limits (boundaries) of jurisdiction** based on: **Not Applicable.**
      Elevation of established OHWM (if known): .

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:
   Within the project area of the Bissel Hills HUC 10, there are a total of 8 aquatic features. These features are all segments of unnamed ephemeral desert wash stream features, spanning a total of approximately 3,168 linear feet (0.60 mile) and covering approximately 0.29 acre. These features are quantified in this analysis and identified in the attached report to demonstrate that all surface aquatic resources in the study area were evaluated to determine their

---

[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

type and water source, and to investigate for connections to waters of the U.S. Labeled maps and tables of aqautic features and dimensions are provided in the Aquatic Resources Delineation Report, which identifies each feature according to which HUC-10 watershed it occurs within.

The unnamed ephemeral desert streams, features Str_0313 through Str_0317 flow offsite toward Rogers Dry Lake (note that features Str_0314 and Str_0316 have multiple segments and are labeled as such in attached tables [e.g. Str_0314-001, Str_0314-002, etc.]). The features in the study area are ephemeral streams that are not used for commerce. Downstream of the study area, these features dissipate and do not have a defined channel that can be traced all the way to the terminal point in the watershed. These features are similar to many other streams in the Antelope Valley Watershed that have well-defined channels where they originate in the mountains and foothills, but dissipate on the valley floor, where water movement during storms is primarily sheet flow. The hydrologic connection to the low point in the Antelope Valley watershed, Rogers, Rosamond, and Buckhorn Dry Lakes, is primarily through sheet flow during storms. A review of topographic maps and watershed boundary datasets indicates that waters from the study area drain toward Rogers Dry Lake.

There are no Traditional Navigable Waters (TNWs) or Relatively Permanent Waters (RPWs) in the study area, and the ephemeral desert streams in the study area are not tributaries to RPWs or TNWs. A previous SWANCC watershed-level Approved JD for Antelope Valley (HUC10 #s 1809020609 through 1809020624, excluding those portions of HUC12s 18090206151, 1901902061102, and 180902061103 that drain toward Lake Palmdale and its tributaries) determined that Rosamond, Buckhorn and Rogers Dry Lakes, and their tributaries, (i.e. the Antelope Valley Watershed, excluding Lake Palmdale and tributaries to Lake Palmdale) are non-jurisdictional waters of the United States under SWANCC. This determination, SPL-2011-01084-SLP, dated June 7, 2013, found that these Antelope Valley waters are not tributary to either a TNW or an (a)(3) water and Rosamond, Buckhorn and Rogers Dry Lakes are not (a)(3) waters themselves. The Corps made this watershed conclusion because the Antelope Valley watershed is an isolated, intrastate watershed without any surface water related interstate commerce. This previous determination is still in effect, and is appended as a supporting document for this determination.

The above is based upon the review of aerial photographs (Google Earth, accessed July 25, 2017) that also did not show surface water usage of the project drainages or the Rosamond Dry Lake terminus. Since the Rosamond Dry Lake is an intrastate, isolated water without a surface water connection to commerce (see prior AJD file No. SPL-2011-01084-SLP), the subject eight ephemeral desert stream segments, as part of the same overall system, are also isolated and additionally have no nexus to commerce.

Based on the information above, the subject eight ephemeral desert stream segments, are NONJURISDICTIONAL waters of the United States, since the waters are NOT tributary to either a TNW or an (a)(3) water and are NOT (a)(3) waters themselves. The Corps makes such a conclusion since the waters are tribuatary to an isolated, intrastate dry lake.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. **TNW**
   Identify TNW: .

   Summarize rationale supporting determination: .

2. **Wetland adjacent to TNW**
   Summarize rationale supporting conclusion that wetland is "adjacent": .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

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

   (ii) Physical Characteristics:
   (a) Relationship with TNW:
   ☐ Tributary flows directly into TNW.
   ☐ Tributary flows through **Pick List** tributaries before entering TNW.

   Project waters are **Pick List** river miles from TNW.
   Project waters are **Pick List** river miles from RPW.
   Project waters are **Pick List** aerial (straight) miles from TNW.
   Project waters are **Pick List** aerial (straight) miles from RPW.
   Project waters cross or serve as state boundaries. Explain: .

   Identify flow route to TNW[5]: .
   Tributary stream order, if known: .

[4] Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

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

Tributary is:
- ☐ Natural
- ☐ Artificial (man-made). Explain: .
- ☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):

Average width: feet

Average depth: feet

Average side slopes: **Pick List.**

Primary tributary substrate composition (check all that apply):

☐ Silts	☐ Sands	☐ Concrete
☐ Cobbles	☐ Gravel	☐ Muck
☐ Bedrock	☐ Vegetation. Type/% cover:	
☐ Other. Explain: .		

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .

Presence of run/riffle/pool complexes. Explain: .

Tributary geometry: **Pick List**

Tributary gradient (approximate average slope): %

(c) Flow:

Tributary provides for: **Pick List**

Estimate average number of flow events in review area/year: **Pick List**

Describe flow regime: .

Other information on duration and volume: .

Surface flow is: **Pick List.** Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .

☐ Dye (or other) test performed: .

Tributary has (check all that apply):

☐ Bed and banks

☐ OHWM[6] (check all indicators that apply):

☐ clear, natural line impressed on the bank	☐ the presence of litter and debris
☐ changes in the character of soil	☐ destruction of terrestrial vegetation
☐ shelving	☐ the presence of wrack line
☐ vegetation matted down, bent, or absent	☐ sediment sorting
☐ leaf litter disturbed or washed away	☐ scour
☐ sediment deposition	☐ multiple observed or predicted flow events
☐ water staining	☐ abrupt change in plant community
☐ other (list):	

☐ Discontinuous OHWM.[7] Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☐ High Tide Line indicated by:	☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects	☐ survey to available datum;
☐ fine shell or debris deposits (foreshore)	☐ physical markings;
☐ physical markings/characteristics	☐ vegetation lines/changes in vegetation types.
☐ tidal gauges	
☐ other (list):	

(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: .

Identify specific pollutants, if known: .

[6]A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

[7]Ibid.

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

☐ Riparian corridor. Characteristics (type, average width): .
☐ Wetland fringe. Characteristics: .
☐ Habitat for:
  ☐ Federally Listed species. Explain findings: .
  ☐ Fish/spawn areas. Explain findings: .
  ☐ Other environmentally-sensitive species. Explain findings: .
  ☐ Aquatic/wildlife diversity. Explain findings: .

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

(i) Physical Characteristics:

(a) General Wetland Characteristics:
Properties:
  Wetland size: acres
  Wetland type. Explain: .
  Wetland quality. Explain: .
Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:
Flow is: **Pick List**. Explain: .

Surface flow is**: Pick List**
  Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .
  ☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:
☐ Directly abutting
☐ Not directly abutting
  ☐ Discrete wetland hydrologic connection. Explain: .
  ☐ Ecological connection. Explain: .
  ☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW
Project wetlands are **Pick List** river miles from TNW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Flow is from: **Pick List.**
Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .
Identify specific pollutants, if known: .

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

☐ Riparian buffer. Characteristics (type, average width): .
☐ Vegetation type/percent cover. Explain: .
☐ Habitat for:
  ☐ Federally Listed species. Explain findings: .
  ☐ Fish/spawn areas. Explain findings: .
  ☐ Other environmentally-sensitive species. Explain findings: .
  ☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List**
Approximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   ☐ TNWs: linear feet width (ft), Or, acres.
   ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
   ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

3. **Non-RPWs[8] that flow directly or indirectly into TNWs.**
☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: **.**

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**
☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **.**

☐ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**
☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**
☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.[9]**
As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
☐ Demonstrate that impoundment was created from "waters of the U.S.," or
☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]
☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
☐ which are or could be used for industrial purposes by industries in interstate commerce.
☐ Interstate isolated waters. Explain: .
☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

---

[8]See Footnote # 3.
[9] To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
[10] Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.*

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: **.**
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☒ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☐ Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
☐ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: **.**
☐ Other: (explain, if not covered above): **.**

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
☒ Non-wetland waters (i.e., rivers, streams): **3,168** linear feet **averaging 2-8 feet in** width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

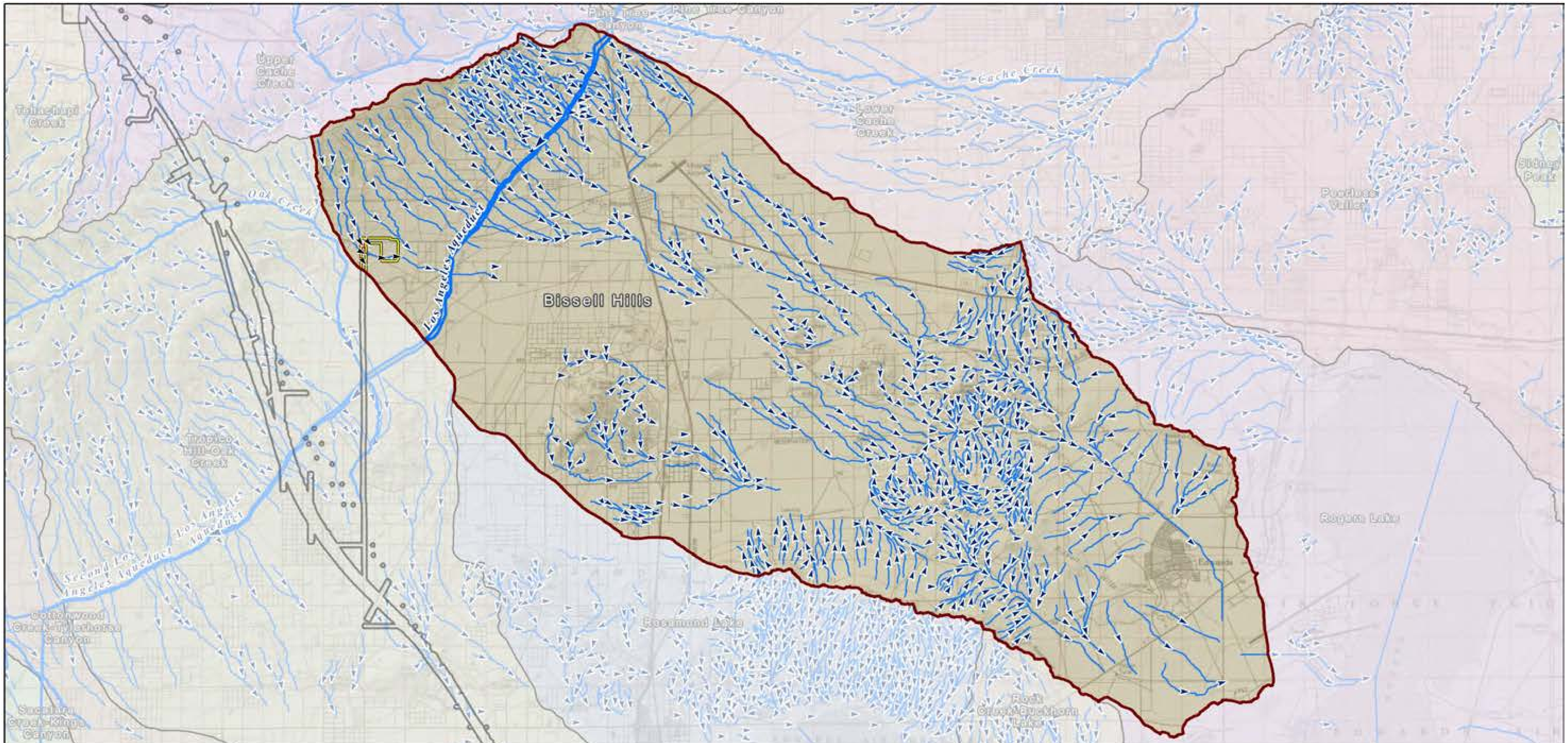
Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Features are depicted on Map Sheets 119-121 in Appendix E of the submitted delineation.
☐ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps: .
☐ Corps navigable waters' study: .
☒ U.S. Geological Survey Hydrologic Atlas: See enclosed map package for NHD flowline and watershed boundary data.
☒ USGS NHD data.
☒ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: Monolith 7.5 minute quadrangle (See enclosed map package).
☐ USDA Natural Resources Conservation Service Soil Survey. Citation: .
☐ National wetlands inventory map(s). Cite name: .
☐ State/Local wetland inventory map(s): .
☐ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date): NAIP Imagery 2005 and 2014 at 1-m resolution; Kern County Imagery 2010 and 2014 at 1-foot resolution.
or ☐ Other (Name & Date): .
☒ Previous determination(s). File no. and date of response letter: SPL-2011-01084-SLP, June 7, 2013.
☐ Applicable/supporting case law: .
☐ Applicable/supporting scientific literature: .
☒ Other information (please specify): Aquatic Resources Delineation Report prepared by the applicant/consultant references additional materials, including soil survey and National Wetlands Inventory data; also note Appendix E contains map sheets; Appendix F contains dimensions. HUC watershed maps of review areas with NHD Data provided by the applicant/consultant.

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Waters_Name	Cowardin_Code	HGM_Code	Amount	Units	Latitude	Longitude
Str_0313	R6	RIVERINE	0.04	ACRE	35.0372307	-118.2928298
Str_0314-001	R6	RIVERINE	0.05	ACRE	35.0307880	-118.2916851
Str_0314-002	R6	RIVERINE	0.07	ACRE	35.0319180	-118.2928668
Str_0315	R6	RIVERINE	0.01	ACRE	35.0380074	-118.2902115
Str_0316-001	R6	RIVERINE	0.02	ACRE	35.0324157	-118.2841035
Str_0316-002	R6	RIVERINE	0.02	ACRE	35.0339833	-118.2916350
Str_0316-003	R6	RIVERINE	0.03	ACRE	35.0345850	-118.2927434
Str_0317	R6	RIVERINE	0.05	ACRE	35.0328932	-118.2776952.



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 14, 2016

N

0 1.5 3 Miles
0 2.5 5 Kilometers

BP HSR Mapped Streams with OHWM in Bissell Hills Watershed Study Area

Culvert

Ephemeral Stream

Study Area in the Bissell Hills Watershed

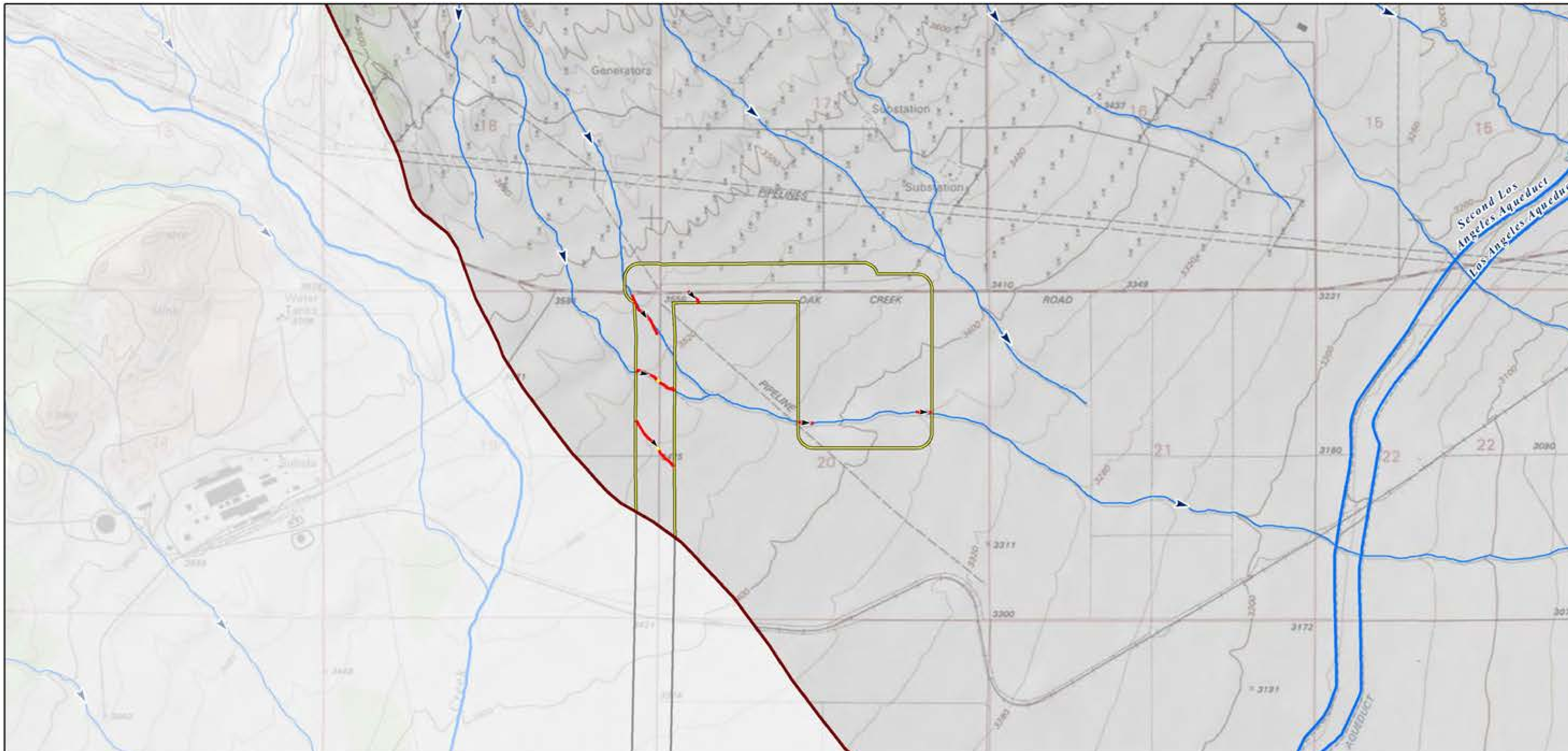
Bissell Hills Watershed HUC-10

Other HUC-10 Watersheds

Wetlands Study Area (Project Footprint + 250 ft Buffer)

Direction of flow based on NHD flowlines

Bissell Hills Watershed
Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 14, 2016

BP HSR Mapped Streams with OHWM in Bissell Hills Watershed Study Area

- Culvert
- Ephemeral Stream

Study Area in the Bissell Hills Watershed

Bissell Hills Watershed HUC-10

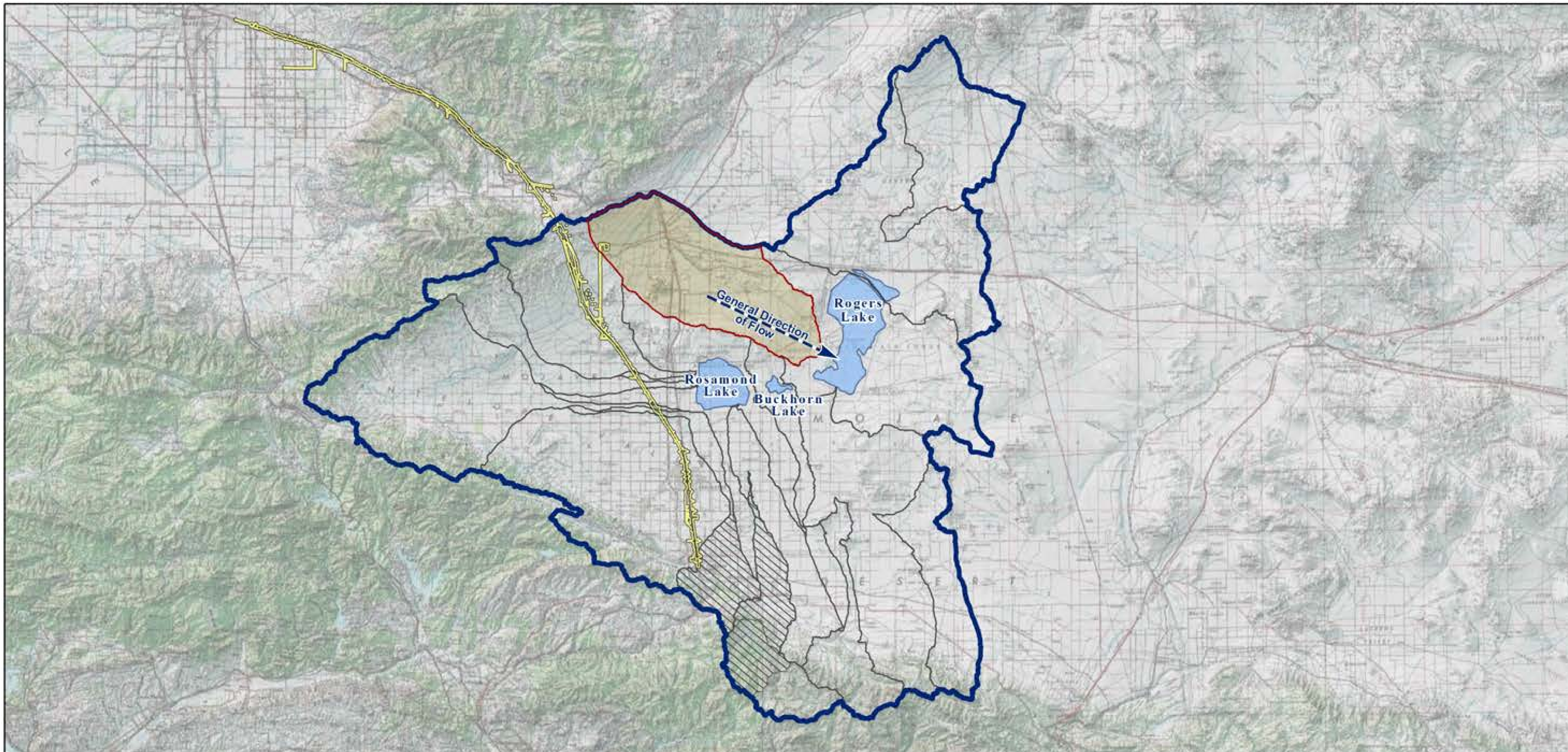
Wetlands Study Area (Project Footprint + 250 ft Buffer)

Direction of flow based on NHD flowlines

N

0 0.2 0.4 Miles
0 0.3 0.6 Kilometers

Bissell Hills Watershed
Study Area Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 17, 2016

N

0 5 10 Miles

0 8 16 Kilometers

Bissell Hills Watershed HUC-10

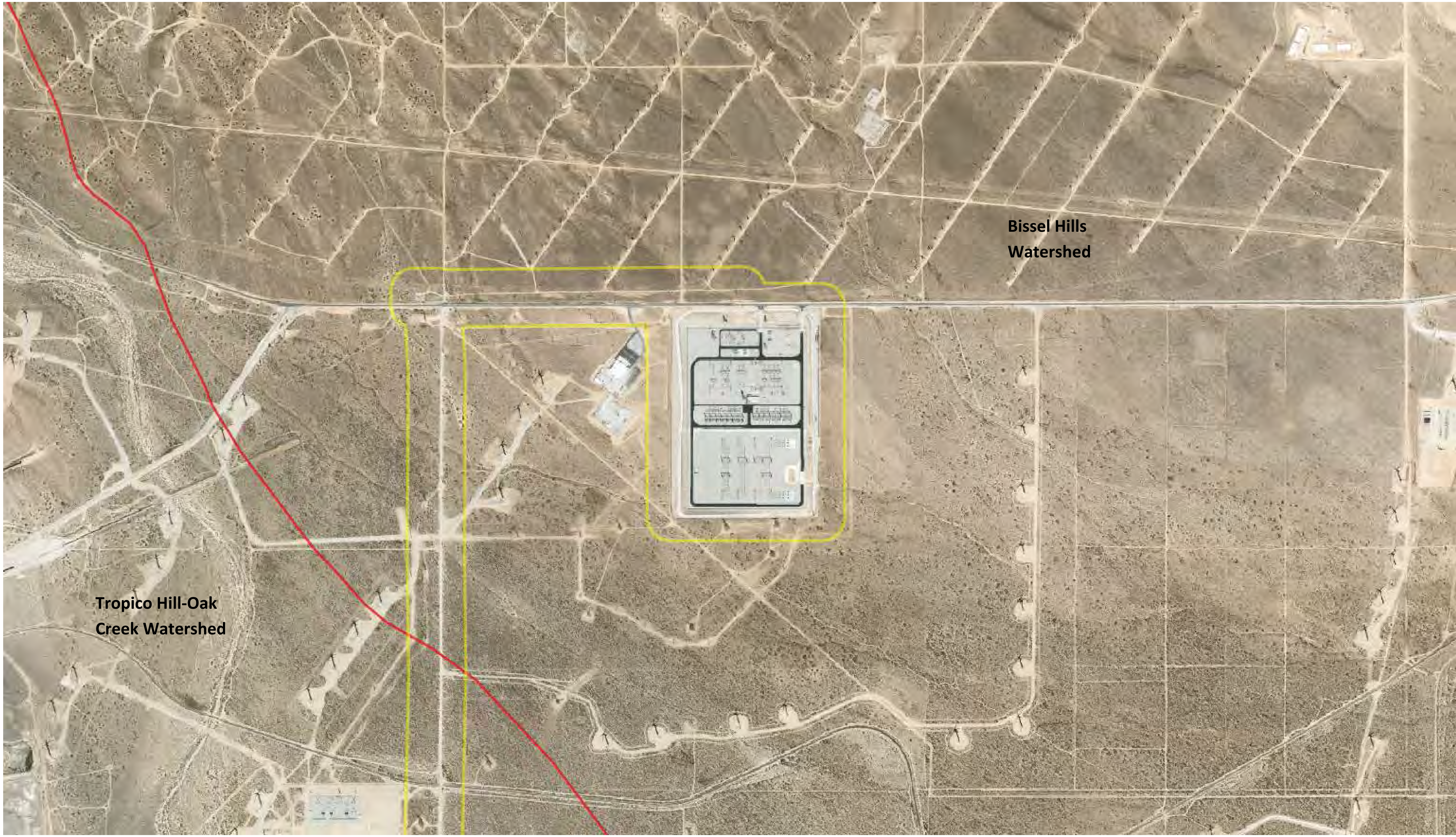
Antelope Valley Watershed (as described in SPL-2011-01084-SLP)

HUC-12 Watersheds excluded from SPL-2011-01084-SLP

Wetlands Study Area (Project Footprint + 250 ft Buffer)

The U.S. Army Corps of Engineers issued a SWANCC watershed-level Approved Jurisdictional Determination for Antelope Valley (HUC 10 #s 1809020609 through 1809020624) on June 7, 2013. Note that this determination specifically excluded the areas of Lake Palmdale and all waters tributary to Lake Palmdale (portions of HUC 12 #s 180902061501, 180902061102, 180902061103). This figure illustrates the location of the study area relative to the previous watershed-level decision.

Bissell Hills Watershed
Location Within Antelope Valley Watershed



Kern County 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.

Kern County 2010 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.

NAIP 2005 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.

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

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

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): July 28, 2017

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: SPL-2010-00945-VCL - JD 2

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: CA County/parish/borough: Kern County City: N/A
Center coordinates of site (lat/long in degree decimal format): Lat. 34.95424° N, Long. -118.32405° W.
Universal Transverse Mercator: 379107 m E, 3868768 m N
Name of nearest waterbody: Oak Creek
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A
Name of watershed or Hydrologic Unit Code (HUC): Tropico Hill- Oak Creek, California, 1809020617
☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☒ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form.

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

☒ Office (Desk) Determination. Date: July 25, 2017
☐ Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]

☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are no** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
      ☐ TNWs, including territorial seas
      ☐ Wetlands adjacent to TNWs
      ☐ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
      ☐ Non-RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      ☐ Impoundments of jurisdictional waters
      ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
      Non-wetland waters: linear feet: width (ft) and/or acres.
      Wetlands: acres.

   c. **Limits (boundaries) of jurisdiction** based on: **Not Applicable.**
      Elevation of established OHWM (if known): .

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☐ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

The project area containsa total of 157 aquatic features. These features include Oak Creek, which is an intermittent stream in the southern Tehachapi foothills with four segments and an associated seasonal wetland in the study area, and becomes an ephemeral wash on the desert floor with five segments in the study area, before dissipating near Cactus Queen Mine. Additional

[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

unnamed aquatic features in the study area include two intermittent streams segments, 18 seasonal wetland features, 33 ephemeral stream features, 54 ephemeral desert wash features, 10 forested wetland features, 28 claypan features, and two features formed through ponding in desert developed areas. Intermittent streams span a total of approximately 6,370 linear feet (1.21 miles) and cover approximately 1.70 acres. Seasonal wetlands cover approximately 2.85 acres. Ephemeral streams and desert wash features span a total of approximately 80,923 linear feet (15.3 miles), and cover approximately 10.67 acres. Forested wetland features cover approximately 2.76 acres. Claypan features cover approximately 0.29 acre. Features of ponding in developed areas cover approximately 0.18 acre. Labeled maps and tables of features and dimensions are provided in the Aquatic Resources Delineation Report, which identifies each feature according to which HUC-10 watershed it occurs within. A completed copy of the Aquatic Resources sheet in the Consolidated ORM Upload Workbook is also appended.

Oak Creek, crosses the study area in two separate places, first in the foothills as an intermittent stream with season wetland, features Oak Creek_0273-001 through 0273-004 and Oak Creek_SW_0272, and then as an ephemeral desert wash, features Oak Creek_0302, Oak Creek_0303, and Oak Creek_0305-001 through 0305-003, as it flows east and southeast outside the study area toward Rosamond Dry Lake.

Additional intermittent streams, Str_0263-001 and Str_0263-002; ephemeral streams, Str_0232, Str_0234 through _0235, Str_0237, Str_0241, Str_0256, Str_0274 through Str_0283, Str_0285 through _0288 and Str_0290; and desert washes Str_0289, Str_0291 through Str_0301, Str_0304, Str_0306 through Str_0312, and Str_0318 through Str_0328, also generally flow east - southeast outside the study area toward Rosamond Dry Lake. Where aquatic features intersect existing roads, they typically flow beneath roadways in culverts. Note that several features have multiple segments and are labeled as such in attached tables [e.g. 0326-001, 0326-002, etc.). Most of the ephemeral desert wash and ditch features dissipate and do not have defined channels that can be traced all the way down to the terminal point in the watershed. These features are similar to many other streams in the Antelope Valley Watershed that have well-defined channels where they originate in the mountains and foothills, but dissipate on the valley floor, where water movement during storms is primarily sheet flow.

Forested wetlands, features FW_0233, FW_0246 through FW_0249, FW_0251, FW_252, FW_0254, FW_0255, and FW_0265, and seasonal wetlands SW_0238 and _0239, SW_0242, SW_0245, SW_0250 (11 segments), SW_0253-001 and -002 and SW_0261 occur along streams in the foothills in northern part of this study area. These aquatic features drain toward the aforementioned streams that ultimately flow toward Rosamond Dry Lake.

Ephemeral claypan features, CP_1000 through CP_1004, CP_1006 through CP_1008, CP_1010 through CP_1011, CP_1016 through CP_1020, and CP_1022 through CP_1034, are scattered in the southern portion of this the study area due to the relatively flat topography. These low-lying depressional features are ephemeral or intermittent, and typically hold water for a few weeks annually. Two areas of ponding in desert developed areas, features PD_1013 and PD_1021, that hold water for at least fourteen days after storms, were also identified in the study area. These aquatic features generally hold water for a few weeks similar to claypans.

All aquatic features within the study area are ephemeral or intermittent and are not used for commerce. The hydrologic connection to the low point in the Antelope Valley watershed, Rogers, Rosamond, and Buckhorn Dry Lakes, is primarily through sheet flow during storms. A review of topographic maps and watershed boundary datasets indicates that waters from the study area drain toward Rosamond Dry Lake.

There are no Traditional Navigable Waters (TNWs) or Relatively Permanent Waters (RPWs) in the study area, and the ephemeral and intermittent desert streams in the study area are not tributaries to RPWs or TNWs. A previous SWANCC watershed-level Approved JD for Antelope Valley (HUC10 #s 1809020609 through 1809020624, excluding those portions of HUC12s 18090206151, 1901902061102, and 180902061103 that drain toward Lake Palmdale and its tributaries) determined that Rosamond, Buckhorn and Rogers Lakes, and their tributaries, (i.e. the Antelope Valley Watershed, excluding Lake Palmdale and tributaries to Lake Palmdale) are non-jurisdictional waters of the United States under SWANCC. This determination, SPL-2011-01084-SLP, dated June 7, 2013, found that these Antelope Valley waters are not tributary to either a TNW or an (a)(3) water and Rosamond, Buckhorn and Rogers Dry Lakes are not (a)(3) waters themselves. The Corps made this watershed conclusion because the Antelope Valley watershed is an isolated, intrastate watershed without any surface water related interstate commerce.

In summary, Antelope Valley Watershed is a closed basin situated within the western Mojave Desert, with a system of Rosamond, Buckhorn, and Rogers Dry Lakes as the central watershed terminus point. The watershed is roughly triangular-shaped, bordered on the southwest by the San Gabriel Mountains and the San Andreas Fault, on the northwest by the Tehachapi Mountains and the Garlock Fault, and on the east by hills and buttes generally following the boundary line between Los Angeles and San Bernardino Counties. Rosamond and Rogers Dry Lakes are the lowest elevational points of the watershed, with only slight differences in their individual lowest elevations (2,274 feet and 2,270 feet above sea level, respectively). Historically, these dry lake areas once comprised a single lake area (Lake Thompson) in the late Pleistocene era. The three dry lakes are located immediately south and southeast of Rosamond Hills and Bissell Hills, within the Edwards Air Force Base. The overall Antelope Valley Watershed analyzed in SPL-2011-01084-SLP occupies an area of approximately 2,400 square miles. Historically, land use of the watershed consisted primarily of agriculture, but population growth has led to increased residential, industrial, and commercial uses within both previous agricultural lands and undeveloped areas.

Watershed surface flows are generated by mountain snow pack melting and by storm events. Most surface water flows within Antelope Valley typically either infiltrate into the groundwater basin or evaporate. However, during large storm events surface water continues to flow to the central three dry lakes situated on Edwards Air Force Base (Rosamond Dry Lake, Buckhorn Dry

Lake, and Rogers Dry Lake). Storm water runoff from the surrounding mountains and hills is typically carried by ephemeral stream courses. Within the Valley floor, runoff is primarily carried by sheetflow. Surface flows that reach the dry lakes are typically are subject to evaporation rather than deep infiltration due to underlying clay soils.

Additionally, a previous approved jurisdictional determination was made for Oak Creek and some tributaries to Oak Creek (SPL-2012-00214-SLP, JD-1) on June 28, 2012. This determination found that the terminus for Oak Creek and its tributaries is Rosamond Dry Lake, and reiterated the non-jurisdictional status of tributaries to Rosamond Dry Lake.

Previously approved jurisdictional determinations have been made for tributaries to these dry lakes. When these lakes were analyzed in SPL-2011-01084-SLP, the Corps found no published commercial uses of the surface waters of any tributaries to Rosamond, Buckhorn and Rogers Dry Lakes, and determined that a review of aerial photographs (Google Earth) also did not depict surface water usage of any drainages tributary to the dry lakes. The Corps found that all tributaries to Rosamond, Buckhorn and Rogers Dry Lakes are not (a)(3) waters as defined by 33 C.F.R. section 328.3(a)(3)(i-iii). The previous determination found that since Rosamond, Buckhorn and Rogers Dry Lakes are intrastate isolated, waters without a surface water connection to commerce, all tributaries to Rosamond, Buckhorn and Rogers Dry Lakes as part of the overall watershed system are also isolated and additionally have no nexus to commerce. A review of current conditions and updated literature review found that conditions have not changed since the SPL-2011-01084-SLP determination for Antelope Valley.

Based on the information above, the subject drainages Oak Creek, two intermittent streams segments, 18 seasonal wetland features, 33 ephemeral stream features, 54 ephemeral desert wash features, 10 forested wetland features, 28 claypan features, and two desert ponds are NONJURISDICTIONAL waters of the United States, since the waters are NOT tributary to either a TNW or an (a)(3) water and are NOT (a)(3) waters themselves. The Corps makes such a conclusion since the waters are tribuatary to an isolated, intrastate dry lake .

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW
Identify TNW: .

Summarize rationale supporting determination: .

2. Wetland adjacent to TNW
Summarize rationale supporting conclusion that wetland is "adjacent": .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

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

(ii) Physical Characteristics:
(a) Relationship with TNW:
☐ Tributary flows directly into TNW.
☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.
Project waters are **Pick List** river miles from RPW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Project waters are **Pick List** aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain: .

Identify flow route to TNW[5]: .
Tributary stream order, if known: .

[4] Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

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

Tributary is: ☐ Natural
☐ Artificial (man-made). Explain: .
☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):
Average width: feet
Average depth: feet
Average side slopes: **Pick List.**

Primary tributary substrate composition (check all that apply):

☐ Silts ☐ Sands ☐ Concrete
☐ Cobbles ☐ Gravel ☐ Muck
☐ Bedrock ☐ Vegetation. Type/% cover:
☐ Other. Explain: .

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .
Presence of run/riffle/pool complexes. Explain: .
Tributary geometry: **Pick List**
Tributary gradient (approximate average slope): %

(c) Flow:
Tributary provides for: **Pick List**
Estimate average number of flow events in review area/year: **Pick List**
Describe flow regime: .
Other information on duration and volume: .

Surface flow is: **Pick List.** Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .
☐ Dye (or other) test performed: .

Tributary has (check all that apply):
☐ Bed and banks
☐ OHWM[6] (check all indicators that apply):
☐ clear, natural line impressed on the bank ☐ the presence of litter and debris
☐ changes in the character of soil ☐ destruction of terrestrial vegetation
☐ shelving ☐ the presence of wrack line
☐ vegetation matted down, bent, or absent ☐ sediment sorting
☐ leaf litter disturbed or washed away ☐ scour
☐ sediment deposition ☐ multiple observed or predicted flow events
☐ water staining ☐ abrupt change in plant community
☐ other (list):
☐ Discontinuous OHWM.[7] Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):
☐ High Tide Line indicated by: ☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects ☐ survey to available datum;
☐ fine shell or debris deposits (foreshore) ☐ physical markings;
☐ physical markings/characteristics ☐ vegetation lines/changes in vegetation types.
☐ tidal gauges
☐ other (list):

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Explain: .
Identify specific pollutants, if known: .

[6]A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
[7]Ibid.

(iv) Biological Characteristics. Channel supports (check all that apply):
- ☐ Riparian corridor. Characteristics (type, average width): .
- ☐ Wetland fringe. Characteristics: .
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

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

(i) Physical Characteristics:

(a) General Wetland Characteristics:
Properties:
Wetland size: acres
Wetland type. Explain: .
Wetland quality. Explain: .
Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:
Flow is: **Pick List**. Explain: .

Surface flow is**: Pick List**
Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .
☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:
- ☐ Directly abutting
- ☐ Not directly abutting
  - ☐ Discrete wetland hydrologic connection. Explain: .
  - ☐ Ecological connection. Explain: .
  - ☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW
Project wetlands are **Pick List** river miles from TNW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Flow is from: **Pick List.**
Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:
Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .
Identify specific pollutants, if known: .

(iii) Biological Characteristics. Wetland supports (check all that apply):
- ☐ Riparian buffer. Characteristics (type, average width): .
- ☐ Vegetation type/percent cover. Explain: .
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)
All wetland(s) being considered in the cumulative analysis: **Pick List**
Approximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   ☐ TNWs: linear feet width (ft), Or, acres.
   ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
   ☐ Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

3. **Non-RPWs[8] that flow directly or indirectly into TNWs.**
☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: **.**

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**
☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **.**

☐ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**
☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**
☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.[9]**
As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
☐ Demonstrate that impoundment was created from "waters of the U.S.," or
☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]
☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
☐ which are or could be used for industrial purposes by industries in interstate commerce.
☐ Interstate isolated waters. Explain: .
☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

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[8]See Footnote # 3.
[9] To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
[10] Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.*

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: **.**
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☒ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☒ Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
☐ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: **.**
☐ Other: (explain, if not covered above): **.**

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
☒ Non-wetland waters (i.e., rivers, streams): **87,293** linear feet **averaging 1 to 25** width (ft).
☐ Lakes/ponds: acres.
☒ Other non-wetland waters: 0.48 acres. List type of aquatic resource: Claypans 0.29 acres and Ponding in Developed Areas 0.18 acres.
☒ Wetlands: 2.76 acres of forested wetlands and 2.85 acres of seasonal wetlands or a total of 5.61 acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Features are depicted on Map Sheets 79-132 in Appendix E of the submitted delineation..
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps: .
☐ Corps navigable waters' study: .
☒ U.S. Geological Survey Hydrologic Atlas: See attached Watershed maps for NHD flowlines and HUC boundaries.
☒ USGS NHD data.
☒ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: Willow Springs, Rosamond, Monolith, Tehachapi South7.5 minute quadrangles.
☐ USDA Natural Resources Conservation Service Soil Survey. Citation: .
☐ National wetlands inventory map(s). Cite name: .
☐ State/Local wetland inventory map(s): .
☐ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date): NAIP Imagery 2005 and 2014 at 1-m resolution; Kern County Imagery 2010 and 2014 at a 1-foot resolution .
or ☐ Other (Name & Date): .
☒ Previous determination(s). File no. and date of response letter: SPL-2011-01084-SLP, June 7, 2013.
☐ Applicable/supporting case law: .
☐ Applicable/supporting scientific literature: .
☒ Other information (please specify):Aquatic Resources Delineation Report prepared by the applicant/consultant references additional materials; also Appendix E contains map sheets; Appendix F contains dimensions. HUC watershed maps of review areas with NHD Data provided by the applicant/consultant; general use of NAIP Imagery 2009, 2010, and 2012 at 1-m resolution; Kern County

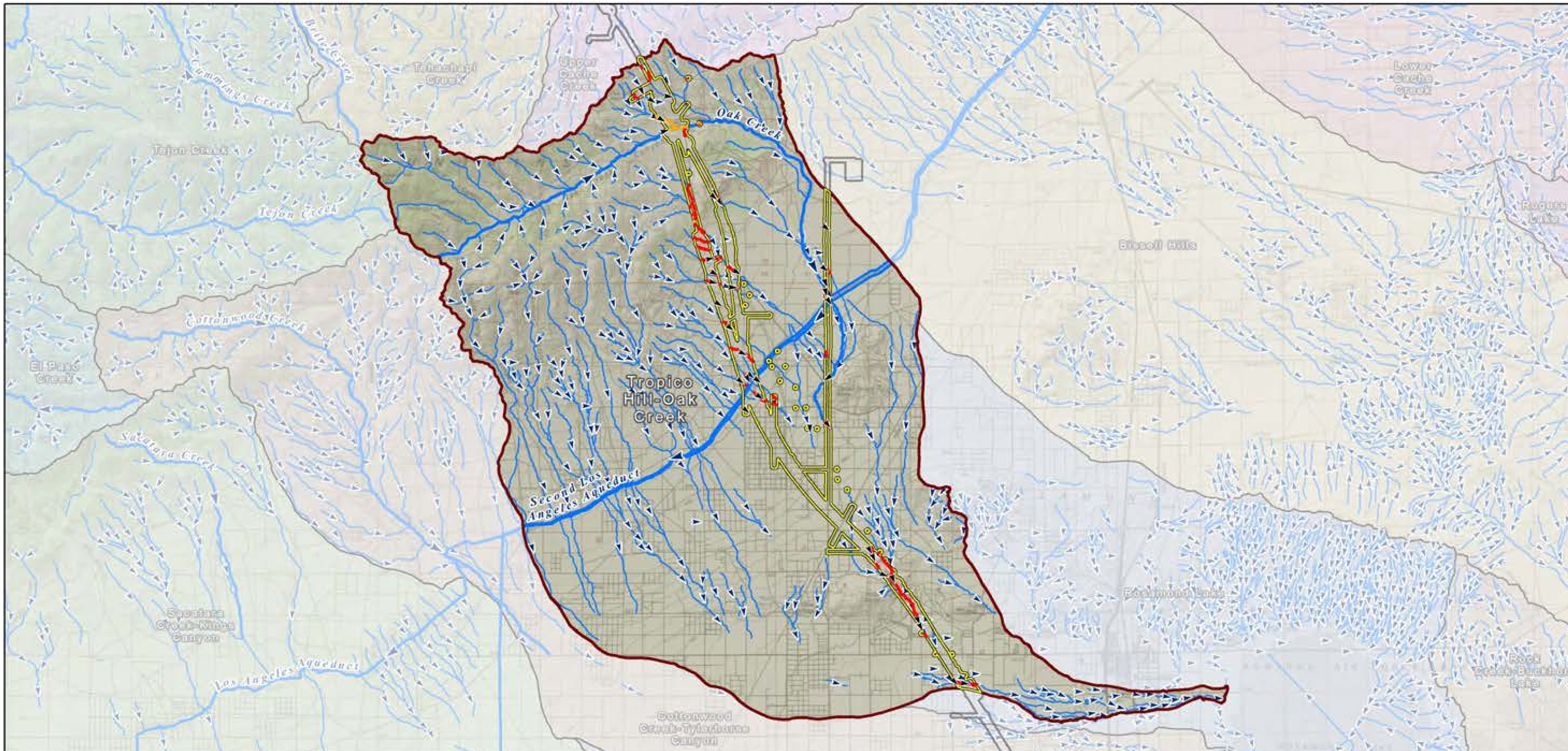
Imagery 2008 at 1-foot resolution; 2015 Site specific IR Imagery, 3-inch color pixel; Bing Aerial Imagery - multiple years (scale dependent); ESRI World Imagery (streaming service) multiple years (scale dependent); Google Earth Historic Photos (used for reference and includes portions from above listed sources).

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Waters_Name	Cowardin_Code	HGM_Code	Amount	Units	Waters_Type	Latitude	Longitude
Str_0232-001	R6	RIVERINE	0.008	ACRE	ISOLATE	35.07089964	-118.371989
Str_0232-002	R6	RIVERINE	0.05	ACRE	ISOLATE	35.07167768	-118.3723889
FW_0233	PSS	RIVERINE	0.39	ACRE	ISOLATE	35.070162	-118.369529
Str_0234	R6	RIVERINE	0.13	ACRE	ISOLATE	35.06812639	-118.3690731
Str_0235	R6	RIVERINE	0.0004	ACRE	ISOLATE	35.0618265	-118.3762554
Str_0237-001	R6	RIVERINE	0.05	ACRE	ISOLATE	35.06055966	-118.3748802
Str_0237-002	R6	RIVERINE	0.02	ACRE	ISOLATE	35.06166921	-118.3759774
SW_0238	PEM	SLOPE	0.13	ACRE	ISOLATE	35.062229	-118.373726
SW_0239	PEM	SLOPE	0.24	ACRE	ISOLATE	35.0627	-118.372948
Str_0241-001	R6	RIVERINE	0.03	ACRE	ISOLATE	35.05938215	-118.3679036
Str_0241-002	R6	RIVERINE	0.007	ACRE	ISOLATE	35.05953554	-118.3681928
Str_0241-003	R6	RIVERINE	0.27	ACRE	ISOLATE	35.06284235	-118.3720058
SW_0242	R4SB	RIVERINE	0.006	ACRE	ISOLATE	35.066395	-118.369173
SW_0245	PEM	SLOPE	0.20	ACRE	ISOLATE	35.065384	-118.367612
FW_0246	PSS	RIVERINE	0.57	ACRE	ISOLATE	35.064001	-118.366751
FW_0247	PSS	RIVERINE	0.51	ACRE	ISOLATE	35.062844	-118.365643
FW_0248	PSS	RIVERINE	0.14	ACRE	ISOLATE	35.062357	-118.36497
FW_0249	PSS	RIVERINE	0.17	ACRE	ISOLATE	35.062148	-118.364346
SW_0250-001	R4SB	RIVERINE	0.007	ACRE	ISOLATE	35.06631518	-118.3691178
SW_0250-002	R4SB	RIVERINE	0.39	ACRE	ISOLATE	35.06115369	-118.3620797
SW_0250-003	R4SB	RIVERINE	0.08	ACRE	ISOLATE	35.06189754	-118.3639417
SW_0250-004	R4SB	RIVERINE	0.02	ACRE	ISOLATE	35.06217143	-118.3645924
SW_0250-005	R4SB	RIVERINE	0.03	ACRE	ISOLATE	35.06255626	-118.3653438
SW_0250-006	R4SB	RIVERINE	0.11	ACRE	ISOLATE	35.06336059	-118.3661438
SW_0250-007	R4SB	RIVERINE	0.0007	ACRE	ISOLATE	35.06426596	-118.3671351
SW_0250-008	R4SB	RIVERINE	0.001	ACRE	ISOLATE	35.06438918	-118.3672127
SW_0250-009	R4SB	RIVERINE	0.32	ACRE	ISOLATE	35.06463373	-118.3674653
SW_0250-010	R4SB	RIVERINE	0.01	ACRE	ISOLATE	35.06520752	-118.3679605
SW_0250-011	R4SB	RIVERINE	0.14	ACRE	ISOLATE	35.06039312	-118.3605073
FW_0251	PSS	RIVERINE	0.06	ACRE	ISOLATE	35.06077432	-118.3595157
FW_0252	PSS	RIVERINE	0.21	ACRE	ISOLATE	35.066116	-118.362436
SW_0253-001	R4SB	RIVERINE	0.0009	ACRE	ISOLATE	35.06479534	-118.3614884
SW_0253-002	R4SB	RIVERINE	0.04	ACRE	ISOLATE	35.06577655	-118.3622546
FW_0254	PSS	RIVERINE	0.48	ACRE	ISOLATE	35.06556969	-118.3621369
FW_0255	PSS	RIVERINE	0.001	ACRE	ISOLATE	35.063691	-118.360766
Str_0256	R6	RIVERINE	0.02	ACRE	ISOLATE	35.06715497	-118.3528962
SW_0261	PEM	SLOPE	0.27	ACRE	ISOLATE	35.059503	-118.363689
Str_0263-001	R4SB	RIVERINE	0.0007	ACRE	ISOLATE	35.052274	-118.361668
Str_0263-002	R4SB	RIVERINE	1.15	ACRE	ISOLATE	35.05272393	-118.3614583
FW_0265	PSS	RIVERINE	0.23	ACRE	ISOLATE	35.060324	-118.360863
Str_0266	R6	RIVERINE	0.01	ACRE	ISOLATE	35.05879969	-118.3533507
OakCreek_0273-001	R4SB	RIVERINE	0.37	ACRE	ISOLATE	35.04945057	-118.3590331
OakCreek_0273-002	R4SB	RIVERINE	0.004	ACRE	ISOLATE	35.049709	-118.357418
OakCreek_0273-003	R4SB	RIVERINE	0.14	ACRE	ISOLATE	35.05027202	-118.3537842
OakCreek_0273-004	R4SB	RIVERINE	0.04	ACRE	ISOLATE	35.05167279	-118.3480346
OakCreek_SW_0272	PEM	RIVERINE	0.85	ACRE	ISOLATE	35.049986	-118.355916
Str_0274-001	R6	RIVERINE	0.09	ACRE	ISOLATE	35.04847843	-118.353961
Str_0274-002	R6	RIVERINE	0.004	ACRE	ISOLATE	35.05019723	-118.3528526
Str_0275-001	R6	RIVERINE	0.0008	ACRE	ISOLATE	35.05161593	-118.3481134
Str_0275-002	R6	RIVERINE	0.0004	ACRE	ISOLATE	35.05192819	-118.3522977
Str_0276	R6	RIVERINE	0.008	ACRE	ISOLATE	35.05105594	-118.3474543
Str_0277	R6	RIVERINE	0.004	ACRE	ISOLATE	35.05181788	-118.3468988
Str_0278	R6	RIVERINE	0.01	ACRE	ISOLATE	35.02974107	-118.3518117
Str_0279	R6	RIVERINE	0.35	ACRE	ISOLATE	35.02756826	-118.3518391
Str_0280-001	R6	RIVERINE	0.0008	ACRE	ISOLATE	35.02055	-118.350477
Str_0280-002	R6	RIVERINE	0.19	ACRE	ISOLATE	35.01886825	-118.3493744
Str_0280-003	R6	RIVERINE	0.08	ACRE	ISOLATE	35.01942449	-118.3503523
Str_0280-004	R6	RIVERINE	0.29	ACRE	ISOLATE	35.02198987	-118.3512186
Str_0281	R6	RIVERINE	1.40	ACRE	ISOLATE	35.02153518	-118.3493867

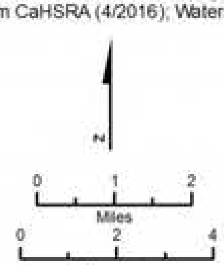
Str_0282	R6	RIVERINE	0.04	ACRE	ISOLATE	35.02491465	-118.3403424
Str_0283	R6	RIVERINE	0.14	ACRE	ISOLATE	35.02442684	-118.3391678
Str_0285-001	R6	RIVERINE	0.69	ACRE	ISOLATE	35.01421061	-118.3470793
Str_0285-002	R6	RIVERINE	0.001	ACRE	ISOLATE	35.01416	-118.347156
Str_0286	R6	RIVERINE	0.22	ACRE	ISOLATE	35.01027927	-118.3465063
Str_0287	R6	RIVERINE	0.19	ACRE	ISOLATE	35.00713853	-118.345548
Str_0288-001	R6	RIVERINE	0.09	ACRE	ISOLATE	35.00370159	-118.3398925
Str_0288-002	R6	RIVERINE	0.27	ACRE	ISOLATE	35.00334332	-118.3440616
Str_0289	R6	RIVERINE	0.06	ACRE	ISOLATE	34.9979731	-118.3409841
Str_0290	R6	RIVERINE	0.09	ACRE	ISOLATE	35.00408507	-118.338804
Str_0291-001	R6	RIVERINE	0.39	ACRE	ISOLATE	34.99982403	-118.3329638
Str_0291-002	R6	RIVERINE	0.05	ACRE	ISOLATE	35.00385264	-118.3382263
Str_0292-001	R6	RIVERINE	0.37	ACRE	ISOLATE	34.9931771	-118.3318504
Str_0292-002	R6	RIVERINE	0.74	ACRE	ISOLATE	34.99546241	-118.3410558
Str_0293	R6	RIVERINE	0.06	ACRE	ISOLATE	34.98733397	-118.3389431
Str_0294	R6	RIVERINE	0.17	ACRE	ISOLATE	34.98051687	-118.3351046
Str_0295	R6	RIVERINE	0.36	ACRE	ISOLATE	34.97015828	-118.3285573
Str_0296	R6	RIVERINE	0.02	ACRE	ISOLATE	34.96246179	-118.3271466
Str_0297	R6	RIVERINE	0.05	ACRE	ISOLATE	34.96154378	-118.3263624
Str_0298-001	R6	RIVERINE	0.04	ACRE	ISOLATE	34.95236697	-118.314833
Str_0298-002	R6	RIVERINE	0.10	ACRE	ISOLATE	34.95441451	-118.3213341
Str_0298-003	R6	RIVERINE	0.06	ACRE	ISOLATE	34.95943685	-118.3284496
Str_0299-001	R6	RIVERINE	0.04	ACRE	ISOLATE	34.95448041	-118.3148423
Str_0299-002	R6	RIVERINE	0.03	ACRE	ISOLATE	34.96075576	-118.3224763
Str_0299-003	R6	RIVERINE	0.02	ACRE	ISOLATE	34.96263851	-118.325201
Str_0300-001	R6	RIVERINE	0.02	ACRE	ISOLATE	34.94997614	-118.3267013
Str_0300-002	R6	RIVERINE	0.01	ACRE	ISOLATE	34.95047808	-118.3278945
Str_0301	R6	RIVERINE	0.009	ACRE	ISOLATE	34.94369619	-118.2996996
OakCreek_0302	R6	RIVERINE	0.16	ACRE	ISOLATE	34.94482524	-118.2922043
OakCreek_0303	R6	RIVERINE	0.06	ACRE	ISOLATE	34.96172241	-118.2917322
Str_0304	R6	RIVERINE	0.06	ACRE	ISOLATE	34.96994166	-118.2925356
OakCreek_0305-001	R6	RIVERINE	0.03	ACRE	ISOLATE	34.98852256	-118.2910917
OakCreek_0305-002	R6	RIVERINE	0.07	ACRE	ISOLATE	34.98905176	-118.2917905
OakCreek_0305-003	R6	RIVERINE	0.24	ACRE	ISOLATE	34.9913417	-118.2921901
Str_0306	R6	RIVERINE	0.03	ACRE	ISOLATE	34.99495854	-118.2928093
Str_0307	R6	RIVERINE	0.10	ACRE	ISOLATE	34.99285253	-118.2924373
Str_0308-001	R6	RIVERINE	0.06	ACRE	ISOLATE	34.99218396	-118.2914681
Str_0308-002	R6	RIVERINE	0.03	ACRE	ISOLATE	34.9939592	-118.2924704
Str_0309	R6	RIVERINE	0.03	ACRE	ISOLATE	34.99142148	-118.2914009
Str_0310	R6	RIVERINE	0.06	ACRE	ISOLATE	34.99861458	-118.2913142
Str_0311-001	R6	RIVERINE	0.07	ACRE	ISOLATE	34.99938	-118.29186
Str_0311-002	R6	RIVERINE	0.07	ACRE	ISOLATE	35.00010	-118.29294
Str_0312-001	R6	RIVERINE	0.02	ACRE	ISOLATE	35.01399273	-118.2918666
Str_0312-002	R6	RIVERINE	0.02	ACRE	ISOLATE	35.01471519	-118.2926763
Str_0318	R6	RIVERINE	0.03	ACRE	ISOLATE	34.90013307	-118.2732297
Str_0319	R6	RIVERINE	0.03	ACRE	ISOLATE	34.90011877	-118.2723393
Str_0320	R6	RIVERINE	0.09	ACRE	ISOLATE	34.89619945	-118.2711285
Str_0321-001	R6	RIVERINE	0.05	ACRE	ISOLATE	34.89617924	-118.2669376
Str_0321-002	R6	RIVERINE	0.006	ACRE	ISOLATE	34.89964014	-118.2696483
Str_0321-003	R6	RIVERINE	0.002	ACRE	ISOLATE	34.90017906	-118.2698337
Str_0322	R6	RIVERINE	0.15	ACRE	ISOLATE	34.892823	-118.2640874
Str_0323	R6	RIVERINE	0.12	ACRE	ISOLATE	34.89154733	-118.2657629
Str_0324	R6	RIVERINE	0.09	ACRE	ISOLATE	34.88927379	-118.2637535
Str_0325	R6	RIVERINE	0.02	ACRE	ISOLATE	34.8914772	-118.2632475
Str_0327	R6	RIVERINE	0.01	ACRE	ISOLATE	34.89090185	-118.2631937
Str_0326-001	R6	RIVERINE	0.0002	ACRE	ISOLATE	34.8895	-118.263177
Str_0326-002	R6	RIVERINE	0.15	ACRE	ISOLATE	34.8894491	-118.2633067
Str_0328	R6	RIVERINE	0.50	ACRE	ISOLATE	34.88340519	-118.2578687
Str_0329	R6	RIVERINE	0.02	ACRE	ISOLATE	34.87796327	-118.2535968
Str_0330	R6	RIVERINE	0.13	ACRE	ISOLATE	34.87620586	-118.2527288
Str_0331	R6	RIVERINE	0.04	ACRE	ISOLATE	34.87344628	-118.2516704
Str_0332	R6	RIVERINE	0.29	ACRE	ISOLATE	34.87056416	-118.2496162
Str_0333	R6	RIVERINE	0.002	ACRE	ISOLATE	34.85387991	-118.236816
Str_0334	R6	RIVERINE	0.04	ACRE	ISOLATE	34.85405478	-118.2362984
Str_0335	R6	RIVERINE	0.04	ACRE	ISOLATE	34.85391832	-118.2362887
Str_0336	R6	RIVERINE	0.27	ACRE	ISOLATE	34.85325624	-118.2327254

Str_0337 R6	RIVERINE	0.05	ACRE	ISOLATE	34.85326116	-118.2284108
Str_0338 R6	RIVERINE	0.08	ACRE	ISOLATE	34.85270243	-118.2281414
CP_1000 PUB	DEPRESS	387	SQ_FT	ISOLATE	34.855082	-118.234067
CP_1001 PUB	DEPRESS	273	SQ_FT	ISOLATE	34.851852	-118.233856
CP_1002-001	PUB DEPRESS	17	SQ_FT	ISOLATE	34.851556	-118.233568
CP_1003 PUB	DEPRESS	69	SQ_FT	ISOLATE	34.85431	-118.233543
CP_1004 PUB	DEPRESS	58	SQ_FT	ISOLATE	34.854673	-118.233538
CP_1006 PUB	DEPRESS	97	SQ_FT	ISOLATE	34.852411	-118.233504
CP_1007 PUB	DEPRESS	99	SQ_FT	ISOLATE	34.851946	-118.233501
CP_1008 PUB	DEPRESS	129	SQ_FT	ISOLATE	34.852011	-118.233489
CP_1010-001	PUB DEPRESS	205	SQ_FT	ISOLATE	34.851569	-118.233474
CP_1011 PUB	DEPRESS	132	SQ_FT	ISOLATE	34.855206	-118.233468
PD_1013 PUB	DEPRESS	45	SQ_FT	ISOLATE	34.856492	-118.233439
CP_1016 PUB	DEPRESS	1	SQ_FT	ISOLATE	34.856104	-118.232141
CP_1017 PUB	DEPRESS	41	SQ_FT	ISOLATE	34.856124	-118.232136
CP_1018 PUB	DEPRESS	54	SQ_FT	ISOLATE	34.856085	-118.232129
CP_1019 PUB	DEPRESS	50	SQ_FT	ISOLATE	34.856281	-118.232122
CP_1020 PUB	DEPRESS	591	SQ_FT	ISOLATE	34.856009	-118.232063
PD_1021 PUB	DEPRESS	7992	SQ_FT	ISOLATE	34.852037	-118.231826
CP_1022 PUB	DEPRESS	2782	SQ_FT	ISOLATE	34.853835	-118.231769
CP_1023 PUB	DEPRESS	147	SQ_FT	ISOLATE	34.853876	-118.231609
CP_1024 PUB	DEPRESS	40	SQ_FT	ISOLATE	34.854899	-118.230152
CP_1025 PUB	DEPRESS	81	SQ_FT	ISOLATE	34.854617	-118.229501
CP_1026 PUB	DEPRESS	68	SQ_FT	ISOLATE	34.854765	-118.229235
CP_1027 PUB	DEPRESS	236	SQ_FT	ISOLATE	34.85383	-118.229232
CP_1028 PUB	DEPRESS	263	SQ_FT	ISOLATE	34.853977	-118.229228
CP_1029 PUB	DEPRESS	3237	SQ_FT	ISOLATE	34.854342	-118.229167
CP_1030 PUB	DEPRESS	61	SQ_FT	ISOLATE	34.854471	-118.229114
CP_1031 PUB	DEPRESS	2838	SQ_FT	ISOLATE	34.854397	-118.229066
CP_1032 PUB	DEPRESS	629	SQ_FT	ISOLATE	34.853708	-118.228981
CP_1033 PUB	DEPRESS	182	SQ_FT	ISOLATE	34.85356	-118.228966
CP_1034 PUB	DEPRESS	10	SQ_FT	ISOLATE	34.851349	-118.226952.



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 14, 2016

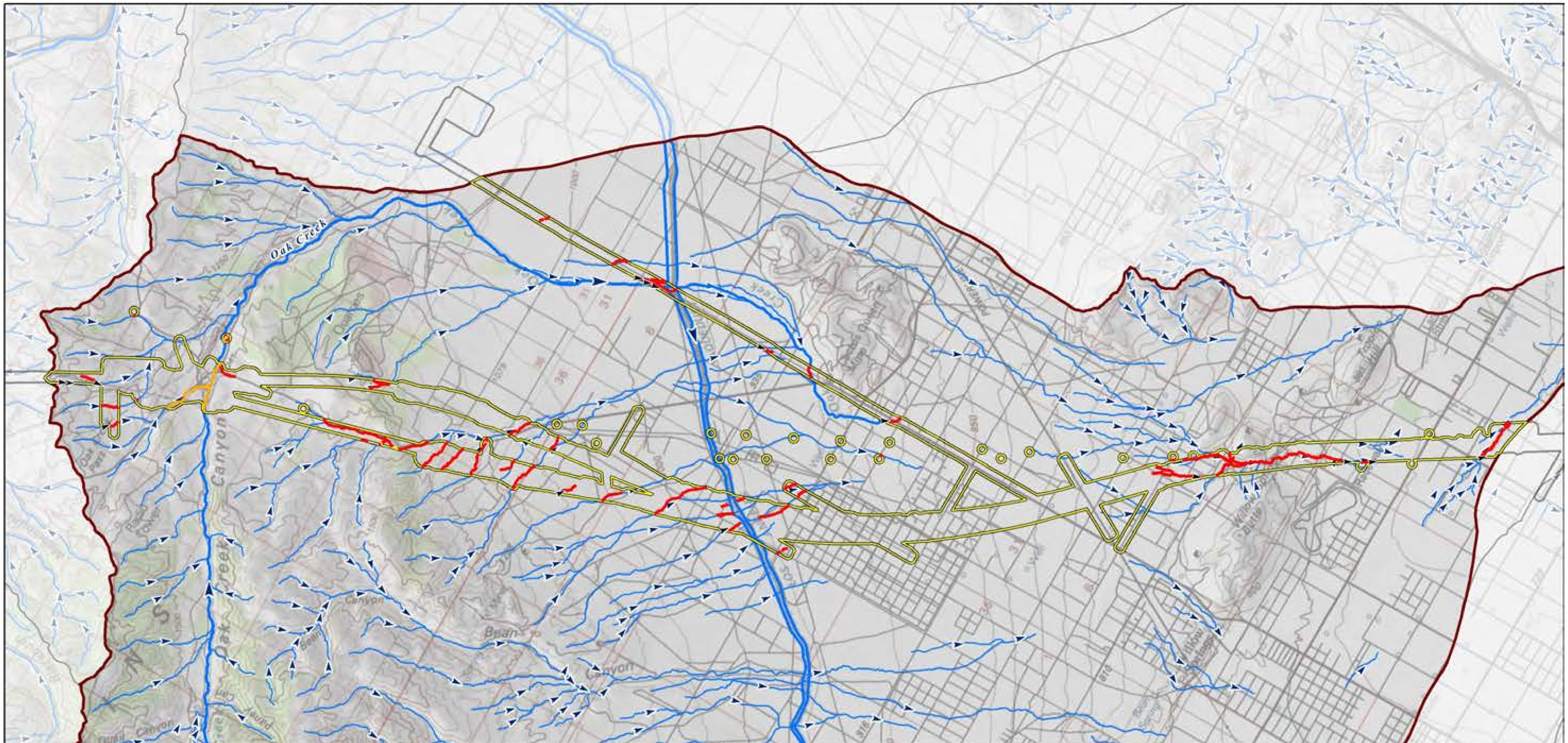


BP HSR Mapped Streams with OHWM in Tropico Hill - Oak Creek Watershed Study Area

- Culvert
- Ephemeral Stream
- Intermittent Stream

- Study Area in the Tropico Hill - Oak Creek Watershed
- Tropico Hill - Oak Creek Watershed HUC-10
- Other HUC-10 Watersheds
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines

Tropico Hill - Oak Creek Watershed
Hydrologic Connectivity



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BP HSR Mapped Streams with OHWM in Tropico Hill - Oak Creek Watershed Study Area

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Study Area in the Tropico Hill - Oak Creek Watershed

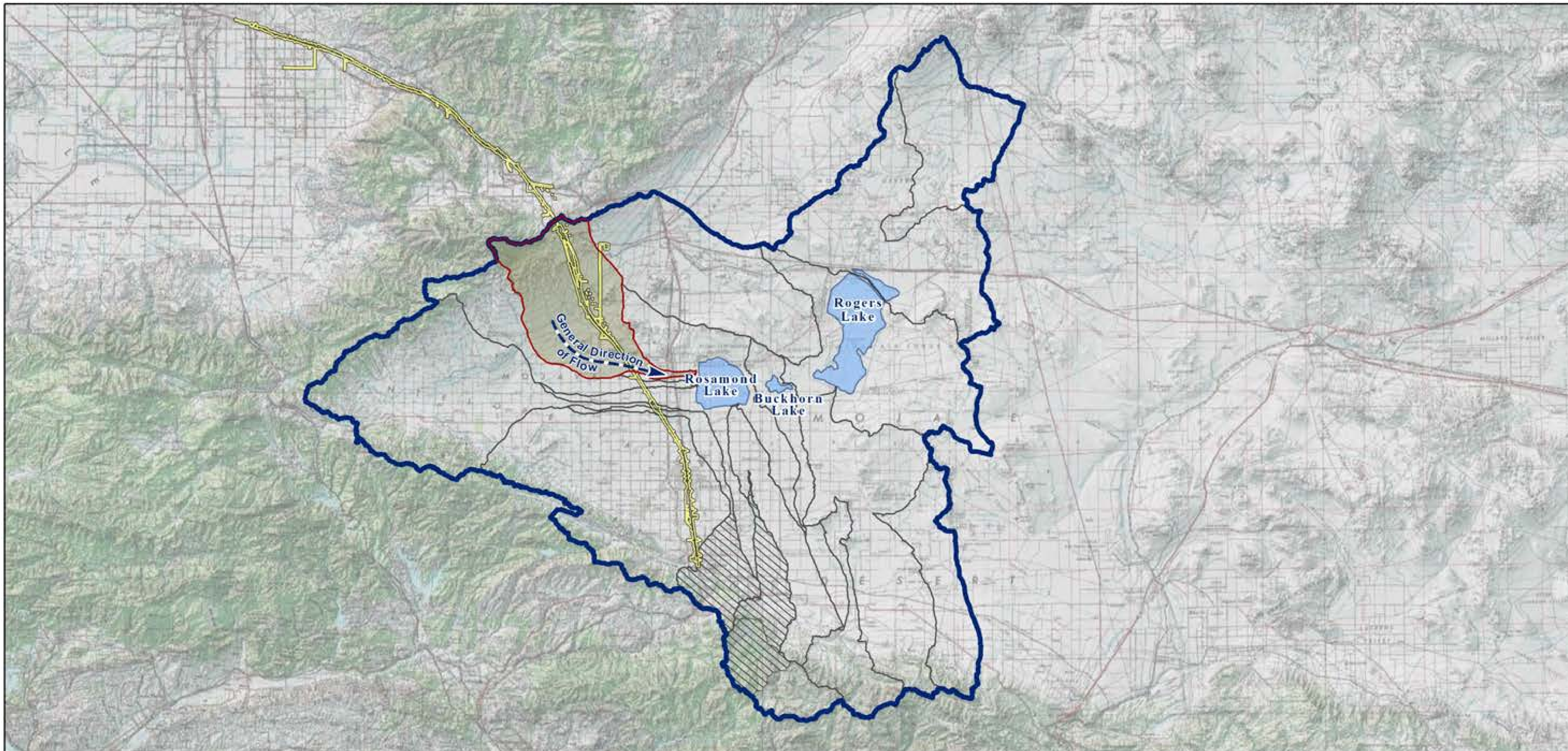
Tropico Hill - Oak Creek Watershed HUC-10

Wetlands Study Area (Project Footprint + 250 ft Buffer)

Direction of flow based on NHD flowlines

0 0.8 1.6 Miles
0 1.5 3 Kilometers

Tropico Hill - Oak Creek Watershed
Study Area Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 17, 2016

Tropico Hill-Oak Creek Watershed HUC-10

Antelope Valley Watershed (as described in SPL-2011-01084-SLP)

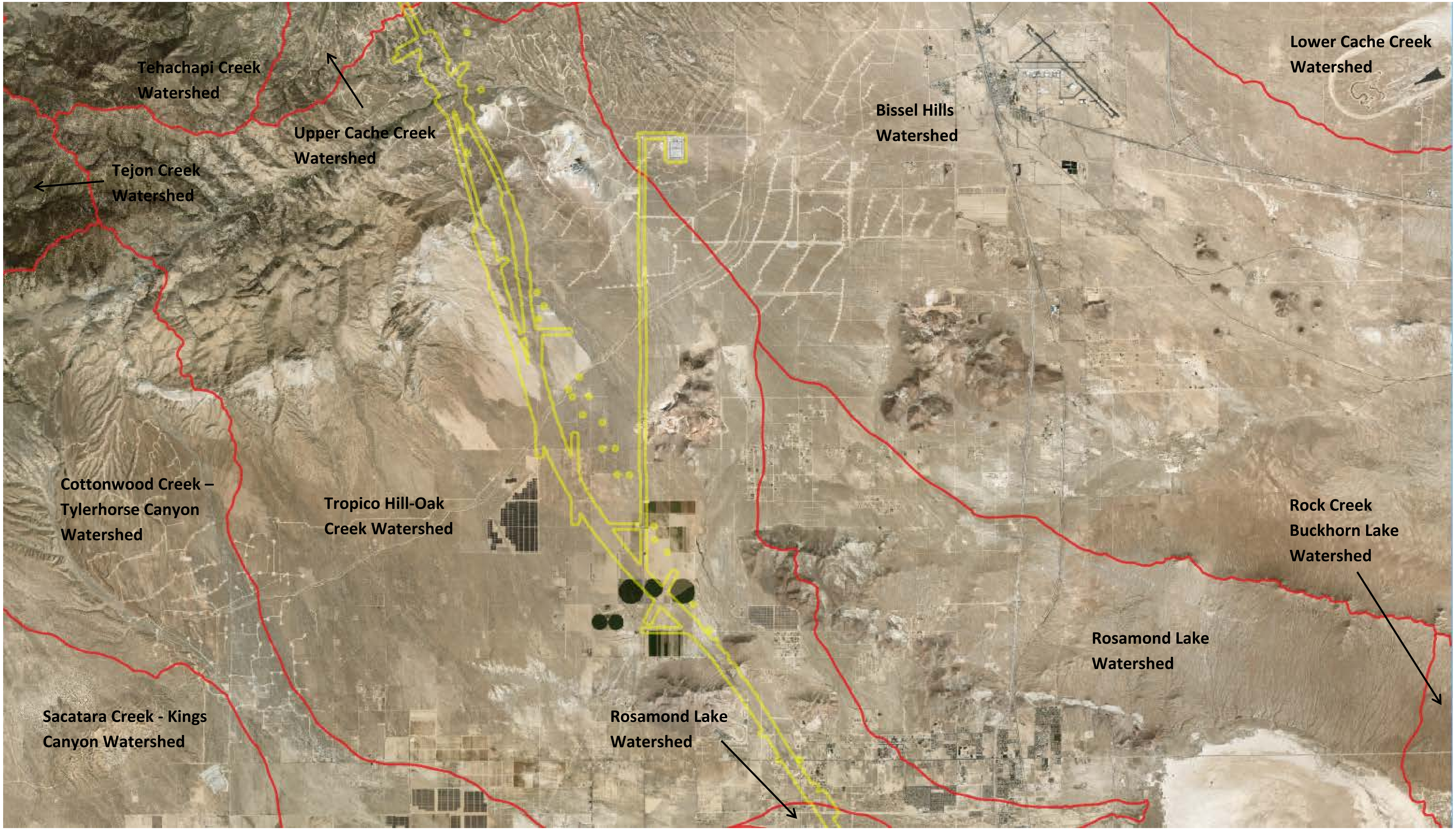
HUC-12 Watersheds excluded from SPL-2011-01084-SLP

Wetlands Study Area (Project Footprint + 250 ft Buffer)

0 5 10 Miles
0 8 16 Kilometers

The U.S. Army Corps of Engineers issued a SWANCC watershed-level Approved Jurisdictional Determination for Antelope Valley (HUC 10 #s 1809020609 through 1809020624) on June 7, 2013. Note that this determination specifically excluded the areas of Lake Palmdale and all waters tributary to Lake Palmdale (portions of HUC 12 #s 180902061501, 180902061102, 180902061103). This figure illustrates the location of the study area relative to the previous watershed-level decision.

Tropico Hill-Oak Creek Watershed
Location Within Antelope Valley Watershed



Kern County 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.

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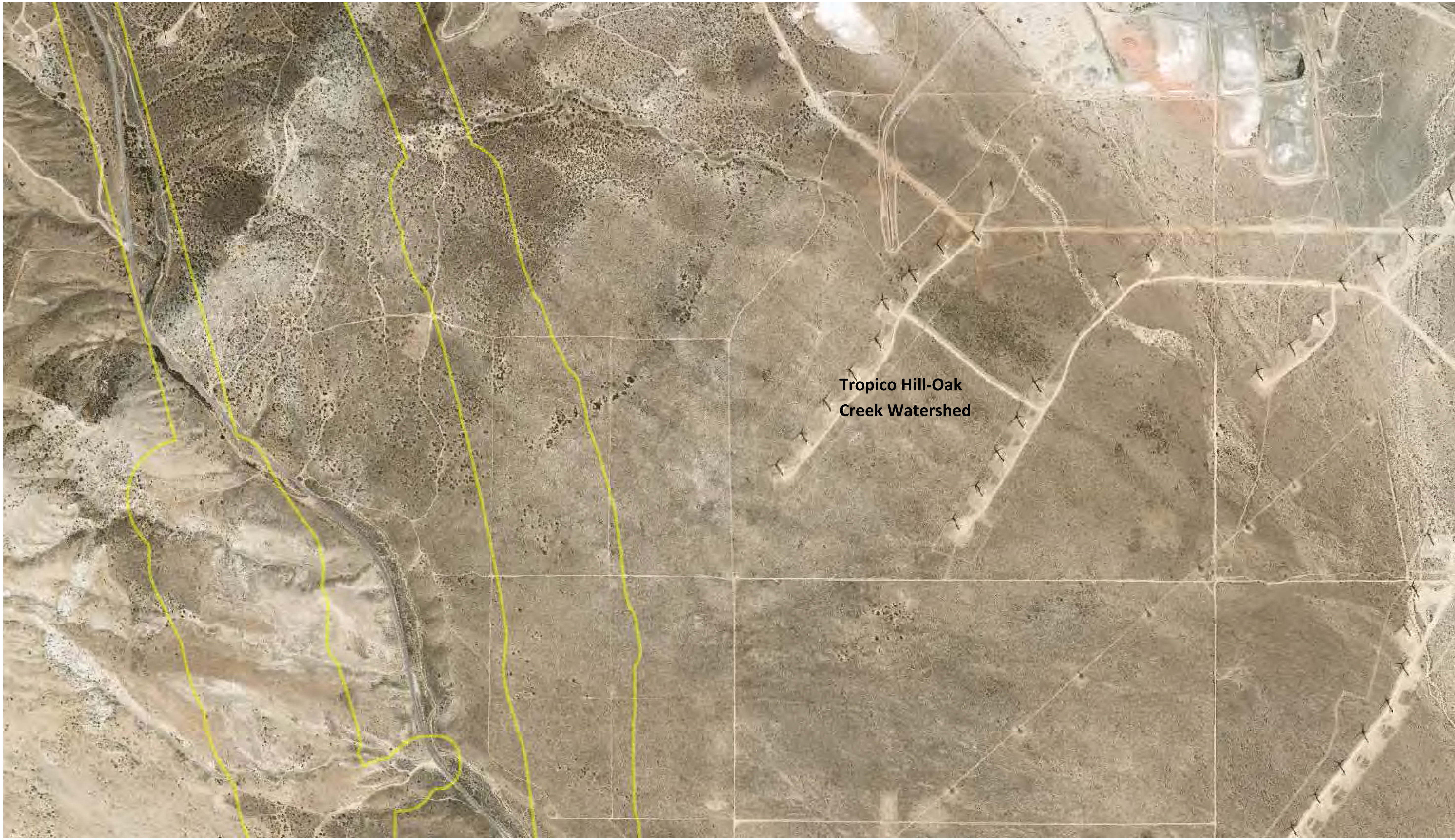

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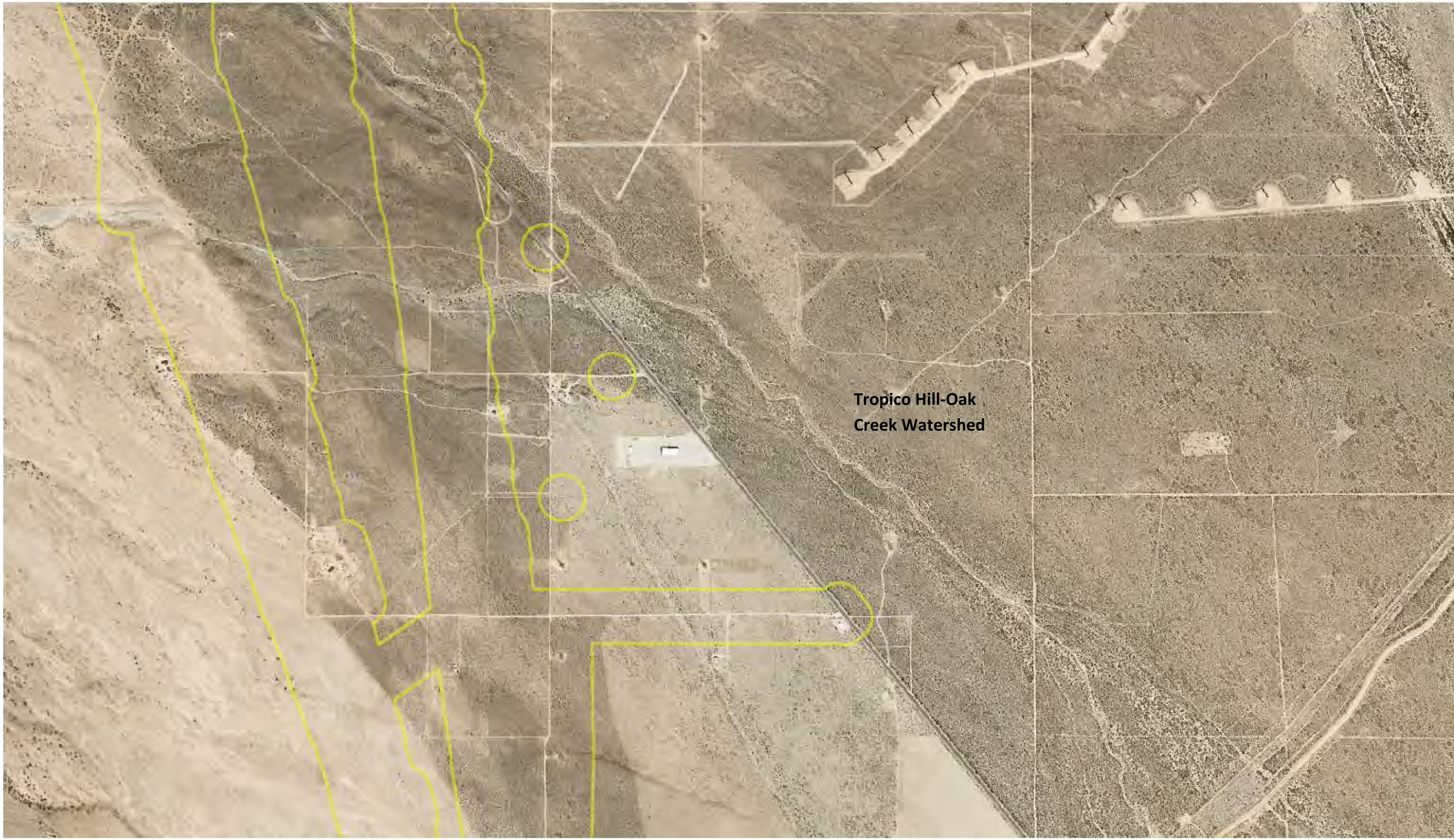

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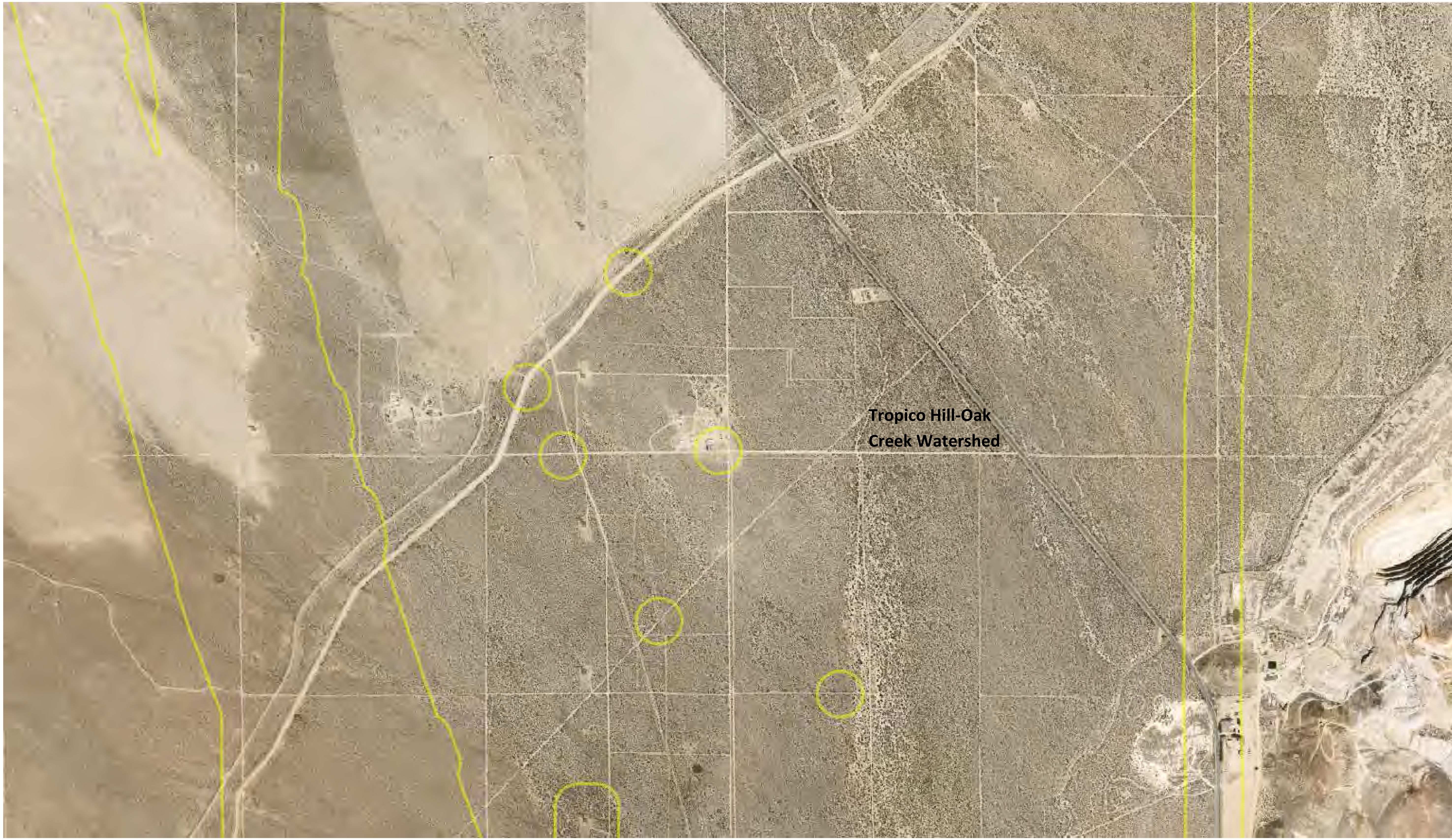

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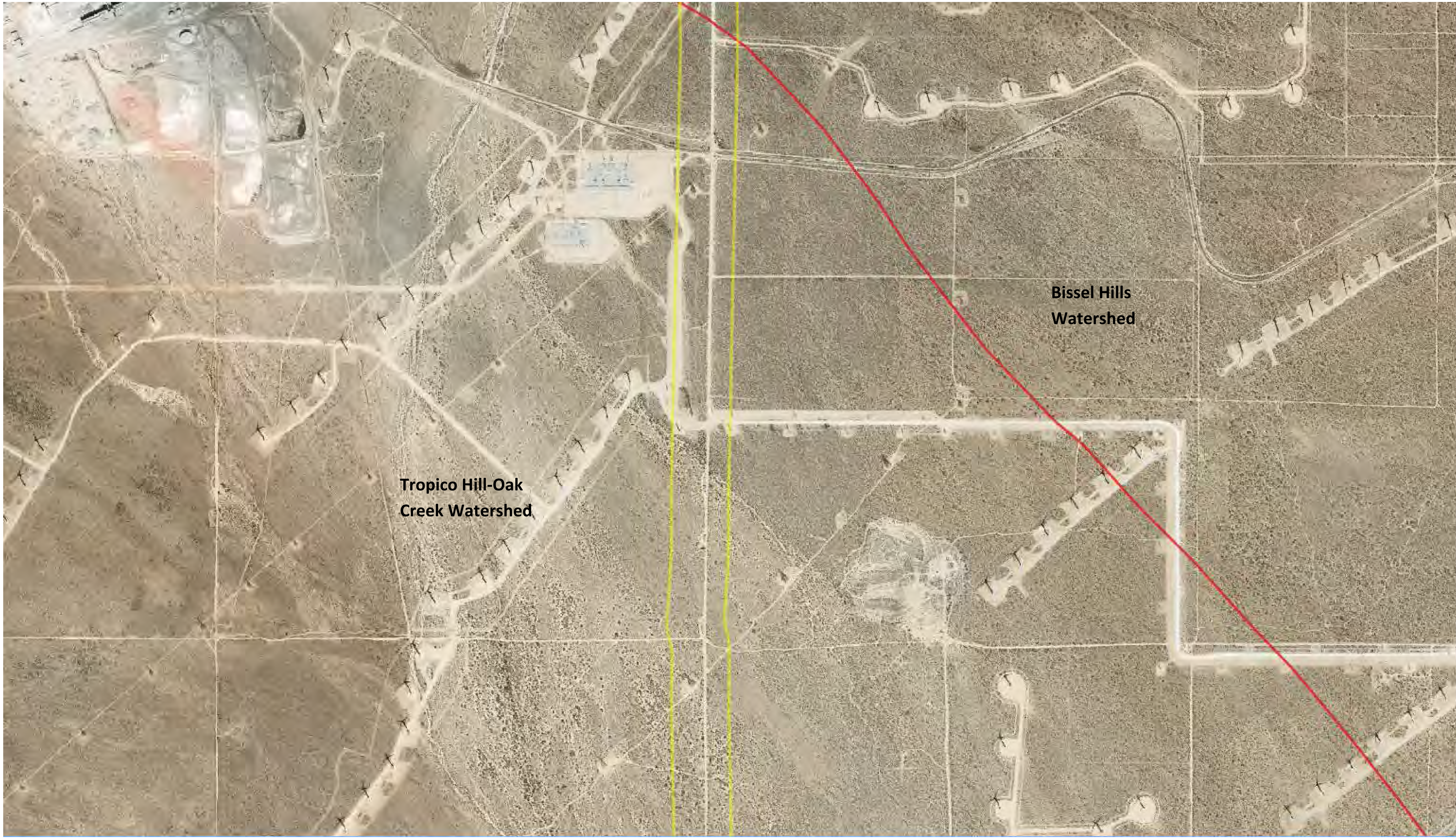

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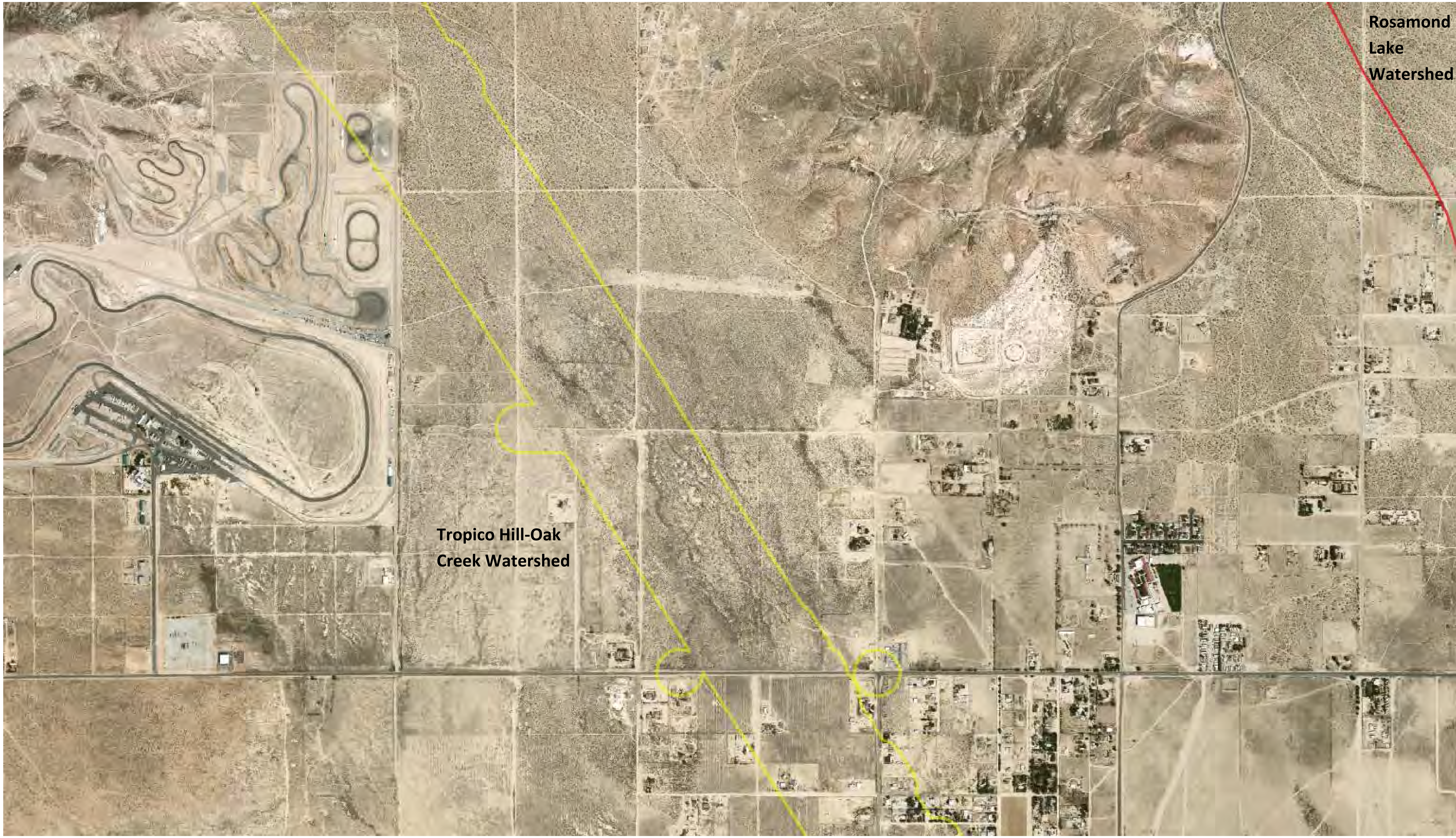

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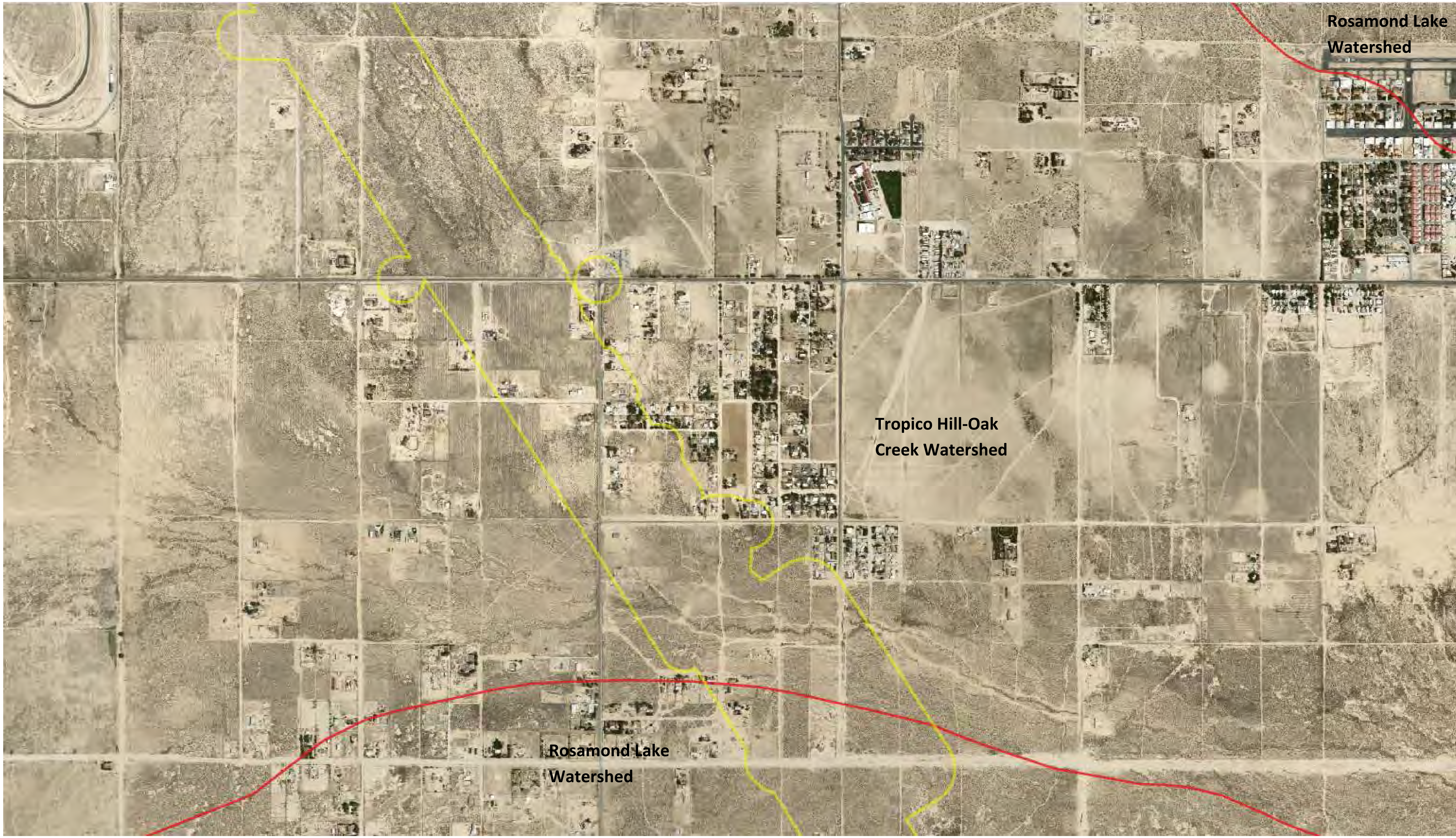

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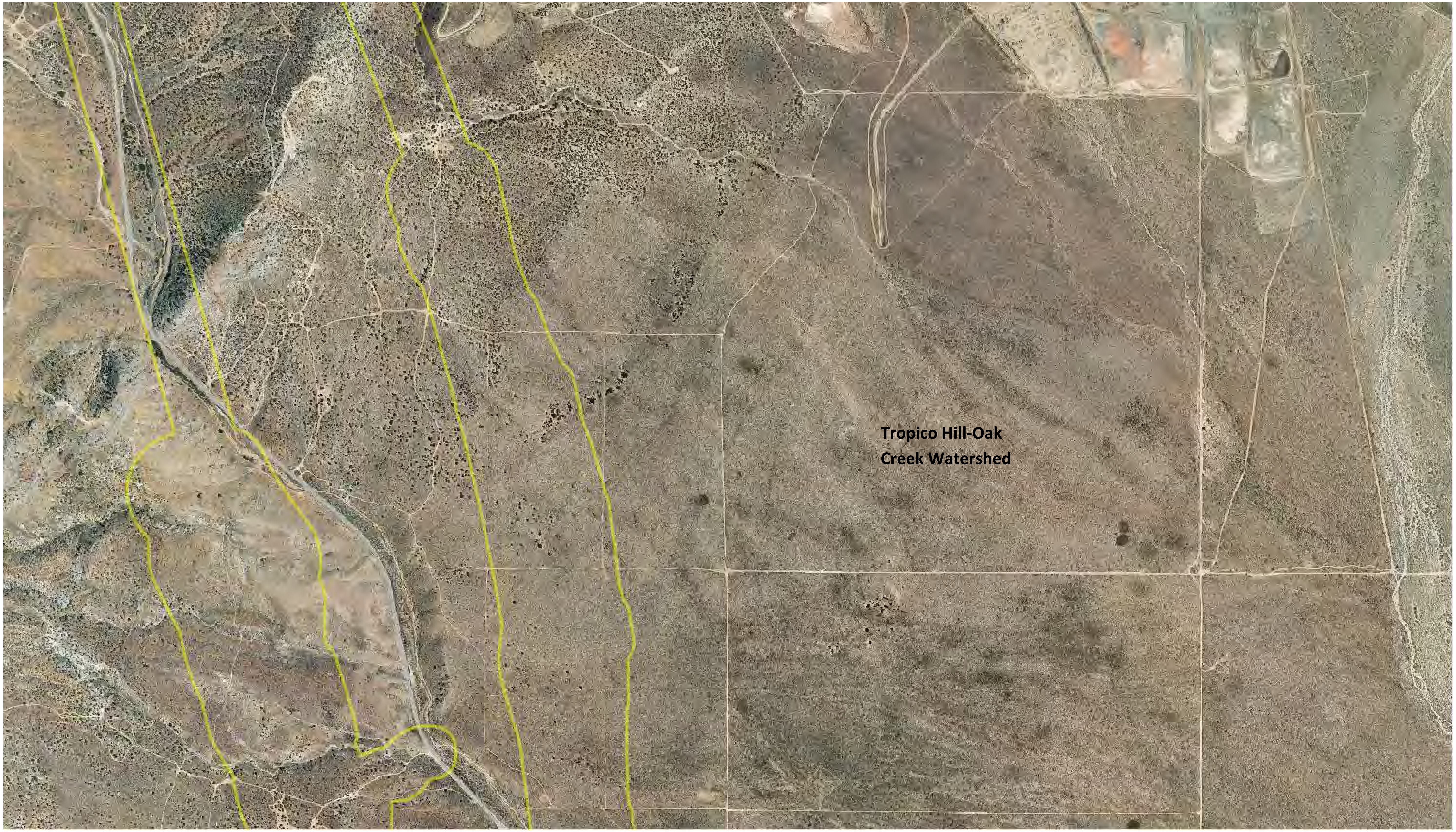

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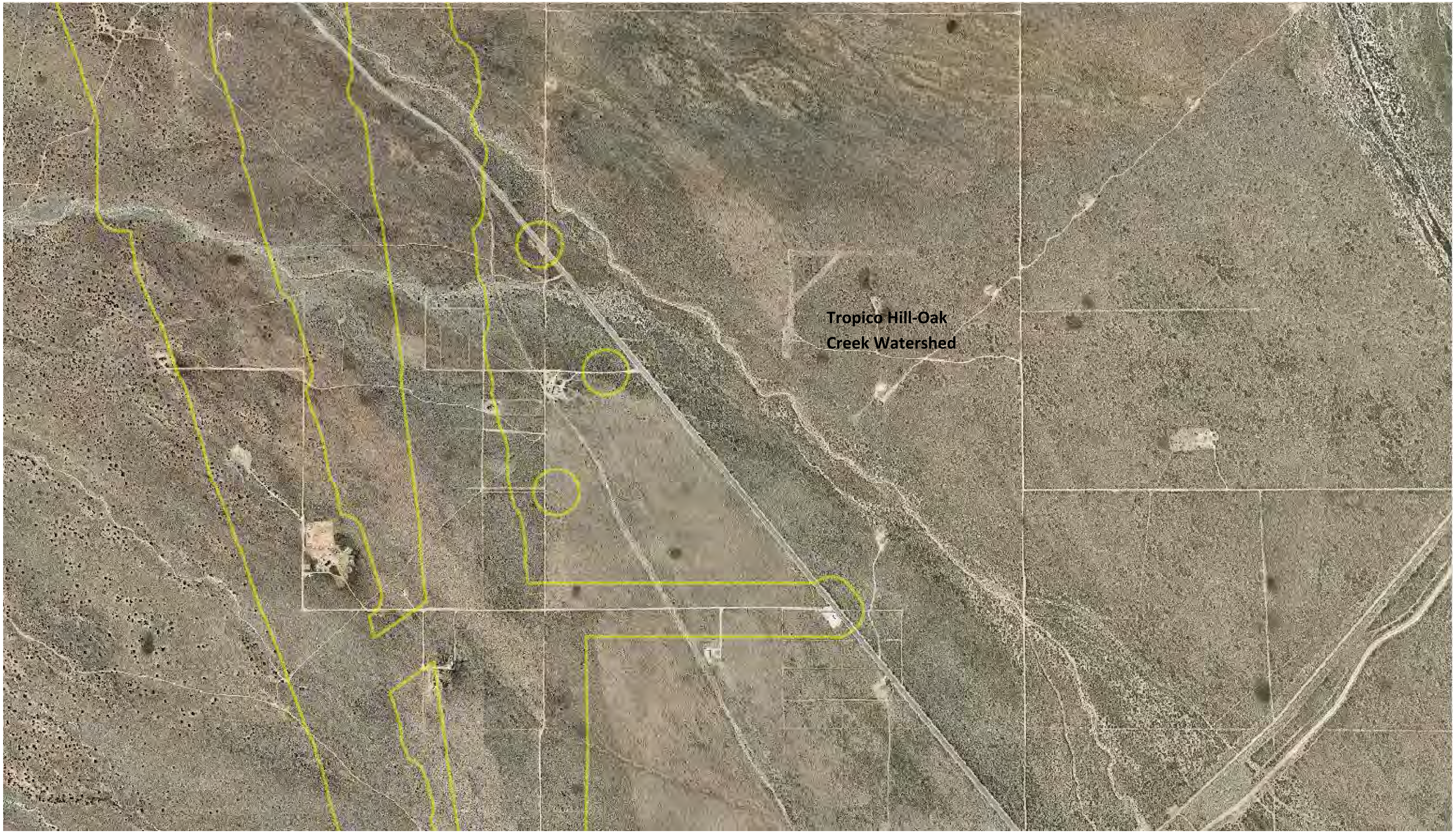

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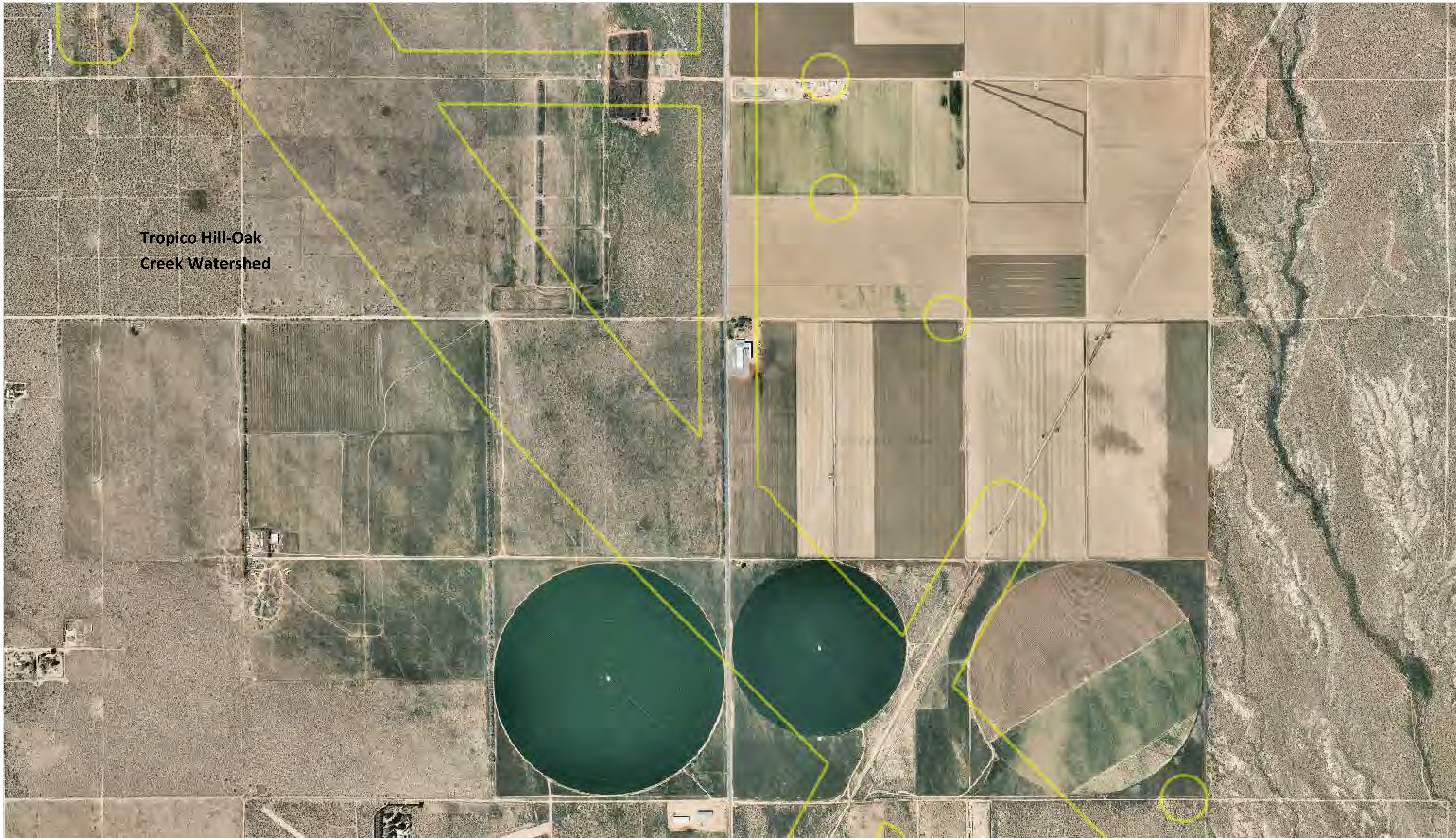

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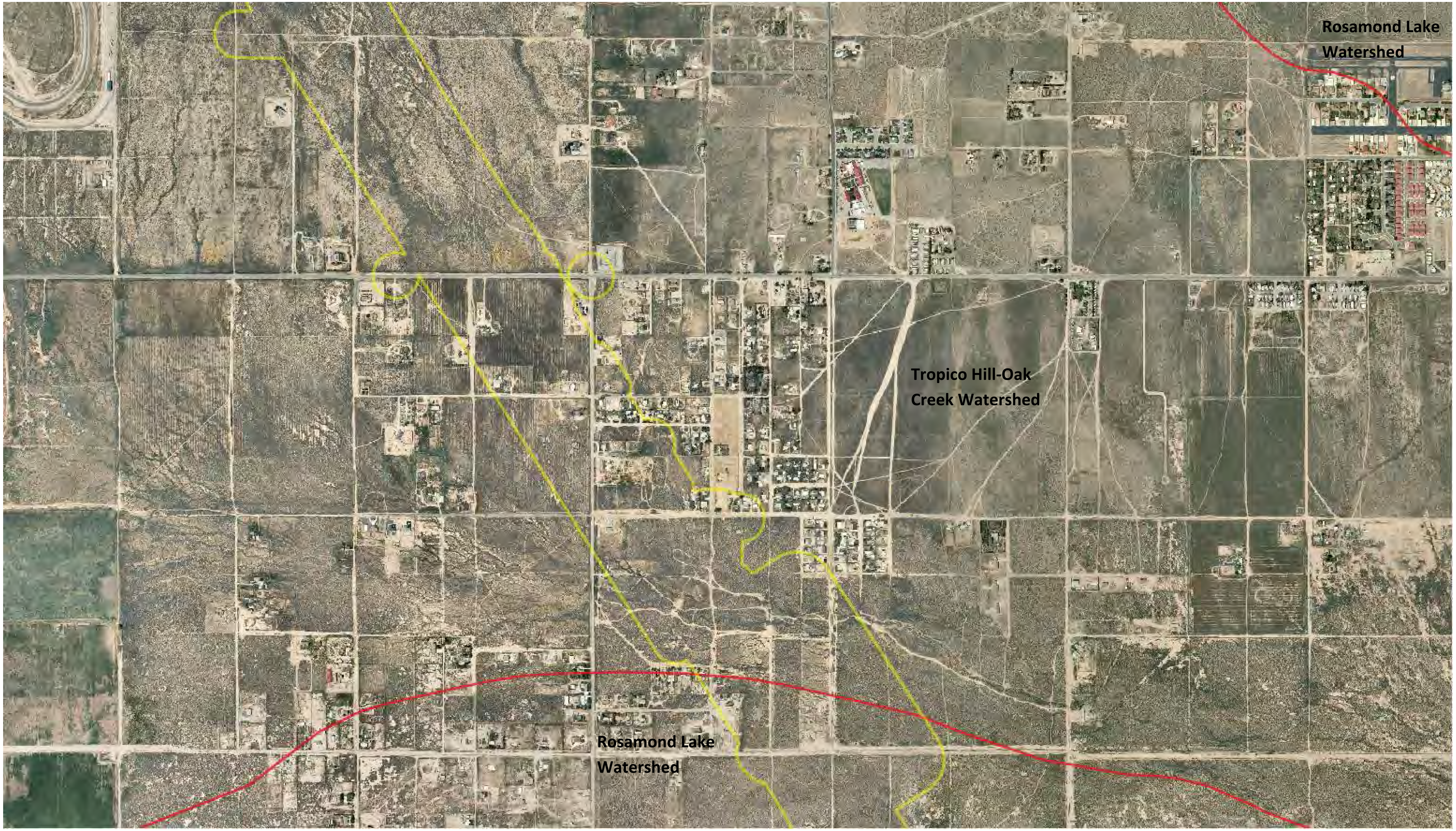

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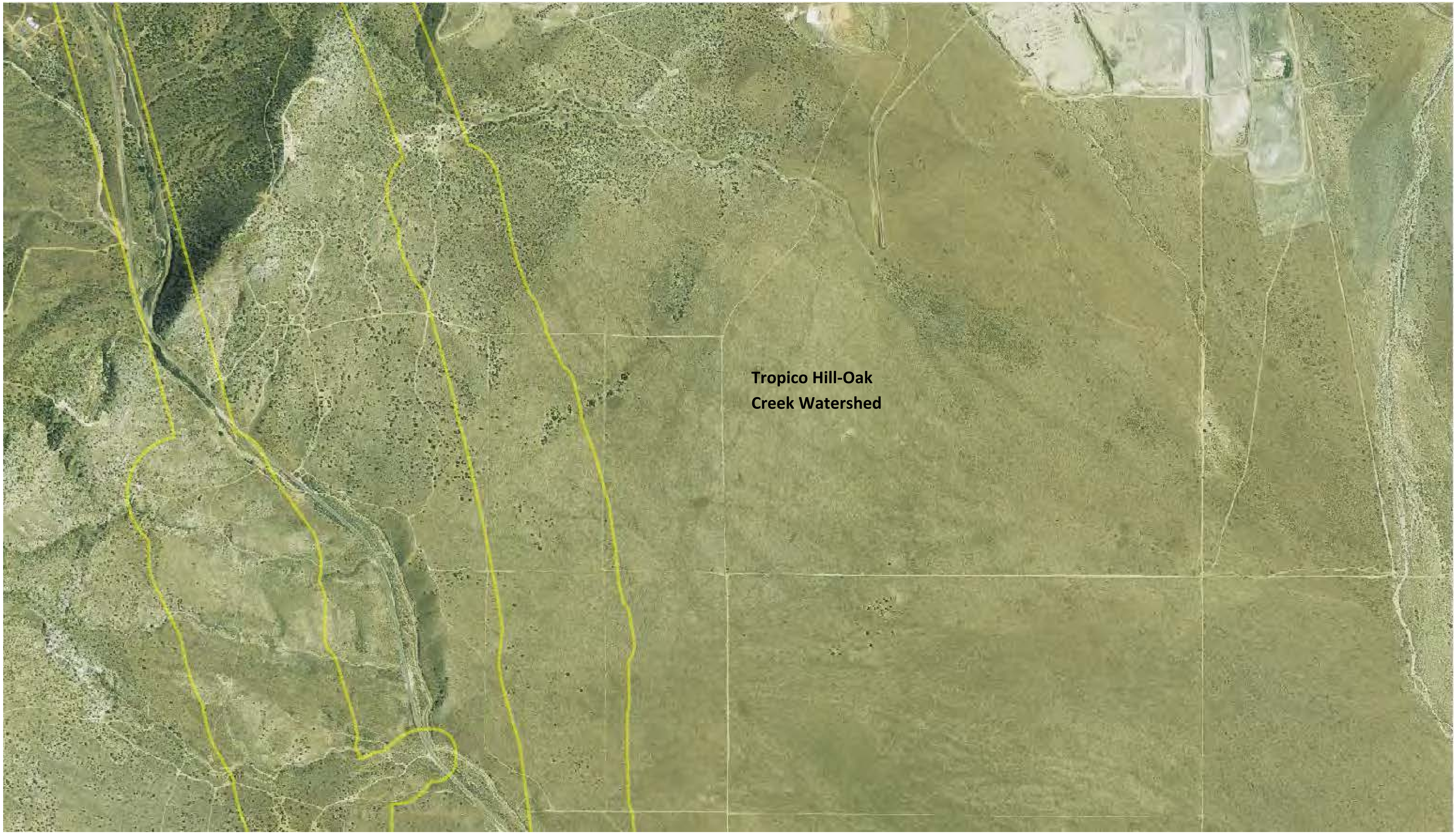

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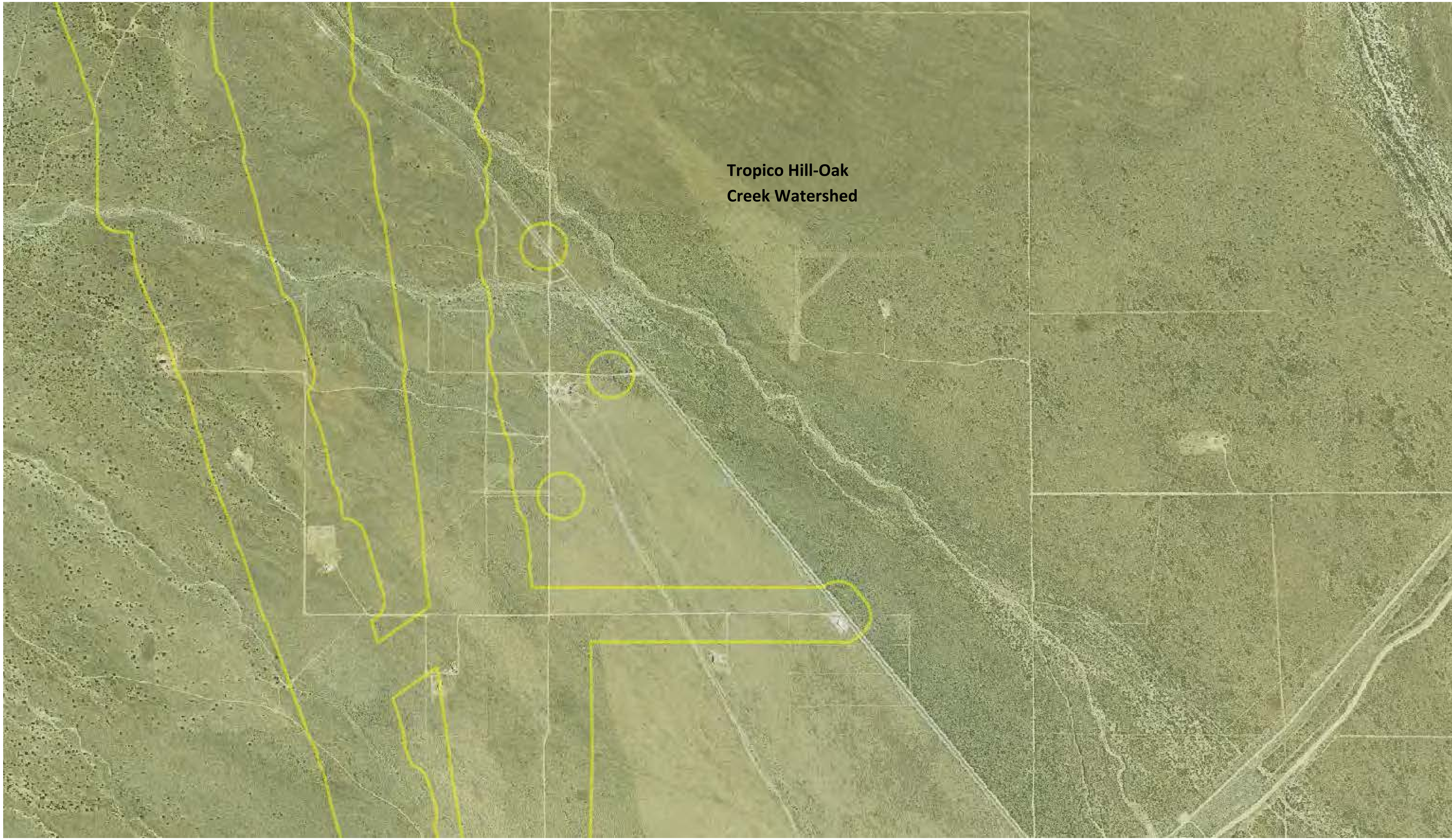

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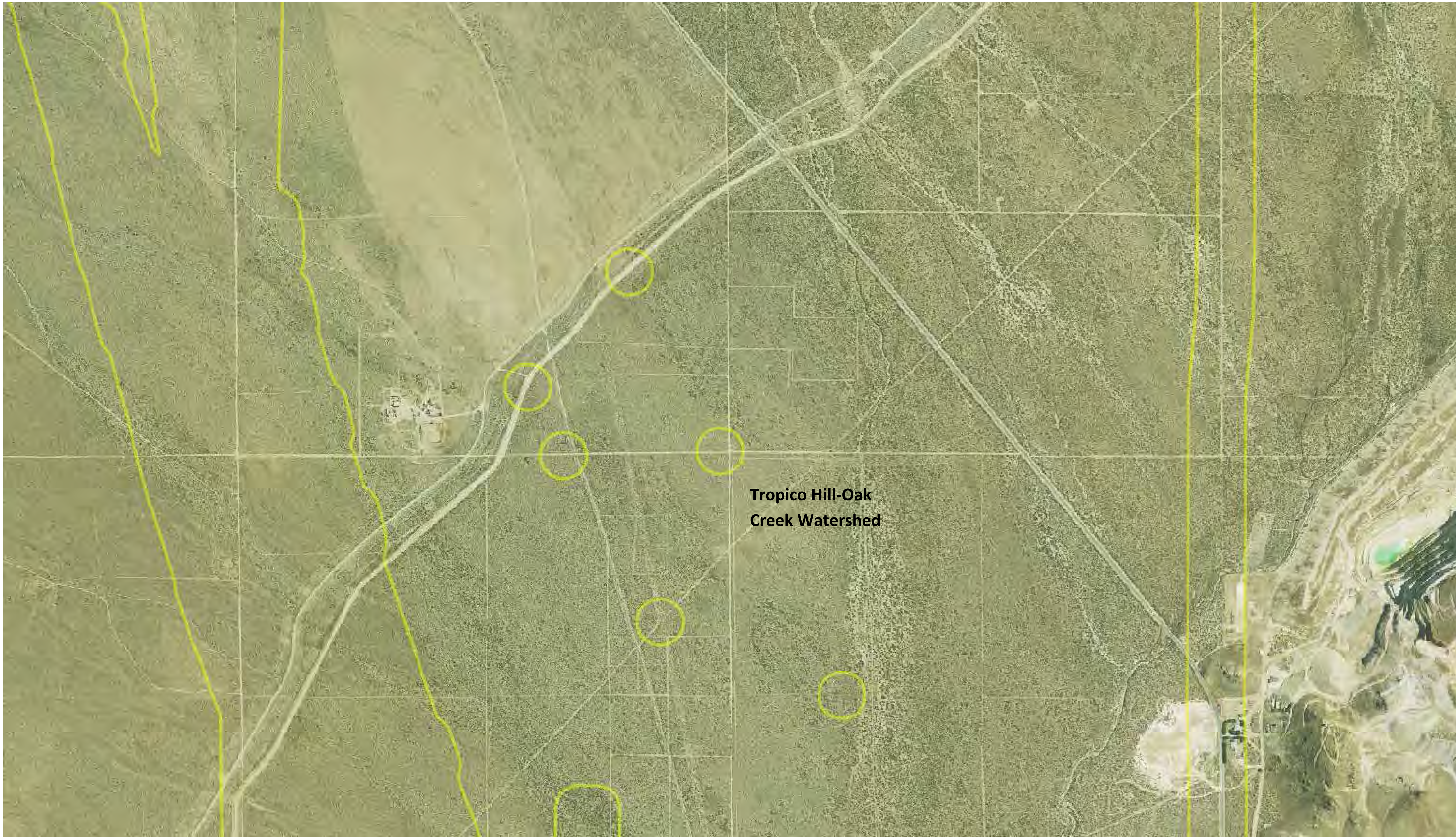

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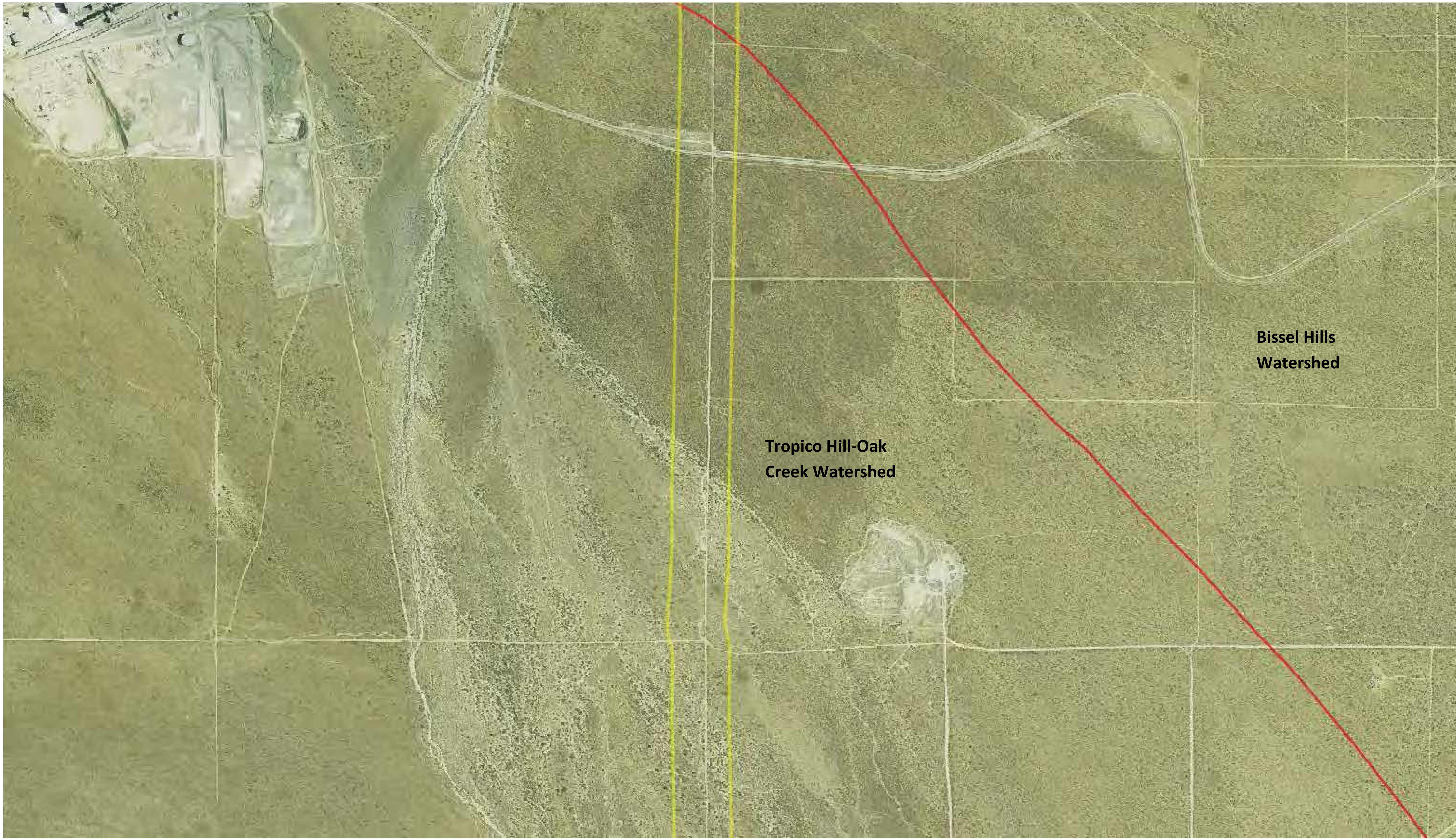

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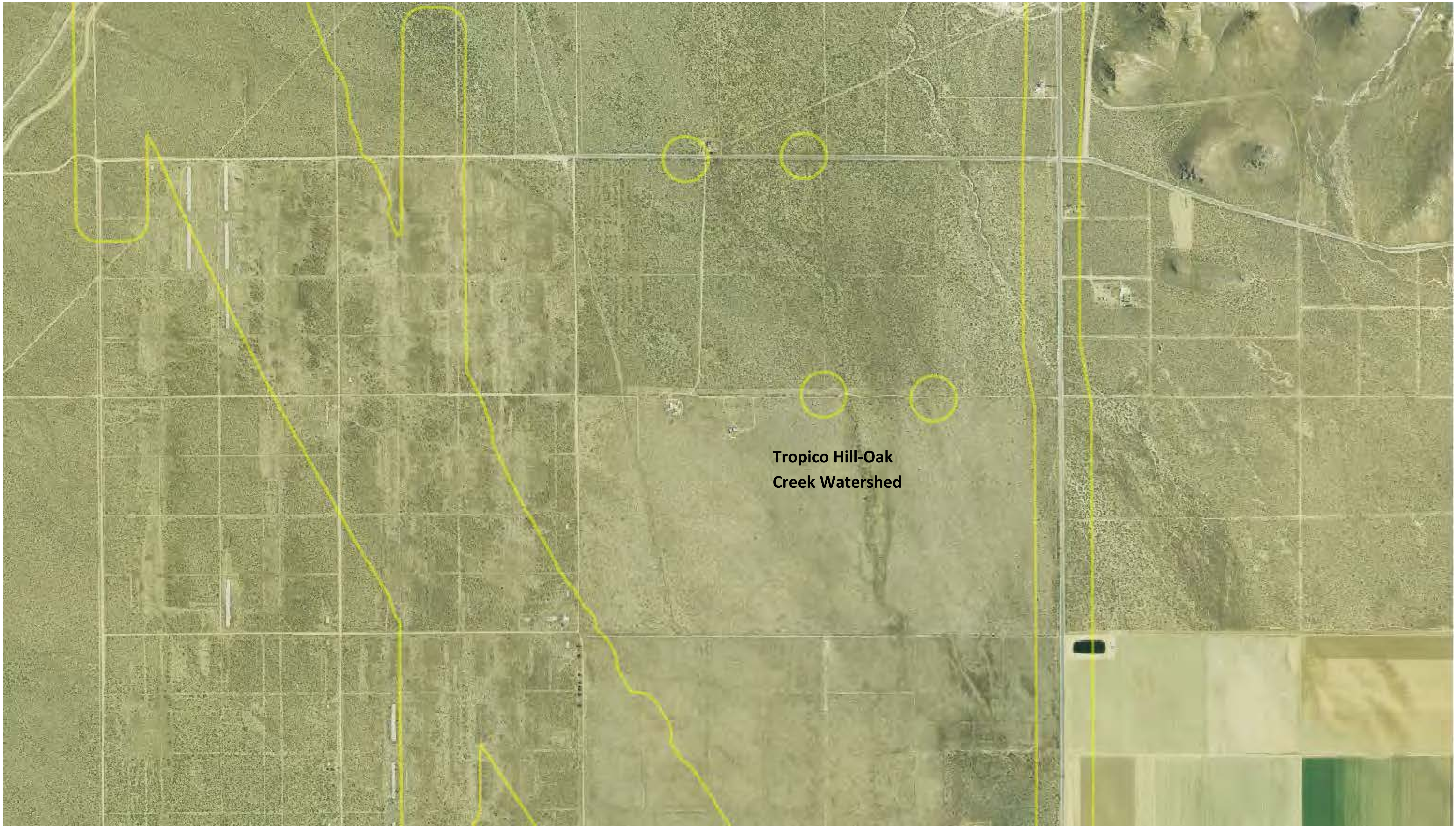

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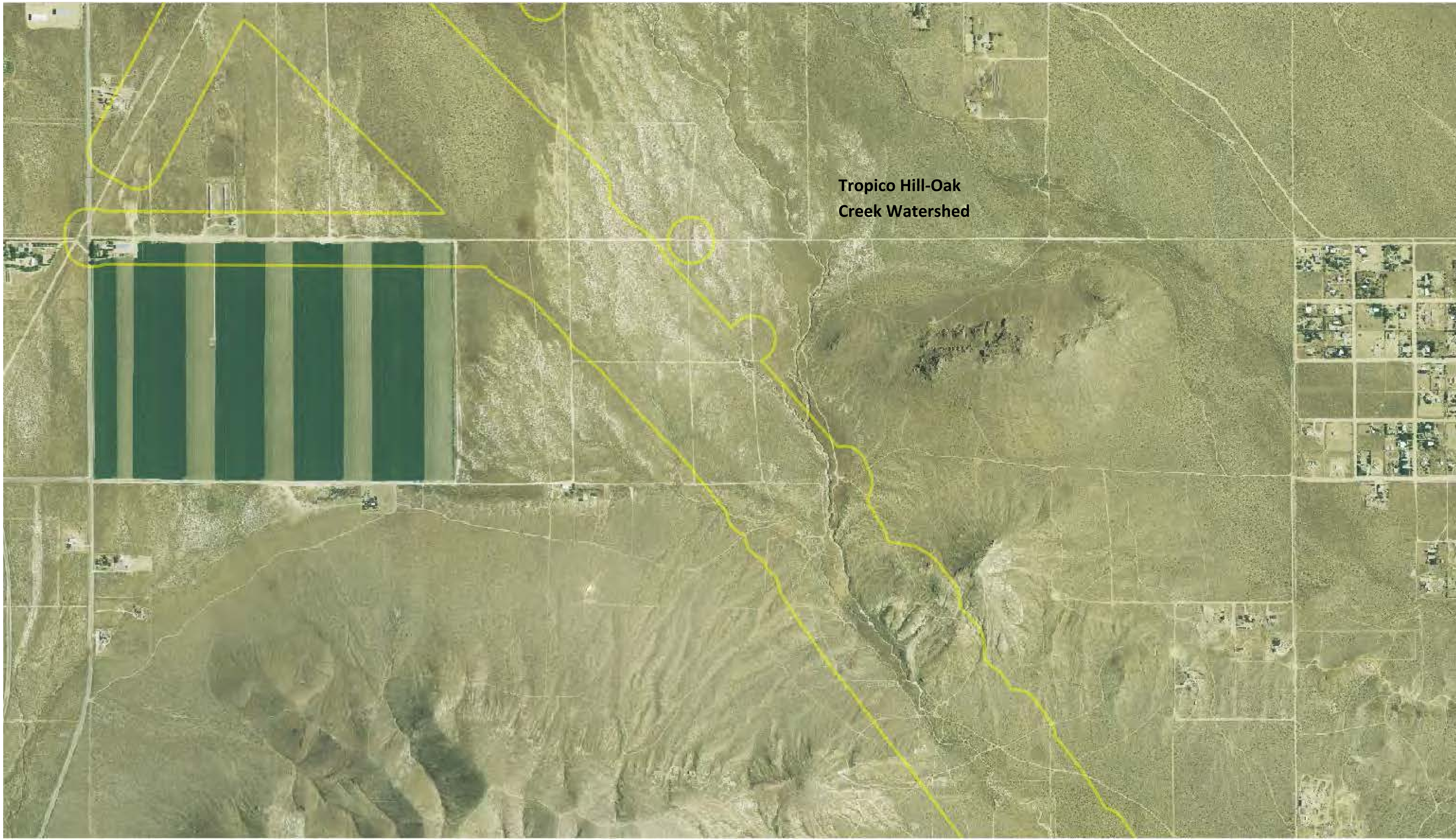

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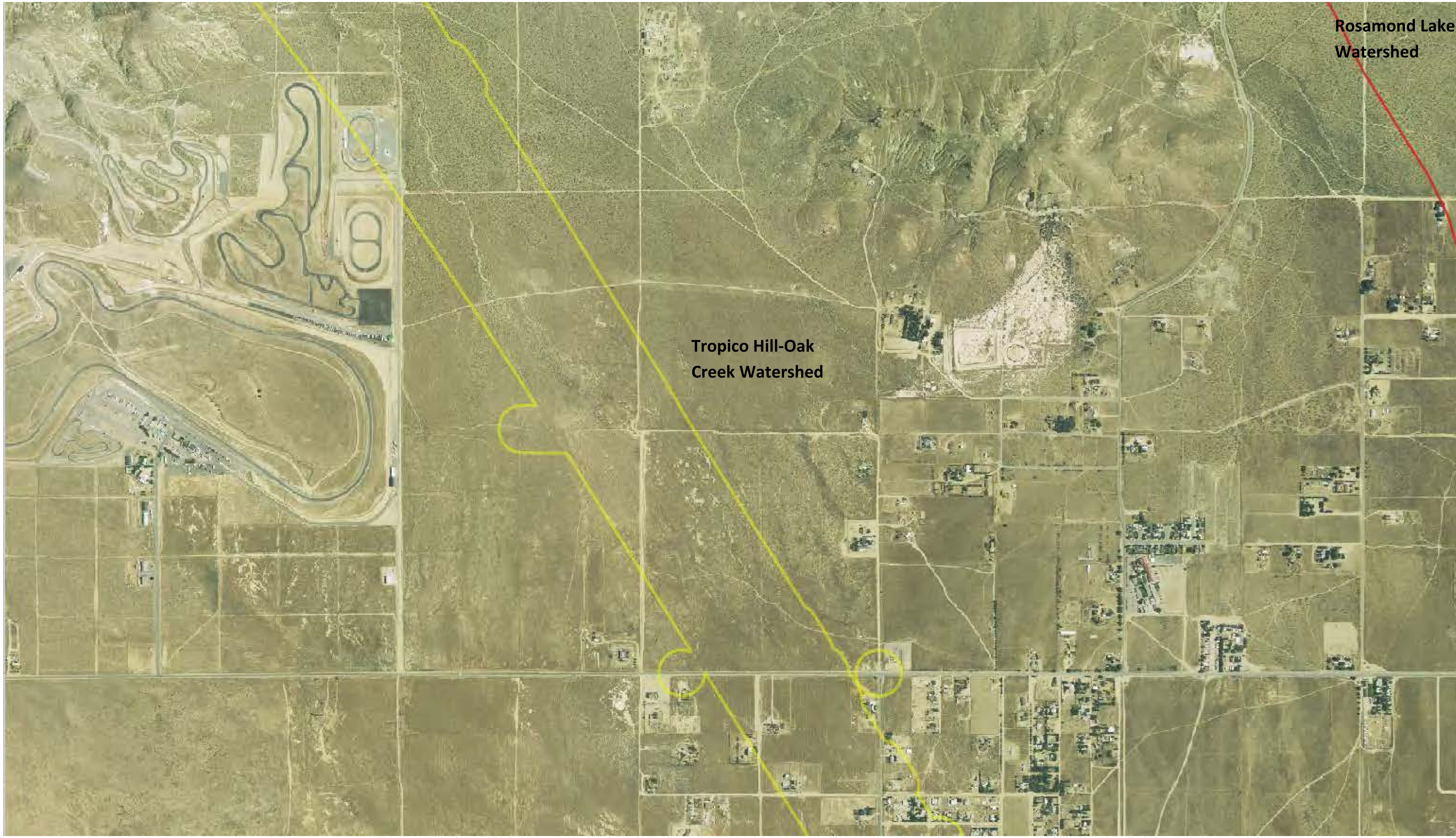

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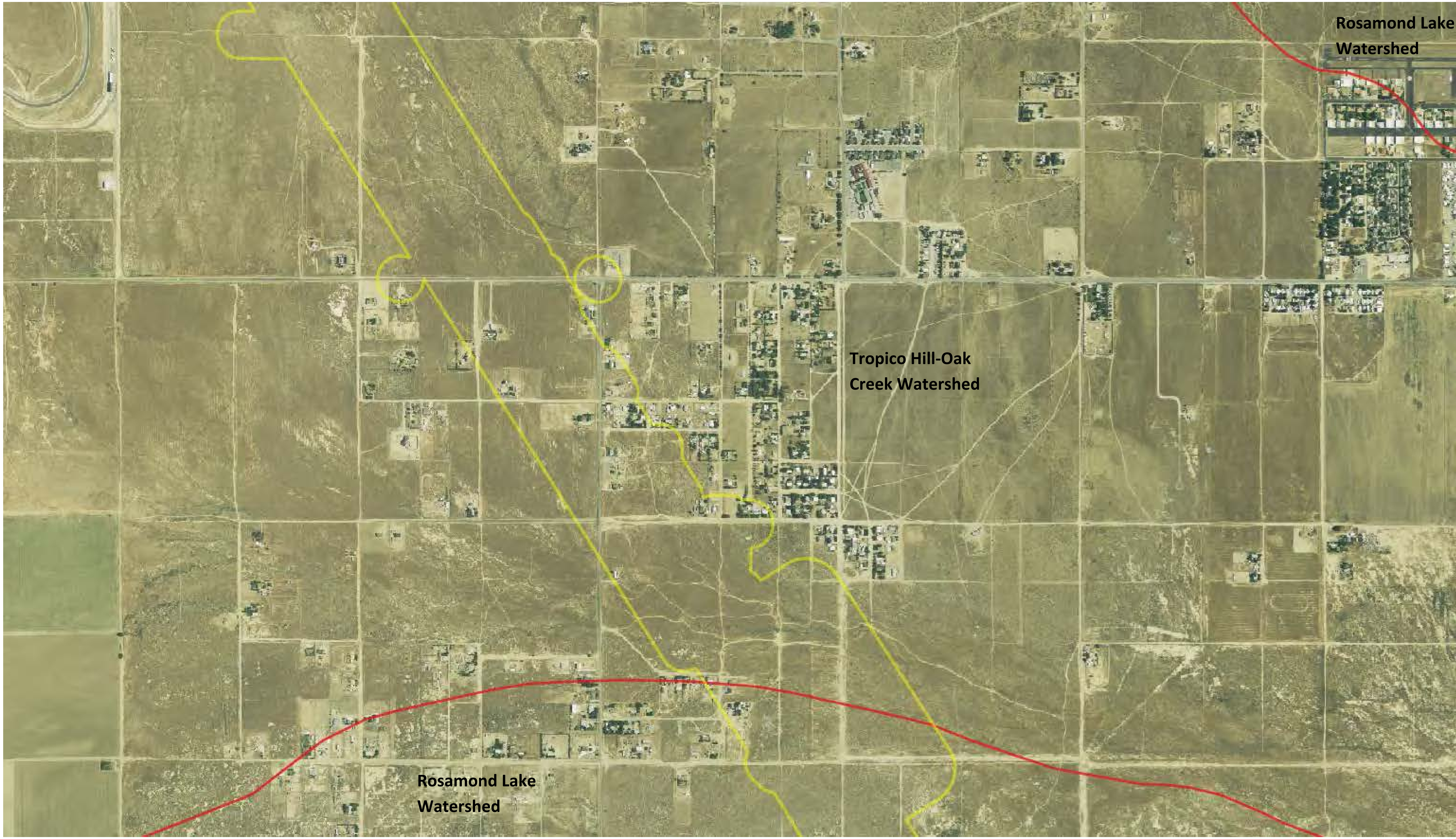

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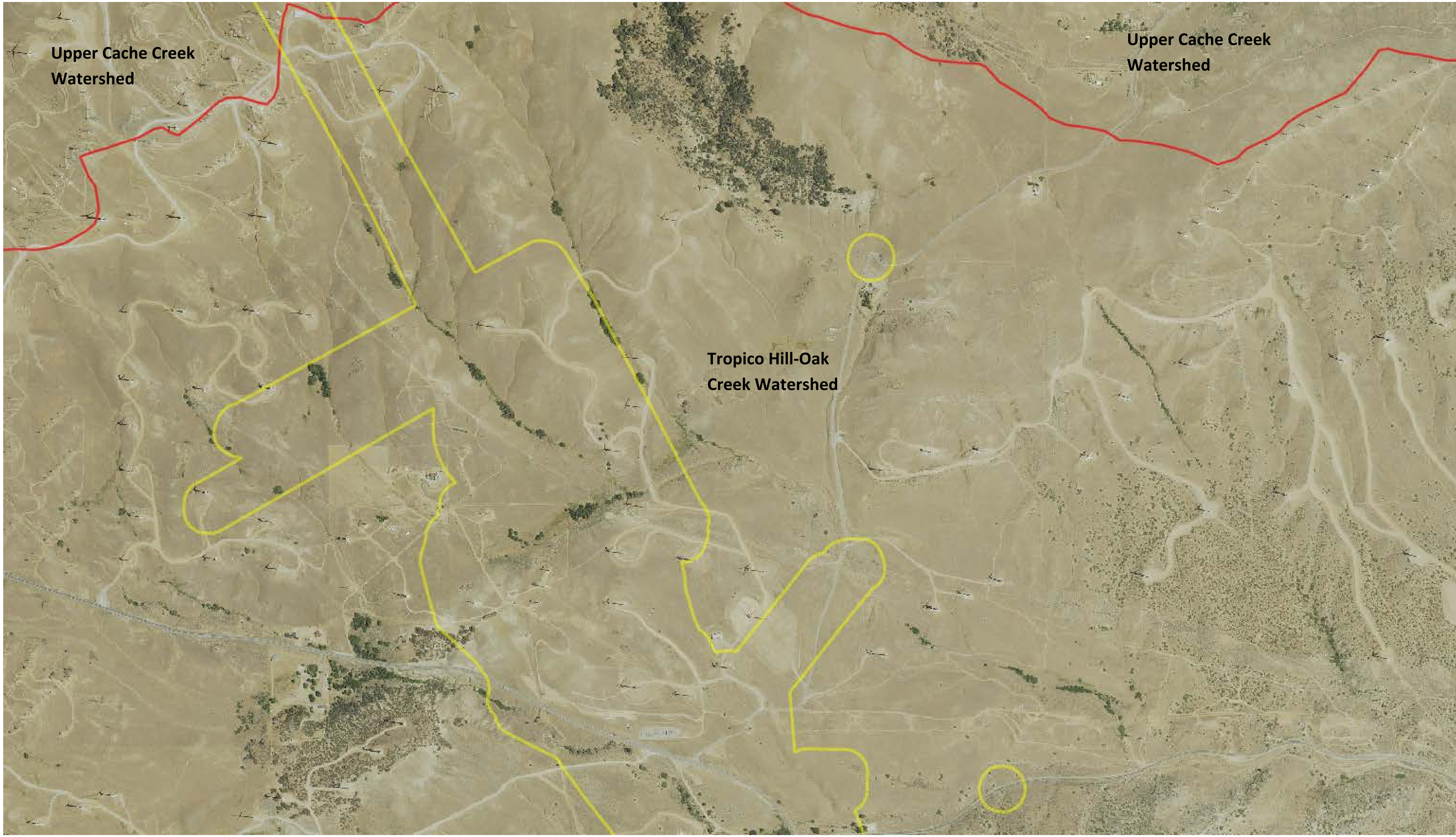

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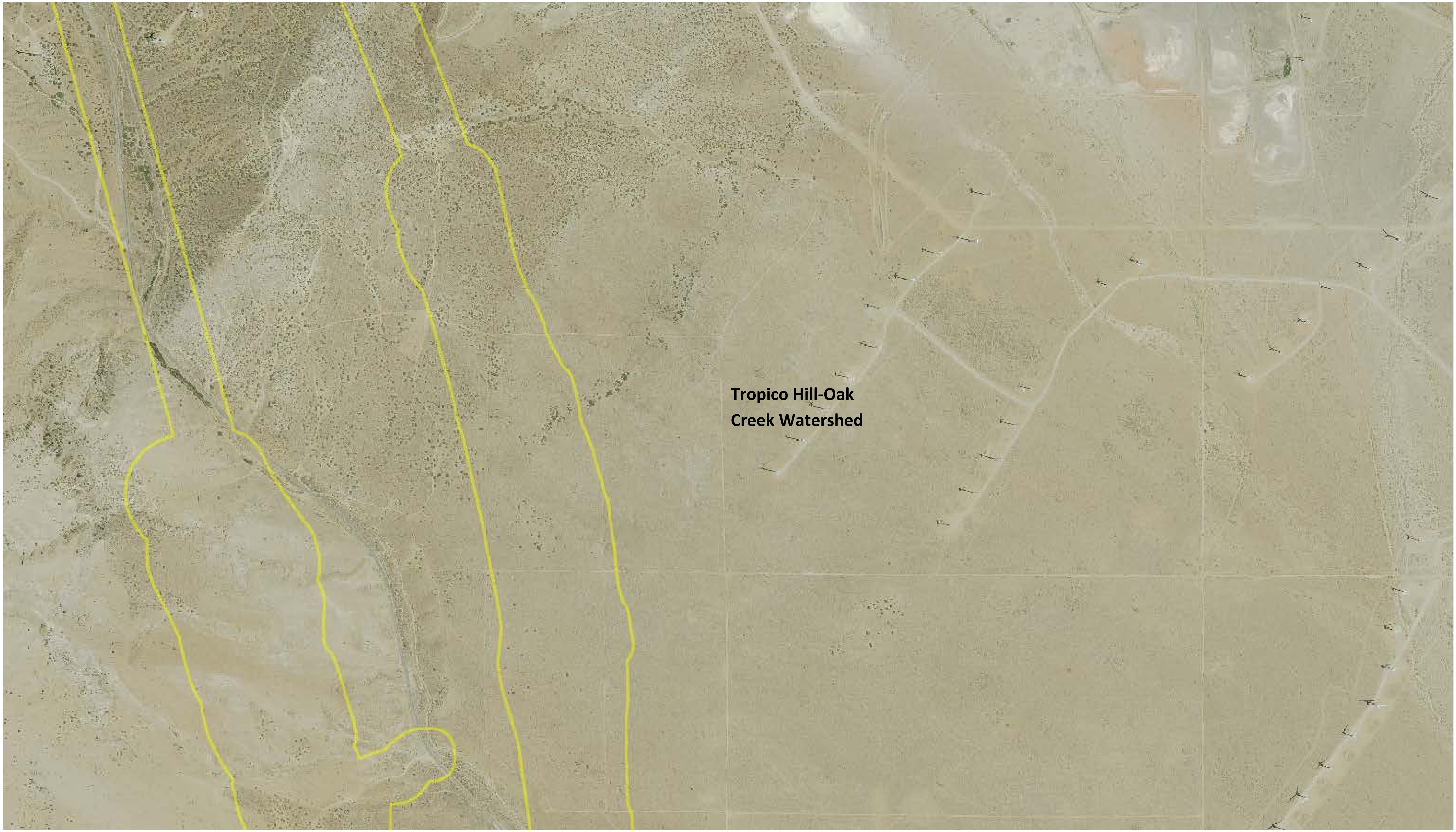

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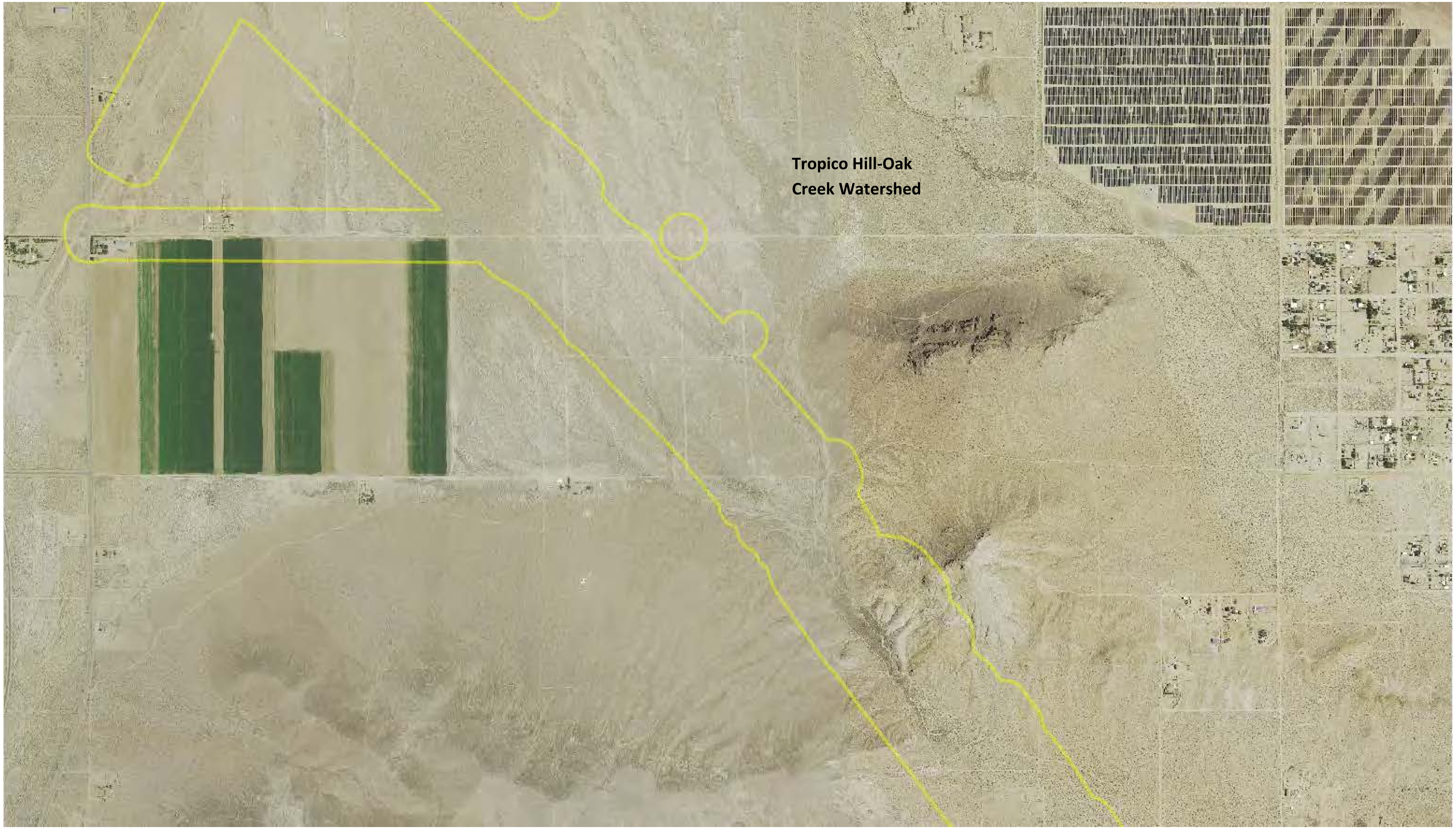

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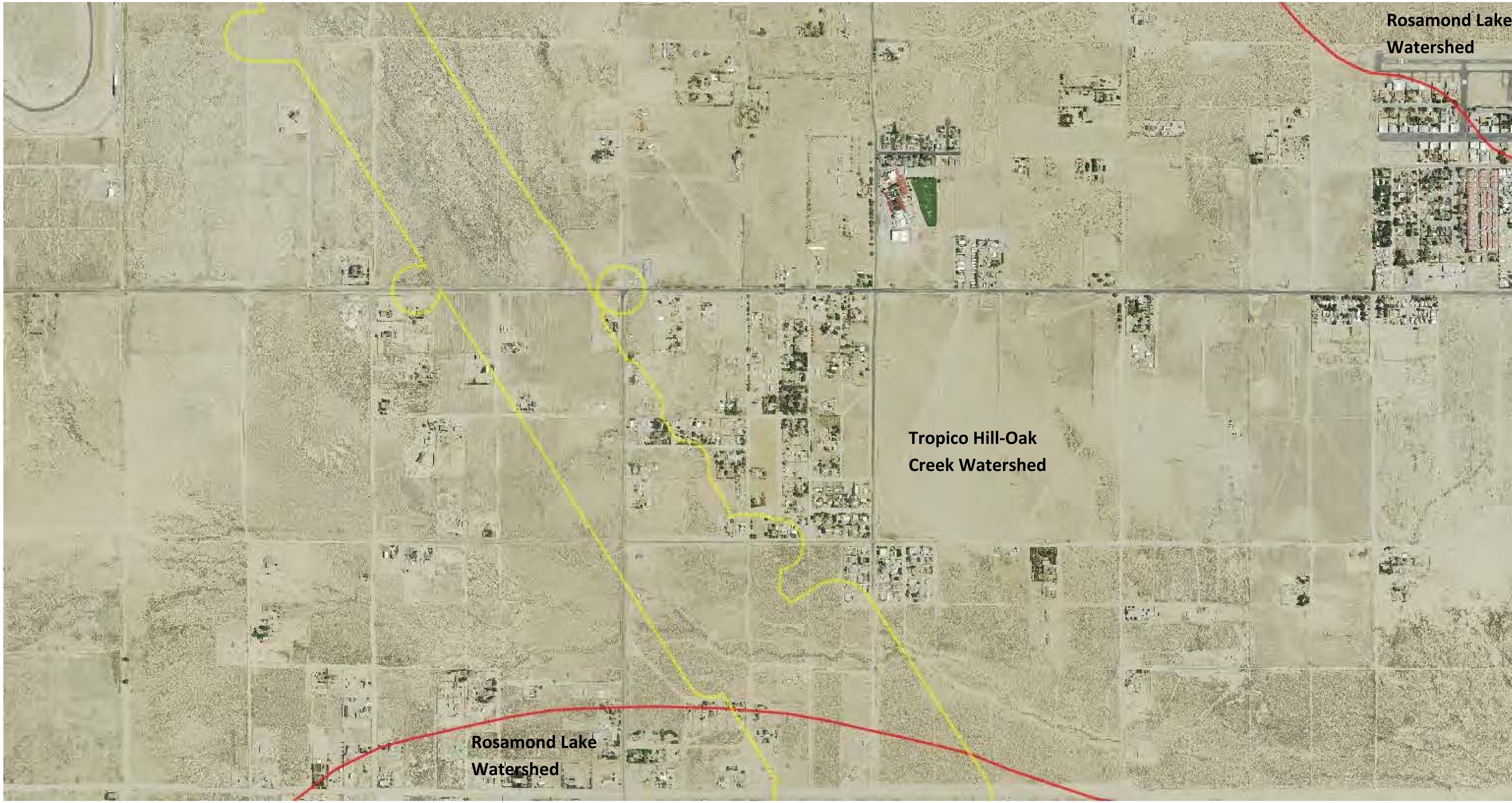

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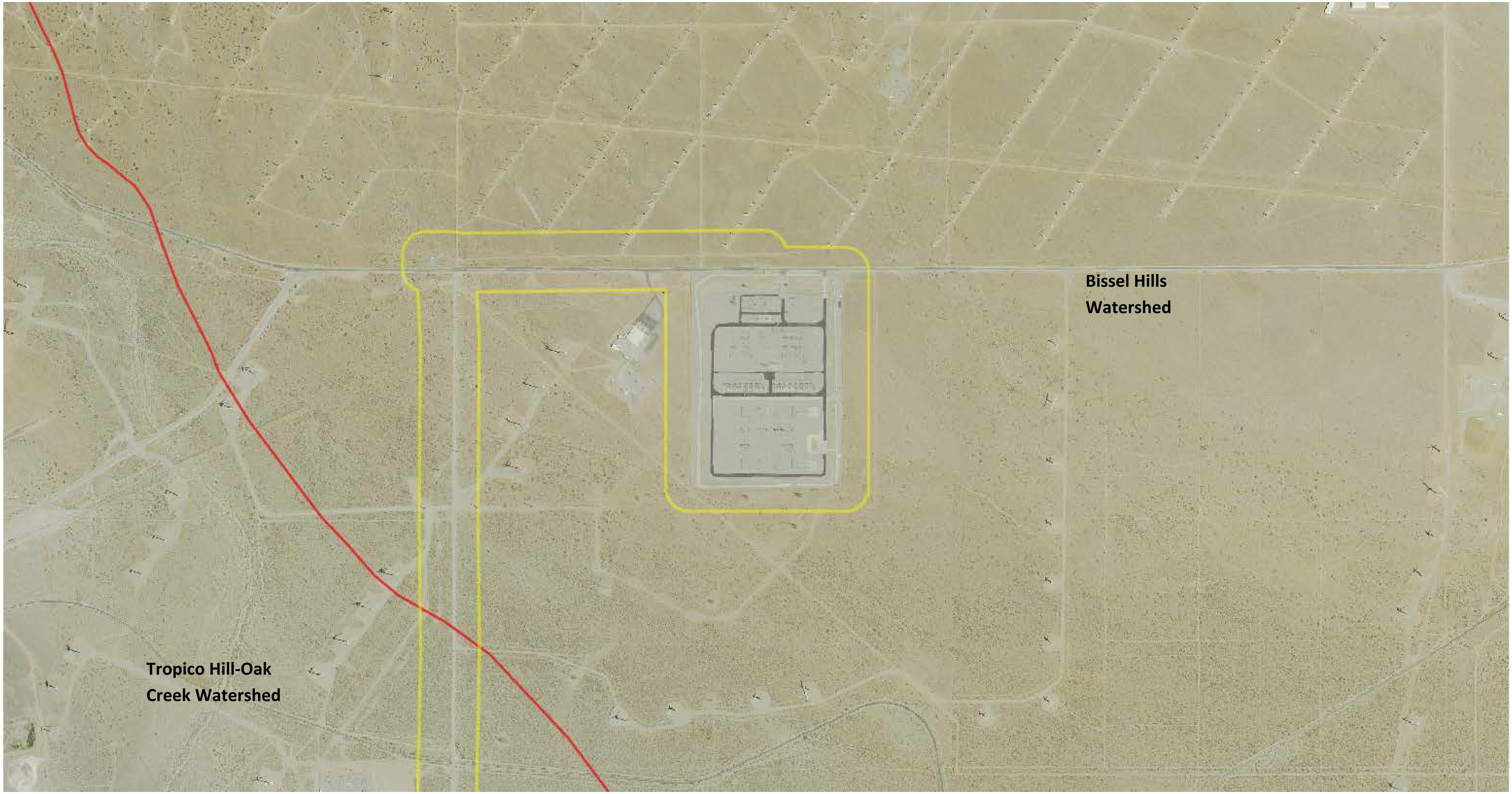
Aerial Sources: http://maps.co.kern.ca.us/arcgis/services/ and http://gis.apfo.usda.gov/arcgis/services/NAIP/

Retrieved November 4, 2016.



NAIP 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.

Aerial Sources: http://maps.co.kern.ca.us/arcgis/services/ and http://gis.apfo.usda.gov/arcgis/services/NAIP/

Retrieved November 14, 2016.

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

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

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): July 28, 2017

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: SPL-2010-00945-VCL - JD3

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: CA County/parish/borough: Kern County City: N/A
Center coordinates of site (lat/long in degree decimal format): Lat. 35.096907° N, Long. -118.391170° W.
Universal Transverse Mercator: 373200 m E, 3884676 m N
Name of nearest waterbody: Proctor Lake
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A
Name of watershed or Hydrologic Unit Code (HUC): Proctor Lake, California - HUC12 #181902060102
☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☒ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form.

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

☒ Office (Desk) Determination. Date: July 25, 2017
☐ Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]

☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are no** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
      ☐ TNWs, including territorial seas
      ☐ Wetlands adjacent to TNWs
      ☐ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
      ☐ Non-RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      ☐ Impoundments of jurisdictional waters
      ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
      Non-wetland waters: linear feet: width (ft) and/or acres.
      Wetlands: acres.

   c. **Limits (boundaries) of jurisdiction** based on: **Not Applicable.**
      Elevation of established OHWM (if known): .

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

The project area contains eight unnamed ephemeral streams spanning a total of approximately 9,722 linear feet (1.84 miles) and covering approximately 1.90 acres; two ditches that carry flow from some of these streams spanning a total of approximately 1,776 linear feet (0.34 miles) and covering approximately 0.21 acre; two seasonal wetlands totaling approximately 0.27 acre; and three basins totaling approximately 0.39 acre in the study area. The basins were constructed in uplands that do not capture waters of the U.S. Labeled maps and

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[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

tables of each of the above aquatic resources with dimensions are provided in the Aquatic Resources Delineation Report, which identifies each feature according to which HUC-12 watershed it occurs within. A completed copy of the Aquatic Resources sheet in the Consolidated ORM Upload Workbook is also appended.

There are no Traditional Navigable Waters (TNWs) or relatively permanent waters (RPWs) in the study area. Proctor Lake, an intermittent lake located east-northeast of the study area, is the low point in the watershed and terminus of surface water flows in this watershed. Unnamed ephemeral streams that cross through the study area, features Str_0211, Str_0213, Str_0215 through Str_0217, Str_0219, Str_0222 and Str_0229, originate in the hills southeast of the town of Tehachapi. Drainage is generally northeast toward Proctor Lake. In the hills, the channels are well-defined with an easily discerned bed and bank, and within the study area, the Ordinary High Water Mark was used to determine extent of these features. As topography flattens in the eastern Tehachapi Valley, these channels become swales, and the hydrologic connection to Proctor Lake includes sheet flow and overland flow. As the low point in the basin, Proctor Lake is the terminal receiving water for streams in the study area. In two locations, ditches constructed along roads capture water from these streams and transport it downstream and back into natural channels. Water from stream feature Str_0213 flows into a ditch, Ditch_0214, along Highline Road. Downstream of the study area, water from the ditch returns to a natural channel and flows toward Proctor Lake. A second ditch, Ditch_0210, conveys water rerouted around an industrial building and under Jameson Road into a natural channel downstream, Str_0211, that flows offsite toward Proctor Lake. A seasonal wetland just south of East Tehachapi Boulevard, feature SW_204, is in a shallow depression within a swale. When the depression overflows, water flows toward Proctor Lake in a swale and then as overland flow. A second seasonal wetland, feature SW_0226, is supported by a hillside seep. Overflowing water would run downhill into stream feature Str_0222.

Additionally, three small basins (Basin_0203, Basin_0208, and Basin_0209) are present in the study area. Basin_0203 appears to be a detention basin, and Basin_0208 and Basin_0209 appear to be holding ponds for irrigation water. All three are constructed as depressions in the ground. In the event that these features overflowed, water would sheet flow toward surface channels and overland toward Proctor Lake.

Features crossing through the study area were evaluated along their entire length to their terminus. Primary land uses within the study area include ranching, farming, surface mines for cement and aggregate, and wind power generation facilities. Rural residential uses were also noted. The drainages and ditches reviewed are ephemeral along their entire length, flowing for only a short time during and after storms, with no discernable commercial or industrial uses. The two seasonal wetlands may have shallow surface water for several weeks, but do not support any discernable commercial or industrial uses, and are not navigable. The detention basin appears to serve as a stormwater control feature, while the irrigation ponds support cultivated agricultural uses. Water is not captured or used for mining or another interstate or foreign commerce.

A previous approved jurisdictional determination was made for tributaries to Proctor Lake with similar characteristics to those identified in this study area. On June 28, 2012, a determination was made for drainages in the SCE Antelope Transmission Line Project: TRTP Segment 3B area, that drain toward Proctor Lake (SPL-2012-00214-SLP, JD2). The previous determination found that Proctor Lake is the low point for drainages that fall within the watershed. It serves as the terminus for the ephemeral waters analyzed in the 2012 determination, as well as for all other waters within this isolated basin. All surface flows that enter Proctor Lake either evaporate or percolate into the groundwater table. Heavy pumping in areas south of Tehachapi and Monolith has altered the movement of groundwater due to the creation of a large pumping depression (See California Groundwater Bulletin 118). No perennial streams exist within the study area for the Proctor Lake watershed. The determination made in 2012 found that there are no published commercial uses of any of the surface waters and a review of current conditions indicated that this has not changed in the intervening years. A site visit conducted on July 18, 2016 confirmed that Proctor Lake is an intermittently dry lake, that is currently a meadow grazed by cattle, that does not support navigation, and does not support commercial or industrial uses of surface waters.

Proctor Lake, as the terminus for the project waters, is not a TNW. Moreover, Proctor Lake is not an (a)(3) water as defined by 33 C.F.R. section 328.3. Proctor Lake does not meet criteria (a)(3)(i-iii), as it: i) does not have use for surface water recreation or other purposes by foreign or interstate travelers, ii) does not have harvesting activities of fish or shellfish that may be sold in interstate or foreign commerce, and iii) does not have surface water industrial usage by industries in interstate commerce. Lastly, the project waters are not (a)(3) waters as defined by 33 C.F.R. section 328.3. The above is based upon the Aquatic Resources Delineation Report for the California High-Speed Rail Project, Bakersfield to Palmdale Section, and all other references listed in Section IV of this form, as well as the review of aerial photographs (Google Earth) that also did not show surface water usage of the subject waters or the dry lake terminus. Therefore, since Proctor Lake is an intrastate, isolated water without a surface water connection to commerce, all project waters as part of the overall Proctor Lake watershed system are also isolated and additionally have no nexus to commerce. Based on the above information, all subject waters (isolated non-RPWs) within the Proctor Lake watershed are non-jurisdictional, since the waters are not tributary to either a TNW or an (a)(3) water and are not (a)(3) waters themselves. Therefore, the eight segments of unnamed ephemeral streams, two segments of ditches, two seasonal wetlands, and three basins within the study are intrastate, isolated waters with no interstate or foreign commerce connection and therefore are not currently regulated**.**

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW
Identify TNW: .

Summarize rationale supporting determination: .

2. Wetland adjacent to TNW
Summarize rationale supporting conclusion that wetland is "adjacent": .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

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

(ii) Physical Characteristics:
(a) Relationship with TNW:
☐ Tributary flows directly into TNW.
☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.
Project waters are **Pick List** river miles from RPW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Project waters are **Pick List** aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain: .

Identify flow route to TNW[5]: .
Tributary stream order, if known: .

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[4] Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

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

Tributary is:
- ☐ Natural
- ☐ Artificial (man-made). Explain: .
- ☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):

Average width: feet
Average depth: feet
Average side slopes: **Pick List.**

Primary tributary substrate composition (check all that apply):

☐ Silts	☐ Sands	☐ Concrete
☐ Cobbles	☐ Gravel	☐ Muck
☐ Bedrock	☐ Vegetation. Type/% cover:	
☐ Other. Explain: .		

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .
Presence of run/riffle/pool complexes. Explain: .
Tributary geometry: **Pick List**
Tributary gradient (approximate average slope): %

(c) Flow:

Tributary provides for: **Pick List**
Estimate average number of flow events in review area/year: **Pick List**
Describe flow regime: .
Other information on duration and volume: .

Surface flow is: **Pick List.** Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .
☐ Dye (or other) test performed: .

Tributary has (check all that apply):
- ☐ Bed and banks
- ☐ OHWM[6] (check all indicators that apply):

☐ clear, natural line impressed on the bank	☐ the presence of litter and debris
☐ changes in the character of soil	☐ destruction of terrestrial vegetation
☐ shelving	☐ the presence of wrack line
☐ vegetation matted down, bent, or absent	☐ sediment sorting
☐ leaf litter disturbed or washed away	☐ scour
☐ sediment deposition	☐ multiple observed or predicted flow events
☐ water staining	☐ abrupt change in plant community
☐ other (list):	

- ☐ Discontinuous OHWM.[7] Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☐ High Tide Line indicated by:	☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects	☐ survey to available datum;
☐ fine shell or debris deposits (foreshore)	☐ physical markings;
☐ physical markings/characteristics	☐ vegetation lines/changes in vegetation types.
☐ tidal gauges	
☐ other (list):	

(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Explain: .
Identify specific pollutants, if known: .

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[6]A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
[7]Ibid.

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

- ☐ Riparian corridor. Characteristics (type, average width): .
- ☐ Wetland fringe. Characteristics: .
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

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

(i) Physical Characteristics:

(a) General Wetland Characteristics:
Properties:
Wetland size: acres
Wetland type. Explain: .
Wetland quality. Explain: .
Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:
Flow is: **Pick List**. Explain: .

Surface flow is**: Pick List**
Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .
☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:
- ☐ Directly abutting
- ☐ Not directly abutting
  - ☐ Discrete wetland hydrologic connection. Explain: .
  - ☐ Ecological connection. Explain: .
  - ☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW
Project wetlands are **Pick List** river miles from TNW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Flow is from: **Pick List.**
Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .
Identify specific pollutants, if known: .

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

- ☐ Riparian buffer. Characteristics (type, average width): .
- ☐ Vegetation type/percent cover. Explain: .
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List**
Approximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   - ☐ TNWs: linear feet width (ft), Or, acres.
   - ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   - ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
   - ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

3. Non-RPWs[8] that flow directly or indirectly into TNWs.
☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: **.**

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.
☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **.**

☐ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.
☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.
☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.[9]
As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
☐ Demonstrate that impoundment was created from "waters of the U.S.," or
☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]
☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
☐ which are or could be used for industrial purposes by industries in interstate commerce.
☐ Interstate isolated waters. Explain: .
☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

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[8]See Footnote # 3.
[9] To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
[10] Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.*

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

☐ Tributary waters: linear feet width (ft).

☐ Other non-wetland waters: acres.

Identify type(s) of waters: **.**

☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.

☒ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.

☒ Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).

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

☐ Other: (explain, if not covered above): **.**

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

☒ Non-wetland waters (i.e., rivers, streams): **9722** linear feet **ranging from 5 to 20 feet in** width (ft).

☐ Lakes/ponds: acres.

☒ Other non-wetland waters: 1.33 acres. List type of aquatic resource: Basins 0.39 acres, Ditches 0.21 acres, Streams 1.90 acres (9,722 linear feet).

☒ Wetlands: 0.27 acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).

☐ Lakes/ponds: acres.

☐ Other non-wetland waters: acres. List type of aquatic resource: .

☐ Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Features are depicted on Map Sheets 66-79 in Appendix E of the submitted delineation. .

☐ Data sheets prepared/submitted by or on behalf of the applicant/consultant.

☐ Office concurs with data sheets/delineation report.

☐ Office does not concur with data sheets/delineation report.

☐ Data sheets prepared by the Corps: .

☐ Corps navigable waters' study: .

☒ U.S. Geological Survey Hydrologic Atlas:HUC12 boundaries and NHD flowlines are shown on the enclosed figures..

☒ USGS NHD data.

☒ USGS 8 and 12 digit HUC maps.

☒ U.S. Geological Survey map(s). Cite scale & quad name: Monolith, Tehachapi North, and Tehachapi South 7.5-minute quadrangles.

☐ USDA Natural Resources Conservation Service Soil Survey. Citation: .

☐ National wetlands inventory map(s). Cite name: .

☐ State/Local wetland inventory map(s): .

☐ FEMA/FIRM maps: .

☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)

☒ Photographs: ☒ Aerial (Name & Date): NAIP Imagery 2005 and 2014 at 1-m resolution; Kern County Imagery 2010 and 2014 at 1-foot resolution.

or ☒ Other (Name & Date):See attached Photos from 2015 and 2016 consultant-conducted field work.

☒ Previous determination(s). File no. and date of response letter: SPL-2012-00214-SLP, JD2, dated June 28, 2012; additional previous determinations are cited in SPL-2012-00214-SLP, JD2.

☐ Applicable/supporting case law: .

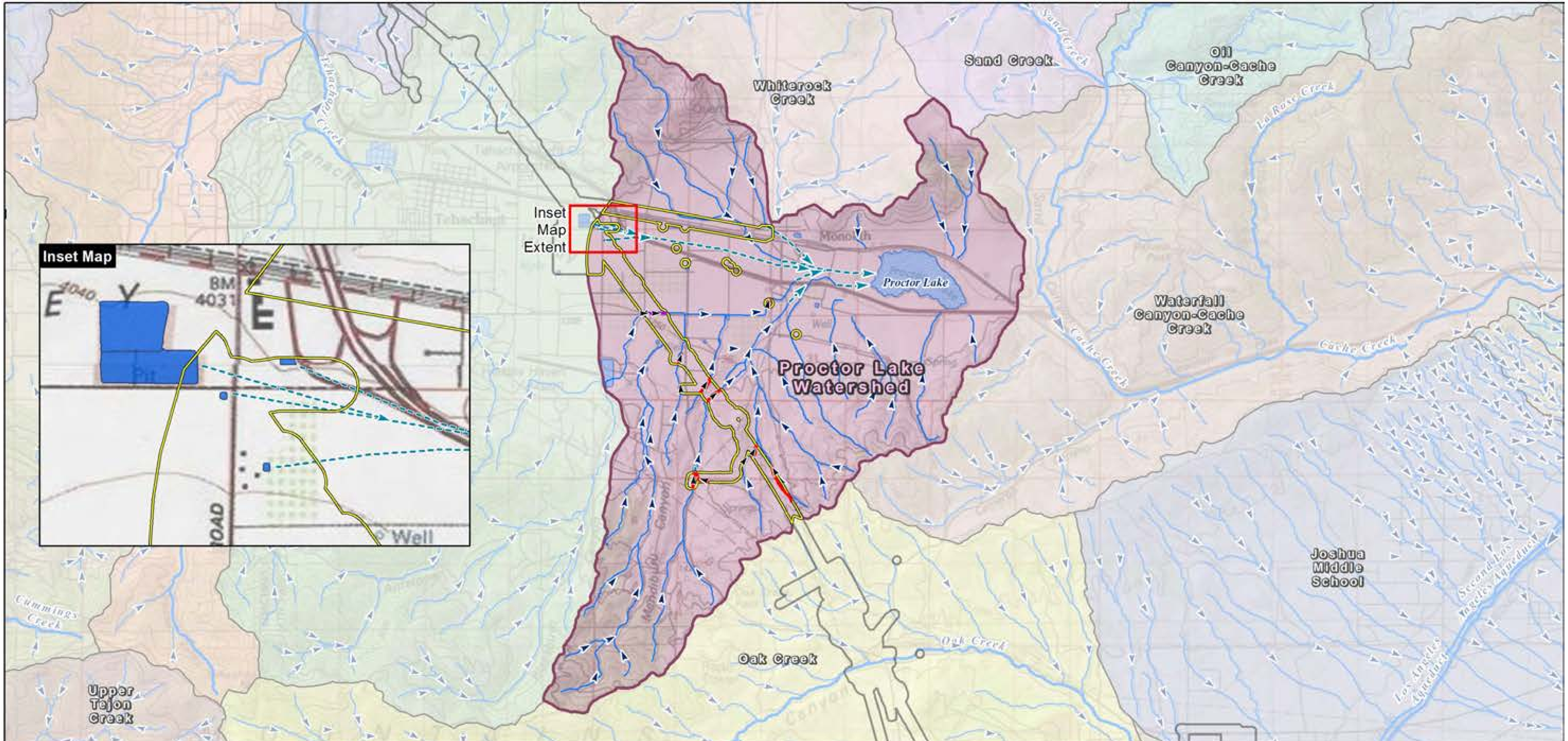
☐ Applicable/supporting scientific literature: .

☒ Other information (please specify): Aquatic Resources Delineation Report prepared by the applicant/consultant references additional materials; also note Appendix E contains map sheets; Appendix F contains dimensions. HUC watershed maps of review areas with NHD Data provided by the applicant/consultant. Streaming imagery sources were reviewed, including Bing Aerial Imagery - multiple years (scale dependent), ESRI World Imagery (streaming service) multiple years (scale dependent); Google Earth imagery. The California Groundwater Bulletin 118 report for the Tehachapi East groundwater basin (last updated 2004) was also reviewed (enclosed).

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Waters_Name	Cowardin_Code	HGM_Code	Amount	Units	Waters_Type	Latitude	Longitude
Basin_0203	PUB	RIVERINE	0.20	ACRE	ISOLATE	35.125046	-118.412559
SW_0204	PEM	DEPRESS	0.04	ACRE	ISOLATE	35.122714	-118.383971
Basin_0208	PUB	RIVERINE	0.09	ACRE	ISOLATE	35.124114	-118.414622
Basin_0209	PUB	RIVERINE	0.10	ACRE	ISOLATE	35.122218	-118.413230
Ditch_0210	R6	RIVERINE	0.04	ACRE	ISOLATE	35.111278	-118.379226
Str_0211	R6	RIVERINE	0.06	ACRE	ISOLATE	35.111964	-118.378768
Str_0213	R6	RIVERINE	0.01	ACRE	ISOLATE	35.109555	-118.405087
Ditch_0214	R6	RIVERINE	0.17	ACRE	ISOLATE	35.109763	-118.402784
Str_0215-001	R6	RIVERINE	0.18	ACRE	ISOLATE	35.096715	-118.397401
Str_0215-002	R6	RIVERINE	0.35	ACRE	ISOLATE	35.102019	-118.397420
Str_0216-001	R6	RIVERINE	0.08	ACRE	ISOLATE	35.080638	-118.394665
Str_0216-002	R6	RIVERINE	0.03	ACRE	ISOLATE	35.082092	-118.394515
Str_0216-003	R6	RIVERINE	0.14	ACRE	ISOLATE	35.095748	-118.390665
Str_0217	R6	RIVERINE	0.16	ACRE	ISOLATE	35.097302	-118.391986
Str_0219-001	R6	RIVERINE	0.04	ACRE	ISOLATE	35.084680	-118.384014
Str_0219-002	R6	RIVERINE	0.20	ACRE	ISOLATE	35.086047	-118.381765
Str_0222-001	R6	RIVERINE	0.12	ACRE	ISOLATE	35.081107	-118.392630
Str_0222-002	R6	RIVERINE	0.04	ACRE	ISOLATE	35.082118	-118.393911
SW_0226	PEM	SLOPE	0.23	ACRE	ISOLATE	35.082256	-118.391571
Str_0229	R6	RIVERINE	0.49	ACRE	ISOLATE	35.080231	-118.376609

.



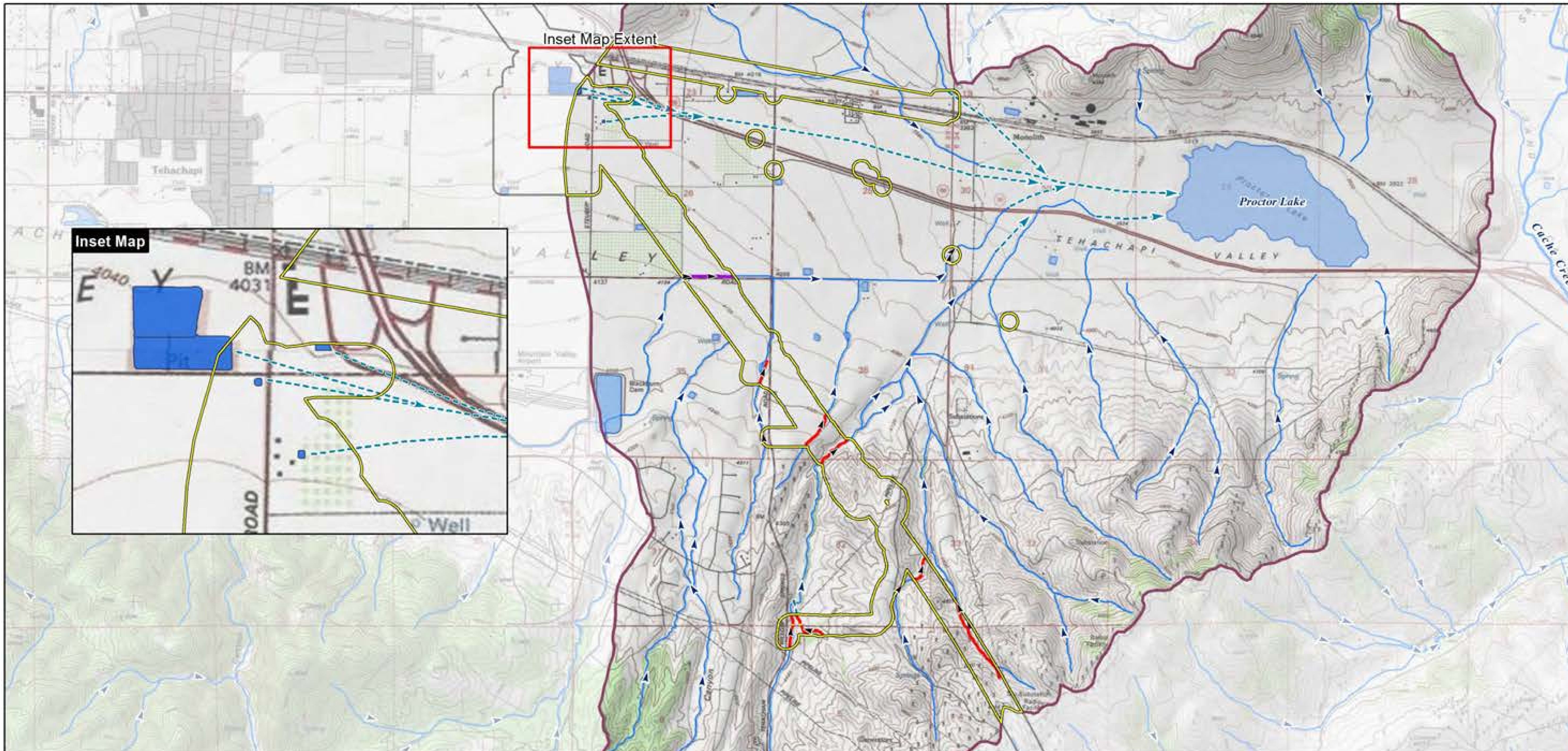
PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 15, 2016

BP HSR Mapped Streams with OHWM in Proctor Lake Watershed Study Area

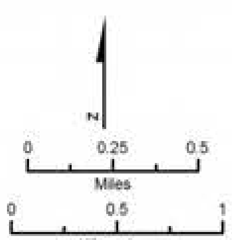
- Culvert
- Ephemeral Stream
- Ditch
- Study Area in Proctor Lake
- Proctor Lake HUC-12 Watershed
- Other HUC-12 Watersheds
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- NHD Waterbodies
- Direction of flow based on NHD flowlines
- Presumed Hydrologic Path
- Basins

Proctor Lake Watershed Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 15, 2016



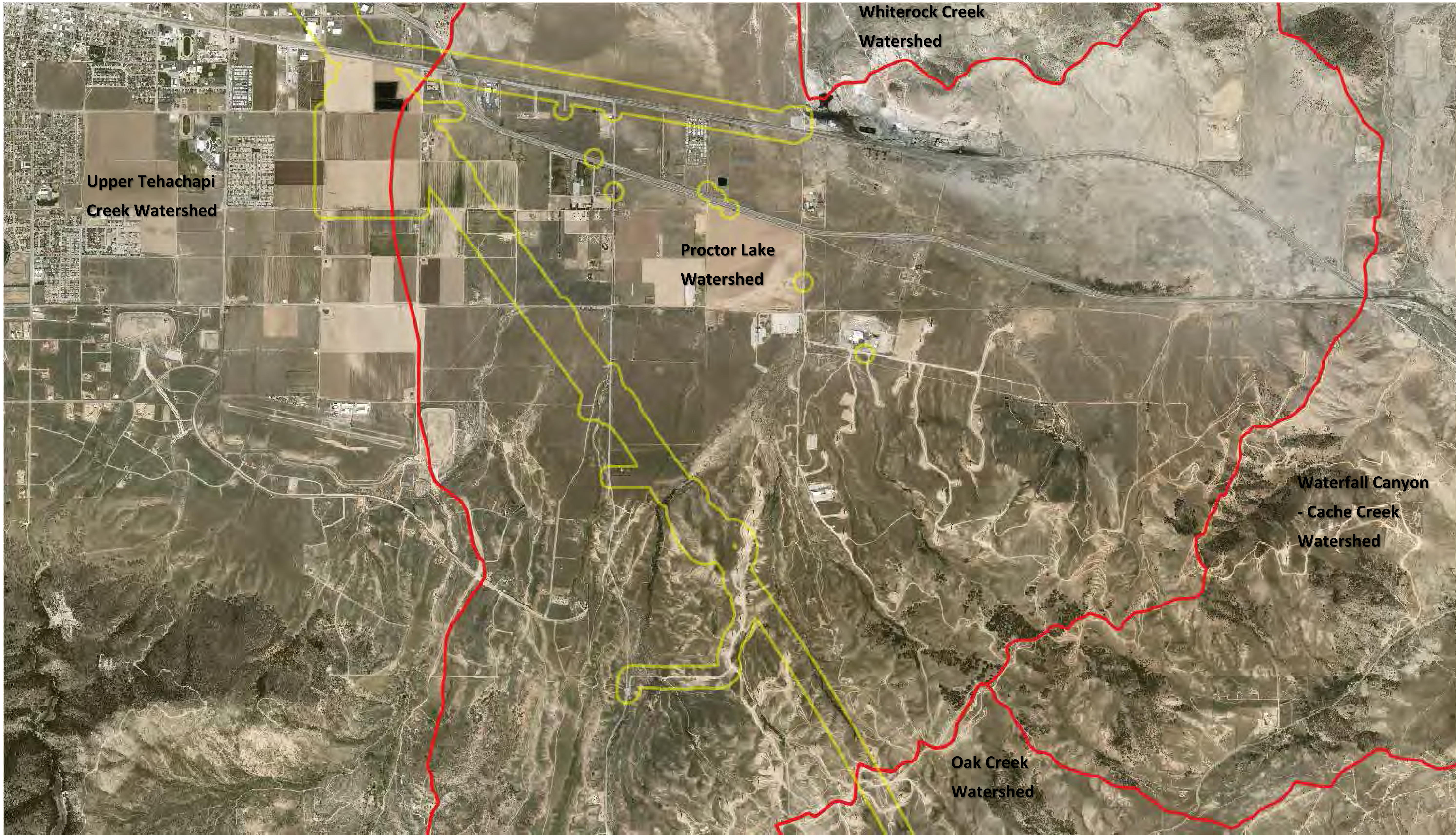
BP HSR Mapped Streams with OHWM in Proctor Lake Watershed Study Area

- Culvert
- Ephemeral Stream
- Ditch

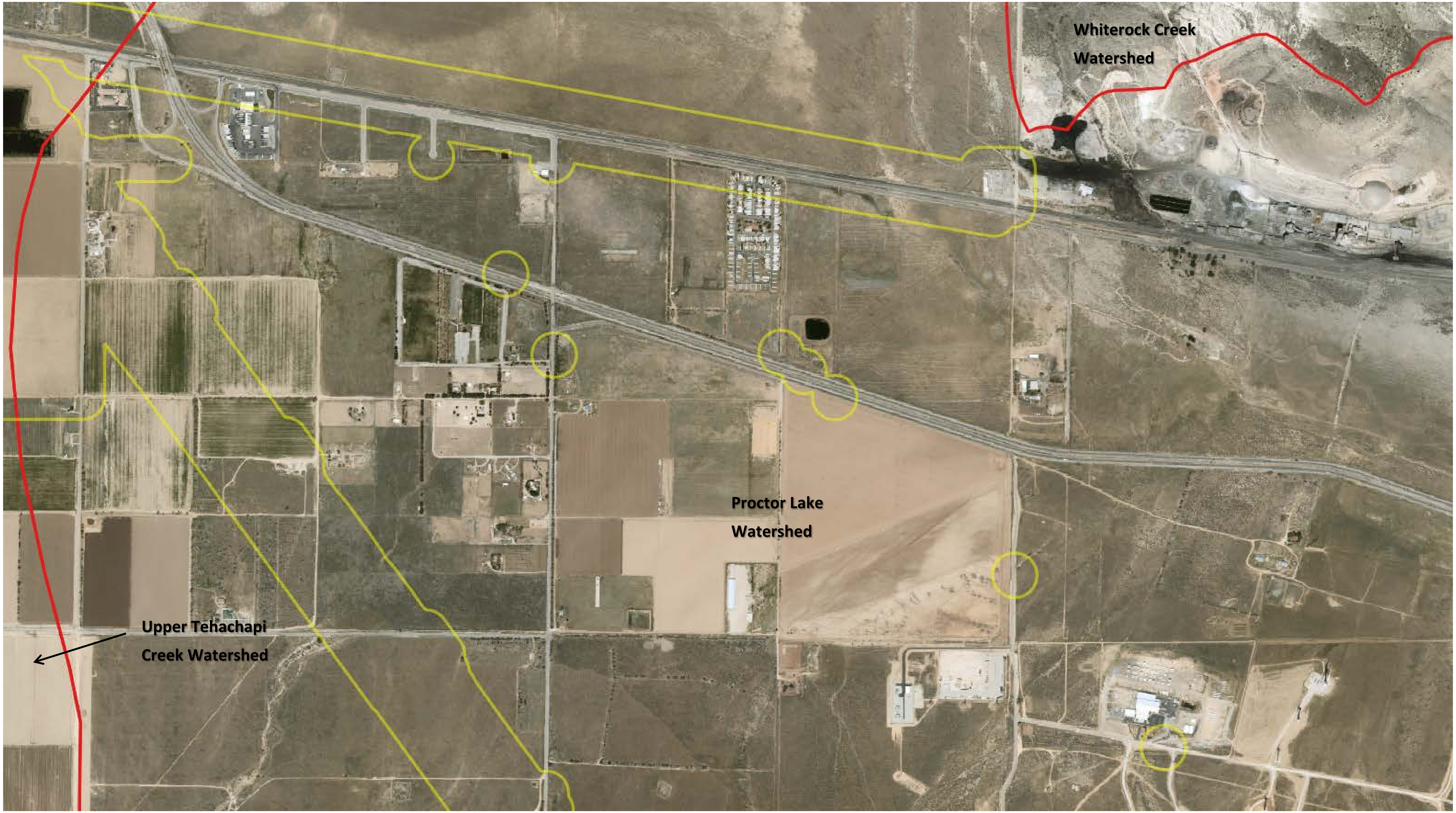
- Study Area in Proctor Lake Watershed
- Proctor Lake HUC-12 Watershed
- Wetlands Study Area (Project Footprint + 250 ft Buffer)

- NHD Waterbodies
- Direction of flow based on NHD flowlines
- Presumed Hydrologic Path
- Basins

Proctor Lake Watershed Study Area
Hydrologic Connectivity



Kern County 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.

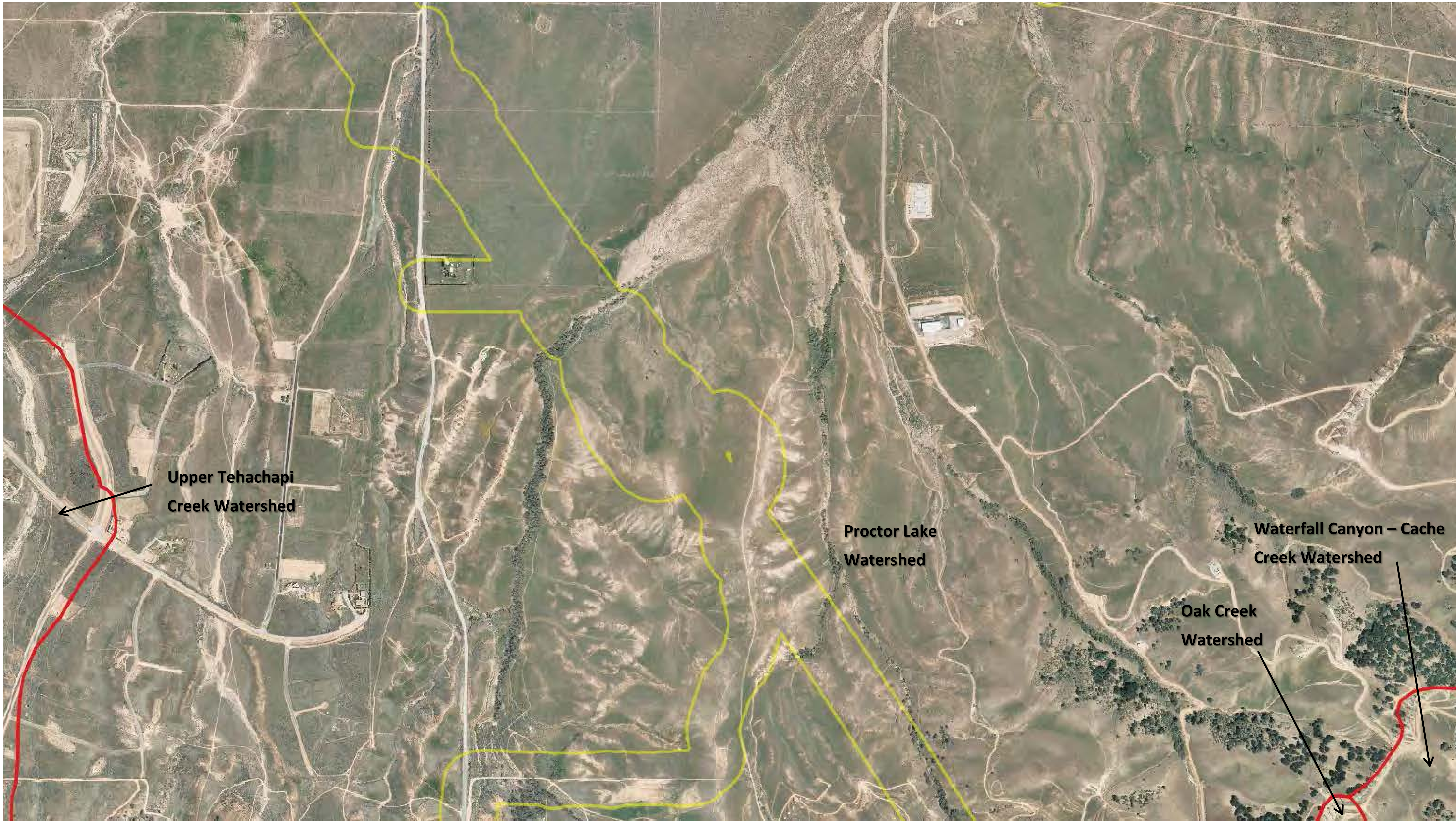


Kern County 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.

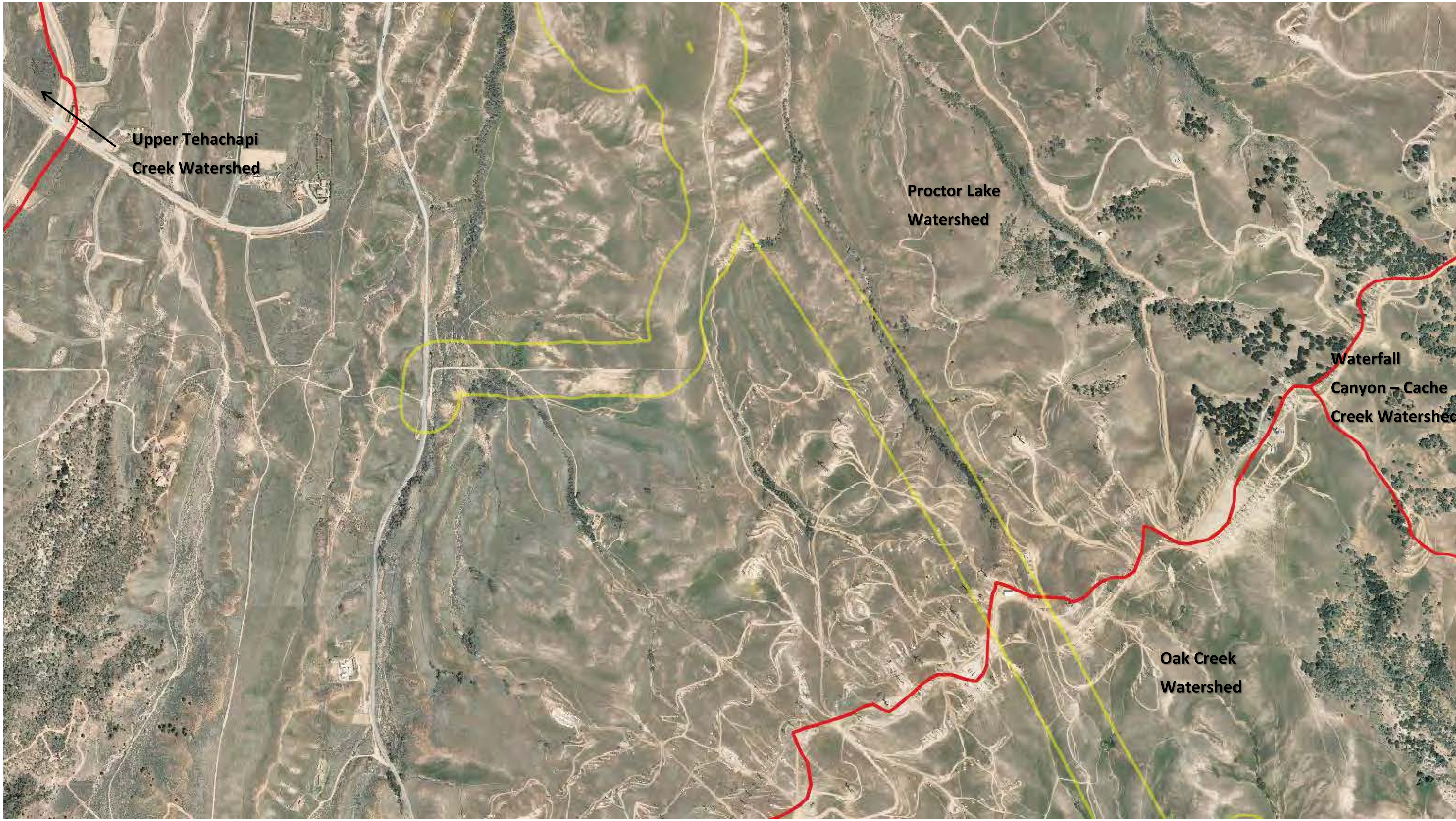
Kern County 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.

Kern County 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.

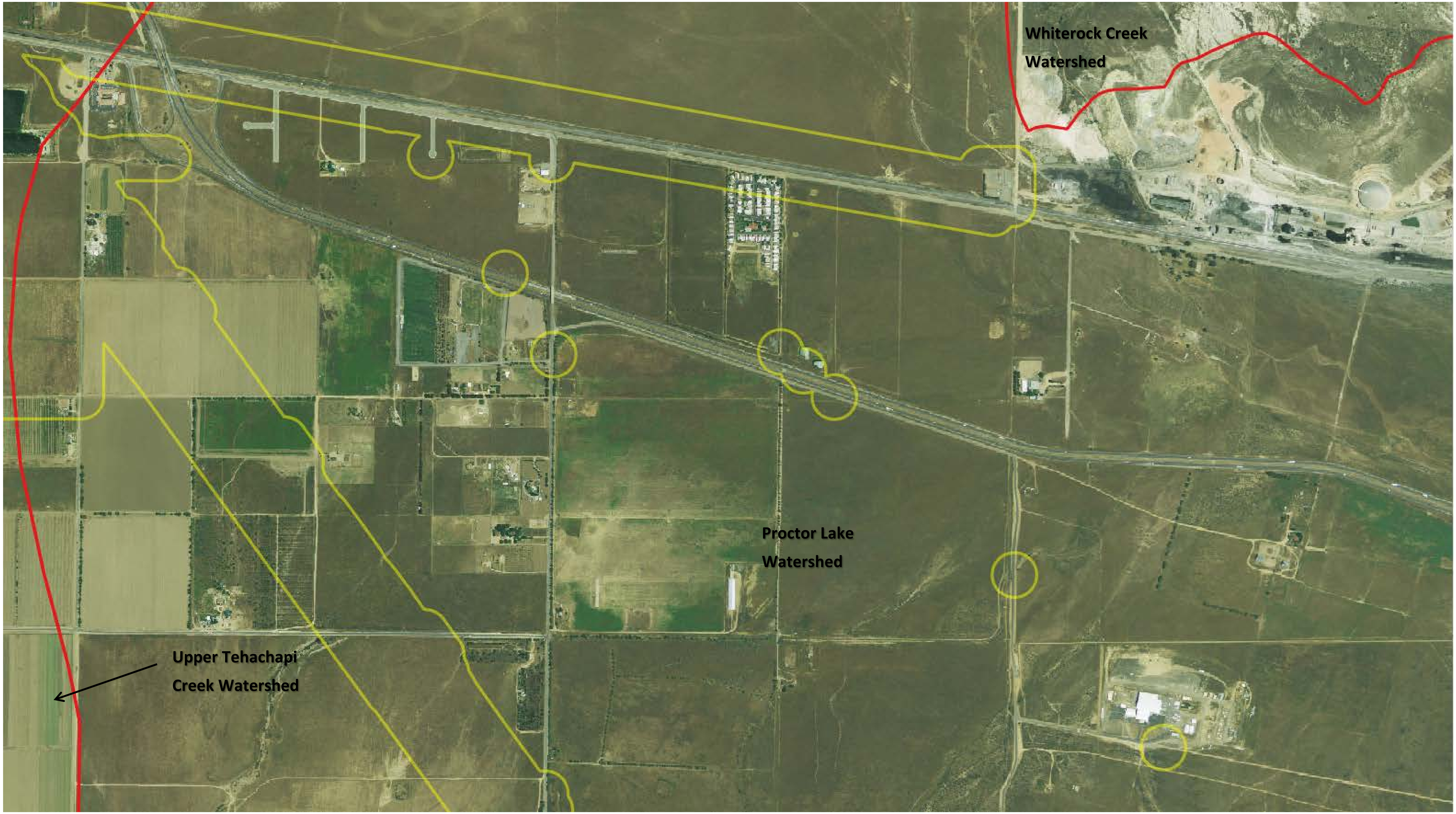
Kern County 2010 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.



Kern County 2010 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.

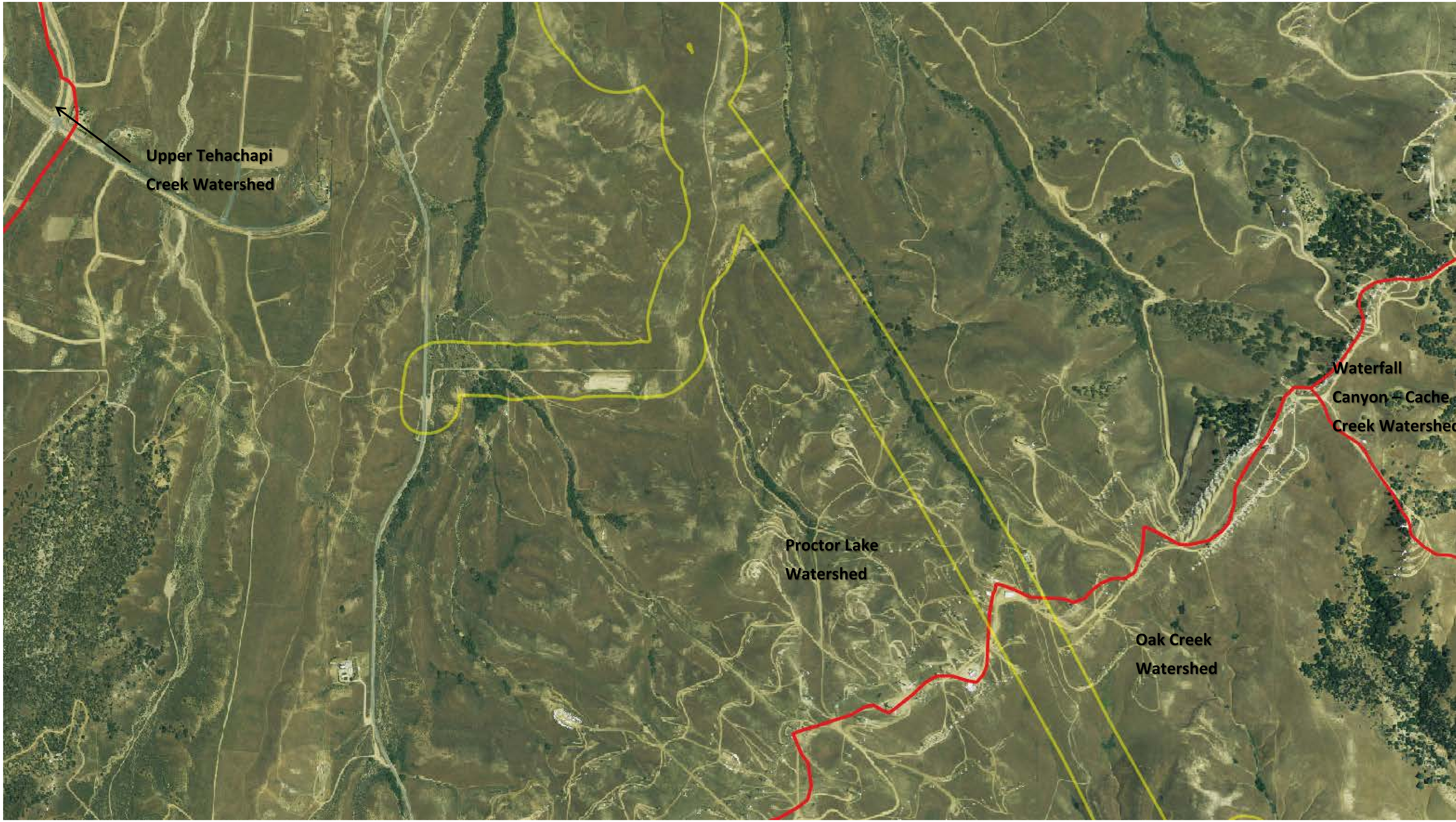


Kern County 2010 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.

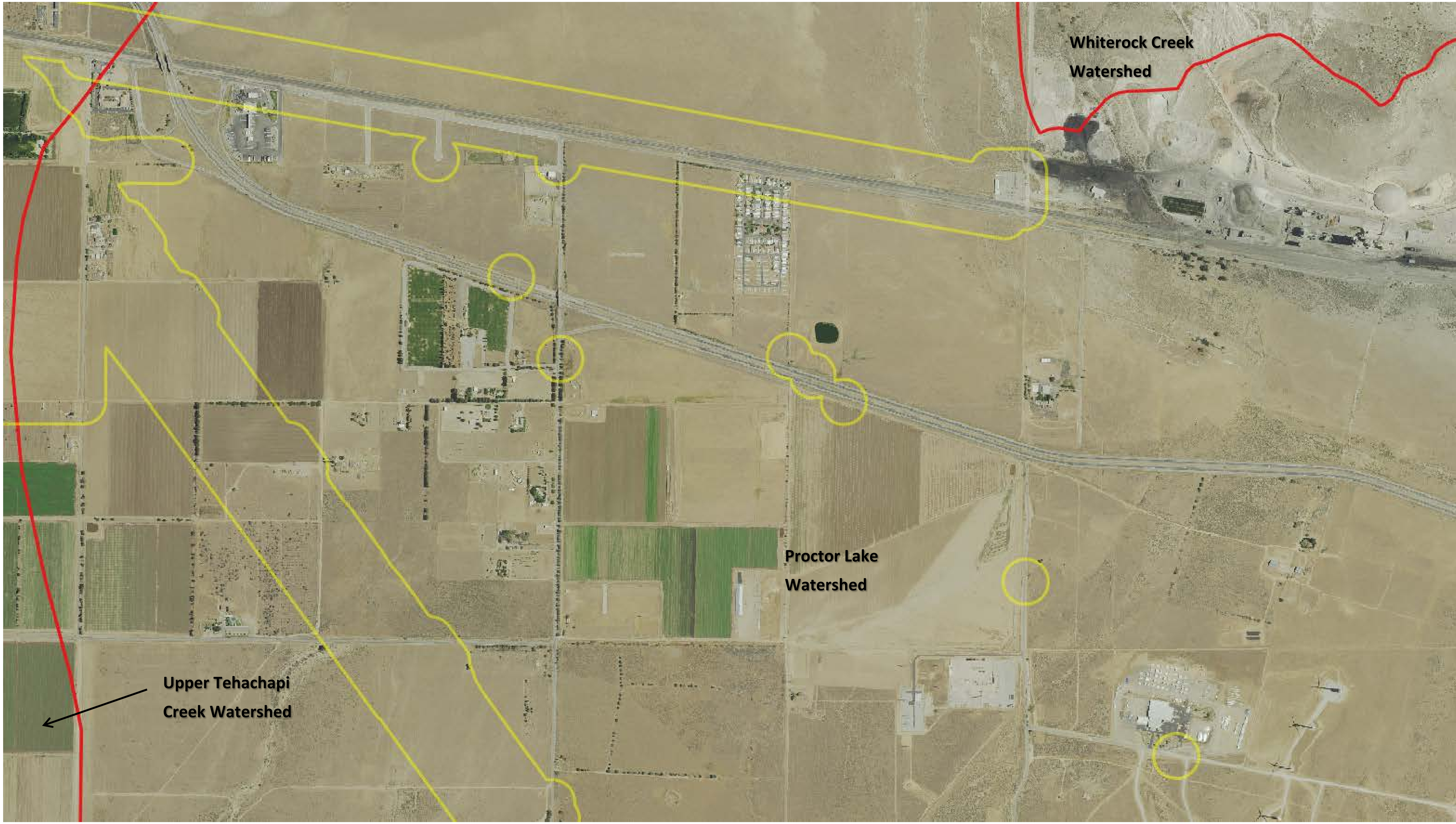


NAIP 2005 Aerial Photo. Yellow Line – Study Area. Red Line– HUC 12 Watershed Boundaries.

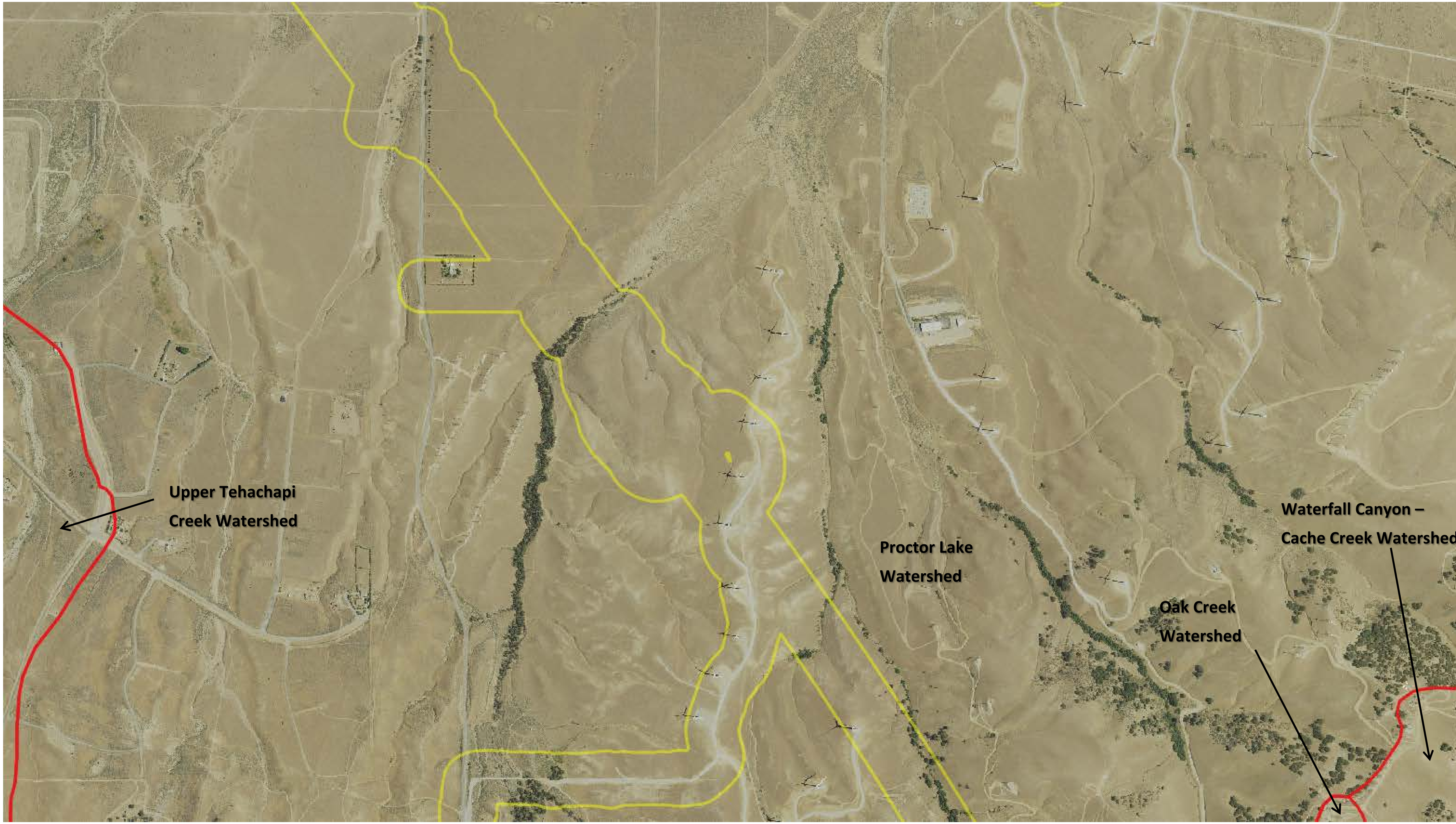
NAIP 2005 Aerial Photo. Yellow Line – Study Area. Red Line– HUC 12 Watershed Boundaries.



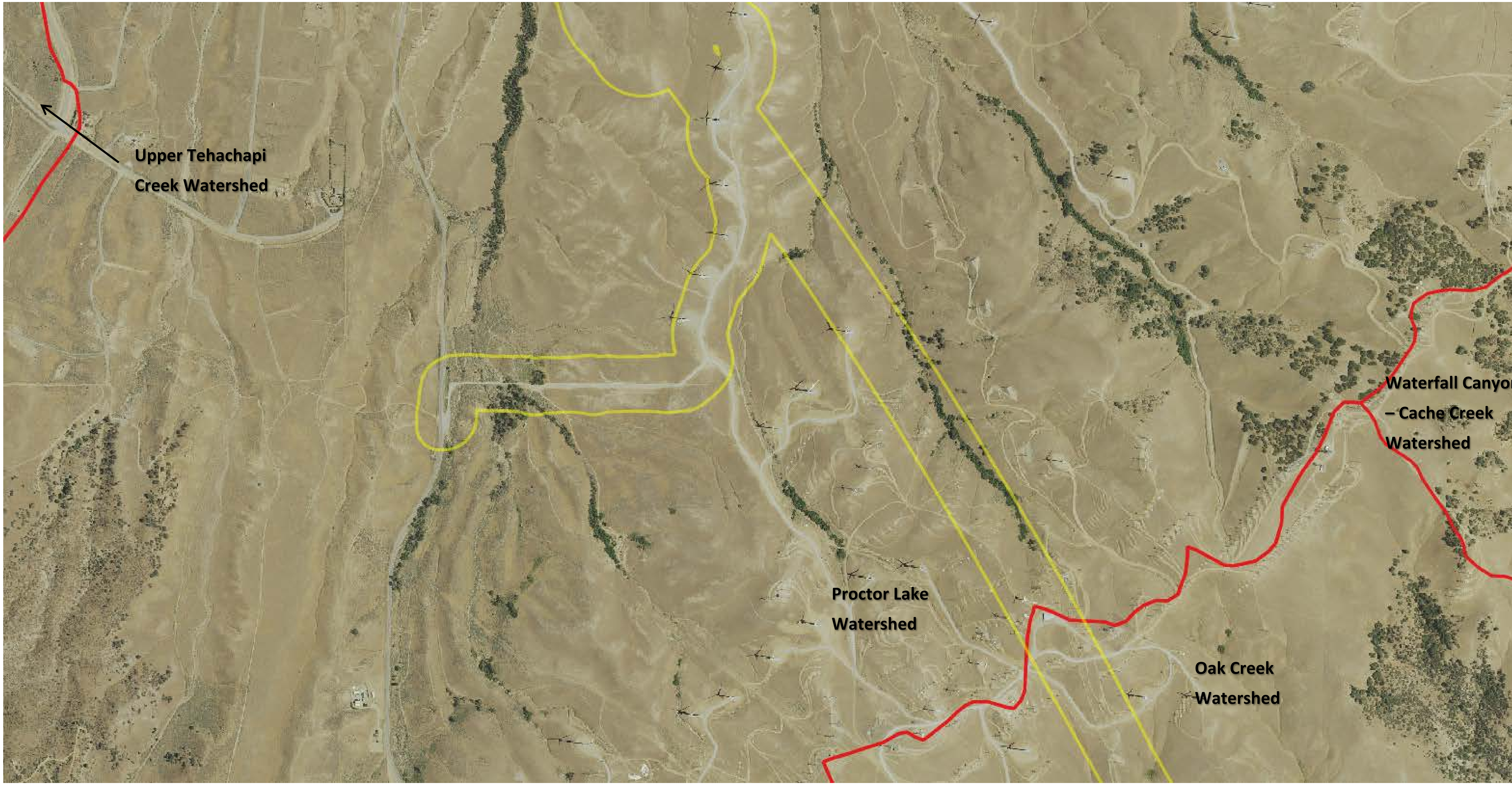
NAIP 2005 Aerial Photo. Yellow Line – Study Area. Red Line– HUC 12 Watershed Boundaries.



NAIP 2014 Aerial Photo. Yellow Line – Study Area. Red Line– HUC 12 Watershed Boundaries.



NAIP 2014 Aerial Photo. Yellow Line – Study Area. Red Line– HUC 12 Watershed Boundaries.



NAIP 2014 Aerial Photo. Yellow Line – Study Area. Red Line– HUC 12 Watershed Boundaries.

Aerial Sources: http://maps.co.kern.ca.us/arcgis/services/ and http://gis.apfo.usda.gov/arcgis/services/NAIP/

Retrieved December 5, 2016.

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

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

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): July 28, 2017

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: SPL-2010-00945-VCL-JD-4

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: CA County/parish/borough: Kern and Los Angeles City: N/A
Center coordinates of site (lat/long in degree decimal format): Lat. 34.81623° N, Long. 118.20510° W.
Universal Transverse Mercator: 389784 m E, 3853326 m N
Name of nearest waterbody: Rosamond Lake

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A
Name of watershed or Hydrologic Unit Code (HUC): Rosamond Lake, California, 1809020624

☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☒ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form.

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

☒ Office (Desk) Determination. Date: July 25, 2017
☐ Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]

☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are no** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
      ☐ TNWs, including territorial seas
      ☐ Wetlands adjacent to TNWs
      ☐ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
      ☐ Non-RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      ☐ Impoundments of jurisdictional waters
      ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
      Non-wetland waters: linear feet: width (ft) and/or acres.
      Wetlands: acres.

   c. **Limits (boundaries) of jurisdiction** based on: **Not Applicable.**
      Elevation of established OHWM (if known): .

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

   Within the project area of the Rosamond Lake HUC 10, there are a total of 375 aquatic features. These features include 33 unnamed ephemeral desert stream features, 325 claypan features, and 17 features formed through ponding.

[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

Ephemeral desert wash streams span a total of approximately 22,059 linear feet (4.17 miles) and cover approximately 2.81 acre and claypan features cover approximately 4.19 acres. Ponded features cover approximately 0.40 acre. Labeled maps and tables of features and dimensions are provided in the Aquatic Resources Delineation Report, which identifies each feature according to which HUC-10 watershed it occurs within. A completed copy of the Aquatic Resources sheet in the Consolidated ORM Upload Workbook is also appended.

The unnamed ephemeral desert washes, features Str_0339, Str_0346 through _0347, Str_0349 through Str_0370, Str_0372 and Str_0372, generally flow east within the study area. Water carried by these streams continues eastward outside the study area, flowing slowly toward Rosamond Dry Lake. Note that several aquatic features have multiple segments and are labeled as such in attached tables (e.g. Str_0358-001, Str_0358-002, etc.). Most of the ephemeral desert wash and ditch features dissipate and do not have defined channels that can be traced all the way down to the terminal point in the watershed. These features are similar to many other streams in the Antelope Valley Watershed that have well-defined channels where they originate in the mountains and foothills, but dissipate on the valley floor, where water movement during storms is primarily sheet flow.

Many ephemeral claypan features (CP_1002, CP_1005, CP_1009, CP_1010, CP_1012, CP_1035 through CP_1077, CP_1111, CP_1115 through CP_1117, CP_1119 through CP_1129, CP_1131 through CP_1171-005, CP_1178 through CP_1302, CP_1313 through CP_1316, CP_1321 through CP_1323, CP_1325, CP_1328, CP_1332, CP_1334 through CP_1335, CP_1337 through CP_1339, CP_1341 through CP_1342-005, CP_1345, CP1346, CP3333-059 through CP3338-055, CP_3340, and CP33344-062) are scattered throughout the study area due to the relatively flat topography. These low-lying depressional features are ephemeral or intermittent, and typically hold water for a few weeks annually.

Seventeen areas of ponding , features PD_1014, PD_1015, PD_1159, PD_1172 through 1174-08, PD_1176, PD_1177-001 and -002, and PD_1288, that hold water for at least fourteen days after storms, were also identified in the study area. These aquatic features generally hold water for a few weeks similar to claypans.

All aquatic features within the study area are ephemeral or intermittent and are not used for commerce. The hydrologic connection to the low point in the Antelope Valley watershed, Rogers, Rosamond, and Buckhorn Dry Lakes, is primarily through sheet flow during storms. A review of topographic maps and watershed boundary datasets indicates that waters from the study area drain toward Rosamond Dry Lake.

There are no Traditional Navigable Waters (TNWs) or Relatively Permanent Waters (RPWs) in the study area, and the ephemeral desert streams in the study area are not tributaries to RPWs or TNWs. A previous SWANCC watershed-level Approved JD for Antelope Valley (HUC10 #s 1809020609 through 1809020624, excluding those portions of HUC12s 18090206151, 1901902061102, and 180902061103 that drain toward Lake Palmdale and its tributaries) determined that Rosamond, Buckhorn, and Rogers Dry Lakes, and their tributaries, (i.e. the Antelope Valley Watershed, excluding Lake Palmdale and tributaries to Lake Palmdale) are non-jurisdictional waters of the United States under SWANCC. This determination, SPL-2011-01084-SLP, dated June 7, 2013, found that these Antelope Valley waters are not tributary to either a TNW or an (a)(3) water and Rosamond, Buckhorn and Rogers Dry Lakes are not (a)(3) waters themselves. The Corps made this watershed conclusion because the Antelope Valley watershed is an isolated, intrastate watershed without any surface water related interstate commerce.

Previously approved jurisdictional determinations have been made for tributaries to these dry lakes. When these lakes were analyzed in SPL-2011-01084-SLP, the Corps found no published commercial uses of the surface waters of any tributaries to Rosamond, Buckhorn and Rogers Dry Lakes, and determined that a review of aerial photographs (Google Earth) also did not depict surface water usage of any drainages tributary to the dry lakes. The Corps found that all tributaries to Rosamond, Buckhorn, and Rogers Dry Lakes are not (a)(3) waters as defined by 33 C.F.R. section 328.3(a)(3)(i-iii). The previous determination found that since Rosamond, Buckhorn and Rogers Dry Lakes are intrastate isolated waters without a surface water connection to commerce, all tributaries to Rosamond, Buckhorn, and Rogers Dry Lakes as part of the overall watershed system are also isolated and additionally have no nexus to commerce. A review of current conditions and updated literature review found that conditions have not changed since the SPL-2011-01084-SLP determination for Antelope Valley.

The above is based upon the review of aerial photographs (Google Earth, accessed July 25, 2017) that also did not show surface water usage of the project drainages or the Rosamond Dry Lake terminus. Since the Rosamond Dry Lake is an intrastate, isolated water without a surface water connection to commerce (see prior AJD file No. SPL-2011-01084-SLP), the subject Project drainages 33 unnamed ephemeral desert stream features, 325 claypan features, and 17 ponded features, as part of the same overall system, are also isolated and additionally have no nexus to commerce.

Based on the information above, the subject drainages, 33 unnamed ephemeral desert stream features, 325 claypan features; and 17 desert ponds, are NONJURISDICTIONAL waters of the United States, since the waters are NOT tributary to either a TNW or an (a)(3) water and are NOT (a)(3) waters themselves. The Corps makes such a conclusion since the waters are tribuatary to an isolated, intrastate dry lake .

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW
Identify TNW: .

Summarize rationale supporting determination: .

2. Wetland adjacent to TNW
Summarize rationale supporting conclusion that wetland is "adjacent": .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

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

(ii) Physical Characteristics:
(a) Relationship with TNW:
☐ Tributary flows directly into TNW.
☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.
Project waters are **Pick List** river miles from RPW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Project waters are **Pick List** aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain: .

Identify flow route to TNW[5]: .
Tributary stream order, if known: .

---

[4] Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

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

Tributary is: ☐ Natural
☐ Artificial (man-made). Explain: .
☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):
Average width: feet
Average depth: feet
Average side slopes: **Pick List.**

Primary tributary substrate composition (check all that apply):

☐ Silts ☐ Sands ☐ Concrete
☐ Cobbles ☐ Gravel ☐ Muck
☐ Bedrock ☐ Vegetation. Type/% cover:
☐ Other. Explain: .

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .
Presence of run/riffle/pool complexes. Explain: .
Tributary geometry: **Pick List**
Tributary gradient (approximate average slope): %

(c) Flow:
Tributary provides for: **Pick List**
Estimate average number of flow events in review area/year: **Pick List**
Describe flow regime: .
Other information on duration and volume: .

Surface flow is: **Pick List.** Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .
☐ Dye (or other) test performed: .

Tributary has (check all that apply):
☐ Bed and banks
☐ OHWM[6] (check all indicators that apply):

☐ clear, natural line impressed on the bank ☐ the presence of litter and debris
☐ changes in the character of soil ☐ destruction of terrestrial vegetation
☐ shelving ☐ the presence of wrack line
☐ vegetation matted down, bent, or absent ☐ sediment sorting
☐ leaf litter disturbed or washed away ☐ scour
☐ sediment deposition ☐ multiple observed or predicted flow events
☐ water staining ☐ abrupt change in plant community
☐ other (list):

☐ Discontinuous OHWM.[7] Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☐ High Tide Line indicated by: ☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects ☐ survey to available datum;
☐ fine shell or debris deposits (foreshore) ☐ physical markings;
☐ physical markings/characteristics ☐ vegetation lines/changes in vegetation types.
☐ tidal gauges
☐ other (list):

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Explain: .
Identify specific pollutants, if known: .

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[6]A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
[7]Ibid.

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

- ☐ Riparian corridor. Characteristics (type, average width): .
- ☐ Wetland fringe. Characteristics: .
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

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

(i) Physical Characteristics:

(a) General Wetland Characteristics:

Properties:

Wetland size: acres

Wetland type. Explain: .

Wetland quality. Explain: .

Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:

Flow is: **Pick List**. Explain: .

Surface flow is**: Pick List**

Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .

☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

- ☐ Directly abutting
- ☐ Not directly abutting
  - ☐ Discrete wetland hydrologic connection. Explain: .
  - ☐ Ecological connection. Explain: .
  - ☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW

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

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

Flow is from: **Pick List.**

Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .

Identify specific pollutants, if known: .

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

- ☐ Riparian buffer. Characteristics (type, average width): .
- ☐ Vegetation type/percent cover. Explain: .
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List**

Approximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   - ☐ TNWs: linear feet width (ft), Or, acres.
   - ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   - ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
   - ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

3. **Non-RPWs[8] that flow directly or indirectly into TNWs.**
☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: **.**

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**
☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **.**

☐ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**
☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**
☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.[9]**
As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
☐ Demonstrate that impoundment was created from "waters of the U.S.," or
☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]
☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
☐ which are or could be used for industrial purposes by industries in interstate commerce.
☐ Interstate isolated waters. Explain: .
☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

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[8]See Footnote # 3.
[9] To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
[10] Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.*

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: **.**
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☒ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☒ Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based <u>solely</u> on the "Migratory Bird Rule" (MBR).
☐ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: **.**
☐ Other: (explain, if not covered above): **.**

Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
☒ Non-wetland waters (i.e., rivers, streams): **22,059** linear feet **averaging 2 to 12 feet in** width (ft).
☐ Lakes/ponds: acres.
☒ Other non-wetland waters: 4.59 acres. List type of aquatic resource: Claypans 4.19 acres and Ponding in Developed Areas 0.40 acre.
☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

<u>SECTION IV: DATA SOURCES</u>.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Features are depicted on Map Sheets 132, 133, and 135-139 in Appendix E of the submitted delineation..
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps: .
☐ Corps navigable waters' study: .
☒ U.S. Geological Survey Hydrologic Atlas: See attached watershed maps for HUC boundaries and NHD flowlines.
☒ USGS NHD data.
☒ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: Rosamond 7.5 minute quadrangle.
☐ USDA Natural Resources Conservation Service Soil Survey. Citation: .
☐ National wetlands inventory map(s). Cite name: .
☐ State/Local wetland inventory map(s): .
☐ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date): NAIP Imagery 2005 and 2014 at 1-m resolution; Kern County Imagery 2010 and 2014 as a 1-foot resolution; LA County Imagery 2011 and 2013 at a 1-foot resolution.
or ☐ Other (Name & Date): .
☒ Previous determination(s). File no. and date of response letter: SPL-2011-01084-SLP, June 7, 2013.
☐ Applicable/supporting case law: .
☐ Applicable/supporting scientific literature: .
☒ Other information (please specify):Aquatic Resources Delineation Report prepared by the applicant/consultant references additional materials; also Appendix E contains map sheets; Appendix F contains dimensions. HUC watershed maps of review areas with NHD Data provided by the applicant/consultant; general use of NAIP Imagery 2009, 2010, and 2012 at 1-m resolution; LA County Imagery 2011, 2013, and 2015 at 1-foot resolution; 2015 Site specific IR Imagery, 3-inch color pixel; Bing Aerial Imagery - multiple

years (scale dependent); ESRI World Imagery (streaming service) multiple years (scale dependent); Google Earth Historic Photos (used for reference and includes portions from above listed sources).

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Waters_Name	Cowardin_Code	HGM_Code	Amount	Units	Waters_Type	Latitude	Longitude
Str_0339	R6	RIVERINE	0.03	ACRE	ISOLATE	34.83997	-118.22129
Str_0346a	R6	RIVERINE	0.004	ACRE	ISOLATE	34.82689	-118.2149849
Str_0346c	R6	RIVERINE	0.002	ACRE	ISOLATE	34.82693	-118.2131619
Str_0346e	R6	RIVERINE	0.003	ACRE	ISOLATE	34.82696	-118.2129131
Str_0346g	R6	RIVERINE	0.04	ACRE	ISOLATE	34.82681	-118.2119892
Str_0347	R6	RIVERINE	0.1	ACRE	ISOLATE	34.82607	-118.21223
Str_0349	R6	RIVERINE	0.04	ACRE	ISOLATE	34.81761	-118.20802
Str_0350-001	R6	RIVERINE	0.08	ACRE	ISOLATE	34.81841	-118.20695
Str_0350-002	R6	RIVERINE	87	SQ_FT	ISOLATE	34.81955	-118.20435
Str_0351	R6	RIVERINE	0.03	ACRE	ISOLATE	34.82135	-118.20691
Str_0352	R6	RIVERINE	0.03	ACRE	ISOLATE	34.81642	-118.20669
Str_0353	R6	RIVERINE	0.01	ACRE	ISOLATE	34.8182	-118.20666
Str_0354	R6	RIVERINE	0.36	ACRE	ISOLATE	34.81684	-118.20455
Str_0355	R6	RIVERINE	0.39	ACRE	ISOLATE	34.81527	-118.20419
Str_0356	R6	RIVERINE	87	SQ_FT	ISOLATE	34.81748	-118.20343
Str_0357	R6	RIVERINE	0.35	ACRE	ISOLATE	34.81444	-118.20332
Str_0358-001	R6	RIVERINE	0.06	ACRE	ISOLATE	34.81185	-118.2031844
Str_0358-002	R6	RIVERINE	9	SQ_FT	ISOLATE	34.81207	-118.2028815
Str_0359	R6	RIVERINE	0.03	ACRE	ISOLATE	34.81132	-118.20297
Str_0360	R6	RIVERINE	0.04	ACRE	ISOLATE	34.81073	-118.2028175
Str_0361-001	R6	RIVERINE	0.9	SQ_FT	ISOLATE	34.80954	-118.2020589
Str_0361-002	R6	RIVERINE	0.02	ACRE	ISOLATE	34.80971	-118.202211
Str_0362-001	R6	RIVERINE	0.1	ACRE	ISOLATE	34.81048	-118.2021104
Str_0362-002	R6	RIVERINE	4	SQ_FT	ISOLATE	34.81079	-118.2015221
Str_0363	R6	RIVERINE	0.04	ACRE	ISOLATE	34.81079	-118.20171
Str_0364-001	R6	RIVERINE	131	SQ_FT	ISOLATE	34.8121	-118.20395
Str_0364-002	R6	RIVERINE	0.15	ACRE	ISOLATE	34.81199	-118.2015
Str_0365	R6	RIVERINE	0.11	ACRE	ISOLATE	34.81288	-118.20118
Str_0366	R6	RIVERINE	0.23	ACRE	ISOLATE	34.81079	-118.20088
Str_0367	R6	RIVERINE	0.01	ACRE	ISOLATE	34.80807	-118.19665
Str_0368	R6	RIVERINE	0.07	ACRE	ISOLATE	34.80453	-118.20024
Str_0369-001	R6	RIVERINE	0.01	ACRE	ISOLATE	34.80657	-118.20053
Str_0369-002	R6	RIVERINE	0.04	ACRE	ISOLATE	34.80632	-118.19988
Str_0370	R6	RIVERINE	0.06	ACRE	ISOLATE	34.80521	-118.19939
Str_0372	R6	RIVERINE	0.1	ACRE	ISOLATE	34.80503	-118.1967
Str_0373	R6	RIVERINE	0.28	ACRE	ISOLATE	34.80456	-118.19625
CP_1002-002	PUB	DEPRESS	16	SQ_FT	ISOLATE	34.85156	-118.23357
CP_1005	PUB	DEPRESS	25	SQ_FT	ISOLATE	34.85124	-118.23351
CP_1009	PUB	DEPRESS	800	SQ_FT	ISOLATE	34.85141	-118.23348
CP_1010-002	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.85157	-118.23347
CP_1010-003	PUB	DEPRESS	4	SQ_FT	ISOLATE	34.85157	-118.23347
CP_1012	PUB	DEPRESS	100	SQ_FT	ISOLATE	34.851	-118.23346
PD_1014	PUB	RIVERINE	96	SQ_FT	ISOLATE	34.85093	-118.23321
PD_1015	PUB	RIVERINE	164	SQ_FT	ISOLATE	34.85054	-118.23293
CP_1035	PUB	DEPRESS	946	SQ_FT	ISOLATE	34.84258	-118.23126
CP_1036	PUB	DEPRESS	3068	SQ_FT	ISOLATE	34.84922	-118.23071
CP_1037	PUB	DEPRESS	3595	SQ_FT	ISOLATE	34.84924	-118.22963
CP_1038	PUB	DEPRESS	499	SQ_FT	ISOLATE	34.84552	-118.22936
CP_1039	PUB	DEPRESS	39	SQ_FT	ISOLATE	34.84949	-118.22919
CP_1040	PUB	DEPRESS	2118	SQ_FT	ISOLATE	34.84965	-118.22915
CP_1041	PUB	DEPRESS	58	SQ_FT	ISOLATE	34.84635	-118.22911
CP_1042	PUB	DEPRESS	946	SQ_FT	ISOLATE	34.84965	-118.22905
CP_1043	PUB	DEPRESS	606	SQ_FT	ISOLATE	34.84902	-118.22901
CP_1044	PUB	DEPRESS	212	SQ_FT	ISOLATE	34.84642	-118.22901
CP_1045	PUB	DEPRESS	541	SQ_FT	ISOLATE	34.84856	-118.22901
CP_1046	PUB	DEPRESS	143	SQ_FT	ISOLATE	34.84879	-118.22901
CP_1047	PUB	DEPRESS	1444	SQ_FT	ISOLATE	34.8496	-118.22893
CP_1048	PUB	DEPRESS	286	SQ_FT	ISOLATE	34.84963	-118.2285
CP_1049	PUB	DEPRESS	248	SQ_FT	ISOLATE	34.84949	-118.2284
CP_1050	PUB	DEPRESS	129	SQ_FT	ISOLATE	34.84914	-118.22832

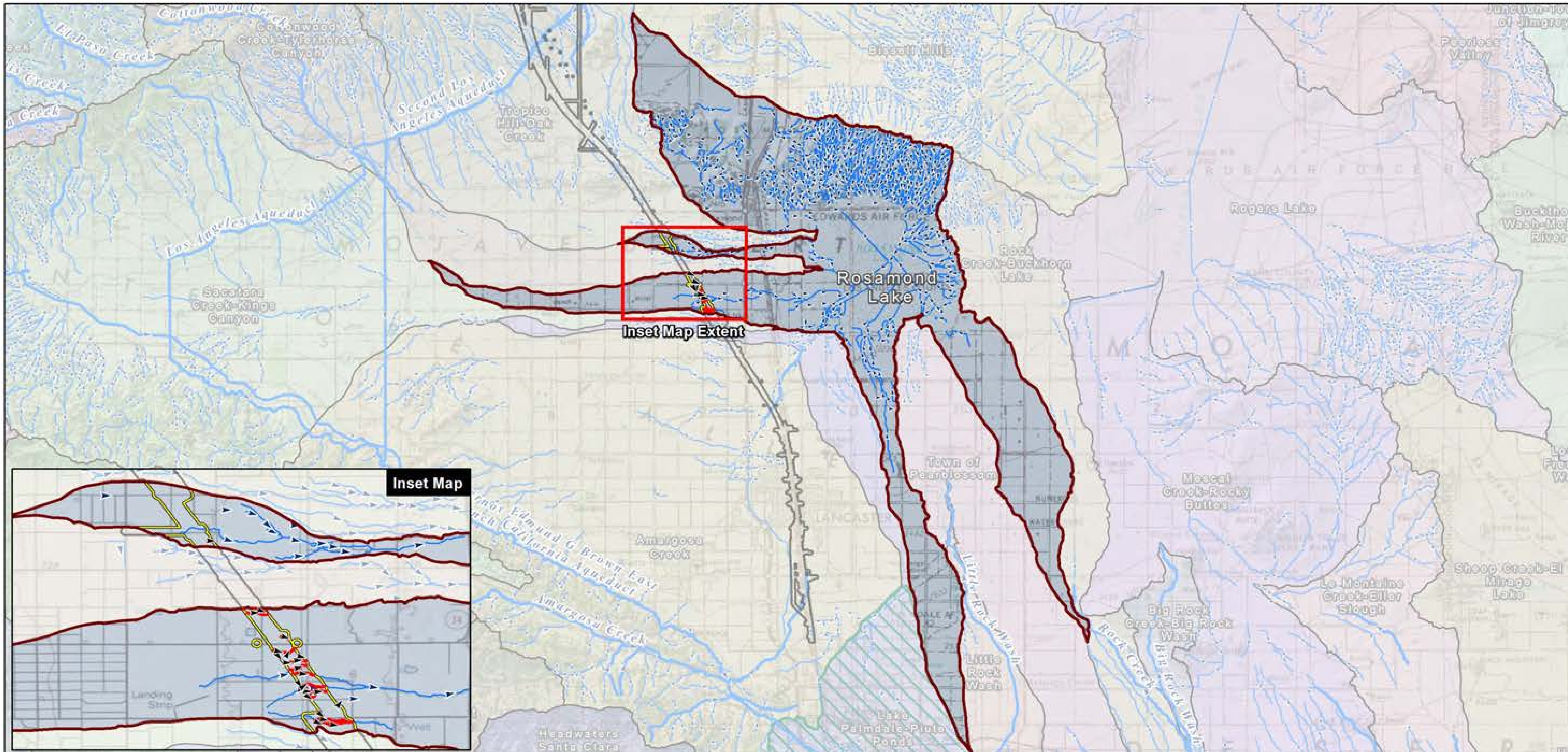
CP_1051	PUB	DEPRESS	1299	SQ_FT	ISOLATE	34.84952	-118.22825
CP_1052	PUB	DEPRESS	68	SQ_FT	ISOLATE	34.84934	-118.22791
CP_1053	PUB	DEPRESS	301	SQ_FT	ISOLATE	34.84936	-118.22777
CP_1054	PUB	DEPRESS	916	SQ_FT	ISOLATE	34.84417	-118.2274
CP_1055	PUB	DEPRESS	3524	SQ_FT	ISOLATE	34.84435	-118.22715
CP_1056	PUB	DEPRESS	59	SQ_FT	ISOLATE	34.84382	-118.22628
CP_1057	PUB	DEPRESS	204	SQ_FT	ISOLATE	34.84422	-118.22584
CP_1058	PUB	DEPRESS	70	SQ_FT	ISOLATE	34.84447	-118.22535
CP_1059	PUB	DEPRESS	9	SQ_FT	ISOLATE	34.84514	-118.22488
CP_1060	PUB	DEPRESS	91	SQ_FT	ISOLATE	34.84167	-118.22906
CP_1061	PUB	DEPRESS	154	SQ_FT	ISOLATE	34.8418	-118.22905
CP_1062	PUB	DEPRESS	203	SQ_FT	ISOLATE	34.84138	-118.22905
CP_1063	PUB	DEPRESS	21	SQ_FT	ISOLATE	34.84174	-118.22905
CP_1064	PUB	DEPRESS	101	SQ_FT	ISOLATE	34.84187	-118.22904
CP_1065	PUB	DEPRESS	140	SQ_FT	ISOLATE	34.84195	-118.22879
CP_1066	PUB	DEPRESS	5684	SQ_FT	ISOLATE	34.84196	-118.2282
CP_1067	PUB	DEPRESS	52	SQ_FT	ISOLATE	34.84192	-118.22814
CP_1068	PUB	DEPRESS	31	SQ_FT	ISOLATE	34.84193	-118.22805
CP_1069	PUB	DEPRESS	683	SQ_FT	ISOLATE	34.84189	-118.22785
CP_1070	PUB	DEPRESS	538	SQ_FT	ISOLATE	34.84175	-118.22758
CP_1071	PUB	DEPRESS	17	SQ_FT	ISOLATE	34.84056	-118.22608
CP_1072	PUB	DEPRESS	100	SQ_FT	ISOLATE	34.842	-118.22573
CP_1073	PUB	DEPRESS	205	SQ_FT	ISOLATE	34.84216	-118.2256
CP_1074	PUB	DEPRESS	821	SQ_FT	ISOLATE	34.84225	-118.22549
CP_1075	PUB	DEPRESS	689	SQ_FT	ISOLATE	34.84241	-118.22527
CP_1076	PUB	DEPRESS	474	SQ_FT	ISOLATE	34.84244	-118.22501
CP_1077	PUB	DEPRESS	199	SQ_FT	ISOLATE	34.84244	-118.22374
CP_1111	PUB	DEPRESS	634	SQ_FT	ISOLATE	34.82642	-118.21469
CP_1115	PUB	DEPRESS	6562	SQ_FT	ISOLATE	34.8259	-118.21371
CP_1116	PUB	DEPRESS	161	SQ_FT	ISOLATE	34.8252	-118.2131
CP_1117	PUB	DEPRESS	9	SQ_FT	ISOLATE	34.82657	-118.21305
CP_1119	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.82563	-118.21291
CP_1120	PUB	DEPRESS	303	SQ_FT	ISOLATE	34.82653	-118.21288
CP_1121-001	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.82421	-118.21269
CP_1121-002	PUB	DEPRESS	30937	SQ_FT	ISOLATE	34.82421	-118.21269
CP_1122	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.82383	-118.21262
CP_1123	PUB	DEPRESS	5244	SQ_FT	ISOLATE	34.82372	-118.21251
CP_1124	PUB	DEPRESS	26	SQ_FT	ISOLATE	34.82544	-118.21243
CP_1125	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.82557	-118.21242
CP_1126-001	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.82567	-118.21241
CP_1126-002	PUB	DEPRESS	14168	SQ_FT	ISOLATE	34.82567	-118.21241
CP_1127-001	PUB	DEPRESS	20	SQ_FT	ISOLATE	34.82693	-118.21241
CP_1127-002	PUB	DEPRESS	81	SQ_FT	ISOLATE	34.82693	-118.21241
CP_1127-003	PUB	DEPRESS	48	SQ_FT	ISOLATE	34.82693	-118.21241
CP_1128	PUB	DEPRESS	10	SQ_FT	ISOLATE	34.8254	-118.21225
CP_1129-001	PUB	DEPRESS	29	SQ_FT	ISOLATE	34.82684	-118.21215
CP_1129-002	PUB	DEPRESS	5	SQ_FT	ISOLATE	34.82684	-118.21215
CP_1129-003	PUB	DEPRESS	10	SQ_FT	ISOLATE	34.82684	-118.21215
CP_1129-004	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.82684	-118.21215
CP_1129-005	PUB	DEPRESS	224	SQ_FT	ISOLATE	34.82684	-118.21215
CP_1131	PUB	DEPRESS	612	SQ_FT	ISOLATE	34.82482	-118.21181
CP_1132	PUB	DEPRESS	22	SQ_FT	ISOLATE	34.82488	-118.21176
CP_1133	PUB	DEPRESS	199	SQ_FT	ISOLATE	34.82306	-118.21155
CP_1134	PUB	DEPRESS	2209	SQ_FT	ISOLATE	34.82431	-118.2115
CP_1135	PUB	DEPRESS	3341	SQ_FT	ISOLATE	34.825	-118.21148
CP_1137	PUB	DEPRESS	50	SQ_FT	ISOLATE	34.82423	-118.21143
CP_1138	PUB	DEPRESS	27	SQ_FT	ISOLATE	34.82646	-118.2114
CP_1139	PUB	DEPRESS	8	SQ_FT	ISOLATE	34.82641	-118.21136
CP_1140	PUB	DEPRESS	93	SQ_FT	ISOLATE	34.82436	-118.21132
CP_1141	PUB	DEPRESS	214	SQ_FT	ISOLATE	34.82316	-118.21132
CP_1142	PUB	DEPRESS	34	SQ_FT	ISOLATE	34.82501	-118.21126
CP_1143-001	PUB	DEPRESS	51	SQ_FT	ISOLATE	34.82638	-118.21125
CP_1143-002	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.82638	-118.21125
CP_1143-003	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.82638	-118.21125
CP_1143-004	PUB	DEPRESS	407	SQ_FT	ISOLATE	34.82638	-118.21125
CP_1143-005	PUB	DEPRESS	145	SQ_FT	ISOLATE	34.82638	-118.21125

CP_1144	PUB	DEPRESS	111	SQ_FT	ISOLATE	34.82465 -118.21094
CP_1145	PUB	DEPRESS	369	SQ_FT	ISOLATE	34.82462 -118.21063
CP_1146	PUB	DEPRESS	40	SQ_FT	ISOLATE	34.8247 -118.21059
CP_1147-001	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.82611 -118.21051
CP_1147-002	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.82611 -118.21051
CP_1147-003	PUB	DEPRESS	67	SQ_FT	ISOLATE	34.82611 -118.21051
CP_1148	PUB	DEPRESS	196	SQ_FT	ISOLATE	34.82609 -118.21046
CP_1149	PUB	DEPRESS	773	SQ_FT	ISOLATE	34.82537 -118.21045
CP_1150	PUB	DEPRESS	10	SQ_FT	ISOLATE	34.82599 -118.21033
CP_1151-001	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.82604 -118.21032
CP_1151-002	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.82604 -118.21032
CP_1151-003	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.82601 -118.21032
CP_1151-004	PUB	DEPRESS	128	SQ_FT	ISOLATE	34.82601 -118.21032
CP_1152	PUB	DEPRESS	107	SQ_FT	ISOLATE	34.82376 -118.20885
CP_1153	PUB	DEPRESS	44	SQ_FT	ISOLATE	34.82299 -118.21152
CP_1154	PUB	DEPRESS	6	SQ_FT	ISOLATE	34.82183 -118.21133
CP_1155	PUB	DEPRESS	6	SQ_FT	ISOLATE	34.82184 -118.21132
CP_1156	PUB	DEPRESS	37	SQ_FT	ISOLATE	34.82186 -118.2113
CP_1157	PUB	DEPRESS	788	SQ_FT	ISOLATE	34.82252 -118.2113
CP_1158	PUB	DEPRESS	35	SQ_FT	ISOLATE	34.82185 -118.21103
PD_1159	PUB	RIVERINE	56	SQ_FT	ISOLATE	34.82047 -118.21016
CP_1160	PUB	DEPRESS	1008	SQ_FT	ISOLATE	34.82025 -118.21012
CP_1161	PUB	DEPRESS	18	SQ_FT	ISOLATE	34.82203 -118.20953
CP_1162	PUB	DEPRESS	5	SQ_FT	ISOLATE	34.82202 -118.2095
CP_1163	PUB	DEPRESS	2292	SQ_FT	ISOLATE	34.82205 -118.20931
CP_1164	PUB	DEPRESS	131	SQ_FT	ISOLATE	34.8201 -118.20917
CP_1165	PUB	DEPRESS	94	SQ_FT	ISOLATE	34.81996 -118.2091
CP_1166	PUB	DEPRESS	507	SQ_FT	ISOLATE	34.82159 -118.2086
CP_1167	PUB	DEPRESS	1102	SQ_FT	ISOLATE	34.8212 -118.20844
CP_1168	PUB	DEPRESS	384	SQ_FT	ISOLATE	34.82143 -118.20823
CP_1169	PUB	DEPRESS	892	SQ_FT	ISOLATE	34.82126 -118.20818
CP_1170-001	PUB	DEPRESS	10	SQ_FT	ISOLATE	34.8187 -118.20817
CP_1170-002	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.8187 -118.20817
CP_1171-001	PUB	DEPRESS	27	SQ_FT	ISOLATE	34.8186 -118.20799
CP_1171-002	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.8186 -118.20799
CP_1171-003	PUB	DEPRESS	184	SQ_FT	ISOLATE	34.8186 -118.20799
CP_1171-004	PUB	DEPRESS	8	SQ_FT	ISOLATE	34.8186 -118.20799
CP_1171-005	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.8186 -118.20799
PD_1172	PUB	RIVERINE	1040	SQ_FT	ISOLATE	34.82051 -118.20658
PD_1173	PUB	RIVERINE	7	SQ_FT	ISOLATE	34.82093 -118.20635
PD_1174-001	PUB	RIVERINE	1	SQ_FT	ISOLATE	34.82096 -118.20633
PD_1174-002	PUB	RIVERINE	12	SQ_FT	ISOLATE	34.82096 -118.20633
PD_1174-003	PUB	RIVERINE	8	SQ_FT	ISOLATE	34.82096 -118.20633
PD_1174-004	PUB	RIVERINE	2610	SQ_FT	ISOLATE	34.82096 -118.20633
PD_1174-005	PUB	RIVERINE	316	SQ_FT	ISOLATE	34.82096 -118.20633
PD_1174-006	PUB	RIVERINE	406	SQ_FT	ISOLATE	34.82096 -118.20633
PD_1174-007	PUB	RIVERINE	1672	SQ_FT	ISOLATE	34.82096 -118.20633
PD_1174-008	PUB	RIVERINE	313	SQ_FT	ISOLATE	34.82096 -118.20633
CP_1175	PUB	DEPRESS	8723	SQ_FT	ISOLATE	34.81539 -118.206
PD_1176	PUB	RIVERINE	360	SQ_FT	ISOLATE	34.82026 -118.20597
PD_1177-001	PUB	RIVERINE	7	SQ_FT	ISOLATE	34.82091 -118.20595
PD_1177-002	PUB	RIVERINE	64	SQ_FT	ISOLATE	34.82091 -118.20595
CP_1178	PUB	DEPRESS	1080	SQ_FT	ISOLATE	34.81876 -118.20592
CP_1179-001	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.81839 -118.2059
CP_1179-002	PUB	DEPRESS	244	SQ_FT	ISOLATE	34.81839 -118.2059
CP_1179-003	PUB	DEPRESS	55	SQ_FT	ISOLATE	34.81839 -118.2059
CP_1179-004	PUB	DEPRESS	76	SQ_FT	ISOLATE	34.81839 -118.2059
CP_1180	PUB	DEPRESS	69	SQ_FT	ISOLATE	34.81875 -118.20574
CP_1181	PUB	DEPRESS	160	SQ_FT	ISOLATE	34.81821 -118.20572
CP_1182	PUB	DEPRESS	216	SQ_FT	ISOLATE	34.81837 -118.2057
CP_1183	PUB	DEPRESS	135	SQ_FT	ISOLATE	34.81835 -118.20558
CP_1184-001	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.81867 -118.20557
CP_1184-002	PUB	DEPRESS	32	SQ_FT	ISOLATE	34.81867 -118.20557
CP_1185	PUB	DEPRESS	58	SQ_FT	ISOLATE	34.8176 -118.20553
CP_1186-001	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.81868 -118.20542
CP_1186-002	PUB	DEPRESS	150	SQ_FT	ISOLATE	34.81868 -118.20542

CP_1187-001	PUB	DEPRESS	5	SQ_FT	ISOLATE	34.81893	-118.2054
CP_1187-002	PUB	DEPRESS	31	SQ_FT	ISOLATE	34.81893	-118.2054
CP_1188-001	PUB	DEPRESS	8	SQ_FT	ISOLATE	34.81913	-118.20505
CP_1188-002	PUB	DEPRESS	19	SQ_FT	ISOLATE	34.81913	-118.20505
CP_1189	PUB	DEPRESS	170	SQ_FT	ISOLATE	34.81629	-118.20495
CP_1190	PUB	DEPRESS	119	SQ_FT	ISOLATE	34.81695	-118.20476
CP_1191	PUB	DEPRESS	61	SQ_FT	ISOLATE	34.8172	-118.20367
CP_1192	PUB	DEPRESS	71	SQ_FT	ISOLATE	34.81582	-118.20347
CP_1193	PUB	DEPRESS	624	SQ_FT	ISOLATE	34.81724	-118.20345
CP_1194-001	PUB	DEPRESS	136	SQ_FT	ISOLATE	34.81676	-118.20343
CP_1194-002	PUB	DEPRESS	6	SQ_FT	ISOLATE	34.81676	-118.20343
CP_1194-003	PUB	DEPRESS	5	SQ_FT	ISOLATE	34.81676	-118.20343
CP_1195	PUB	DEPRESS	111	SQ_FT	ISOLATE	34.81703	-118.20337
CP_1196	PUB	DEPRESS	9	SQ_FT	ISOLATE	34.81682	-118.2033
CP_1197	PUB	DEPRESS	466	SQ_FT	ISOLATE	34.81406	-118.20538
CP_1198	PUB	DEPRESS	1978	SQ_FT	ISOLATE	34.81367	-118.20504
CP_1199	PUB	DEPRESS	2294	SQ_FT	ISOLATE	34.81349	-118.20448
CP_1200	PUB	DEPRESS	1313	SQ_FT	ISOLATE	34.81308	-118.20367
CP_1201	PUB	DEPRESS	8	SQ_FT	ISOLATE	34.81167	-118.20366
CP_1202-001	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.81167	-118.20339
CP_1202-002	PUB	DEPRESS	22	SQ_FT	ISOLATE	34.81167	-118.20339
CP_1202-003	PUB	DEPRESS	7	SQ_FT	ISOLATE	34.81167	-118.20339
CP_1202-004	PUB	DEPRESS	729	SQ_FT	ISOLATE	34.81167	-118.20339
CP_1202-005	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.81167	-118.20339
CP_1202-006	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.81167	-118.20339
CP_1203	PUB	DEPRESS	29	SQ_FT	ISOLATE	34.81441	-118.20334
CP_1204	PUB	DEPRESS	17	SQ_FT	ISOLATE	34.81089	-118.20314
CP_1205	PUB	DEPRESS	383	SQ_FT	ISOLATE	34.81166	-118.20276
CP_1206	PUB	DEPRESS	952	SQ_FT	ISOLATE	34.81154	-118.20276
CP_1207	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.8109	-118.20259
CP_1208-001	PUB	DEPRESS	45	SQ_FT	ISOLATE	34.81223	-118.20257
CP_1208-002	PUB	DEPRESS	10	SQ_FT	ISOLATE	34.81223	-118.20257
CP_1209-001	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.81227	-118.20254
CP_1209-002	PUB	DEPRESS	25	SQ_FT	ISOLATE	34.81227	-118.20254
CP_1210-001	PUB	DEPRESS	1868	SQ_FT	ISOLATE	34.81215	-118.20245
CP_1210-002	PUB	DEPRESS	445	SQ_FT	ISOLATE	34.81215	-118.20245
CP_1211	PUB	DEPRESS	22	SQ_FT	ISOLATE	34.81239	-118.20243
CP_1212	PUB	DEPRESS	20	SQ_FT	ISOLATE	34.81157	-118.20243
CP_1213	PUB	DEPRESS	8	SQ_FT	ISOLATE	34.81173	-118.20242
CP_1214	PUB	DEPRESS	40	SQ_FT	ISOLATE	34.80991	-118.20242
CP_1215	PUB	DEPRESS	72	SQ_FT	ISOLATE	34.81225	-118.20234
CP_1216	PUB	DEPRESS	30	SQ_FT	ISOLATE	34.80992	-118.20232
CP_1217	PUB	DEPRESS	160	SQ_FT	ISOLATE	34.81129	-118.20224
CP_1218	PUB	DEPRESS	10	SQ_FT	ISOLATE	34.81112	-118.2022
CP_1219	PUB	DEPRESS	108	SQ_FT	ISOLATE	34.81067	-118.2022
CP_1220	PUB	DEPRESS	36	SQ_FT	ISOLATE	34.81227	-118.20215
CP_1221	PUB	DEPRESS	148	SQ_FT	ISOLATE	34.81113	-118.20213
CP_1222	PUB	DEPRESS	410	SQ_FT	ISOLATE	34.81485	-118.20205
CP_1223	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.81238	-118.20198
CP_1224-001	PUB	DEPRESS	8	SQ_FT	ISOLATE	34.81216	-118.20198
CP_1224-002	PUB	DEPRESS	66	SQ_FT	ISOLATE	34.81216	-118.20198
CP_1225	PUB	DEPRESS	38	SQ_FT	ISOLATE	34.81106	-118.20197
CP_1226	PUB	DEPRESS	16	SQ_FT	ISOLATE	34.81239	-118.20196
CP_1227	PUB	DEPRESS	19	SQ_FT	ISOLATE	34.81211	-118.20196
CP_1228	PUB	DEPRESS	56	SQ_FT	ISOLATE	34.81215	-118.20194
CP_1229	PUB	DEPRESS	12	SQ_FT	ISOLATE	34.81104	-118.20193
CP_1230	PUB	DEPRESS	37	SQ_FT	ISOLATE	34.81109	-118.20192
CP_1231	PUB	DEPRESS	4	SQ_FT	ISOLATE	34.81104	-118.20191
CP_1232	PUB	DEPRESS	31	SQ_FT	ISOLATE	34.81106	-118.2019
CP_1233	PUB	DEPRESS	73	SQ_FT	ISOLATE	34.81113	-118.20186
CP_1234	PUB	DEPRESS	12	SQ_FT	ISOLATE	34.81067	-118.20184
CP_1235	PUB	DEPRESS	11	SQ_FT	ISOLATE	34.81069	-118.20182
CP_1236	PUB	DEPRESS	11	SQ_FT	ISOLATE	34.81109	-118.20181
CP_1237	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.81221	-118.20179
CP_1238	PUB	DEPRESS	593	SQ_FT	ISOLATE	34.81107	-118.20177
CP_1239	PUB	DEPRESS	264	SQ_FT	ISOLATE	34.81058	-118.20177

CP_1240-001	PUB	DEPRESS	33	SQ_FT	ISOLATE	34.81072 -118.20175
CP_1240-002	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.81072 -118.20175
CP_1241	PUB	DEPRESS	60	SQ_FT	ISOLATE	34.81041 -118.20176
CP_1242	PUB	DEPRESS	19	SQ_FT	ISOLATE	34.81102 -118.20175
CP_1243-001	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.81201 -118.20162
CP_1243-002	PUB	DEPRESS	22	SQ_FT	ISOLATE	34.81201 -118.20162
CP_1243-003	PUB	DEPRESS	6	SQ_FT	ISOLATE	34.81201 -118.20162
CP_1243-004	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.81201 -118.20162
CP_1243-005	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.81201 -118.20162
CP_1243-006	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.81201 -118.20162
CP_1244	PUB	DEPRESS	509	SQ_FT	ISOLATE	34.81039 -118.20161
CP_1245-001	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.81196 -118.20145
CP_1245-002	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.81196 -118.20145
CP_1246-001	PUB	DEPRESS	5	SQ_FT	ISOLATE	34.81009 -118.20142
CP_1246-002	PUB	DEPRESS	343	SQ_FT	ISOLATE	34.81009 -118.20142
CP_1247	PUB	DEPRESS	70	SQ_FT	ISOLATE	34.81005 -118.20141
CP_1248	PUB	DEPRESS	11	SQ_FT	ISOLATE	34.81194 -118.20139
CP_1249	PUB	DEPRESS	622	SQ_FT	ISOLATE	34.81036 -118.20137
CP_1250-001	PUB	DEPRESS	104	SQ_FT	ISOLATE	34.80974 -118.20135
CP_1250-002	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.80974 -118.20135
CP_1251	PUB	DEPRESS	148	SQ_FT	ISOLATE	34.81017 -118.20136
CP_1252-001	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.81191 -118.20132
CP_1252-002	PUB	DEPRESS	17	SQ_FT	ISOLATE	34.81191 -118.20132
CP_1252-003	PUB	DEPRESS	9	SQ_FT	ISOLATE	34.81191 -118.20132
CP_1252-004	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.81191 -118.20132
CP_1252-005	PUB	DEPRESS	19	SQ_FT	ISOLATE	34.81191 -118.20132
CP_1253-001	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.81184 -118.20125
CP_1253-002	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.81184 -118.20125
CP_1253-003	PUB	DEPRESS	6	SQ_FT	ISOLATE	34.81184 -118.20125
CP_1253-004	PUB	DEPRESS	4	SQ_FT	ISOLATE	34.81184 -118.20125
CP_1254-001	PUB	DEPRESS	640	SQ_FT	ISOLATE	34.81031 -118.2012
CP_1254-002	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.81031 -118.2012
CP_1255	PUB	DEPRESS	23	SQ_FT	ISOLATE	34.8118 -118.2012
CP_1256	PUB	DEPRESS	9	SQ_FT	ISOLATE	34.81076 -118.2011
CP_1257-001	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.81176 -118.2011
CP_1257-002	PUB	DEPRESS	12	SQ_FT	ISOLATE	34.81176 -118.2011
CP_1257-003	PUB	DEPRESS	68	SQ_FT	ISOLATE	34.81176 -118.2011
CP_1258-001	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.80998 -118.2011
CP_1258-002	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.80998 -118.2011
CP_1259	PUB	DEPRESS	227	SQ_FT	ISOLATE	34.81041 -118.20106
CP_1260	PUB	DEPRESS	88	SQ_FT	ISOLATE	34.81033 -118.20106
CP_1261	PUB	DEPRESS	28	SQ_FT	ISOLATE	34.81077 -118.20105
CP_1262	PUB	DEPRESS	10	SQ_FT	ISOLATE	34.81034 -118.20095
CP_1263-001	PUB	DEPRESS	135	SQ_FT	ISOLATE	34.81173 -118.2009
CP_1263-002	PUB	DEPRESS	58	SQ_FT	ISOLATE	34.81173 -118.2009
CP_1263-003	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.81173 -118.2009
CP_1264	PUB	DEPRESS	121	SQ_FT	ISOLATE	34.81054 -118.20086
CP_1265	PUB	DEPRESS	3032	SQ_FT	ISOLATE	34.80982 -118.20079
CP_1266	PUB	DEPRESS	787	SQ_FT	ISOLATE	34.80866 -118.20075
CP_1267	PUB	DEPRESS	20	SQ_FT	ISOLATE	34.81081 -118.20061
CP_1268	PUB	DEPRESS	14	SQ_FT	ISOLATE	34.81044 -118.20038
CP_1269	PUB	DEPRESS	252	SQ_FT	ISOLATE	34.81042 -118.20034
CP_1270	PUB	DEPRESS	190	SQ_FT	ISOLATE	34.81171 -118.20024
CP_1271	PUB	DEPRESS	2333	SQ_FT	ISOLATE	34.808 -118.20017
CP_1272	PUB	DEPRESS	1411	SQ_FT	ISOLATE	34.81047 -118.20004
CP_1273	PUB	DEPRESS	8286	SQ_FT	ISOLATE	34.80992 -118.20001
CP_1274	PUB	DEPRESS	5	SQ_FT	ISOLATE	34.81039 -118.19998
CP_1275	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.81038 -118.19998
CP_1276	PUB	DEPRESS	162	SQ_FT	ISOLATE	34.81073 -118.19984
CP_1277	PUB	DEPRESS	21	SQ_FT	ISOLATE	34.81057 -118.19961
CP_1278	PUB	DEPRESS	89	SQ_FT	ISOLATE	34.81064 -118.1992
CP_1279	PUB	DEPRESS	1045	SQ_FT	ISOLATE	34.8093 -118.19879
CP_1280	PUB	DEPRESS	14	SQ_FT	ISOLATE	34.81055 -118.1987
CP_1281	PUB	DEPRESS	12	SQ_FT	ISOLATE	34.80951 -118.19859
CP_1282	PUB	DEPRESS	9	SQ_FT	ISOLATE	34.81068 -118.19856
CP_1283	PUB	DEPRESS	198	SQ_FT	ISOLATE	34.80971 -118.19834

CP_1284	PUB	DEPRESS	10959	SQ_FT	ISOLATE	34.80729	-118.19833
CP_1285	PUB	DEPRESS	29	SQ_FT	ISOLATE	34.80976	-118.19833
CP_1286	PUB	DEPRESS	54	SQ_FT	ISOLATE	34.80983	-118.19832
CP_1287	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.80973	-118.19829
PD_1288	PUB	RIVERINE	10262	SQ_FT	ISOLATE	34.80706	-118.19653
CP_1289	PUB	DEPRESS	1641	SQ_FT	ISOLATE	34.80622	-118.20294
CP_1290	PUB	DEPRESS	889	SQ_FT	ISOLATE	34.80469	-118.20265
CP_1291	PUB	DEPRESS	1291	SQ_FT	ISOLATE	34.80522	-118.20265
CP_1292	PUB	DEPRESS	131	SQ_FT	ISOLATE	34.80519	-118.20255
CP_1293	PUB	DEPRESS	528	SQ_FT	ISOLATE	34.80456	-118.20254
CP_1294	PUB	DEPRESS	3893	SQ_FT	ISOLATE	34.80606	-118.2025
CP_1295	PUB	DEPRESS	453	SQ_FT	ISOLATE	34.80645	-118.2024
CP_1296	PUB	DEPRESS	26	SQ_FT	ISOLATE	34.80641	-118.20237
CP_1297	PUB	DEPRESS	1278	SQ_FT	ISOLATE	34.80418	-118.20184
CP_1298	PUB	DEPRESS	55	SQ_FT	ISOLATE	34.80384	-118.2018
CP_1299	PUB	DEPRESS	1616	SQ_FT	ISOLATE	34.80519	-118.20151
CP_1300	PUB	DEPRESS	572	SQ_FT	ISOLATE	34.80648	-118.20125
CP_1301	PUB	DEPRESS	1538	SQ_FT	ISOLATE	34.80639	-118.20105
CP_1302	PUB	DEPRESS	567	SQ_FT	ISOLATE	34.80584	-118.20059
CP_1313-001	PUB	DEPRESS	424	SQ_FT	ISOLATE	34.80585	-118.19943
CP_1313-002	PUB	DEPRESS	8	SQ_FT	ISOLATE	34.80585	-118.19943
CP_1313-003	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.80585	-118.19943
CP_1313-004	PUB	DEPRESS	11	SQ_FT	ISOLATE	34.80585	-118.19943
CP_1313-005	PUB	DEPRESS	11	SQ_FT	ISOLATE	34.80585	-118.19943
CP_1314	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.80584	-118.19936
CP_1315	PUB	DEPRESS	41	SQ_FT	ISOLATE	34.80581	-118.19934
CP_1316	PUB	DEPRESS	30	SQ_FT	ISOLATE	34.80642	-118.19922
CP_1321	PUB	DEPRESS	81	SQ_FT	ISOLATE	34.80402	-118.19835
CP_1322	PUB	DEPRESS	140	SQ_FT	ISOLATE	34.80405	-118.19833
CP_1323	PUB	DEPRESS	43	SQ_FT	ISOLATE	34.804	-118.19831
CP_1325	PUB	DEPRESS	98	SQ_FT	ISOLATE	34.80392	-118.19812
CP_1328	PUB	DEPRESS	98	SQ_FT	ISOLATE	34.80342	-118.19772
CP_1332	PUB	DEPRESS	132	SQ_FT	ISOLATE	34.80356	-118.19741
CP_1334	PUB	DEPRESS	435	SQ_FT	ISOLATE	34.80308	-118.19689
CP_1335	PUB	DEPRESS	62	SQ_FT	ISOLATE	34.80444	-118.19649
CP_1337	PUB	DEPRESS	27	SQ_FT	ISOLATE	34.80463	-118.19583
CP_1338	PUB	DEPRESS	28	SQ_FT	ISOLATE	34.80466	-118.19581
CP_1339	PUB	DEPRESS	44	SQ_FT	ISOLATE	34.80469	-118.19571
CP_1341	PUB	DEPRESS	62	SQ_FT	ISOLATE	34.80456	-118.19539
CP_1342-001	PUB	DEPRESS	30	SQ_FT	ISOLATE	34.80482	-118.19447
CP_1342-002	PUB	DEPRESS	12	SQ_FT	ISOLATE	34.80482	-118.19447
CP_1342-003	PUB	DEPRESS	101	SQ_FT	ISOLATE	34.80482	-118.19447
CP_1342-004	PUB	DEPRESS	8	SQ_FT	ISOLATE	34.80482	-118.19447
CP_1342-005	PUB	DEPRESS	20	SQ_FT	ISOLATE	34.80482	-118.19447
CP_1345	PUB	DEPRESS	321	SQ_FT	ISOLATE	34.80444	-118.19369
CP_1346	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.80474	-118.19359
CP_3333-059	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.8168	-118.20334
CP_3334-060	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.81681	-118.20332
CP_3335-061	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.81667	-118.20302
CP_3336-001	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.81228	-118.20222
CP_3336-002	PUB	DEPRESS	10	SQ_FT	ISOLATE	34.81228	-118.20222
CP_3337-056	PUB	DEPRESS	6	SQ_FT	ISOLATE	34.81197	-118.20147
CP_3338-055	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.8099	-118.20115
CP_3340-054	PUB	DEPRESS	4	SQ_FT	ISOLATE	34.80449	-118.19641
CP_3344-062	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.80476	-118.19365.



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 21, 2016

N

0 2 4 Miles

0 4 8 Kilometers

BP HSR Mapped Streams with OHWM in Rosamond Lake Watershed Study Area

Ephemeral Stream

Study Area in the Rosamond Lake Creek Watershed

Rosamond Lake Watershed HUC-10

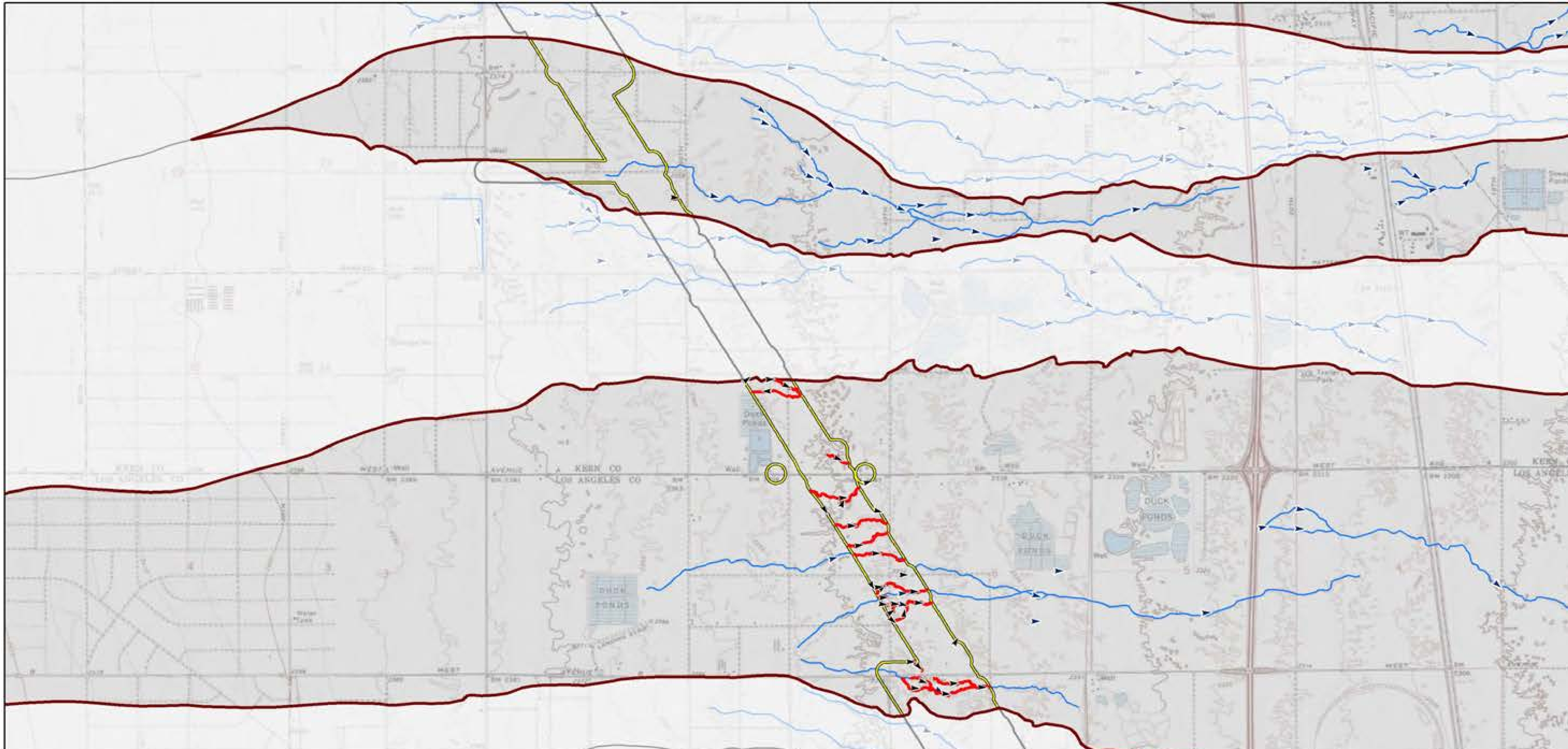
Other HUC-10 Watersheds

Wetlands Study Area (Project Footprint + 250 ft Buffer)

Lake Palmdale HUC-12 Watershed

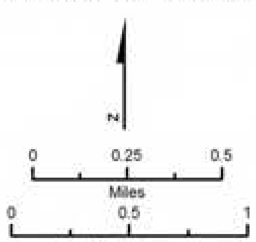
Direction of flow based on NHD flowlines

Rosamond Lake Watershed
Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 14, 2016



BP HSR Mapped Streams with OHWM in Rosamond Lake Watershed Study Area

Ephemeral Stream

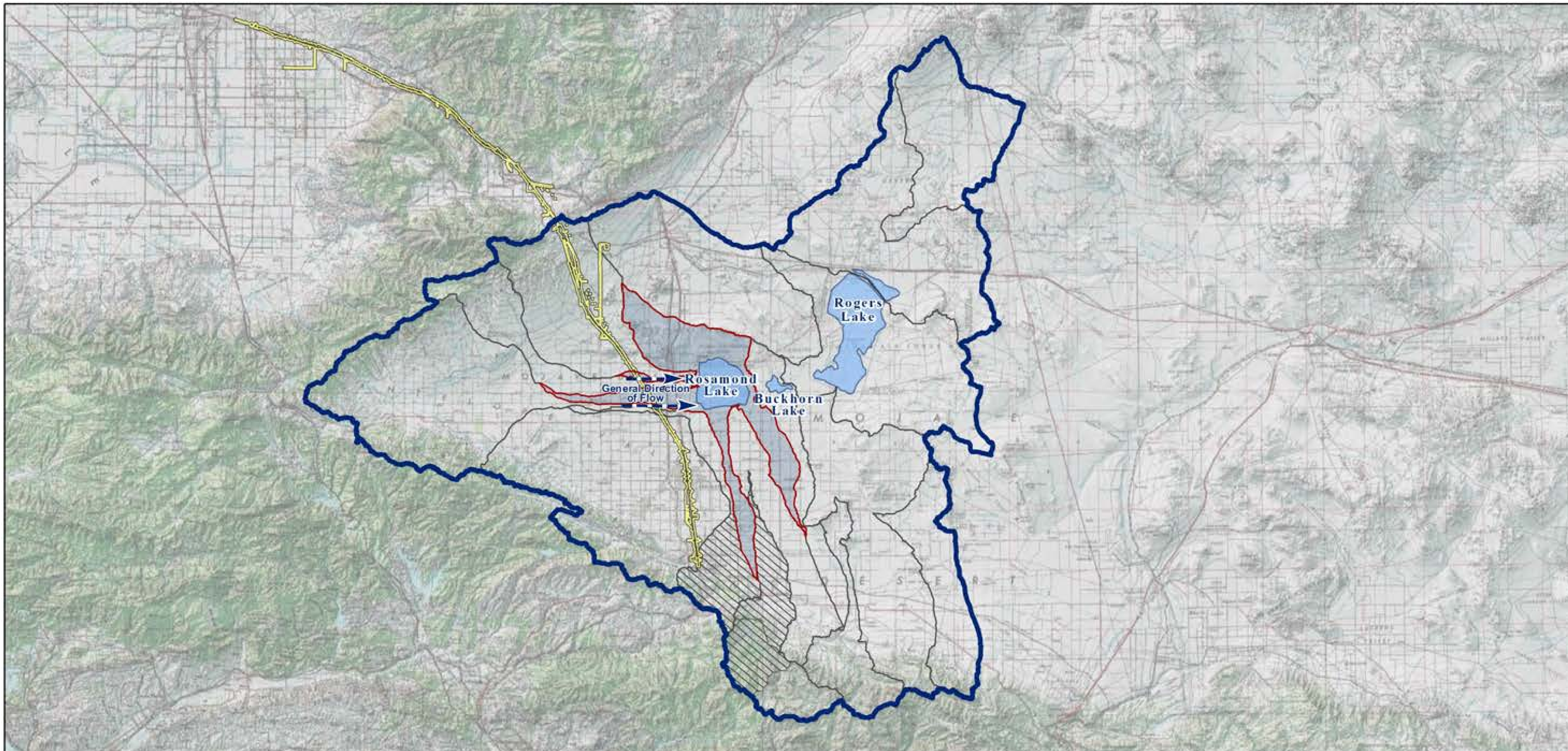
Study Area in the Rosamond Lake Creek Watershed

Rosamond Lake Watershed HUC-10

Wetlands Study Area (Project Footprint + 250 ft Buffer)

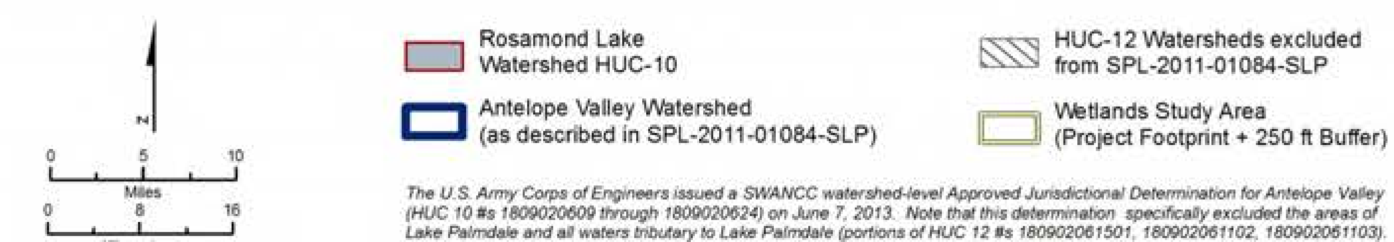
Direction of flow based on NHD flowlines

Rosamond Lake Watershed
Study Area Hydrologic Connectivity



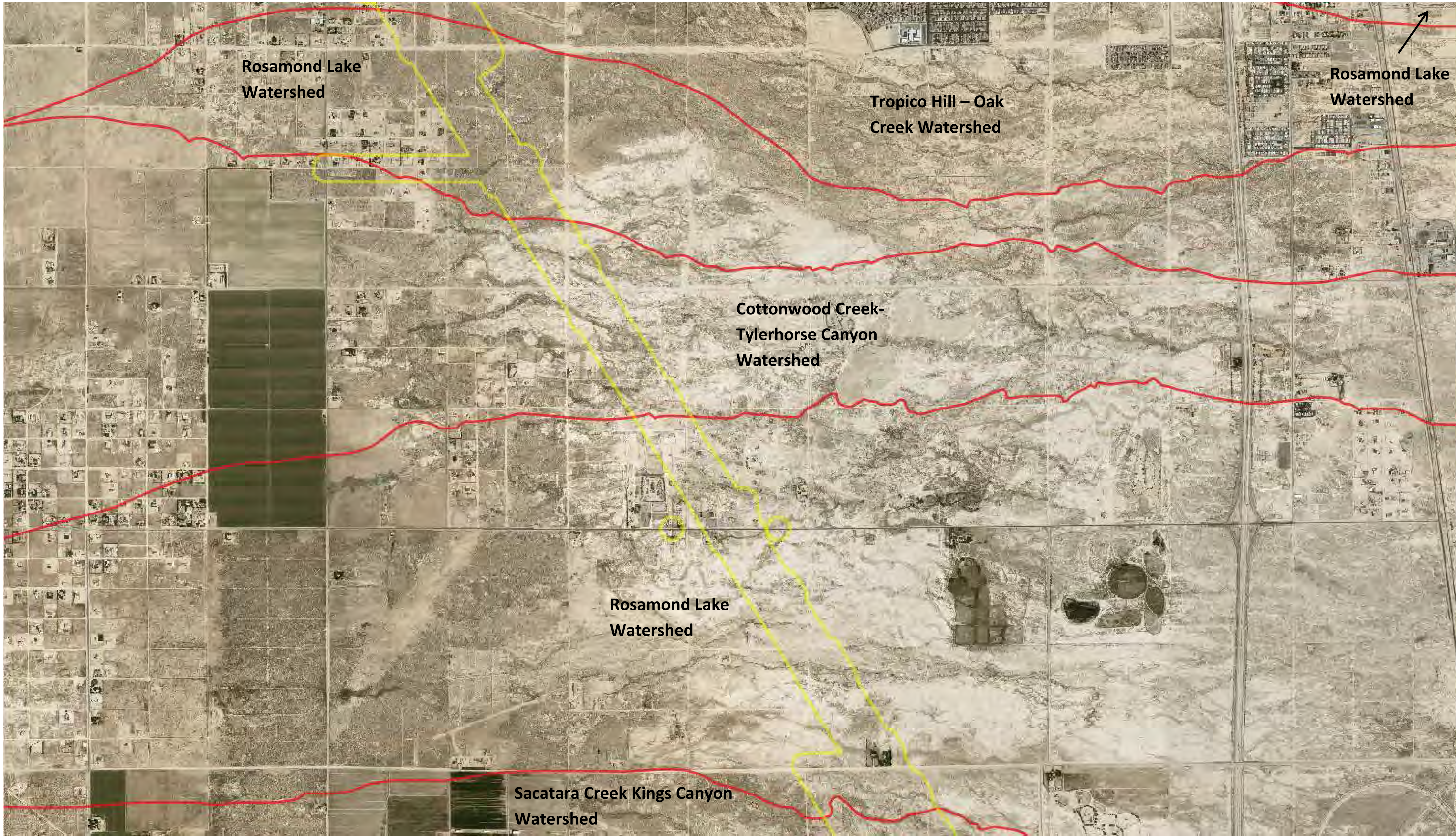
PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 17, 2016

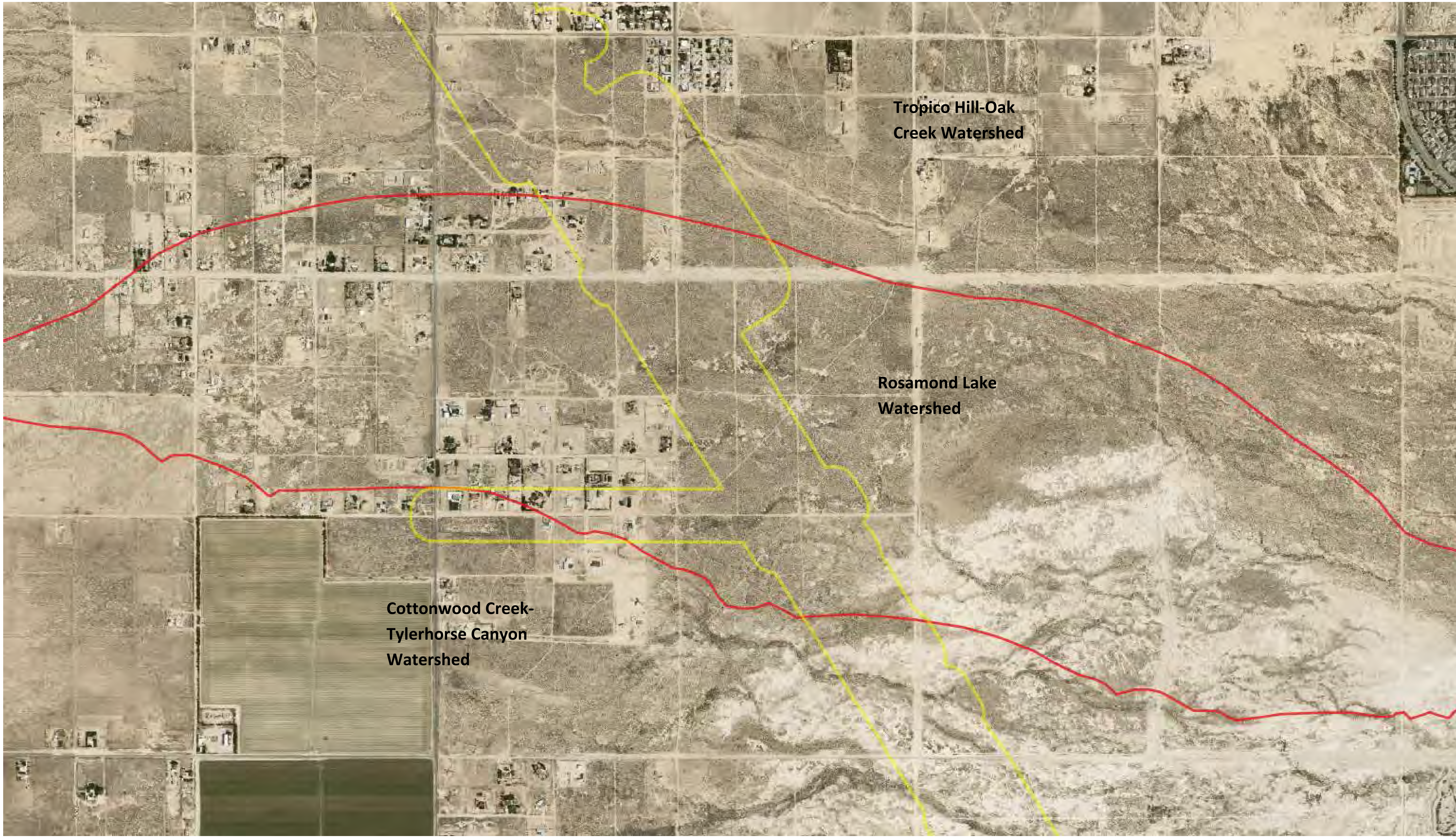


The U.S. Army Corps of Engineers issued a SWANCC watershed-level Approved Jurisdictional Determination for Antelope Valley (HUC 10 #s 1809020609 through 1809020624) on June 7, 2013. Note that this determination specifically excluded the areas of Lake Palmdale and all waters tributary to Lake Palmdale (portions of HUC 12 #s 180902061501, 180902061102, 180902061103). This figure illustrates the location of the study area relative to the previous watershed-level decision.

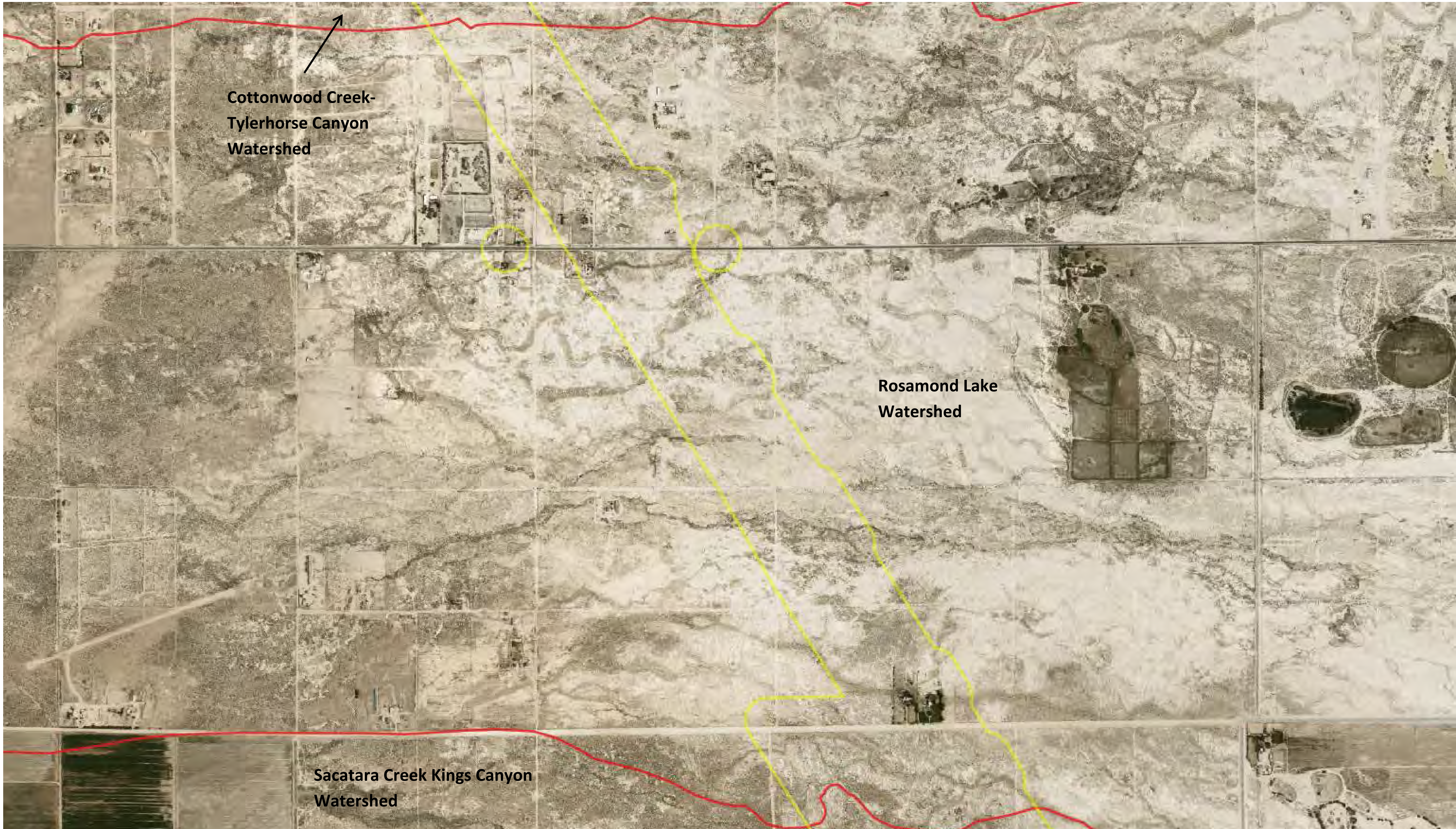
Rosamond Lake Watershed
Location Within Antelope Valley Watershed



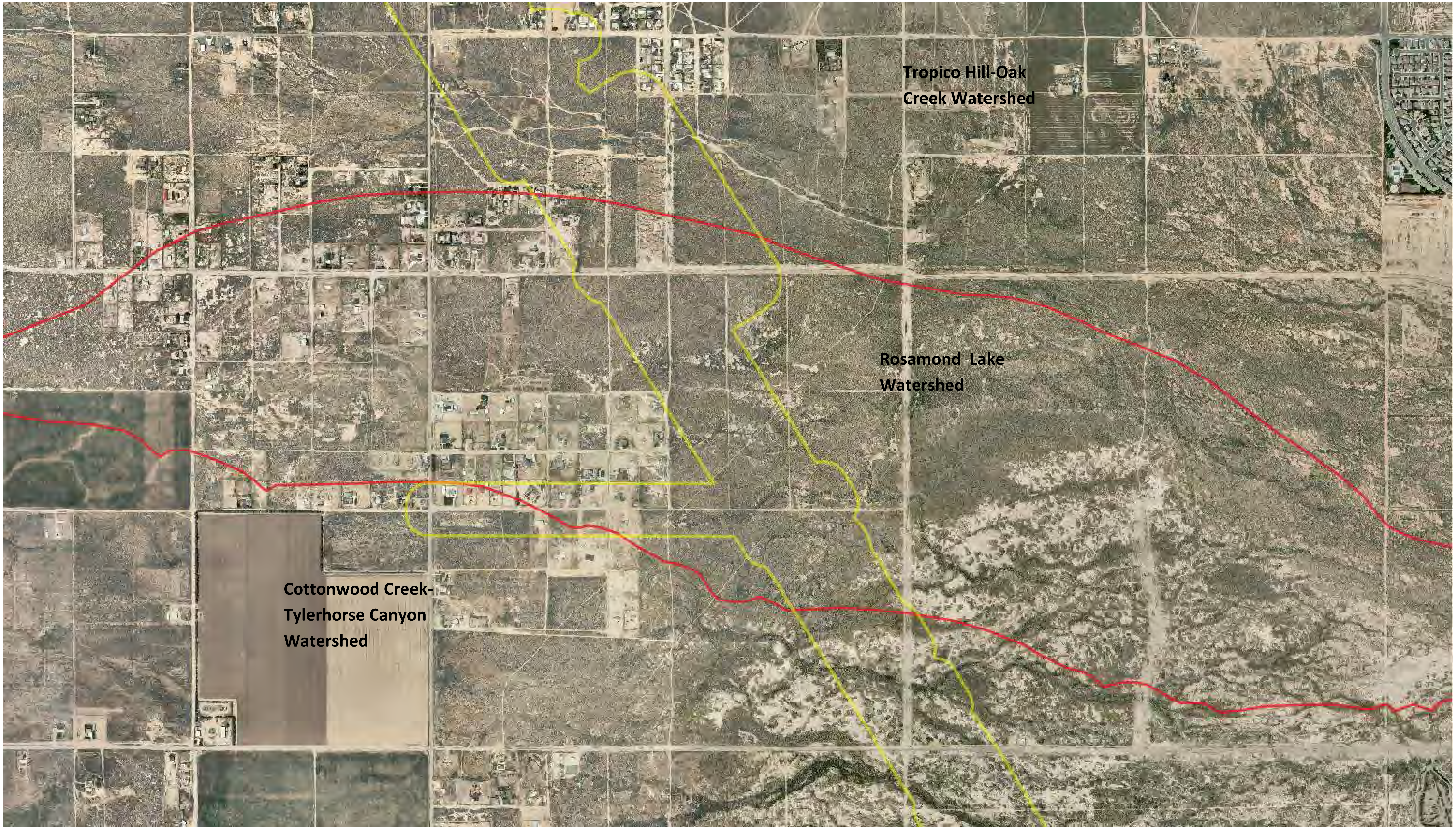
Kern County 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



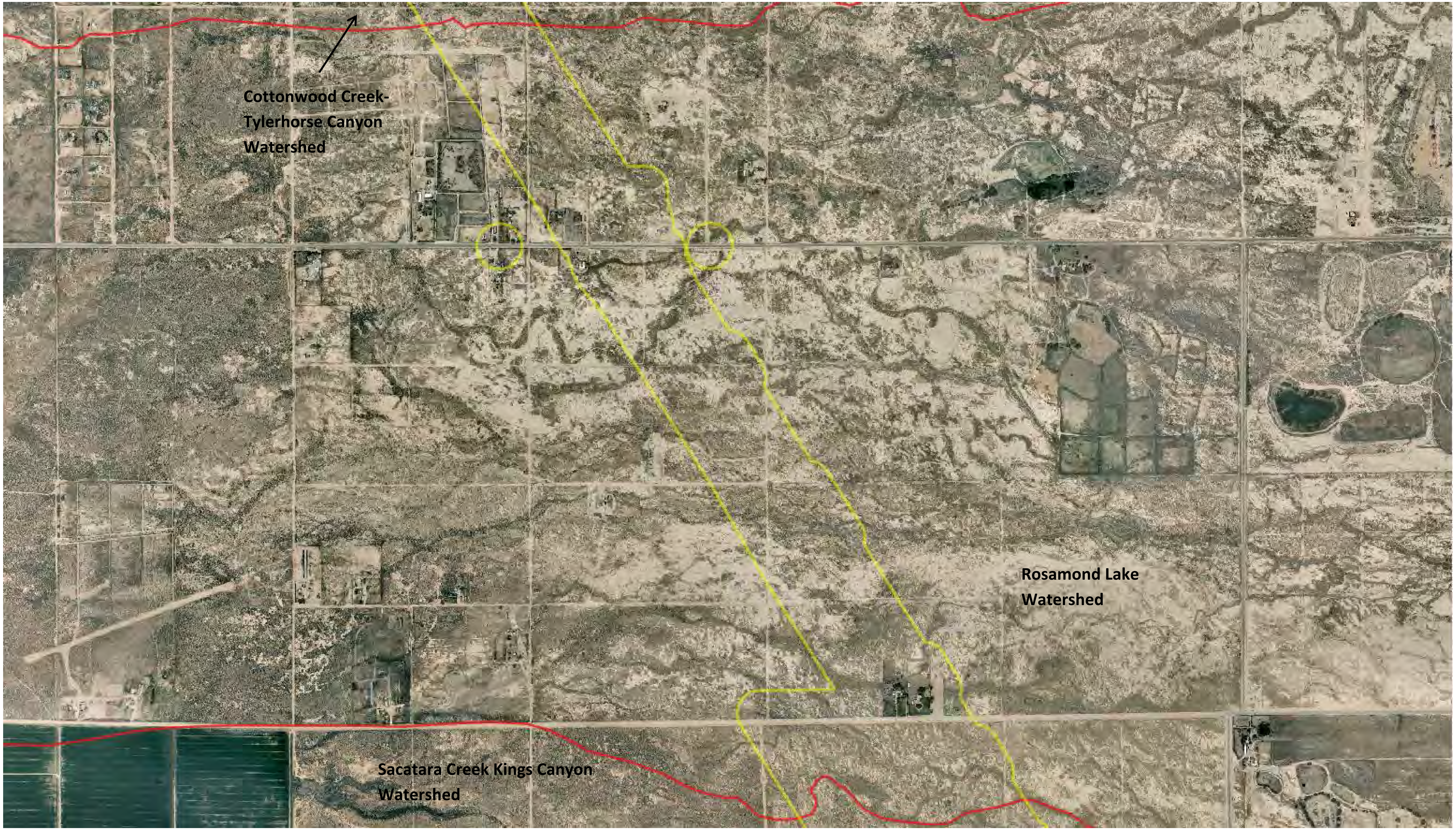
Kern County 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



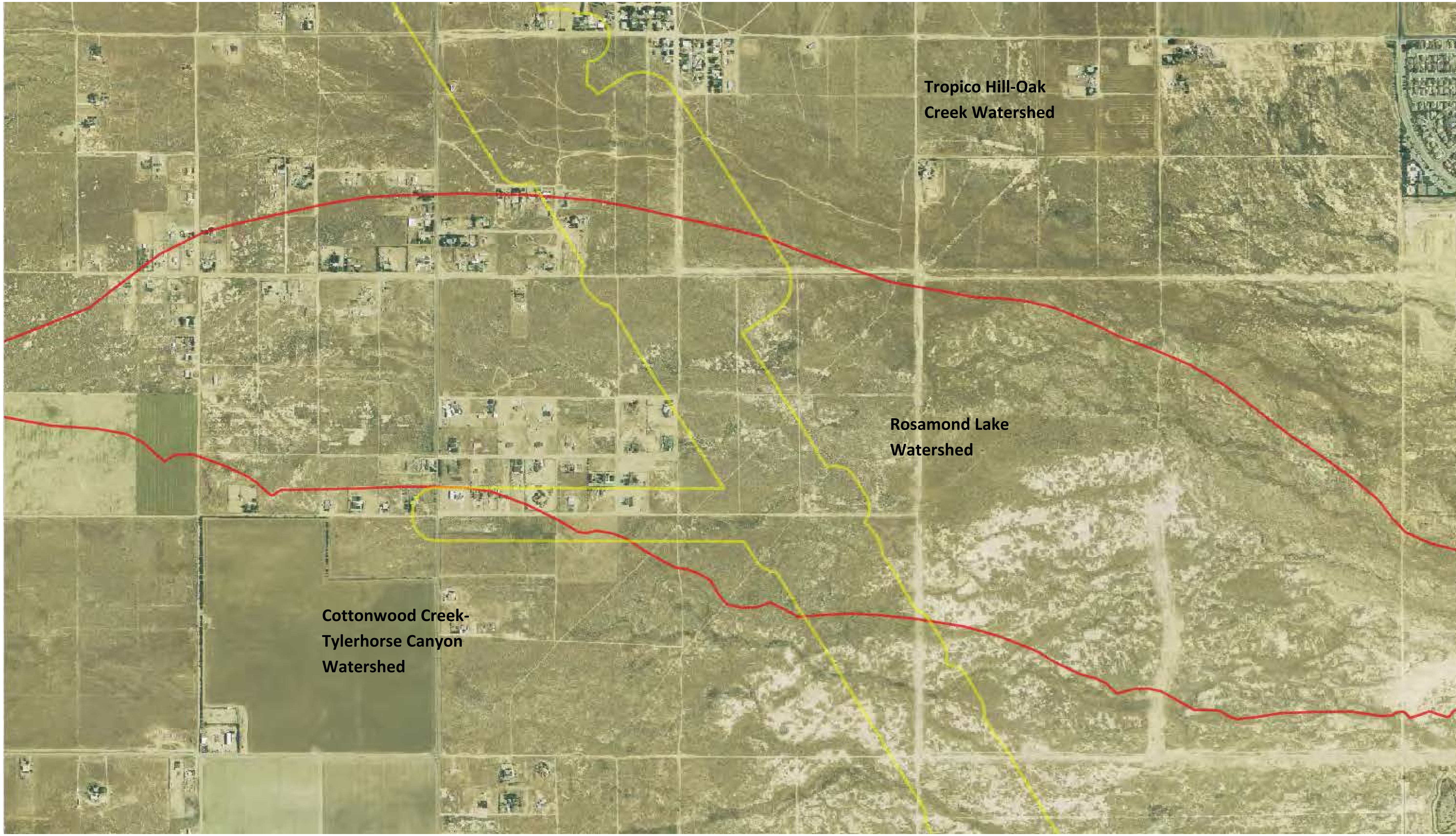
Kern County 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



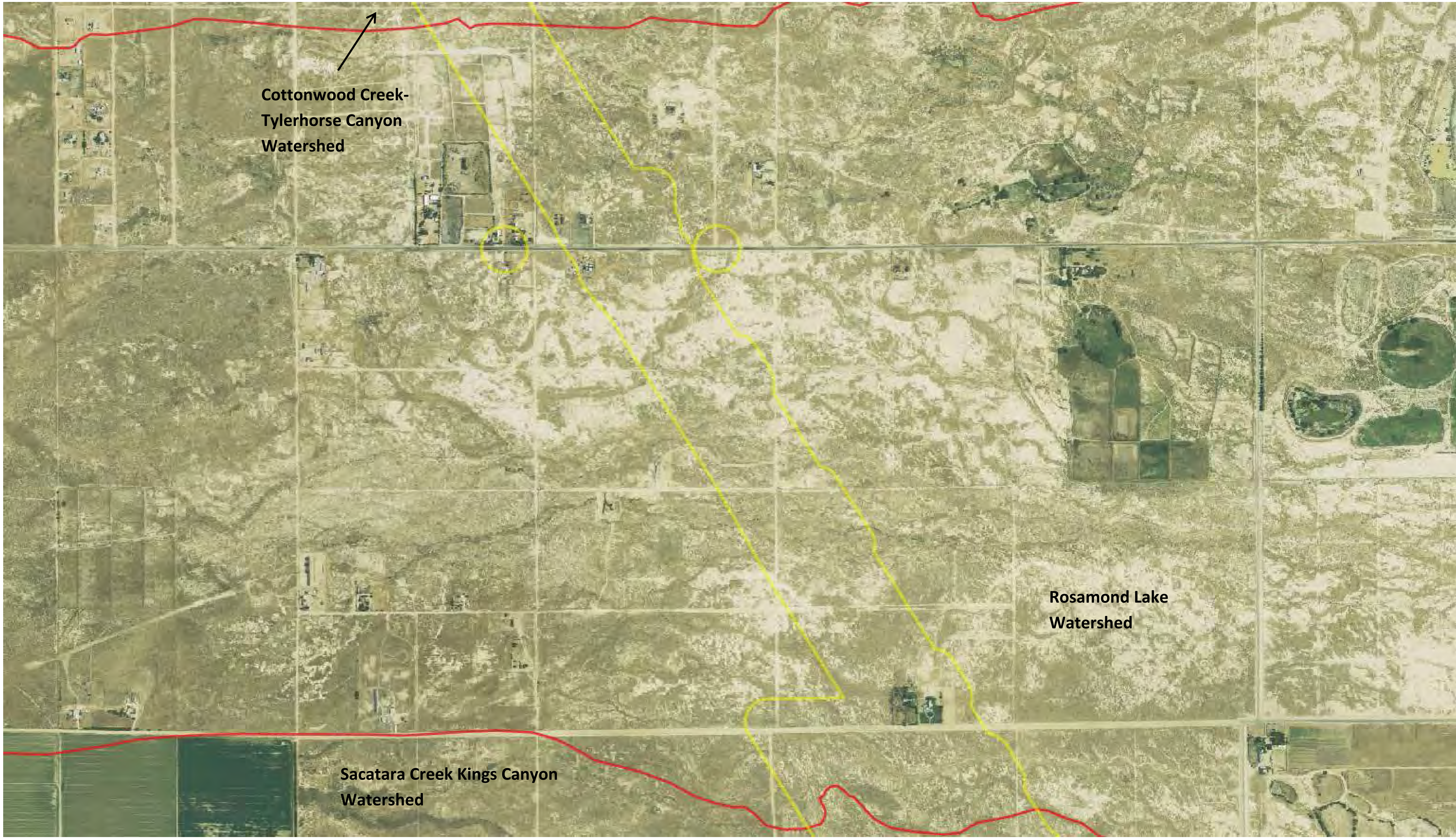
Kern County 2010 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



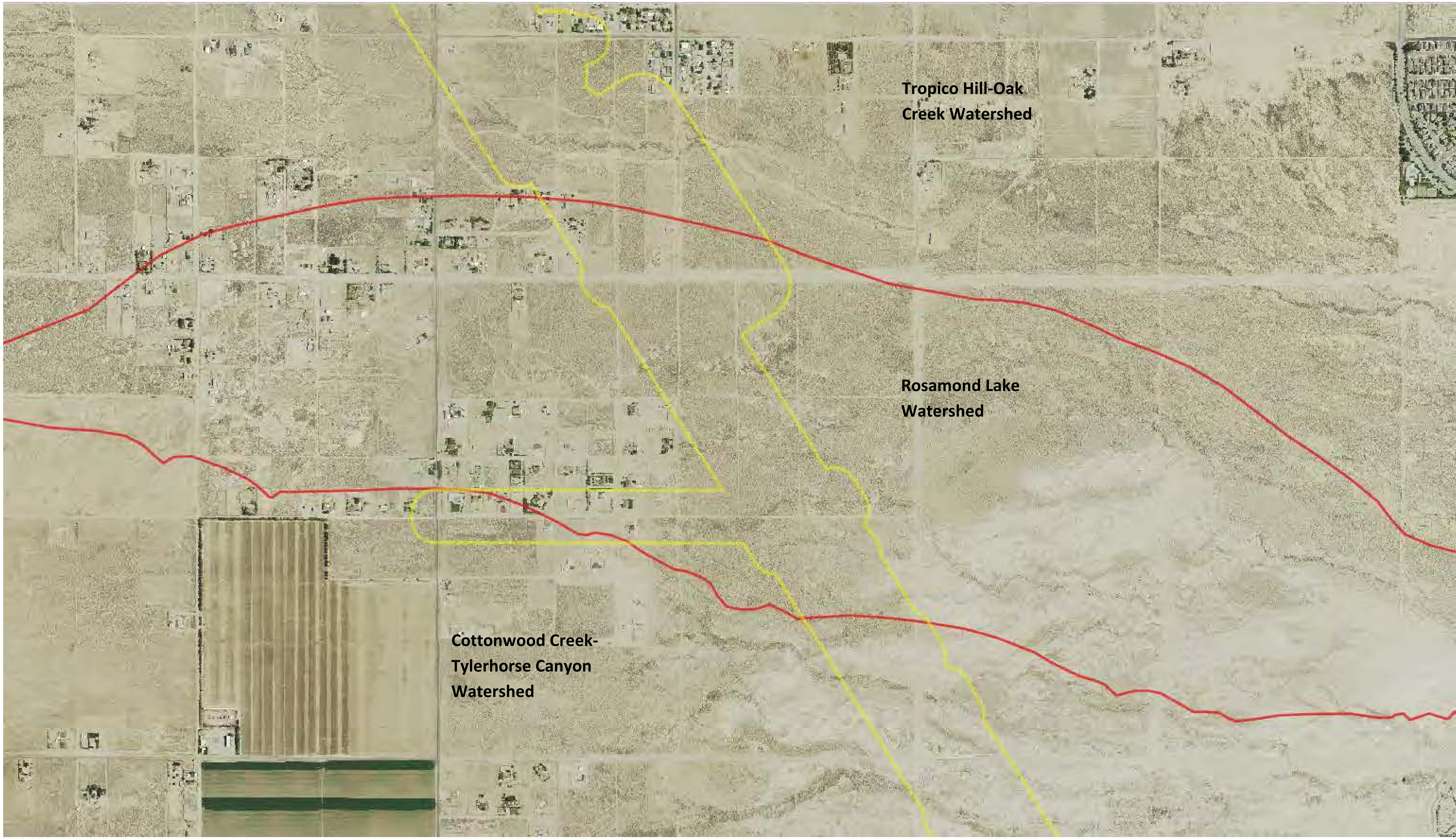
Kern County 2010 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



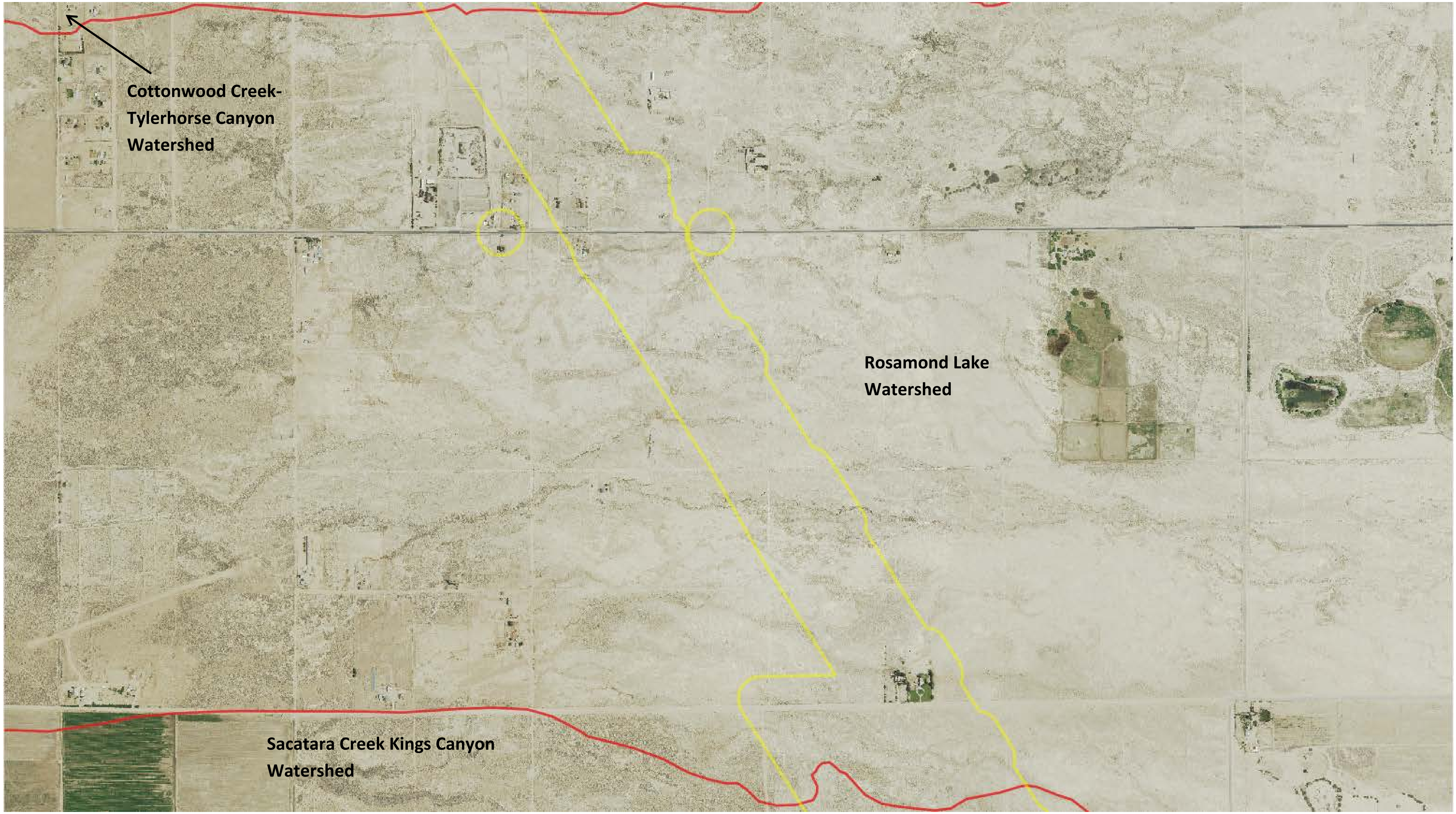
NAIP 2005 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



NAIP 2005 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



NAIP 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



NAIP 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.

Aerial Sources: http://maps.co.kern.ca.us/arcgis/services/ and http://gis.apfo.usda.gov/arcgis/services/NAIP/

Retrieved November 14, 2016.

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

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

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): August 3, 2017

B. DISTRICT OFFICE, FILE NAME, AND NUMBER:SPL-2010-00945-JD5

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: CA County/parish/borough: Kern and Los Angeles City: N/A
Center coordinates of site (lat/long in degree decimal format): Lat. 34.83166° **N**, Long. 118.21721° **W**.
Universal Transverse Mercator: 388699 m E, 3855050 m N
Name of nearest waterbody: Rosamond Lake
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A
Name of watershed or Hydrologic Unit Code (HUC): Cottonwood Creek- Tylerhorse Canyon, California 1809020618
☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☒ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form.

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

☒ Office (Desk) Determination. Date: July 25, 2017
☐ Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]

☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are no** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
      ☐ TNWs, including territorial seas
      ☐ Wetlands adjacent to TNWs
      ☐ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
      ☐ Non-RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      ☐ Impoundments of jurisdictional waters
      ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
      Non-wetland waters: linear feet: width (ft) and/or acres.
      Wetlands: acres.

   c. **Limits (boundaries) of jurisdiction** based on: **Not Applicable.**
      Elevation of established OHWM (if known): .

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

Within the Cottonwood Creek-Tylerhorse Canyon HUC 10, the project area contains 57 aquatic features. These features include eight unnamed ephemeral desert wash stream features, 48 claypan features, and one ponded area. Ephemeral desert wash streams span a total of approximately 6,958 linear feet (1.31 miles) and cover approximately 0.52 acre; claypan features cover approximately 1.60 acres; and one ponded area occupies 8 square feet. Labeled maps and tables of features and dimensions are

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[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

provided in the Aquatic Resources Delineation Report, which identifies each feature according to which HUC-10 watershed it occurs within.

The unnamed ephemeral desert washes, features Str_0340 through Str-0346 and Str_0348, generally flow east within the study area and continue to flow generally east outside the study area toward Rosamond Dry Lake. Most of the ephemeral desert wash features dissipate and do not have defined channels that can be traced all the way down to the terminal point in the watershed. These features are similar to many other streams in the Antelope Valley Watershed that have well-defined channels where they originate in the mountains and foothills, but dissipate on the valley floor, where water movement during storms is primarily sheet flow.

Ephemeral claypan features, CP_1078 through CP_1110, CP-1112 through 114, CP_1118, CP_1130, and CP_1136, are scattered throughout the study area due to the relatively flat topography. Note that some features have multiple segments and are labeled as such in attached tables (e.g. CP_1095-001, CP_1095-002, etc.). These low-lying depressional features are ephemeral or intermittent, and typically hold water for a few weeks annually. One area of ponding, feature PD_1103, holds water for at least fourteen days after storms, was also identified in the study area. This aquatic feature generally holds water for a few weeks similar to claypans.

All aquatic features within the study area are ephemeral and are not used for commerce. The hydrologic connection to the low point in the Antelope Valley watershed, Rogers, Rosamond, and Buckhorn Dry Lakes, is primarily through sheet flow during storms. A review of topographic maps and watershed boundary datasets indicates that waters from the study area drain toward Rosamond Dry Lake.

There are no Traditional Navigable Waters (TNWs) or Relatively Permanent Waters (RPWs) in the study area, and the ephemeral desert streams in the study area are not tributaries to RPWs or TNWs. A previous SWANCC watershed-level Approved JD for Antelope Valley (HUC10 #s 1809020609 through 1809020624, excluding those portions of HUC12s 18090206151, 1901902061102, and 180902061103 that drain toward Lake Palmdale and its tributaries) determined that Rosamond, Buckhorn, and Rogers Dry Lakes, and their tributaries, (i.e. the Antelope Valley Watershed, excluding Lake Palmdale and tributaries to Lake Palmdale) are non-jurisdictional waters of the United States under SWANCC. This determination, SPL-2011-01084-SLP, dated June 7, 2013, found that these Antelope Valley waters are not tributary to either a TNW or an (a)(3) water and Rosamond, Buckhorn, and Rogers Dry Lakes are not (a)(3) waters themselves. The Corps made this watershed conclusion because the Antelope Valley watershed is an isolated, intrastate watershed without any surface water related interstate commerce. This previous determination is still in effect, and is appended as a supporting document for this determination.

Previously approved jurisdictional determinations have been made for tributaries to these dry lakes. When these lakes were analyzed in SPL-2011-01084-SLP, the Corps found no published commercial uses of the surface waters of any tributaries to Rosamond, Buckhorn and Rogers Dry Lakes, and determined that a review of aerial photographs (Google Earth) also did not depict surface water usage of any drainages tributary to the dry lakes. The Corps found that all tributaries to Rosamond, Buckhorn and Rogers Dry Lakes are not (a)(3) waters as defined by 33 C.F.R. section 328.3(a)(3)(i-iii). The previous determination found that since Rosamond, Buckhorn, and Rogers Dry Lakes are intrastate, isolated waters without a surface water connection to commerce, all tributaries to Rosamond, Buckhorn, and Rogers Dry Lakes as part of the overall watershed system are also isolated and additionally have no nexus to commerce. A review of current conditions and updated literature review found that conditions have not changed since the SPL-2011-01084-SLP determination for Antelope Valley. Thus, the eight unnamed ephemeral desert wash stream features, 48 claypan features, and one feature formed through ponding in desert developed areas in this study area are intrastate, isolated waters with no interstate or foreign commerce connection and therefore are not currently regulated.

The above is based upon the review of aerial photographs (Google Earth, accessed July 25, 2017) that also did not show surface water usage of the project drainages or the Rosamond Dry Lake terminus. Since the Rosamond Dry Lake is an intrastate, isolated water without a surface water connection to commerce (see prior AJD file No. SPL-2011-01084-SLP), the subject 33 unnamed ephemeral desert stream features, 325 claypan features, and 17 ponded features , as part of the same overall system, are also isolated and additionally have no nexus to commerce.

Based on the information above, the subject features: 8 unnamed ephemeral desert wash stream features, 48 claypan features, and one ponded area, are NONJURISDICTIONAL waters of the United States, since the waters are NOT tributary to either a TNW or an (a)(3) water and are NOT (a)(3) waters themselves. The Corps makes such a conclusion since the waters are tribuatary to an isolated, intrastate dry lake.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW
Identify TNW: .

Summarize rationale supporting determination: .

2. Wetland adjacent to TNW
Summarize rationale supporting conclusion that wetland is "adjacent": .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

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

(ii) Physical Characteristics:
(a) Relationship with TNW:
☐ Tributary flows directly into TNW.
☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.
Project waters are **Pick List** river miles from RPW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Project waters are **Pick List** aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain: .

Identify flow route to TNW[5]: .
Tributary stream order, if known: .

[4] Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

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

Tributary is:
- ☐ Natural
- ☐ Artificial (man-made). Explain: .
- ☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):
Average width: feet
Average depth: feet
Average side slopes: **Pick List.**

Primary tributary substrate composition (check all that apply):

☐ Silts	☐ Sands	☐ Concrete
☐ Cobbles	☐ Gravel	☐ Muck
☐ Bedrock	☐ Vegetation. Type/% cover:	
☐ Other. Explain: .		

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .
Presence of run/riffle/pool complexes. Explain: .
Tributary geometry: **Pick List**
Tributary gradient (approximate average slope): %

(c) Flow:
Tributary provides for: **Pick List**
Estimate average number of flow events in review area/year: **Pick List**
Describe flow regime: .
Other information on duration and volume: .

Surface flow is: **Pick List.** Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .
☐ Dye (or other) test performed: .

Tributary has (check all that apply):
- ☐ Bed and banks
- ☐ OHWM[6] (check all indicators that apply):
  - ☐ clear, natural line impressed on the bank
  - ☐ changes in the character of soil
  - ☐ shelving
  - ☐ vegetation matted down, bent, or absent
  - ☐ leaf litter disturbed or washed away
  - ☐ sediment deposition
  - ☐ water staining
  - ☐ other (list):
  - ☐ the presence of litter and debris
  - ☐ destruction of terrestrial vegetation
  - ☐ the presence of wrack line
  - ☐ sediment sorting
  - ☐ scour
  - ☐ multiple observed or predicted flow events
  - ☐ abrupt change in plant community
- ☐ Discontinuous OHWM.[7] Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):
- ☐ High Tide Line indicated by:
  - ☐ oil or scum line along shore objects
  - ☐ fine shell or debris deposits (foreshore)
  - ☐ physical markings/characteristics
  - ☐ tidal gauges
  - ☐ other (list):
- ☐ Mean High Water Mark indicated by:
  - ☐ survey to available datum;
  - ☐ physical markings;
  - ☐ vegetation lines/changes in vegetation types.

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Explain: .
Identify specific pollutants, if known: .

[6]A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
[7]Ibid.

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

- ☐ Riparian corridor. Characteristics (type, average width): .
- ☐ Wetland fringe. Characteristics: .
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

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

(i) Physical Characteristics:

(a) General Wetland Characteristics:

Properties:

Wetland size: acres

Wetland type. Explain: .

Wetland quality. Explain: .

Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:

Flow is: **Pick List**. Explain: .

Surface flow is**: Pick List**

Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .

- ☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

- ☐ Directly abutting
- ☐ Not directly abutting
  - ☐ Discrete wetland hydrologic connection. Explain: .
  - ☐ Ecological connection. Explain: .
  - ☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW

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

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

Flow is from: **Pick List.**

Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .

Identify specific pollutants, if known: .

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

- ☐ Riparian buffer. Characteristics (type, average width): .
- ☐ Vegetation type/percent cover. Explain: .
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List**

Approximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   - ☐ TNWs: linear feet width (ft), Or, acres.
   - ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   - ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
   - ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

3. **Non-RPWs[8] that flow directly or indirectly into TNWs.**
☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: **.**

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**
☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **.**

☐ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**
☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**
☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.[9]**
As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
☐ Demonstrate that impoundment was created from "waters of the U.S.," or
☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]
☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
☐ which are or could be used for industrial purposes by industries in interstate commerce.
☐ Interstate isolated waters. Explain: .
☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

---

[8]See Footnote # 3.
[9] To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
[10] Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.*

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☒ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☒ Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
☐ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: .
☐ Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
☒ Non-wetland waters (i.e., rivers, streams): **6958** linear feet **averaging 3 to 11 feet in** width (ft).
☐ Lakes/ponds: acres.
☒ Other non-wetland waters: 1.60 acres. List type of aquatic resource: Claypans (1.6 acres) and other ponded areas (8 sq ft).
☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

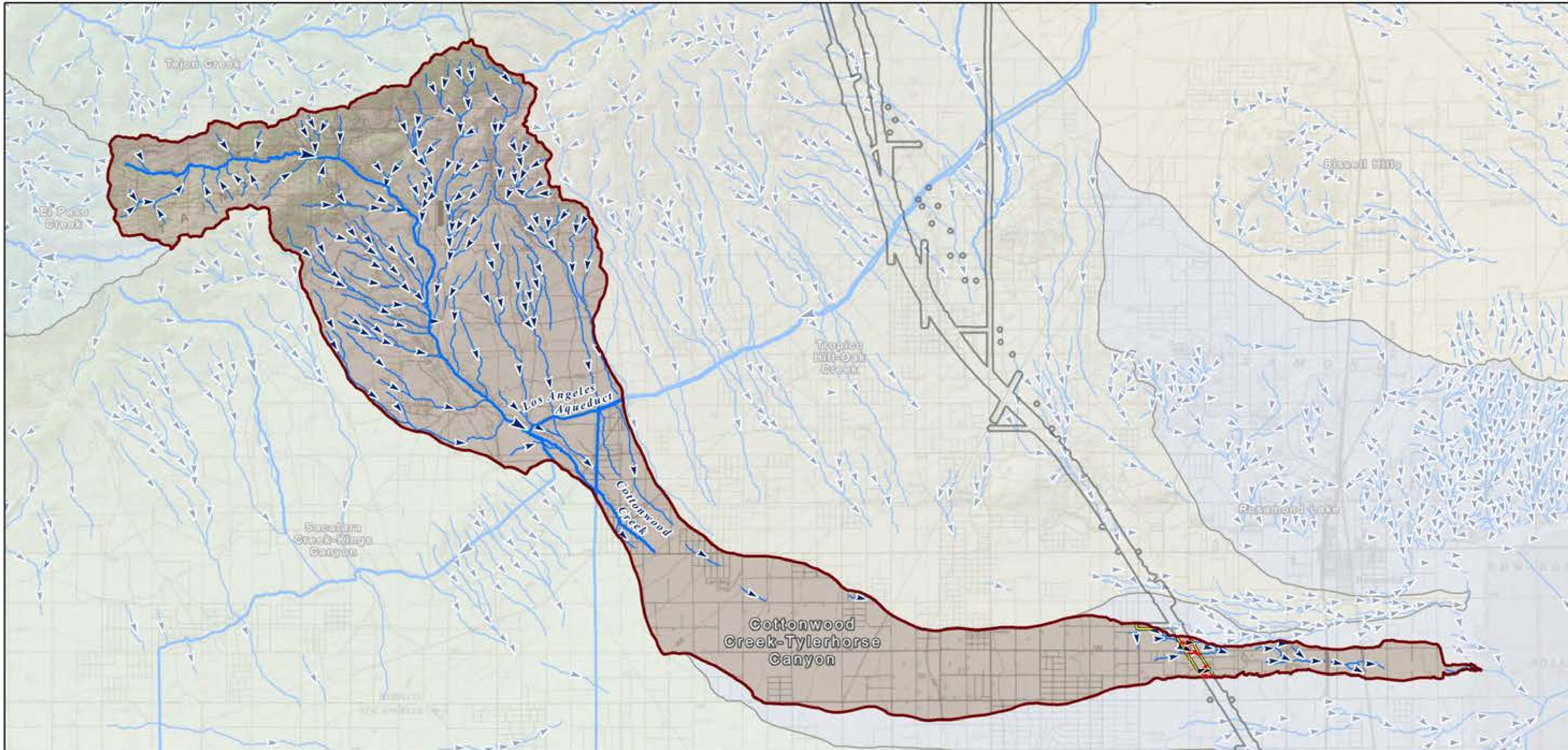
SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Features are depicted on Map Sheets 133-135 in Appendix E of the submitted delineation..
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps: .
☐ Corps navigable waters' study: .
☒ U.S. Geological Survey Hydrologic Atlas:(see enclosed map package for NHD flowline and watershed boundary data).
☒ USGS NHD data.
☒ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: Rosamond 7.5 minute quadrangle (See enclosed map package).
☐ USDA Natural Resources Conservation Service Soil Survey. Citation: .
☐ National wetlands inventory map(s). Cite name: .
☐ State/Local wetland inventory map(s): .
☐ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date): NAIP Imagery 2005 and 2014 at 1-m resolution; Kern County Imagery 2008 and 2015 at 1-foot resolution; Los Angeles County 2011 and 2013 at a 1-foot resolution.
or ☐ Other (Name & Date): .
☒ Previous determination(s). File no. and date of response letter: SPL-2011-01084-SLP, June 7, 2013.
☐ Applicable/supporting case law: .
☐ Applicable/supporting scientific literature: .
☒ Other information (please specify):Aquatic Resources Delineation Report prepared by the applicant/consultant references additional materials; also Appendix E contains map sheets; Appendix F contains dimensions. HUC watershed maps of review areas with NHD Data provided by the applicant/consultant; general use of NAIP Imagery 2009, 2010, and 2012 at 1-m resolution; LA County Imagery 2012 and 2014 at a 1-foot resolution; 2015 Site specific IR Imagery, 3-inch color pixel; Bing Aerial Imagery - multiple years

(scale dependent); ESRI World Imagery (streaming service) multiple years (scale dependent); Google Earth Historic Photos (used for reference and includes portions from above listed sources).

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Waters_Name	Cowardin_Code	HGM_Code	Amount	Units	Waters_Type	Latitude	Longitude
Str_0340	R6	RIVERINE	0.1	ACRE	ISOLATE	34.83676	-118.220615
Str_0341	R6	RIVERINE	0.03	ACRE	ISOLATE	34.83775	-118.219569
Str_0342	R6	RIVERINE	0.07	ACRE	ISOLATE	34.83529	-118.220422
Str_0343	R6	RIVERINE	0.07	ACRE	ISOLATE	34.83436	-118.218316
Str_0344	R6	RIVERINE	0.06	ACRE	ISOLATE	34.82896	-118.214727
Str_0345	R6	RIVERINE	0.14	ACRE	ISOLATE	34.8286	-118.212903
Str_0346b	R6	RIVERINE	0.03	ACRE	ISOLATE	34.82733	-118.2140673
Str_0346d	R6	RIVERINE	0.002	ACRE	ISOLATE	34.82702	-118.2130697
Str_0346f	R6	RIVERINE	0.003	ACRE	ISOLATE	34.82701	-118.2127448
Str_0348	R6	RIVERINE	0.01	ACRE	ISOLATE	34.82731	-118.211299
CP_1078	PUB	DEPRESS	849	SQ_FT	ISOLATE	34.83765	-118.223017
CP_1079	PUB	DEPRESS	2242	SQ_FT	ISOLATE	34.83797	-118.221775
CP_1080	PUB	DEPRESS	219	SQ_FT	ISOLATE	34.83785	-118.220491
CP_1081-001	PUB	DEPRESS	678	SQ_FT	ISOLATE	34.83662	-118.220235
CP_1081-002	PUB	DEPRESS	1209	SQ_FT	ISOLATE	34.83662	-118.220235
CP_1082	PUB	DEPRESS	640	SQ_FT	ISOLATE	34.8375	-118.220189
CP_108 3	PUB	DEPRESS	31	SQ_FT	ISOLATE	34.83654	-118.220149
CP_1084-001	PUB	DEPRESS	263	SQ_FT	ISOLATE	34.83657	-118.220076
CP_1084-002	PUB	DEPRESS	362	SQ_FT	ISOLATE	34.83657	-118.220076
CP_1085	PUB	DEPRESS	1977	SQ_FT	ISOLATE	34.83758	-118.219374
CP_1086	PUB	DEPRESS	109	SQ_FT	ISOLATE	34.83475	-118.220989
CP_1087-001	PUB	DEPRESS	8	SQ_FT	ISOLATE	34.83529	-118.220713
CP_1087-002	PUB	DEPRESS	2045	SQ_FT	ISOLATE	34.83529	-118.220713
CP_1087-003	PUB	DEPRESS	1635	SQ_FT	ISOLATE	34.83529	-118.220713
CP_1088	PUB	DEPRESS	466	SQ_FT	ISOLATE	34.83456	-118.220533
CP_1089-001	PUB	DEPRESS	1879	SQ_FT	ISOLATE	34.83402	-118.220339
CP_1089-002	PUB	DEPRESS	2173	SQ_FT	ISOLATE	34.83402	-118.220339
CP_1090	PUB	DEPRESS	28	SQ_FT	ISOLATE	34.83451	-118.220247
CP_1091	PUB	DEPRESS	533	SQ_FT	ISOLATE	34.83352	-118.220214
CP_1092-001	PUB	DEPRESS	414	SQ_FT	ISOLATE	34.83534	-118.220169
CP_1092-002	PUB	DEPRESS	96	SQ_FT	ISOLATE	34.83534	-118.220169
CP_1092-003	PUB	DEPRESS	1279	SQ_FT	ISOLATE	34.83534	-118.220169
CP_1093	PUB	DEPRESS	938	SQ_FT	ISOLATE	34.83468	-118.220085
CP_1094	PUB	DEPRESS	5495	SQ_FT	ISOLATE	34.83254	-118.219582
CP_1095-001	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.83488	-118.219318
CP_1095-002	PUB	DEPRESS	29315	SQ_FT	ISOLATE	34.83488	-118.219318
CP_1096	PUB	DEPRESS	195	SQ_FT	ISOLATE	34.83237	-118.219267
CP_1097	PUB	DEPRESS	35	SQ_FT	ISOLATE	34.83459	-118.219256
CP_1098	PUB	DEPRESS	57	SQ_FT	ISOLATE	34.83459	-118.21912
CP_1099	PUB	DEPRESS	1242	SQ_FT	ISOLATE	34.8326	-118.218335
CP_1100-001	PUB	DEPRESS	10	SQ_FT	ISOLATE	34.83468	-118.218293
CP_1100-002	PUB	DEPRESS	715	SQ_FT	ISOLATE	34.83468	-118.218293
CP_1101	PUB	DEPRESS	138	SQ_FT	ISOLATE	34.83242	-118.218245
CP_1102	PUB	DEPRESS	1736	SQ_FT	ISOLATE	34.83481	-118.218238
PD_1103	PUB	DEPRESS	8	SQ_FT	ISOLATE	34.83079	-118.218211
CP_1104	PUB	DEPRESS	206	SQ_FT	ISOLATE	34.83156	-118.217122
CP_1105	PUB	DEPRESS	340	SQ_FT	ISOLATE	34.83485	-118.217033
CP_1106	PUB	DEPRESS	449	SQ_FT	ISOLATE	34.83091	-118.21678
CP_1107	PUB	DEPRESS	752	SQ_FT	ISOLATE	34.83068	-118.213893
CP_1108	PUB	DEPRESS	351	SQ_FT	ISOLATE	34.83031	-118.21778
CP_1109	PUB	DEPRESS	7010	SQ_FT	ISOLATE	34.83021	-118.217256
CP_1110	PUB	DEPRESS	68	SQ_FT	ISOLATE	34.82921	-118.214855
CP_1112-001	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.82715	-118.214573
CP_1112-002	PUB	DEPRESS	63	SQ_FT	ISOLATE	34.82715	-118.214573
CP_1113	PUB	DEPRESS	341	SQ_FT	ISOLATE	34.82917	-118.214026
CP_1114	PUB	DEPRESS	552	SQ_FT	ISOLATE	34.82845	-118.213755
CP_1118	PUB	DEPRESS	185	SQ_FT	ISOLATE	34.82828	-118.213045
CP_1130	PUB	DEPRESS	68	SQ_FT	ISOLATE	34.82785	-118.212047
CP_1136	PUB	DEPRESS	359	SQ_FT	ISOLATE	34.82724	-118.211456.



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 14, 2016

BP HSR Mapped Streams with OHWM in Cottonwood Creek-Tylerhorse Canyon Study Area

Ephemeral Stream

Study Area in the Cottonwood Creek-Tylerhorse Canyon Watershed

Cottonwood Creek-Tylerhorse Canyon Watershed HUC-10

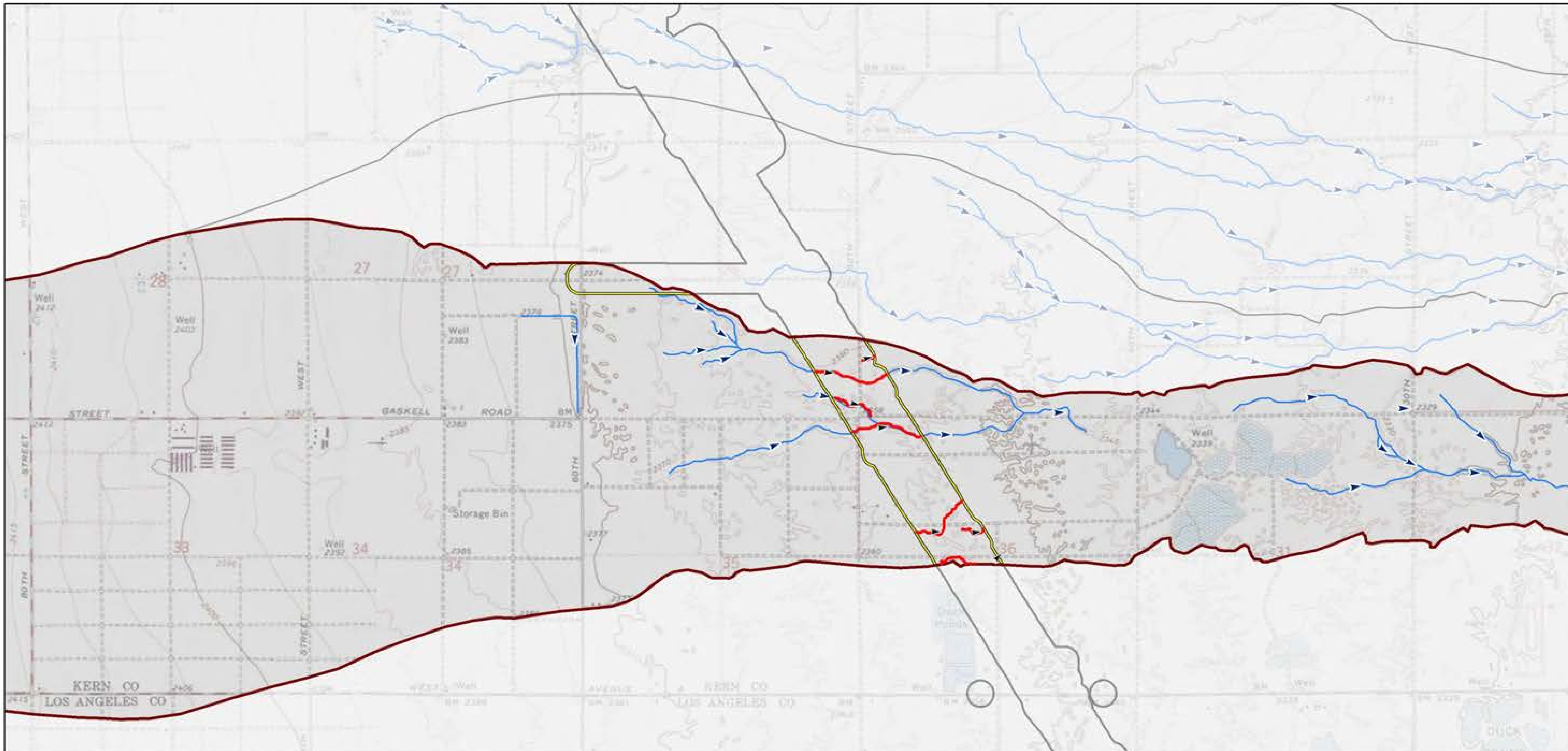
Other HUC-10 Watersheds

Wetlands Study Area (Project Footprint + 250 ft Buffer)

Direction of flow based on NHD flowlines

0 1.5 3 Miles
0 2.5 5 Kilometers

Cottonwood Creek - Tylerhorse Canyon Watershed Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 14, 2016

0 0.25 0.5 Miles
0 0.4 0.8 Kilometers

BP HSR Mapped Streams with OHWM in Cottonwood Creek-Tylerhorse Canyon Study Area

Ephemeral Stream

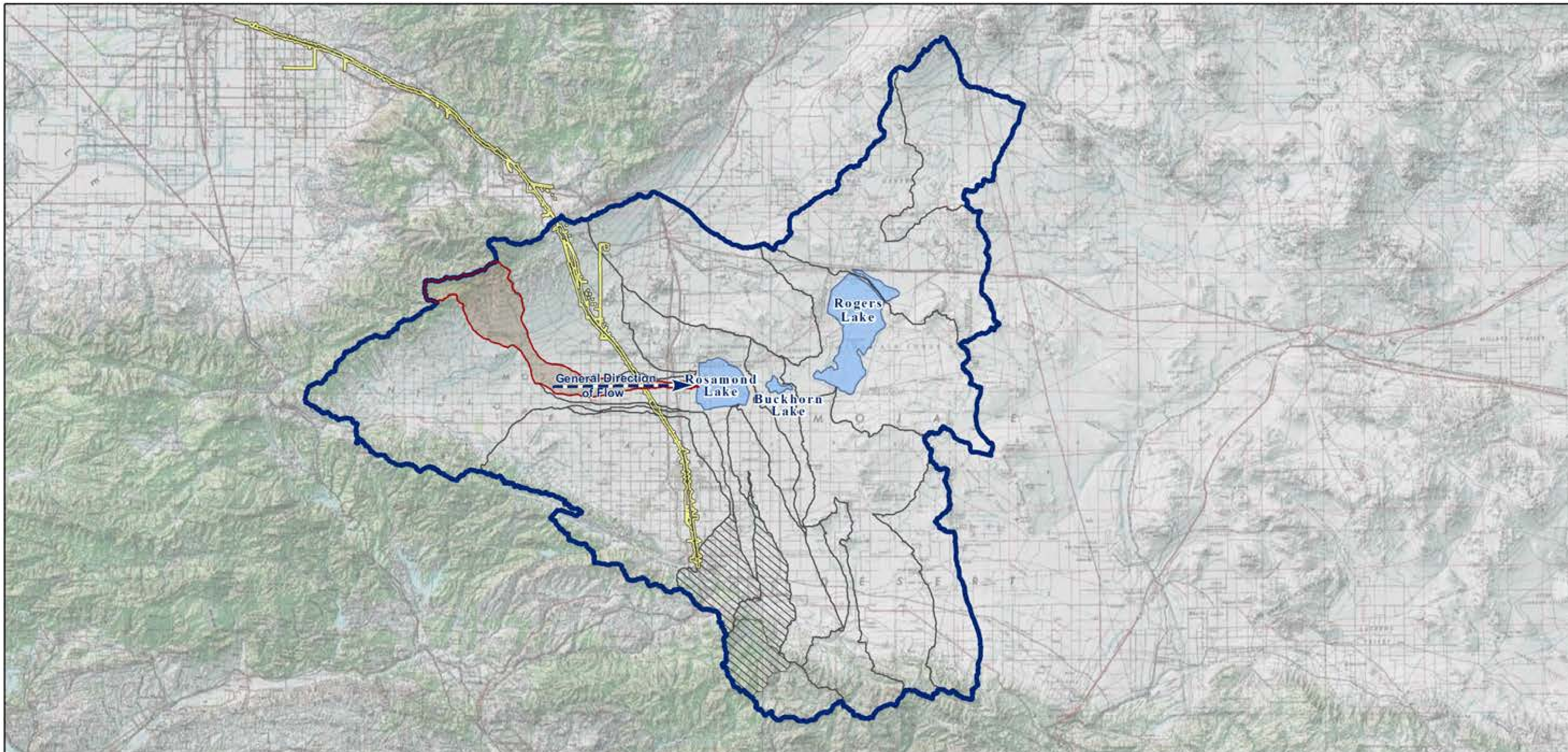
Study Area in the Cottonwood Creek-Tylerhorse Canyon Watershed

Cottonwood Creek-Tylerhorse Canyon Watershed HUC-10

Wetlands Study Area (Project Footprint + 250 ft Buffer)

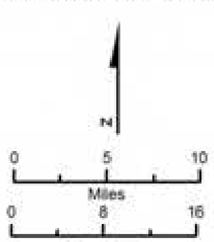
Direction of flow based on NHD flowlines

Cottonwood Creek - Tylerhorse Canyon Watershed Study Area Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

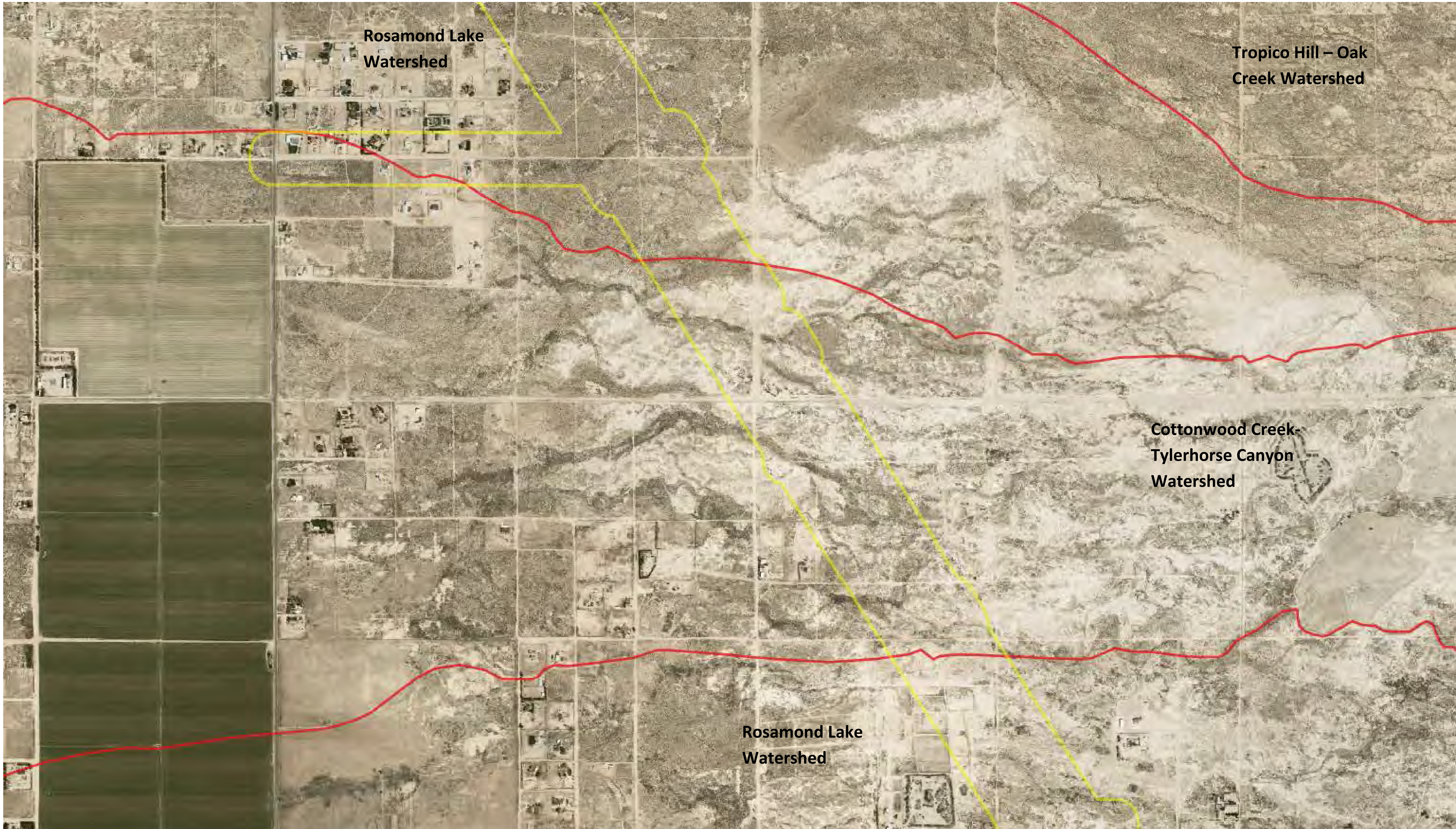
November 17, 2016



- Cottonwood Creek-Tylerhorse Canyon Watershed HUC-10
- Antelope Valley Watershed (as described in SPL-2011-01084-SLP)
- HUC-12 Watersheds excluded from SPL-2011-01084-SLP
- Wetlands Study Area (Project Footprint + 250 ft Buffer)

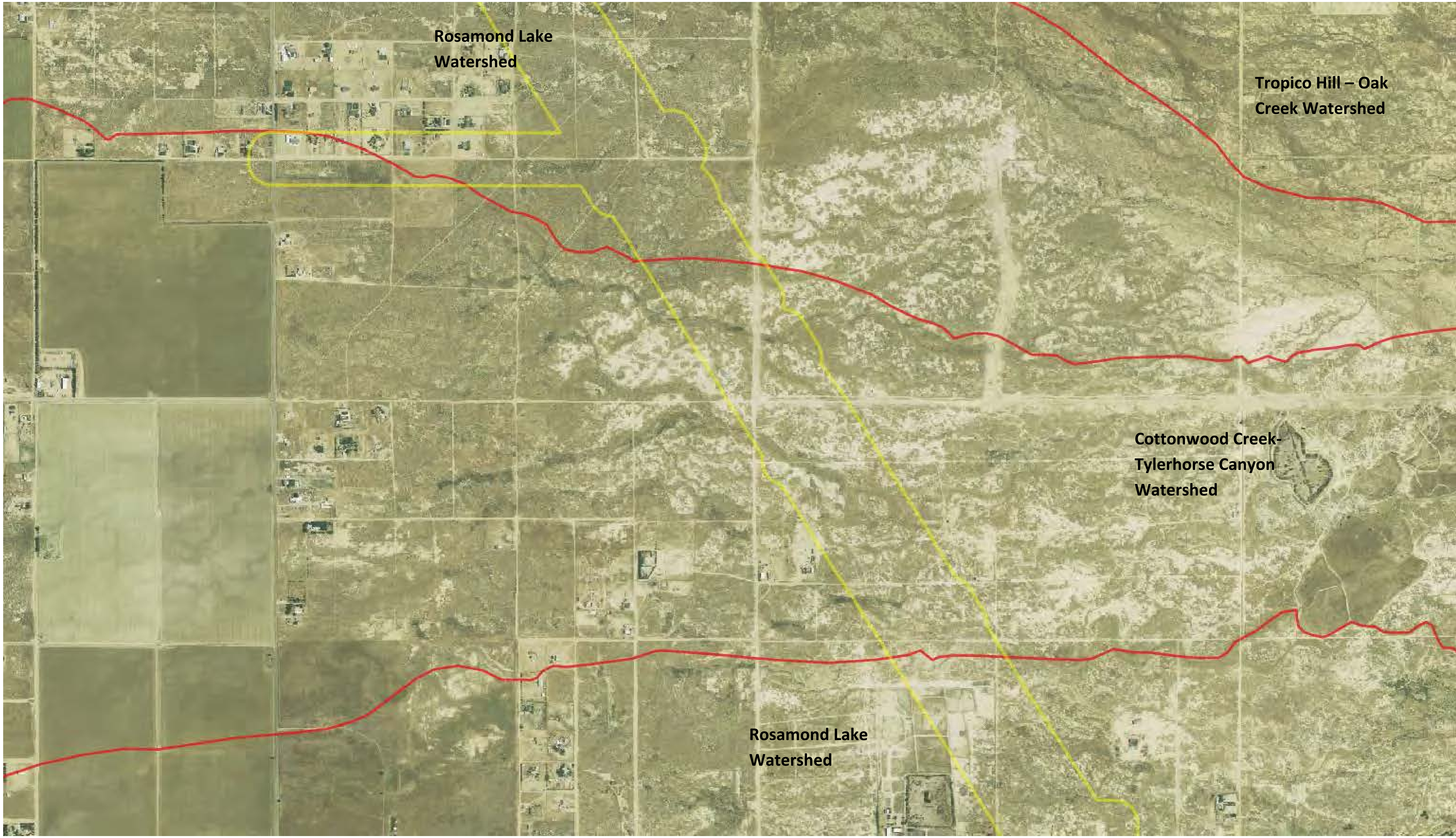
The U.S. Army Corps of Engineers issued a SWANCC watershed-level Approved Jurisdictional Determination for Antelope Valley (HUC 10 #s 1809020609 through 1809020624) on June 7, 2013. Note that this determination specifically excluded the areas of Lake Palmdale and all waters tributary to Lake Palmdale (portions of HUC 12 #s 180902061501, 180902061102, 180902061103). This figure illustrates the location of the study area relative to the previous watershed-level decision.

Cottonwood Creek - Tylerhorse Canyon Watershed Location Within Antelope Valley Watershed

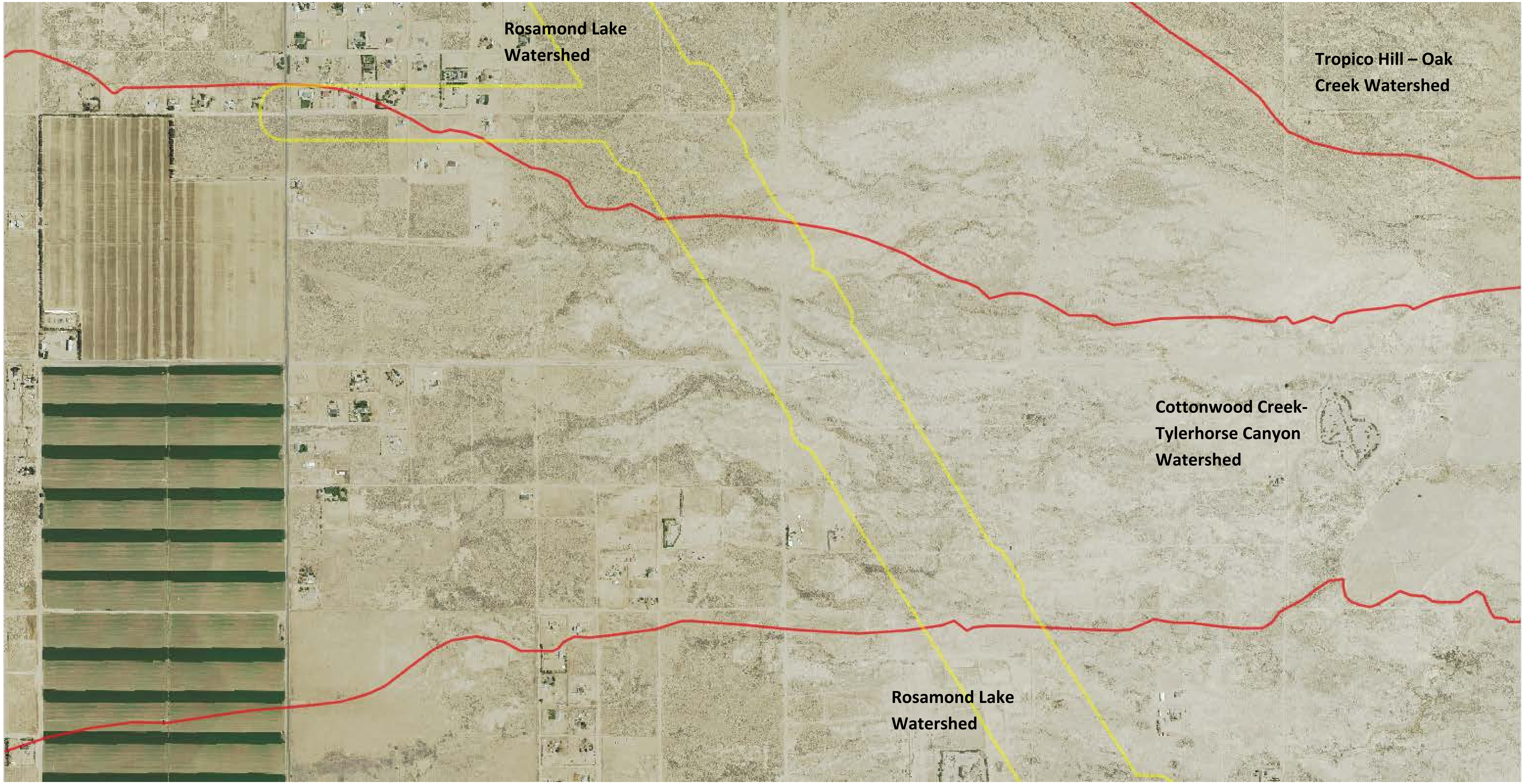


Kern County 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.

Kern County 2010 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



NAIP 2005 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



NAIP 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.

Aerial Sources: http://maps.co.kern.ca.us/arcgis/services/ and http://gis.apfo.usda.gov/arcgis/services/NAIP/

Retrieved November 14, 2016.

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

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

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): August 3, 2017

B. DISTRICT OFFICE, FILE NAME, AND NUMBER:SPL-2010-00945-VCL-JD-6

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: CA County/parish/borough: Los Angeles County City: N/A
Center coordinates of site (lat/long in degree decimal format): Lat. 34.79805° N, Long. 118.19372° W.
Universal Transverse Mercator: 390801 m E, 3851298 m N
Name of nearest waterbody: Sacatara Creek
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A
Name of watershed or Hydrologic Unit Code (HUC): Sacatara Creek- Kings Canyon, California, 1809020613

☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☒ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form.

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

☒ Office (Desk) Determination. Date: July 25, 2017
☐ Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]

☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are no** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
      ☐ TNWs, including territorial seas
      ☐ Wetlands adjacent to TNWs
      ☐ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
      ☐ Non-RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      ☐ Impoundments of jurisdictional waters
      ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
      Non-wetland waters: linear feet: width (ft) and/or acres.
      Wetlands: acres.

   c. **Limits (boundaries) of jurisdiction** based on: **Not Applicable.**
      Elevation of established OHWM (if known): .

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

Within the project area of the Sacatara Creek-Kings Canyon HUC 10, there are a total of 279 aquatic features. These features include 8 unnamed ephemeral desert wash stream features, 6 ephemeral ditches, and 265 claypan features. Ephemeral desert wash streams span a total of approximately 6,636 linear feet (1.26 miles) and cover approximately 0.56 acre; ephemeral ditches span approximately 1,053 linear feet (0.20 mile), and cover approximately 0.08 acre; and claypan features cover a total of

---

[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

approximately 1.03 acres. Labeled maps and tables of features and dimensions are provided in the Aquatic Resources Delineation Report, which identifies each feature according to which HUC-12 watershed it occurs within.

The unnamed ephemeral desert washes, features Str_0371, Str_0374, Str_0376 through Str_0378, and Str_381 through Str_382, generally flow east within the study area. Features Str_378, Str_381, and Str_382 flow east offsite toward Rosamond Dry Lake. The ephemeral ditches, features Ditch_379 and Str_380, are located along road shoulders and generally flow north-south along 30th Street West until reaching culverts where the water flows under the road, or or low points where the water flows across the road, rejoining natural aquatic features or sheet flow that convey the water farther east toward Rosamond Dry Lake. Note that features Str_0378 and Ditch_0379 have multiple segments and are labeled as such in attached tables (e.g. Ditch_0379-001, Ditch_0379-002, etc.). Most of the ephemeral desert wash and ditch features dissipate and do not have defined channels that can be traced all the way down to the terminal point in the watershed. These features are similar to many other streams in the Antelope Valley Watershed that have well-defined channels where they originate in the mountains and foothills, but dissipate on the valley floor, where water movement during storms is primarily sheet flow. Ephemeral and intermittent claypan features, CP_1303 through CP_1312, CP_1317 through CP_1320, CP_1324, CP_1326, CP_1327, CP_1329 through CP_1331, CP_1333, CP_1336, CP_1340, CP_1343 through CP_1344, CP_1347 through CP_1399, CP_1401 through CP_1425, CP_1427 through CP_1528, CP_3339, CP_3341 through CP_3343, CP_3345, and CP_3346, are scattered throughout the study area due to the relatively flat topography. These low-lying depressional features collect water, and when full, would overflow into surrounding areas, accumulating with sheet flow that generally moves very slowly toward Rosamond Dry Lake. Claypan aquatic resources are ephemeral or intermittent, and typically hold water for a few days to a few weeks annually. All aquatic features within the study area are emphmeral or intermittent and are not used for commerce.The hydrologic connection to the low point in the Antelope Valley watershed, Rogers, Rosamond, and Buckhorn Dry Lakes, is primarily through sheet flow during storms. A review of topographic maps and watershed boundary datasets indicates that waters from the study area drain toward Rosamond Dry Lake.

There are no Traditional Navigable Waters (TNWs) or Relatively Permanent Waters (RPWs) in the study area, and the ephemeral desert streams in the study area are not tributaries to RPWs or TNWs. A previous SWANCC watershed-level Approved JD for Antelope Valley (HUC10 #s 1809020609 through 1809020624, excluding those portions of HUC12s 18090206151, 1901902061102, and 180902061103 that drain toward Lake Palmdale and its tributaries) determined that Rosamond, Buckhorn, and Rogers Dry Lakes, and their tributaries, (i.e. the Antelope Valley Watershed, excluding Lake Palmdale and tributaries to Lake Palmdale) are non-jurisdictional waters of the United States under SWANCC. This determination, SPL-2011-01084-SLP, dated June 7, 2013, found that these Antelope Valley waters are not tributary to either a TNW or an (a)(3) water and Rosamond, Buckhorn, and Rogers Dry Lakes are not (a)(3) waters themselves. The Corps made this watershed conclusion because the Antelope Valley watershed is an isolated, intrastate watershed without any surface water related interstate commerce. This previous determination is still in effect, and is appended as a supporting document for this determination.

Previously approved jurisdictional determinations have been made for tributaries to these dry lakes. When these lakes were analyzed in SPL-2011-01084-SLP, the Corps found no published commercial uses of the surface waters of any tributaries to Rosamond, Buckhorn, and Rogers Dry Lakes, and determined that a review of aerial photographs (Google Earth) also did not depict surface water usage of any drainages tributary to the dry lakes. The Corps found that all tributaries to Rosamond, Buckhorn, and Rogers Dry Lakes are not (a)(3) waters as defined by 33 C.F.R. section 328.3(a)(3)(i-iii). The previous determination found that since Rosamond, Buckhorn, and Rogers Dry Lakes are intrastate isolated waters without a surface water connection to commerce, all tributaries to Rosamond, Buckhorn, and Rogers Dry Lakes as part of the overall watershed system are also isolated and additionally have no nexus to commerce. A review of current conditions and updated literature review found that conditions have not changed since the SPL-2011-01084-SLP determination for Antelope Valley. Thus, the eight ephemeral desert stream segments, six ephemeral ditches, and 265 ephemeral or intermittent claypan features in this study area are intrastate, isolated waters with no interstate or foreign commerce connection and therefore are not currently regulated.

The above is based upon the review of aerial photographs (Google Earth, accessed July 25, 2017) that also did not show surface water usage of the project drainages or the Rosamond Dry Lake terminus. Since the Rosamond Dry Lake is an intrastate isolated water without a surface water connection to commerce (see prior AJD file No. SPL-2011-01084-SLP), the subject 8 unnamed ephemeral desert wash stream features, 6 ephemeral ditches, and 265 claypan features, as part of the same overall system, are also isolated and additionally have no nexus to commerce.

Based on the information above, the subject drainages: 8 unnamed ephemeral desert wash stream features, 6 ephemeral ditches, and 265 claypan features, are NONJURISDICTIONAL waters of the United States, since the waters are NOT tributary to either a TNW or an (a)(3) water and are NOT (a)(3) waters themselves. The Corps makes such a conclusion since the waters are tribuatary to an isolated, intrastate dry lake.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW
Identify TNW: .

Summarize rationale supporting determination: .

2. Wetland adjacent to TNW
Summarize rationale supporting conclusion that wetland is "adjacent": .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

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

(ii) Physical Characteristics:
(a) Relationship with TNW:
☐ Tributary flows directly into TNW.
☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.
Project waters are **Pick List** river miles from RPW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Project waters are **Pick List** aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain: .

Identify flow route to TNW[5]: .
Tributary stream order, if known: .

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[4] Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

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

Tributary is: ☐ Natural
☐ Artificial (man-made). Explain: .
☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):
Average width: feet
Average depth: feet
Average side slopes: **Pick Lis .**

Primary tributary substrate composition (check all that apply):

☐ Silts ☐ Sands ☐ Concrete
☐ Cobbles ☐ Gravel ☐ Muck
☐ Bedrock ☐ Vegetation. Type/% cover:
☐ Other. Explain: .

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .
Presence of run/riffle/pool complexes. Explain: .
Tributary geometry: **Pick List**
Tributary gradient (approximate average slope): %

(c) Flow:
Tributary provides for: **Pick List**
Estimate average number of flow events in review area/year: **Pick List**
Describe flow regime: .
Other information on duration and volume: .

Surface flow is: **Pick List.** Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .
☐ Dye (or other) test performed: .

Tributary has (check all that apply):
☐ Bed and banks
☐ OHWM[6] (check all indicators that apply):

☐ clear, natural line impressed on the bank ☐ the presence of litter and debris
☐ changes in the character of soil ☐ destruction of terrestrial vegetation
☐ shelving ☐ the presence of wrack line
☐ vegetation matted down, bent, or absent ☐ sediment sorting
☐ leaf litter disturbed or washed away ☐ scour
☐ sediment deposition ☐ multiple observed or predicted flow events
☐ water staining ☐ abrupt change in plant community
☐ other (list):

☐ Discontinuous OHWM.[7] Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☐ High Tide Line indicated by: ☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects ☐ survey to available datum;
☐ fine shell or debris deposits (foreshore) ☐ physical markings;
☐ physical markings/characteristics ☐ vegetation lines/changes in vegetation types.
☐ tidal gauges
☐ other (list):

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Explain: .
Identify specific pollutants, if known: .

[6]A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
[7]Ibid.

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

☐ Riparian corridor. Characteristics (type, average width): .
☐ Wetland fringe. Characteristics: .
☐ Habitat for:
  ☐ Federally Listed species. Explain findings: .
  ☐ Fish/spawn areas. Explain findings: .
  ☐ Other environmentally-sensitive species. Explain findings: .
  ☐ Aquatic/wildlife diversity. Explain findings: .

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

(i) Physical Characteristics:

(a) General Wetland Characteristics:
Properties:
  Wetland size: acres
  Wetland type. Explain: .
  Wetland quality. Explain: .
Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:
Flow is: **Pick List**. Explain: .

Surface flow is**: Pick List**
  Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .
  ☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:
☐ Directly abutting
☐ Not directly abutting
  ☐ Discrete wetland hydrologic connection. Explain: .
  ☐ Ecological connection. Explain: .
  ☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW
Project wetlands are **Pick List** river miles from TNW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Flow is from: **Pick List.**
Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .
Identify specific pollutants, if known: .

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

☐ Riparian buffer. Characteristics (type, average width): .
☐ Vegetation type/percent cover. Explain: .
☐ Habitat for:
  ☐ Federally Listed species. Explain findings: .
  ☐ Fish/spawn areas. Explain findings: .
  ☐ Other environmentally-sensitive species. Explain findings: .
  ☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List**
Approximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   ☐ TNWs: linear feet width (ft), Or, acres.
   ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
   ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):
- ☐ Tributary waters: linear feet width (ft).
- ☐ Other non-wetland waters: acres.
  Identify type(s) of waters: .

3. Non-RPWs[8] that flow directly or indirectly into TNWs.

☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):
- ☐ Tributary waters: linear feet width (ft).
- ☐ Other non-wetland waters: acres.
  Identify type(s) of waters: **.**

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
- ☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **.**

- ☐ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

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

☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.[9]

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
- ☐ Demonstrate that impoundment was created from "waters of the U.S.," or
- ☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- ☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]
- ☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
- ☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- ☐ which are or could be used for industrial purposes by industries in interstate commerce.
- ☐ Interstate isolated waters. Explain: .
- ☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

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[8]See Footnote # 3.

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

[10] Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.*

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☒ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☒ Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
☐ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: .
☐ Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
☒ Non-wetland waters (i.e., rivers, streams): **approximately 6,637** linear feet **ranging from 1 to 12 feet in** width (ft).
☐ Lakes/ponds: acres.
☒ Other non-wetland waters: 1.11 acres. List type of aquatic resource: Claypans 1.03 acres and Ditches 0.08 acres.
☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Features are depicted on Map Sheets 138-140 in Appendix E of the submitted delineation..
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps: .
☐ Corps navigable waters' study: .
☒ U.S. Geological Survey Hydrologic Atlas: .
☒ USGS NHD data.
☒ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: Rosamond 7.5 minute quadrangle.
☐ USDA Natural Resources Conservation Service Soil Survey. Citation: .
☐ National wetlands inventory map(s). Cite name: .
☐ State/Local wetland inventory map(s): .
☐ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date): NAIP Imagery 2005 and 2014 at 1-m resolution; Kern County Imagery 2010 and 2014 at 1-foot resolution; LA County Imagery 2011 and 2014 at a 1-foot resolution.
or ☐ Other (Name & Date): .
☒ Previous determination(s). File no. and date of response letter: SPL-2011-01084-SLP, June 7, 2013.
☐ Applicable/supporting case law: .
☐ Applicable/supporting scientific literature: .
☒ Other information (please specify):Aquatic Resources Delineation Report prepared by the applicant/consultant references additional materials; also Appendix E contains map sheets; Appendix F contains dimensions. HUC watershed maps of review areas with NHD Data provided by the applicant/consultant; general use of NAIP Imagery 2009, 2010, and 2012 at 1-m resolution; LA County Imagery 2015 at 1-foot resolution; Kern County Imagery 2008 at a 1-foot resolution; 2015 Site specific IR Imagery, 3-inch color pixel;

Bing Aerial Imagery - multiple years (scale dependent); ESRI World Imagery (streaming service) multiple years (scale dependent); Google Earth Historic Photos (used for reference and includes portions from above listed sources).

B. ADDITIONAL COMMENTS TO SUPPORT JD:

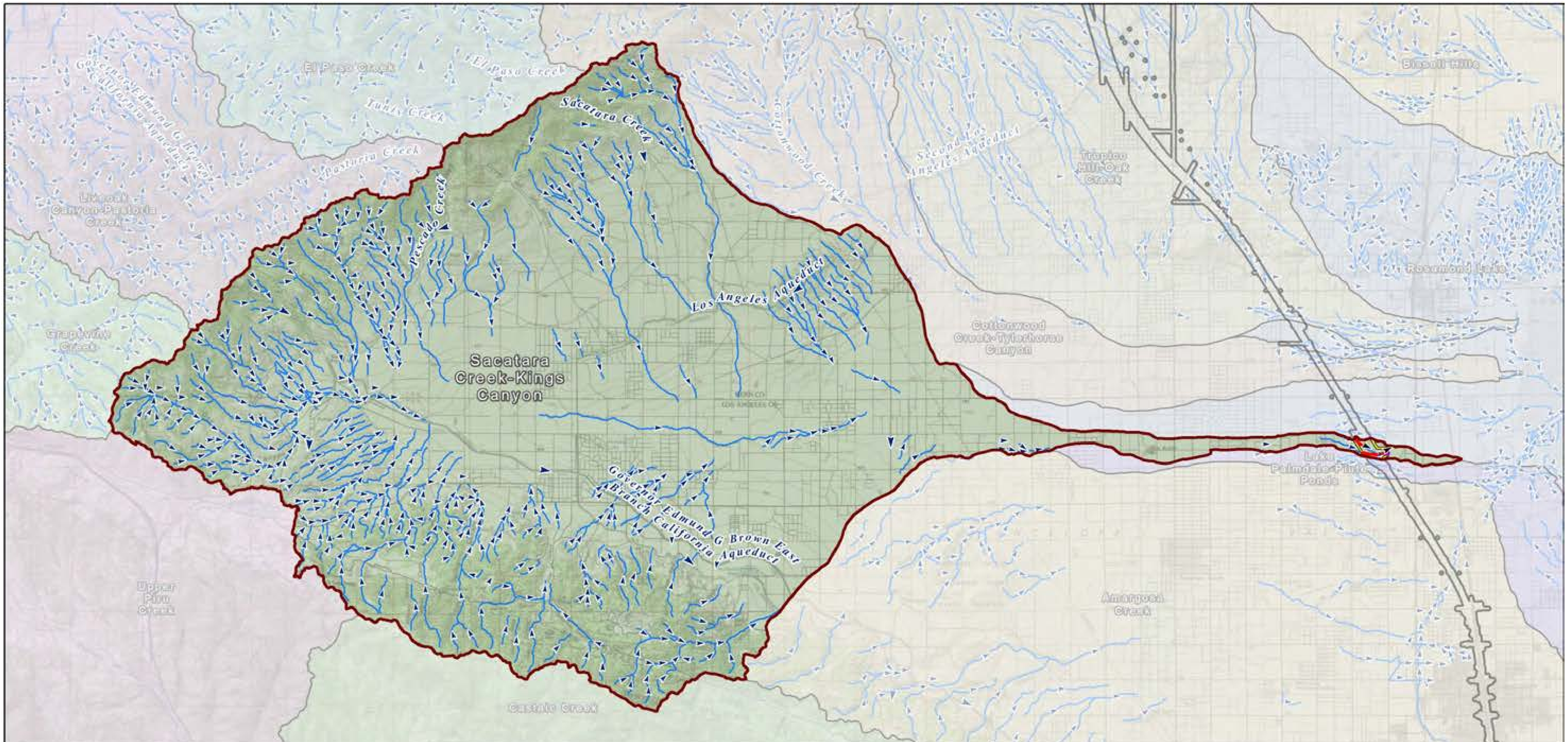
Waters_Name	Cowardin_Code	HGM_Code	Amount	Units	Waters_Type	Latitude	Longitude
Str_0371	R6	RIVERINE	0.03	ACRE	ISOLATE	34.80112439	-118.1985431
Str_0374	R6	RIVERINE	0.02	ACRE	ISOLATE	34.7998403	-118.1948202
Str_0376	R6	RIVERINE	0.28	ACRE	ISOLATE	34.79668022	-118.1932502
Str_0377	R6	RIVERINE	0.05	ACRE	ISOLATE	34.79706909	-118.1862042
Str_0378 -001	R6	RIVERINE	0.14	ACRE	ISOLATE	34.79869106	-118.1857991
Str_0378-002	R6	RIVERINE	0.03	ACRE	ISOLATE	34.79873505	-118.1846352
Ditch_0379-001	U	RIVERINE	3	SQ_FT	ISOLATE	34.79711977	-118.1848153
Ditch_0379-002	U	RIVERINE	87	SQ_FT	ISOLATE	34.79726851	-118.1848276
Ditch_0379-003	U	RIVERINE	9	SQ_FT	ISOLATE	34.79767594	-118.1848579
Ditch_0379-004	U	RIVERINE	131	SQ_FT	ISOLATE	34.79757409	-118.1848512
Ditch_0379-005	U	RIVERINE	0.01	ACRE	ISOLATE	34.79845801	-118.184978
Ditch_0380	U	RIVERINE	0.06	ACRE	ISOLATE	34.79756514	-118.1845932
Str_0381	R6	RIVERINE	131	SQ_FT	ISOLATE	34.7987416	-118.1845126
Str_0382	R6	RIVERINE	87	SQ_FT	ISOLATE	34.79688421	-118.1843751
CP_1303	PUB	DEPRESS	903	SQ_FT	ISOLATE	34.802967	-118.200095
CP_1304	PUB	DEPRESS	179	SQ_FT	ISOLATE	34.802792	-118.200007
CP_1305	PUB	DEPRESS	1283	SQ_FT	ISOLATE	34.80287	-118.199886
CP_1306	PUB	DEPRESS	26	SQ_FT	ISOLATE	34.802812	-118.199805
CP_1307	PUB	DEPRESS	79	SQ_FT	ISOLATE	34.801771	-118.199803
CP_130 8	PUB	DEPRESS	6	SQ_FT	ISOLATE	34.801708	-118.199766
CP_1309	PUB	DEPRESS	10	SQ_FT	ISOLATE	34.801726	-118.199764
CP_1310	PUB	DEPRESS	104	SQ_FT	ISOLATE	34.801952	-118.199755
CP_1311	PUB	DEPRESS	4	SQ_FT	ISOLATE	34.801649	-118.199528
CP_1312	PUB	DEPRESS	76	SQ_FT	ISOLATE	34.801622	-118.199444
CP_1317-001	PUB	DEPRESS	90	SQ_FT	ISOLATE	34.801329	-118.198922
CP_1317-002	PUB	DEPRESS	66	SQ_FT	ISOLATE	34.801329	-118.198922
CP_1318	PUB	DEPRESS	46	SQ_FT	ISOLATE	34.801371	-118.198515
CP_1319	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.801335	-118.198451
CP_1320	PUB	DEPRESS	113	SQ_FT	ISOLATE	34.801725	-118.198381
CP_1324	PUB	DEPRESS	17	SQ_FT	ISOLATE	34.801341	-118.198192
CP_1326	PUB	DEPRESS	44	SQ_FT	ISOLATE	34.801713	-118.197786
CP_1327	PUB	DEPRESS	157	SQ_FT	ISOLATE	34.801588	-118.19776
CP_1329	PUB	DEPRESS	69	SQ_FT	ISOLATE	34.801501	-118.19763
CP_1330	PUB	DEPRESS	47	SQ_FT	ISOLATE	34.801478	-118.197552
CP_1331	PUB	DEPRESS	91	SQ_FT	ISOLATE	34.80143	-118.19751
CP_1333	PUB	DEPRESS	109	SQ_FT	ISOLATE	34.802041	-118.197179
CP_1336	PUB	DEPRESS	1445	SQ_FT	ISOLATE	34.802262	-118.196193
CP_1340	PUB	DEPRESS	17	SQ_FT	ISOLATE	34.801436	-118.195582
CP_1343	PUB	DEPRESS	122	SQ_FT	ISOLATE	34.802861	-118.194365
CP_1344	PUB	DEPRESS	14	SQ_FT	ISOLATE	34.802218	-118.194345
CP_1347	PUB	DEPRESS	793	SQ_FT	ISOLATE	34.801908	-118.19358
CP_1348	PUB	DEPRESS	790	SQ_FT	ISOLATE	34.801317	-118.193572
CP_1349	PUB	DEPRESS	11	SQ_FT	ISOLATE	34.802733	-118.192885
CP_1350	PUB	DEPRESS	23	SQ_FT	ISOLATE	34.802701	-118.192819
CP_1351	PUB	DEPRESS	16	SQ_FT	ISOLATE	34.802394	-118.192354
CP_1352	PUB	DEPRESS	8	SQ_FT	ISOLATE	34.802397	-118.192338
CP_1353	PUB	DEPRESS	5	SQ_FT	ISOLATE	34.802386	-118.192333
CP_1354	PUB	DEPRESS	75	SQ_FT	ISOLATE	34.802276	-118.192178
CP_1355	PUB	DEPRESS	33	SQ_FT	ISOLATE	34.801973	-118.191824
CP_1356	PUB	DEPRESS	121	SQ_FT	ISOLATE	34.802078	-118.191823
CP_1357	PUB	DEPRESS	24	SQ_FT	ISOLATE	34.800755	-118.199103
CP_1358-001	PUB	DEPRESS	51	SQ_FT	ISOLATE	34.801262	-118.198852
CP_1358-002	PUB	DEPRESS	100	SQ_FT	ISOLATE	34.801262	-118.198852
CP_1359-001	PUB	DEPRESS	14	SQ_FT	ISOLATE	34.801201	-118.198767
CP_1359-002	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.801201	-118.198767
CP_1360	PUB	DEPRESS	58	SQ_FT	ISOLATE	34.801309	-118.198372
CP_1361-001	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.801076	-118.198335
CP_1361-002	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.801076	-118.198335
CP_1361-003	PUB	DEPRESS	0.3	SQ_FT	ISOLATE	34.801076	-118.198335
CP_1361-004	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.801076	-118.198335

CP_1361-005	PUB	DEPRESS	158	SQ_FT	ISOLATE	34.801076	-118.198335
CP_1361-006	PUB	DEPRESS	54	SQ_FT	ISOLATE	34.801076	-118.198335
CP_1361-007	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.801076	-118.198335
CP_1361-008	PUB	DEPRESS	16	SQ_FT	ISOLATE	34.801076	-118.198335
CP_1362-001	PUB	DEPRESS	33	SQ_FT	ISOLATE	34.800982	-118.198091
CP_1362-002	PUB	DEPRESS	225	SQ_FT	ISOLATE	34.800982	-118.198091
CP_1363	PUB	DEPRESS	41	SQ_FT	ISOLATE	34.80004	-118.198061
CP_1364-001	PUB	DEPRESS	39	SQ_FT	ISOLATE	34.800792	-118.198028
CP_1364-002	PUB	DEPRESS	54	SQ_FT	ISOLATE	34.800792	-118.198028
CP_1365	PUB	DEPRESS	29	SQ_FT	ISOLATE	34.800875	-118.197901
CP_1366	PUB	DEPRESS	9	SQ_FT	ISOLATE	34.80049	-118.197451
CP_1367	PUB	DEPRESS	53	SQ_FT	ISOLATE	34.798967	-118.197422
CP_1368-001	PUB	DEPRESS	86	SQ_FT	ISOLATE	34.800575	-118.197392
CP_1368-002	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.800575	-118.197392
CP_1369	PUB	DEPRESS	34	SQ_FT	ISOLATE	34.800976	-118.197285
CP_1370	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.80089	-118.197258
CP_1371	PUB	DEPRESS	54	SQ_FT	ISOLATE	34.800672	-118.197196
CP_1372	PUB	DEPRESS	143	SQ_FT	ISOLATE	34.801191	-118.197154
CP_1373	PUB	DEPRESS	30	SQ_FT	ISOLATE	34.800942	-118.197095
CP_1374	PUB	DEPRESS	401	SQ_FT	ISOLATE	34.800991	-118.196908
CP_1375	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.800718	-118.196887
CP_1376	PUB	DEPRESS	41	SQ_FT	ISOLATE	34.80085	-118.196736
CP_1377-001	PUB	DEPRESS	0.5	SQ_FT	ISOLATE	34.800251	-118.196728
CP_1377-002	PUB	DEPRESS	20	SQ_FT	ISOLATE	34.800251	-118.196728
CP_1377-003	PUB	DEPRESS	28	SQ_FT	ISOLATE	34.800251	-118.196728
CP_1377-004	PUB	DEPRESS	21	SQ_FT	ISOLATE	34.800251	-118.196728
CP_1378	PUB	DEPRESS	122	SQ_FT	ISOLATE	34.800371	-118.196714
CP_1379	PUB	DEPRESS	49	SQ_FT	ISOLATE	34.800503	-118.19671
CP_1380	PUB	DEPRESS	26	SQ_FT	ISOLATE	34.800448	-118.19669
CP_1381	PUB	DEPRESS	28	SQ_FT	ISOLATE	34.800469	-118.196678
CP_1382	PUB	DEPRESS	29	SQ_FT	ISOLATE	34.797324	-118.196654
CP_1383	PUB	DEPRESS	11	SQ_FT	ISOLATE	34.797295	-118.196649
CP_1384	PUB	DEPRESS	16	SQ_FT	ISOLATE	34.797254	-118.196623
CP_1385	PUB	DEPRESS	23	SQ_FT	ISOLATE	34.796879	-118.196403
CP_1386	PUB	DEPRESS	52	SQ_FT	ISOLATE	34.800294	-118.196364
CP_1387	PUB	DEPRESS	25	SQ_FT	ISOLATE	34.797076	-118.196159
CP_1388	PUB	DEPRESS	24	SQ_FT	ISOLATE	34.797051	-118.196148
CP_1389	PUB	DEPRESS	1018	SQ_FT	ISOLATE	34.796387	-118.195916
CP_1390	PUB	DEPRESS	35	SQ_FT	ISOLATE	34.798368	-118.19587
CP_1391	PUB	DEPRESS	60	SQ_FT	ISOLATE	34.798329	-118.195864
CP_1392	PUB	DEPRESS	24	SQ_FT	ISOLATE	34.798392	-118.195852
CP_1393	PUB	DEPRESS	21	SQ_FT	ISOLATE	34.797117	-118.195855
CP_1394	PUB	DEPRESS	37	SQ_FT	ISOLATE	34.800312	-118.195687
CP_1395	PUB	DEPRESS	9	SQ_FT	ISOLATE	34.800324	-118.195602
CP_1396	PUB	DEPRESS	20	SQ_FT	ISOLATE	34.796682	-118.195492
CP_1397	PUB	DEPRESS	53	SQ_FT	ISOLATE	34.801129	-118.195476
CP_1398	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.801087	-118.195442
CP_1399	PUB	DEPRESS	66	SQ_FT	ISOLATE	34.7987	-118.195335
CP_1401	PUB	DEPRESS	26	SQ_FT	ISOLATE	34.797272	-118.194703
CP_1402	PUB	DEPRESS	46	SQ_FT	ISOLATE	34.797216	-118.194689
CP_1403	PUB	DEPRESS	21	SQ_FT	ISOLATE	34.798595	-118.194571
CP_1404	PUB	DEPRESS	270	SQ_FT	ISOLATE	34.797936	-118.194525
CP_1405	PUB	DEPRESS	12	SQ_FT	ISOLATE	34.798589	-118.194482
CP_1406	PUB	DEPRESS	12	SQ_FT	ISOLATE	34.798571	-118.194427
CP_1407	PUB	DEPRESS	42	SQ_FT	ISOLATE	34.797028	-118.194311
CP_1408-001	PUB	DEPRESS	20	SQ_FT	ISOLATE	34.796988	-118.194218
CP_1408-002	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.796988	-118.194218
CP_1408-003	PUB	DEPRESS	26	SQ_FT	ISOLATE	34.796988	-118.194218
CP_1409	PUB	DEPRESS	100	SQ_FT	ISOLATE	34.798005	-118.194147
CP_1410-001	PUB	DEPRESS	38	SQ_FT	ISOLATE	34.796951	-118.194126
CP_1410-002	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.796951	-118.194126
CP_1411	PUB	DEPRESS	58	SQ_FT	ISOLATE	34.796873	-118.194085
CP_1412	PUB	DEPRESS	44	SQ_FT	ISOLATE	34.798408	-118.19407
CP_1413-001	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.796926	-118.194034
CP_1413-002	PUB	DEPRESS	29	SQ_FT	ISOLATE	34.796926	-118.194034
CP_1413-003	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.796926	-118.194034

CP_1413-004	PUB	DEPRESS	16	SQ_FT	ISOLATE	34.796926	-118.194034
CP_1413-005	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.796926	-118.194034
CP_1414	PUB	DEPRESS	27	SQ_FT	ISOLATE	34.796679	-118.193836
CP_1415	PUB	DEPRESS	24	SQ_FT	ISOLATE	34.796691	-118.1938
CP_1416	PUB	DEPRESS	4	SQ_FT	ISOLATE	34.800228	-118.193767
CP_1417	PUB	DEPRESS	19	SQ_FT	ISOLATE	34.796659	-118.193686
CP_1418	PUB	DEPRESS	87	SQ_FT	ISOLATE	34.798319	-118.193668
CP_1419	PUB	DEPRESS	42	SQ_FT	ISOLATE	34.800676	-118.193568
CP_1420	PUB	DEPRESS	20	SQ_FT	ISOLATE	34.800707	-118.193559
CP_1421	PUB	DEPRESS	39	SQ_FT	ISOLATE	34.800681	-118.19355
CP_142 2	PUB	DEPRESS	90	SQ_FT	ISOLATE	34.798328	-118.193549
CP_1423	PUB	DEPRESS	95	SQ_FT	ISOLATE	34.797913	-118.193382
CP_1424	PUB	DEPRESS	28	SQ_FT	ISOLATE	34.797975	-118.193106
CP_1425	PUB	DEPRESS	337	SQ_FT	ISOLATE	34.79785	-118.193001
CP_1427	PUB	DEPRESS	58	SQ_FT	ISOLATE	34.798498	-118.192782
CP_1428	PUB	DEPRESS	1427	SQ_FT	ISOLATE	34.799278	-118.192529
CP_1429	PUB	DEPRESS	615	SQ_FT	ISOLATE	34.79999953	-118.192276
CP_1430	PUB	DEPRESS	46	SQ_FT	ISOLATE	34.798364	-118.192098
CP_1431	PUB	DEPRESS	18	SQ_FT	ISOLATE	34.800646	-118.191882
CP_1432	PUB	DEPRESS	40	SQ_FT	ISOLATE	34.797988	-118.191875
CP_1433	PUB	DEPRESS	119	SQ_FT	ISOLATE	34.800623	-118.191796
CP_1434	PUB	DEPRESS	2113	SQ_FT	ISOLATE	34.800786	-118.191712
CP_1435	PUB	DEPRESS	288	SQ_FT	ISOLATE	34.799892	-118.191693
CP_1436	PUB	DEPRESS	10	SQ_FT	ISOLATE	34.800627	-118.191691
CP_1437	PUB	DEPRESS	12225	SQ_FT	ISOLATE	34.799726	-118.19162
CP_1438	PUB	DEPRESS	14	SQ_FT	ISOLATE	34.797335	-118.191466
CP_1439	PUB	DEPRESS	100	SQ_FT	ISOLATE	34.799467	-118.191421
CP_1440	PUB	DEPRESS	47	SQ_FT	ISOLATE	34.799557	-118.191412
CP_1441	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.799585	-118.191403
CP_1442	PUB	DEPRESS	6	SQ_FT	ISOLATE	34.799604	-118.191378
CP_1443	PUB	DEPRESS	20	SQ_FT	ISOLATE	34.798686	-118.191106
CP_1444	PUB	DEPRESS	23	SQ_FT	ISOLATE	34.798876	-118.19083
CP_1445	PUB	DEPRESS	131	SQ_FT	ISOLATE	34.798935	-118.190767
CP_1446	PUB	DEPRESS	69	SQ_FT	ISOLATE	34.797634	-118.190715
CP_1447	PUB	DEPRESS	142	SQ_FT	ISOLATE	34.797557	-118.190634
CP_1448	PUB	DEPRESS	9	SQ_FT	ISOLATE	34.799107	-118.190546
CP_1449	PUB	DEPRESS	39	SQ_FT	ISOLATE	34.796928	-118.190495
CP_1450	PUB	DEPRESS	42	SQ_FT	ISOLATE	34.797965	-118.19029
CP_1451	PUB	DEPRESS	632	SQ_FT	ISOLATE	34.797452	-118.190286
CP_1452	PUB	DEPRESS	12	SQ_FT	ISOLATE	34.798033	-118.190219
CP_1453	PUB	DEPRESS	119	SQ_FT	ISOLATE	34.797908	-118.190174
CP_1454	PUB	DEPRESS	316	SQ_FT	ISOLATE	34.797583	-118.19012
CP_1455	PUB	DEPRESS	22	SQ_FT	ISOLATE	34.797496	-118.190027
CP_1456	PUB	DEPRESS	65	SQ_FT	ISOLATE	34.797813	-118.189967
CP_1457	PUB	DEPRESS	14	SQ_FT	ISOLATE	34.797625	-118.189895
CP_1458-001	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.797672	-118.189852
CP_1458-002	PUB	DEPRESS	9	SQ_FT	ISOLATE	34.797672	-118.189852
CP_1459-001	PUB	DEPRESS	0.3	SQ_FT	ISOLATE	34.797633	-118.189844
CP_1459-002	PUB	DEPRESS	47	SQ_FT	ISOLATE	34.797633	-118.189844
CP_1460	PUB	DEPRESS	349	SQ_FT	ISOLATE	34.79763	-118.189481
CP_1461	PUB	DEPRESS	266	SQ_FT	ISOLATE	34.797894	-118.189476
CP_1462	PUB	DEPRESS	26	SQ_FT	ISOLATE	34.798621	-118.189277
CP_1463	PUB	DEPRESS	424	SQ_FT	ISOLATE	34.797165	-118.189198
CP_1464-001	PUB	DEPRESS	0.7	SQ_FT	ISOLATE	34.796584	-118.189186
CP_1464-002	PUB	DEPRESS	17	SQ_FT	ISOLATE	34.796584	-118.189186
CP_1464-003	PUB	DEPRESS	17	SQ_FT	ISOLATE	34.796584	-118.189186
CP_1465	PUB	DEPRESS	10	SQ_FT	ISOLATE	34.797563	-118.189112
CP_1466	PUB	DEPRESS	23	SQ_FT	ISOLATE	34.797705	-118.18906
CP_1467	PUB	DEPRESS	42	SQ_FT	ISOLATE	34.797492	-118.188908
CP_1468	PUB	DEPRESS	90	SQ_FT	ISOLATE	34.797461	-118.188769
CP_1469	PUB	DEPRESS	41	SQ_FT	ISOLATE	34.798004	-118.188749
CP_1470	PUB	DEPRESS	26	SQ_FT	ISOLATE	34.798026	-118.188747
CP_1471	PUB	DEPRESS	21	SQ_FT	ISOLATE	34.797516	-118.188601
CP_1472	PUB	DEPRESS	16	SQ_FT	ISOLATE	34.797949	-118.188578
CP_1473	PUB	DEPRESS	12	SQ_FT	ISOLATE	34.797518	-118.188571
CP_1474	PUB	DEPRESS	57	SQ_FT	ISOLATE	34.79739	-118.188546

CP_1475	PUB	DEPRESS	74	SQ_FT	ISOLATE	34.797521	-118.188517
CP_1476	PUB	DEPRESS	12	SQ_FT	ISOLATE	34.797844	-118.188394
CP_1477	PUB	DEPRESS	87	SQ_FT	ISOLATE	34.797281	-118.188355
CP_1478	PUB	DEPRESS	36	SQ_FT	ISOLATE	34.797455	-118.188349
CP_1479	PUB	DEPRESS	23	SQ_FT	ISOLATE	34.798645	-118.188303
CP_1480	PUB	DEPRESS	22	SQ_FT	ISOLATE	34.79844	-118.188157
CP_1481	PUB	DEPRESS	8	SQ_FT	ISOLATE	34.797692	-118.18808
CP_1482	PUB	DEPRESS	281	SQ_FT	ISOLATE	34.797221	-118.188044
CP_1483	PUB	DEPRESS	38	SQ_FT	ISOLATE	34.797148	-118.187943
CP_1484	PUB	DEPRESS	327	SQ_FT	ISOLATE	34.797084	-118.187837
CP_1485	PUB	DEPRESS	17	SQ_FT	ISOLATE	34.797833	-118.187579
CP_1486	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.795603	-118.187499
CP_1487	PUB	DEPRESS	136	SQ_FT	ISOLATE	34.795703	-118.187461
CP_1488	PUB	DEPRESS	50	SQ_FT	ISOLATE	34.797588	-118.187448
CP_1489	PUB	DEPRESS	1639	SQ_FT	ISOLATE	34.795513	-118.187402
CP_1490-001	PUB	DEPRESS	102	SQ_FT	ISOLATE	34.797033	-118.187254
CP_1490-002	PUB	DEPRESS	34	SQ_FT	ISOLATE	34.797033	-118.187254
CP_1491	PUB	DEPRESS	468	SQ_FT	ISOLATE	34.796188	-118.187175
CP_1492	PUB	DEPRESS	29	SQ_FT	ISOLATE	34.798339	-118.187153
CP_1493	PUB	DEPRESS	176	SQ_FT	ISOLATE	34.798498	-118.187151
CP_1494	PUB	DEPRESS	45	SQ_FT	ISOLATE	34.797398	-118.1871
CP_1495-001	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.797001	-118.187087
CP_1495-002	PUB	DEPRESS	81	SQ_FT	ISOLATE	34.797001	-118.187087
CP_1495-003	PUB	DEPRESS	44	SQ_FT	ISOLATE	34.797001	-118.187087
CP_1495-004	PUB	DEPRESS	22	SQ_FT	ISOLATE	34.797001	-118.187087
CP_1496	PUB	DEPRESS	61	SQ_FT	ISOLATE	34.798494	-118.187061
CP_1497	PUB	DEPRESS	85	SQ_FT	ISOLATE	34.795932	-118.187017
CP_1498	PUB	DEPRESS	39	SQ_FT	ISOLATE	34.795107	-118.186972
CP_1499-001	PUB	DEPRESS	6	SQ_FT	ISOLATE	34.797033	-118.186958
CP_1499-002	PUB	DEPRESS	6	SQ_FT	ISOLATE	34.797033	-118.186958
CP_1499-003	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.797033	-118.186958
CP_1499-004	PUB	DEPRESS	34	SQ_FT	ISOLATE	34.797033	-118.186958
CP_1500-001	PUB	DEPRESS	0.4	SQ_FT	ISOLATE	34.797045	-118.186877
CP_1500-002	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.797045	-118.186877
CP_1500-003	PUB	DEPRESS	62	SQ_FT	ISOLATE	34.797045	-118.186877
CP_1501	PUB	DEPRESS	368	SQ_FT	ISOLATE	34.795805	-118.186867
CP_1502-001	PUB	DEPRESS	0.2	SQ_FT	ISOLATE	34.797086	-118.18685
CP_1502-002	PUB	DEPRESS	14	SQ_FT	ISOLATE	34.797086	-118.18685
CP_1502-003	PUB	DEPRESS	11	SQ_FT	ISOLATE	34.797086	-118.18685
CP_1503	PUB	DEPRESS	11	SQ_FT	ISOLATE	34.797049	-118.186769
CP_1504	PUB	DEPRESS	848	SQ_FT	ISOLATE	34.794846	-118.18675
CP_1505	PUB	DEPRESS	12	SQ_FT	ISOLATE	34.797058	-118.186685
CP_1506	PUB	DEPRESS	14	SQ_FT	ISOLATE	34.79772	-118.186684
CP_1507	PUB	DEPRESS	9	SQ_FT	ISOLATE	34.797045	-118.186664
CP_1508	PUB	DEPRESS	93	SQ_FT	ISOLATE	34.797728	-118.186635
CP_1509	PUB	DEPRESS	23	SQ_FT	ISOLATE	34.797917	-118.186634
CP_1510-001	PUB	DEPRESS	11	SQ_FT	ISOLATE	34.797035	-118.186591
CP_1510-002	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.797035	-118.186591
CP_1510-003	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.797035	-118.186591
CP_1511	PUB	DEPRESS	105	SQ_FT	ISOLATE	34.797187	-118.186542
CP_1512-001	PUB	DEPRESS	48	SQ_FT	ISOLATE	34.797084	-118.186429
CP_1512-002	PUB	DEPRESS	52	SQ_FT	ISOLATE	34.797084	-118.186429
CP_1513	PUB	DEPRESS	22	SQ_FT	ISOLATE	34.79709	-118.186366
CP_1514	PUB	DEPRESS	8	SQ_FT	ISOLATE	34.797067	-118.186232
CP_1515	PUB	DEPRESS	23	SQ_FT	ISOLATE	34.799291	-118.185847
CP_1516-001	PUB	DEPRESS	0.3	SQ_FT	ISOLATE	34.796984	-118.185315
CP_1516-002	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.796984	-118.185315
CP_1516-003	PUB	DEPRESS	12	SQ_FT	ISOLATE	34.796984	-118.185315
CP_1517	PUB	DEPRESS	958	SQ_FT	ISOLATE	34.799268	-118.185302
CP_1518	PUB	DEPRESS	18	SQ_FT	ISOLATE	34.796973	-118.185212
CP_1519	PUB	DEPRESS	359	SQ_FT	ISOLATE	34.798882	-118.185178
CP_1520-001	PUB	DEPRESS	45	SQ_FT	ISOLATE	34.798686	-118.185126
CP_1520-002	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.798686	-118.185126
CP_1521-001	PUB	DEPRESS	0.3	SQ_FT	ISOLATE	34.796962	-118.185086
CP_1521-002	PUB	DEPRESS	81	SQ_FT	ISOLATE	34.796962	-118.185086
CP_1522	PUB	DEPRESS	956	SQ_FT	ISOLATE	34.798017	-118.1849

CP_1523	PUB	DEPRESS	58	SQ_FT	ISOLATE	34.797635	-118.184876
CP_1524	PUB	DEPRESS	105	SQ_FT	ISOLATE	34.797673	-118.184861
CP_1525	PUB	DEPRESS	413	SQ_FT	ISOLATE	34.797422	-118.184836
CP_1526	PUB	DEPRESS	3595	SQ_FT	ISOLATE	34.796622	-118.184816
CP_1527-001	PUB	DEPRESS	43	SQ_FT	ISOLATE	34.798751	-118.184759
CP_1527-002	PUB	DEPRESS	85	SQ_FT	ISOLATE	34.798751	-118.184759
CP_1528	PUB	DEPRESS	47	SQ_FT	ISOLATE	34.796732	-118.1845
CP_3339-053	PUB	DEPRESS	9	SQ_FT	ISOLATE	34.797347	-118.196711
CP_3341-001	PUB	DEPRESS	0.6	SQ_FT	ISOLATE	34.797209	-118.196246
CP_3341-002	PUB	DEPRESS	0.4	SQ_FT	ISOLATE	34.797209	-118.196246
CP_3341-003	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.797209	-118.196246
CP_3342-047	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.796792	-118.194015
CP_3343-001	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.796772	-118.193844
CP_3343-002	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.796772	-118.193844
CP_3345-001	PUB	DEPRESS	0.2	SQ_FT	ISOLATE	34.796573	-118.189389
CP_3345-002	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.796573	-118.189389
CP_3345-003	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.796573	-118.189389
CP_3345-004	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.796573	-118.189389
CP_3345-005	PUB	DEPRESS	17	SQ_FT	ISOLATE	34.796573	-118.189389
CP_3346-001	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.797082	-118.185686
CP_3346-002	PUB	DEPRESS	0.3	SQ_FT	ISOLATE	34.797082	-118.185686.



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 14, 2016

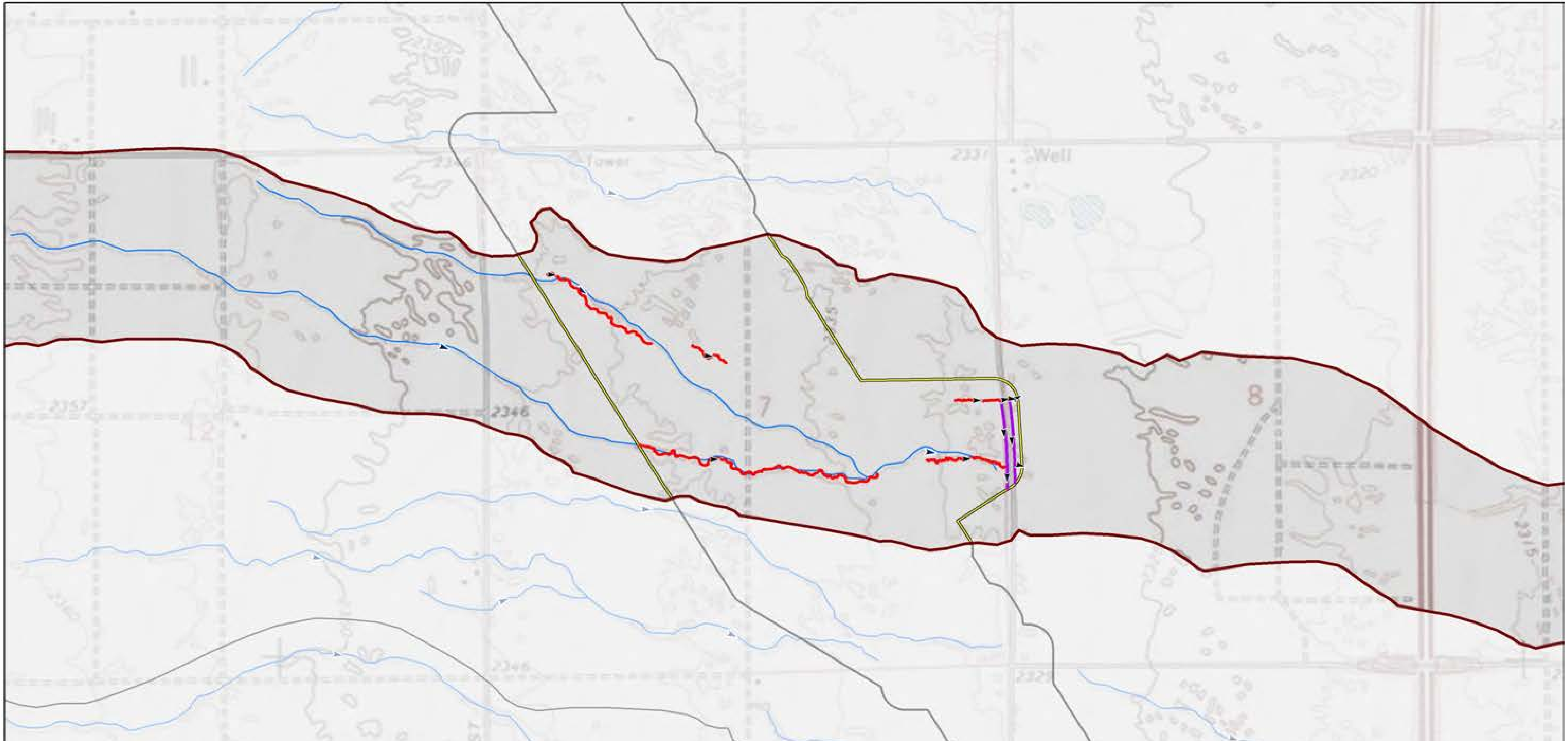
N
0 1.5 3 Miles
0 2.5 5 Kilometers

BP HSR Mapped Streams with OHWM in Sacatara Creek - Kings Canyon Watershed Study Area

- Culvert
- Ephemeral Stream
- Ditch

- Study Area in the Sacatara Creek - Kings Canyon Watershed
- Sacatara Creek - Kings Canyon Watershed HUC-10
- Other HUC-10 Watersheds
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines

Sacatara Creek - Kings Canyon Watershed Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 14, 2016

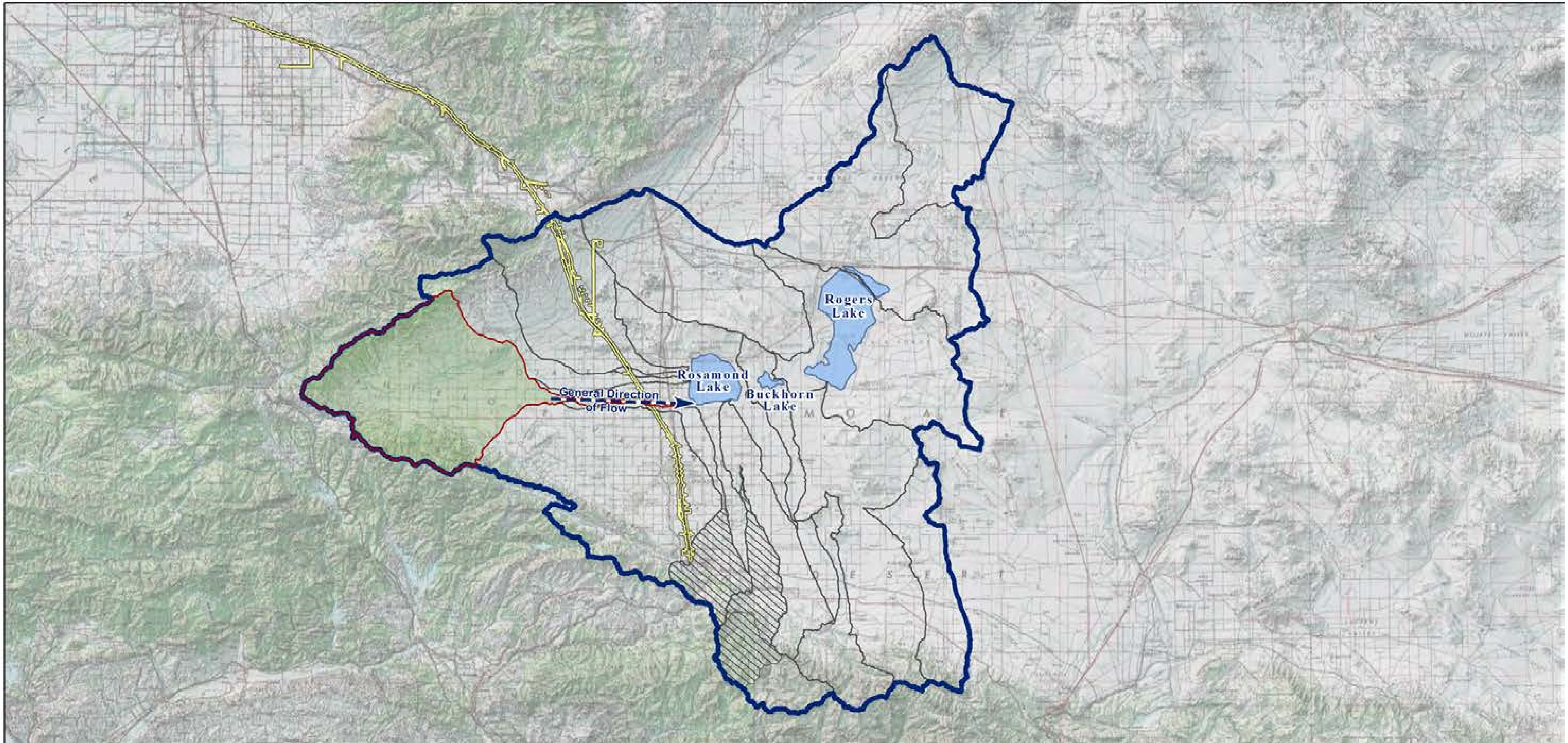
N

0 0.15 0.3 Miles
0 0.25 0.5 Kilometers

BP HSR Mapped Streams with OHWM in Sacatara Creek - Kings Canyon Watershed Study Area

- Culvert
- Ephemeral Stream
- Ditch
- Study Area in the Sacatara Creek - Kings Canyon Watershed
- Sacatara Creek - Kings Canyon Watershed HUC-10
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines

Sacatara Creek - Kings Canyon Watershed Study Area Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 17, 2016

Sacatara Creek - Kings Canyon Watershed HUC-10

Antelope Valley Watershed (as described in SPL-2011-01084-SLP)

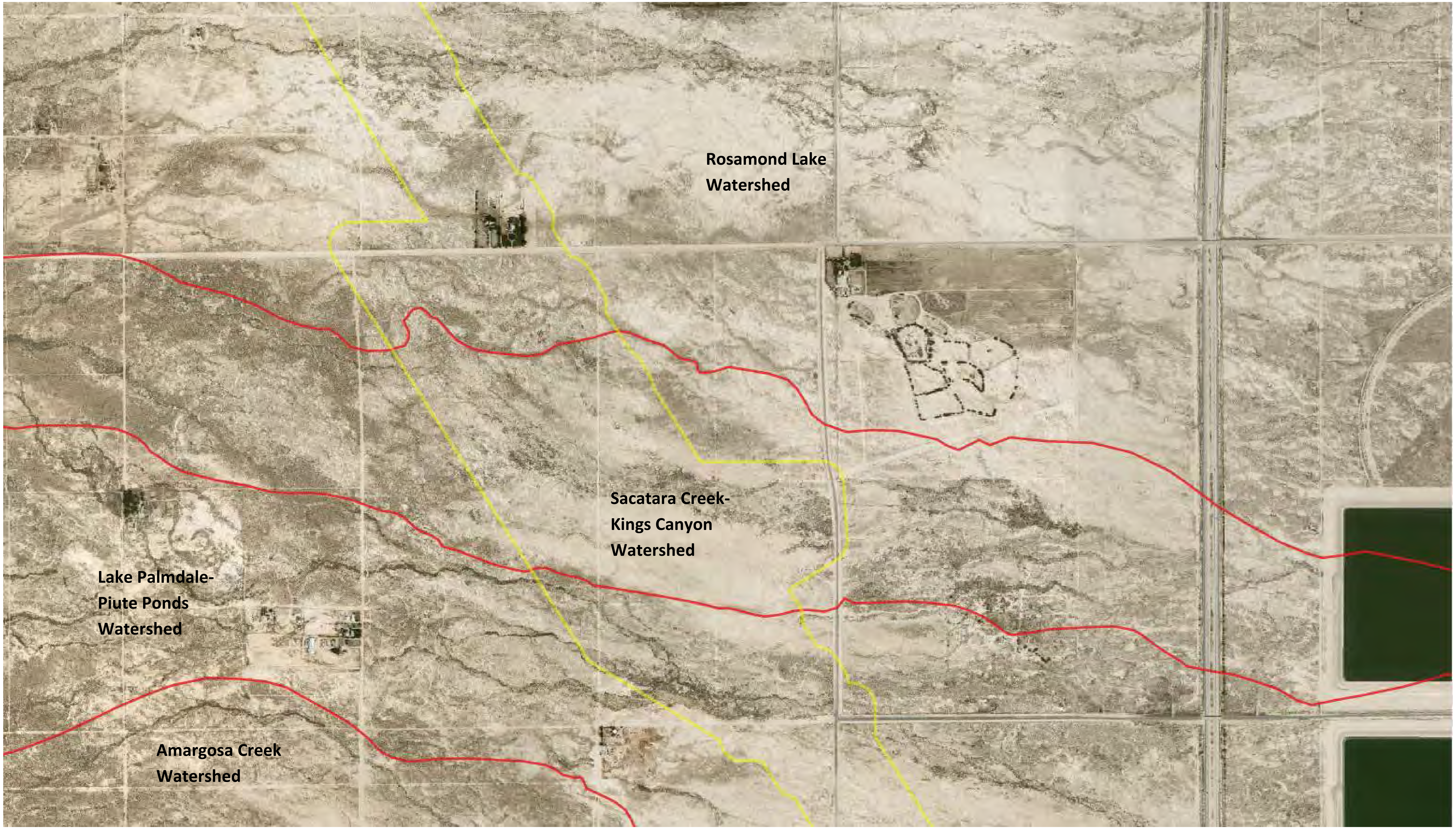
HUC-12 Watersheds excluded from SPL-2011-01084-SLP

Wetlands Study Area (Project Footprint + 250 ft Buffer)

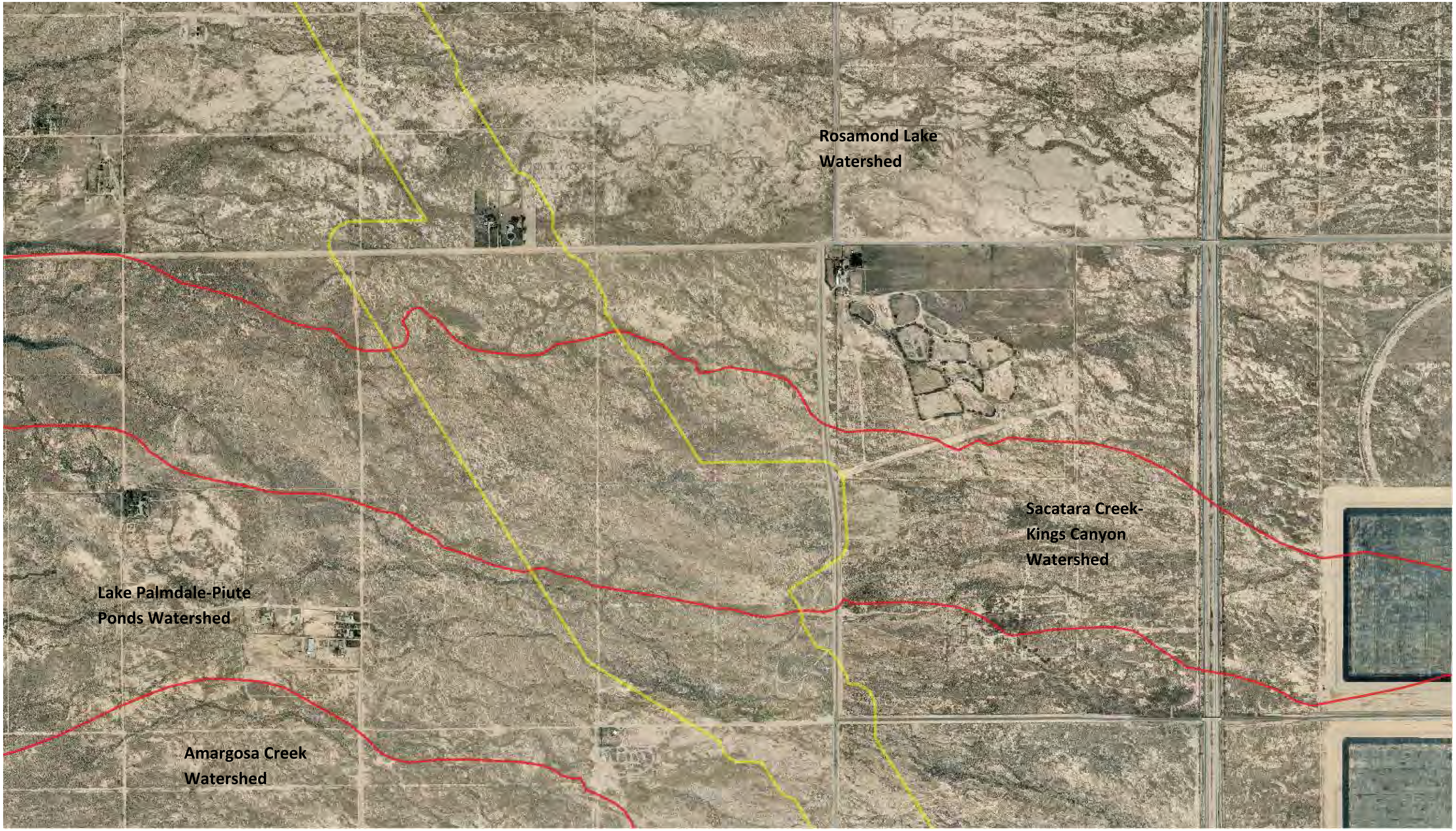
0 5 10 Miles
0 8 16 Kilometers

The U.S. Army Corps of Engineers issued a SWANCC watershed-level Approved Jurisdictional Determination for Antelope Valley (HUC 10 #s 1809020609 through 1809020624) on June 7, 2013. Note that this determination specifically excluded the areas of Lake Palmdale and all waters tributary to Lake Palmdale (portions of HUC 12 #s 180902061501, 180902061102, 180902061103). This figure illustrates the location of the study area relative to the previous watershed-level decision.

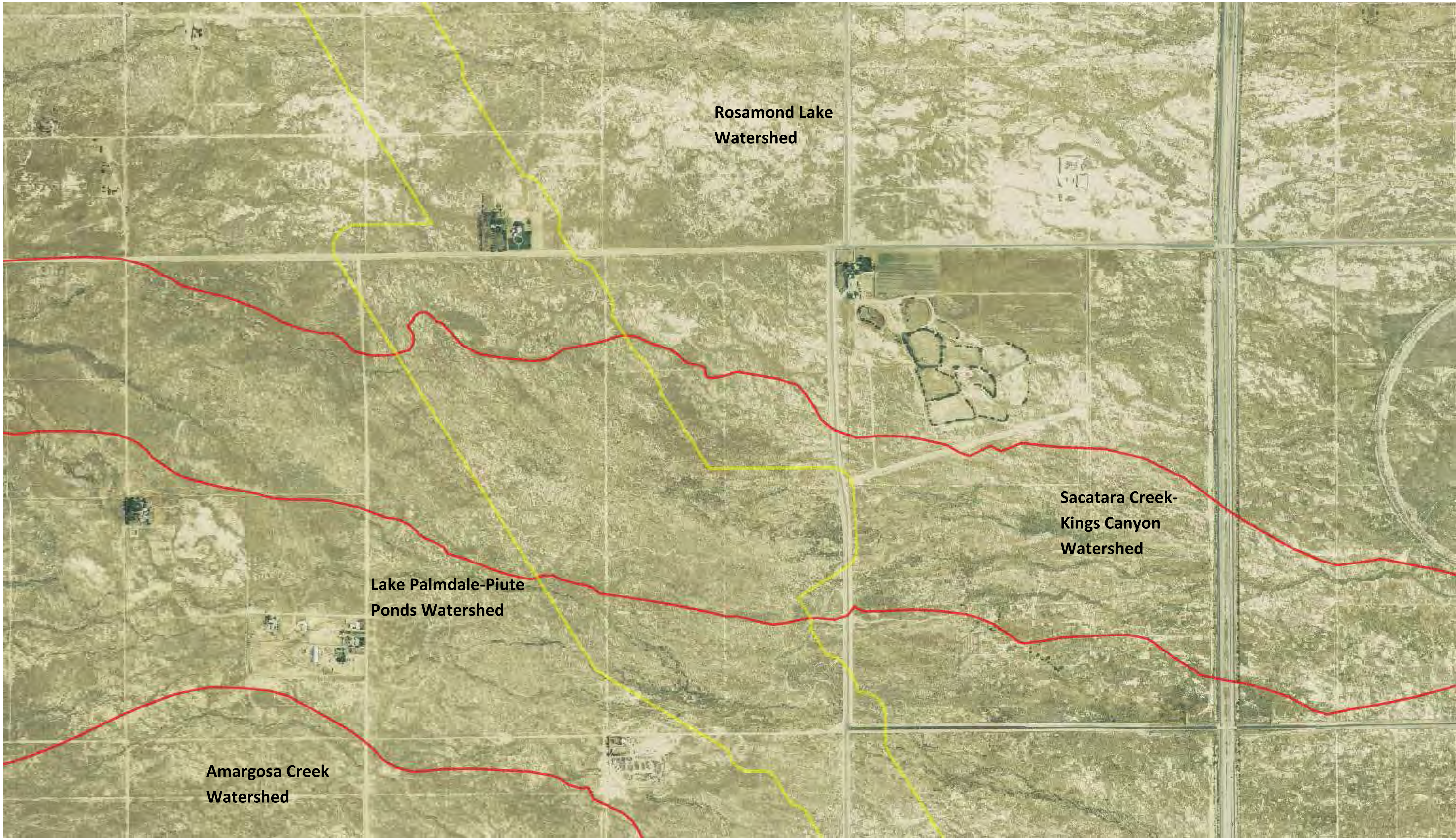
Sacatara Creek - Kings Canyon Watershed Location Within Antelope Valley Watershed



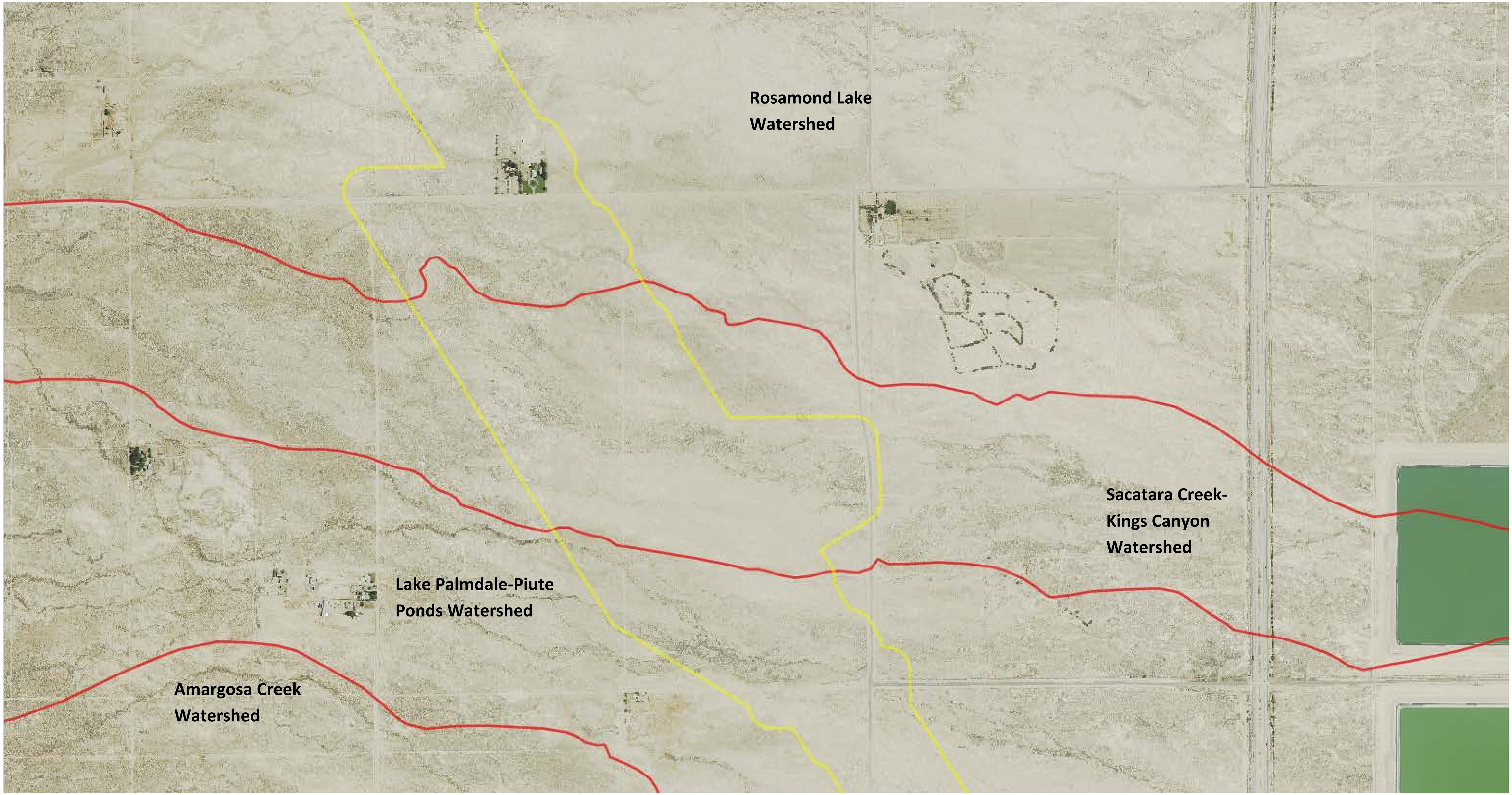
Kern County 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



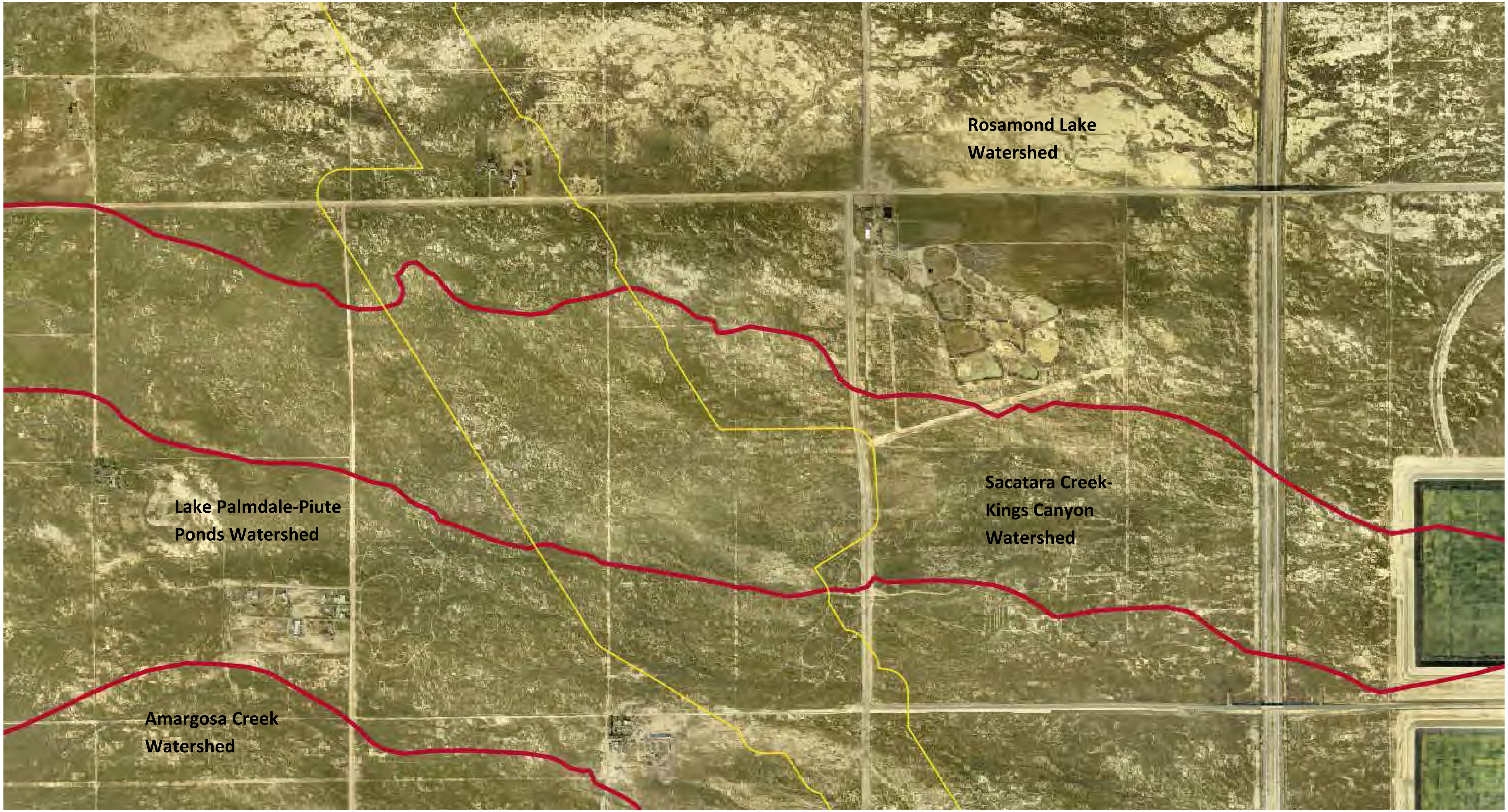
Kern County 2010 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



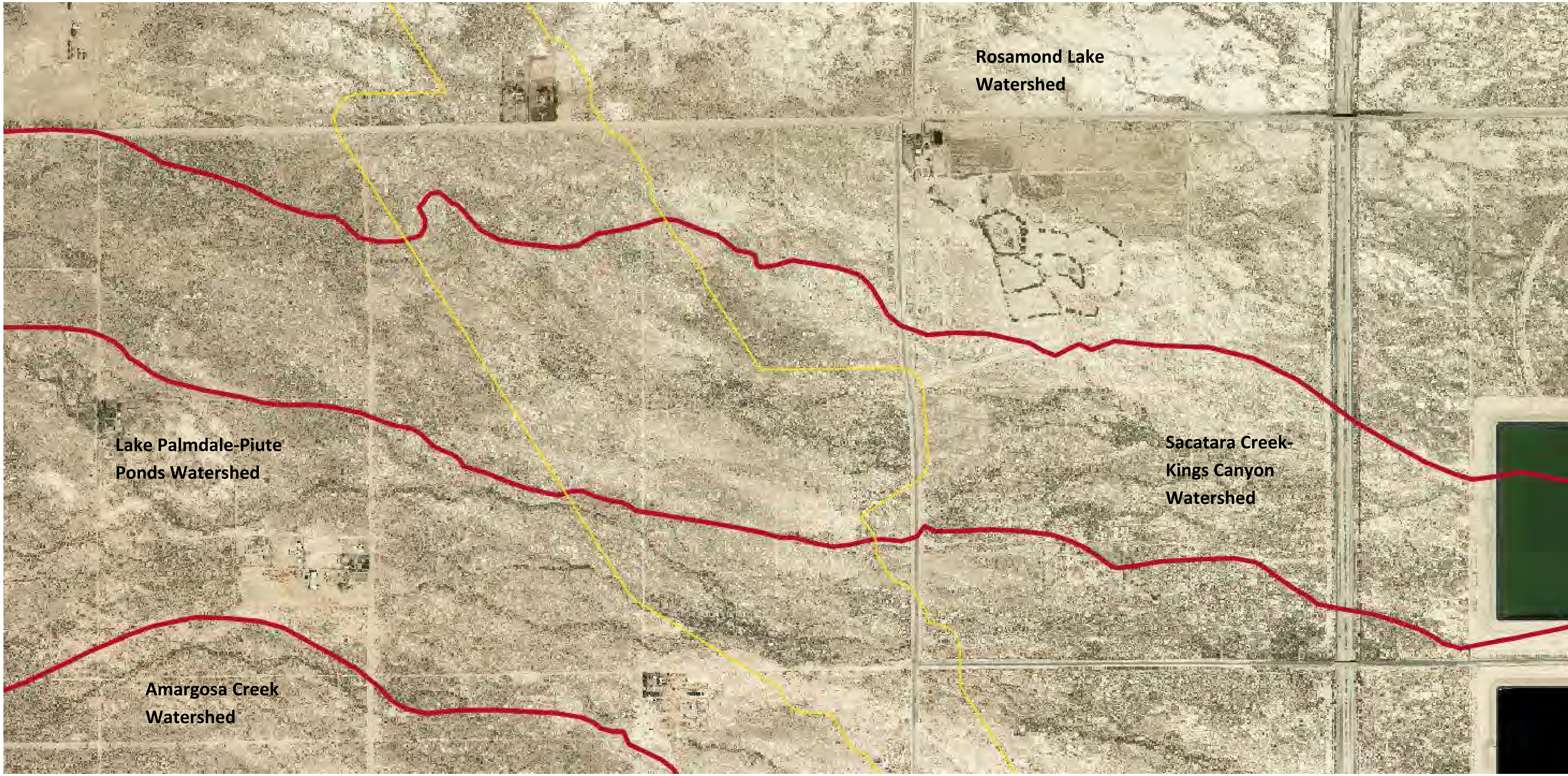
NAIP 2005 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



NAIP 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



Los Angeles County 2011 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



Los Angeles County 2013 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.

Aerial Sources: http://maps.co.kern.ca.us/arcgis/services/ and http://gis.apfo.usda.gov/arcgis/services/NAIP/

Retrieved November 14, 2016.

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

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

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): August 25, 2017

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: SPL-2010-00945-VCL-JD-7

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: CA County/parish/borough: Los Angeles County City: N/A
Center coordinates of site (lat/long in degree decimal format): Lat. 34.79088° N, Long. 118.18622° W.
Universal Transverse Mercator: 391478 m E, 38504 m N
Name of nearest waterbody: Piute Ponds
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A
Name of watershed or Hydrologic Unit Code (HUC): Piute Ponds, California, HUC-12 #180902061502

☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☒ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form.

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

☒ Office (Desk) Determination. Date: July 25, 2017
☐ Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]

☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are no** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
      ☐ TNWs, including territorial seas
      ☐ Wetlands adjacent to TNWs
      ☐ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
      ☐ Non-RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      ☐ Impoundments of jurisdictional waters
      ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
      Non-wetland waters: linear feet: width (ft) and/or acres.
      Wetlands: acres.

   c. **Limits (boundaries) of jurisdiction** based on: **Not Applicable.**
      Elevation of established OHWM (if known): .

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
   Explain:

Within the project area of the Piute Ponds HUC 10, there are a total of 173 aquatic features. These features include 14 unnamed ephemeral desert wash stream features, 19 segments of ephemeral ditches, and 140 claypan features. Ephemeral desert wash streams span a total of approximately 9,953 linear feet (1.89 miles) and cover approximately 0.65 acre; ephemeral ditches span a total of approximately 3,900 linear feet (0.74 mile), and cover approximately 0.27 acre; and claypan features cover approximately

[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

0.97 acres. Labeled maps and tables of features and dimensions are provided in the Aquatic Resources Delineation Report, which identifies each feature according to which HUC-12 watershed it occurs within.

The unnamed ephemeral desert washes, features Str_0375, Str_0383 through Str_0386, Str_0388 through Str_0390, and Str_0396 through Str_0398 generally flow east within the study area. Where these aquatic features approach existing roads, the water flows into ditches. Ephemeral ditches, features Ditch_0387 (multiple segments) and Ditch_0391 through Ditch 0395 (multiple segments), move water along 30th Street West and along West Avenue C, generally following along road shoulders until reaching culverts where the water flows under the road, or low points where the water flows across the road, rejoining natural features or sheet flow that convey the water further east toward Rosamond Dry Lake. Note that some wash and ditch features have multiple segments and are labeled as such in attached tables (e.g. Ditch_0387-001, Ditch_0387-002, etc.). Most of the ephemeral desert wash and ditch features dissipate and do not have defined channels that can be traced all the way down to the terminal point in the watershed. These features are similar to many other streams in the Antelope Valley Watershed that have well-defined channels where they originate in the mountains and foothills, but dissipate on the valley floor, where water movement during storms is primarily sheet flow.

Ephemeral and intermittent claypan features, CP_1400, CP_1426, CP_1529 through CP_1630, CP_1632, CP_1633, CP_1636, CP_1638 through CP_1662, and CP_1664, are scattered throughout the study area due to the relatively flat topography. These low-lying depressional features are ephemeral or intermittent and typically hold water for a few weeks annually.

All aquatic features within the study area are ephemeral or intermittent and are not used for commerce. The hydrologic connection to the low point in the Antelope Valley watershed, Rogers, Rosamond, and Buckhorn Dry Lakes, is primarily through sheet flow during storms. A review of topographic maps and watershed boundary datasets indicates that waters from the study area drain toward Rosamond Dry Lake.

There are no Traditional Navigable Waters (TNWs) or Relatively Permanent Waters (RPWs) in the study area, and the ephemeral desert streams in the study area are not tributaries to RPWs or TNWs. A previous SWANCC watershed-level Approved JD for Antelope Valley (HUC10 #s 1809020609 through 1809020624, excluding those portions of HUC12s 18090206151, 1901902061102, and 180902061103 that drain toward Lake Palmdale and its tributaries) determined that Rosamond, Buckhorn, and Rogers Dry Lakes, and their tributaries, (i.e. the Antelope Valley Watershed, excluding Lake Palmdale and tributaries to Lake Palmdale) are non-jurisdictional waters of the United States under SWANCC. This determination, SPL-2011-01084-SLP, dated June 7, 2013, found that these Antelope Valley waters are not tributary to either a TNW or an (a)(3) water and Rosamond, Buckhorn, and Rogers Dry Lakes are not (a)(3) waters themselves. The Corps made this watershed conclusion because the Antelope Valley watershed is an isolated, intrastate watershed without any surface water related interstate commerce. This previous determination is still in effect, and is appended as a supporting document for this determination.

The above is based upon the review of aerial photographs (Google Earth, accessed July 25, 2017) that also did not show surface water usage of the project drainages or the Rosamond Dry Lake terminus. Since the Rosamond Dry Lake is an intrastate, isolated water without a surface water connection to commerce (see prior AJD file No. SPL-2011-01084-SLP), the subject 14 unnamed ephemeral desert wash stream features, 19 segments of ephemeral ditches, and 140 claypan features, as part of the same overall system, are also isolated and additionally have no nexus to commerce.

Based on the information above, the subject drainages 33 unnamed ephemeral desert stream features (14 unnamed ephemeral desert wash stream features, 19 segments of ephemeral ditches, and 140 claypan features), are NONJURISDICTIONAL waters of the United States, since the waters are NOT tributary to either a TNW or an (a)(3) water and are NOT (a)(3) waters themselves. The Corps makes such a conclusion since the waters are tribuatary to an isolated, intrastate dry lake.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. **TNW**
   Identify TNW: .

   Summarize rationale supporting determination: .

2. **Wetland adjacent to TNW**
   Summarize rationale supporting conclusion that wetland is "adjacent": .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

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

   (ii) Physical Characteristics:
   (a) Relationship with TNW:
   ☐ Tributary flows directly into TNW.
   ☐ Tributary flows through **Pick List** tributaries before entering TNW.

   Project waters are **Pick List** river miles from TNW.
   Project waters are **Pick List** river miles from RPW.
   Project waters are **Pick List** aerial (straight) miles from TNW.
   Project waters are **Pick List** aerial (straight) miles from RPW.
   Project waters cross or serve as state boundaries. Explain: .

   Identify flow route to TNW[5]: .
   Tributary stream order, if known: .

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[4] Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b) General Tributary Characteristics (check all that apply):
Tributary is: ☐ Natural
☐ Artificial (man-made). Explain: .
☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):
Average width: feet
Average depth: feet
Average side slopes: **Pick List.**

Primary tributary substrate composition (check all that apply):
☐ Silts ☐ Sands ☐ Concrete
☐ Cobbles ☐ Gravel ☐ Muck
☐ Bedrock ☐ Vegetation. Type/% cover:
☐ Other. Explain: .

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .
Presence of run/riffle/pool complexes. Explain: .
Tributary geometry: **Pick List**
Tributary gradient (approximate average slope): %

(c) Flow:
Tributary provides for: **Pick List**
Estimate average number of flow events in review area/year: **Pick List**
Describe flow regime: .
Other information on duration and volume: .

Surface flow is: **Pick List.** Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .
☐ Dye (or other) test performed: .

Tributary has (check all that apply):
☐ Bed and banks
☐ OHWM[6] (check all indicators that apply):
☐ clear, natural line impressed on the bank ☐ the presence of litter and debris
☐ changes in the character of soil ☐ destruction of terrestrial vegetation
☐ shelving ☐ the presence of wrack line
☐ vegetation matted down, bent, or absent ☐ sediment sorting
☐ leaf litter disturbed or washed away ☐ scour
☐ sediment deposition ☐ multiple observed or predicted flow events
☐ water staining ☐ abrupt change in plant community
☐ other (list):
☐ Discontinuous OHWM.[7] Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):
☐ High Tide Line indicated by: ☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects ☐ survey to available datum;
☐ fine shell or debris deposits (foreshore) ☐ physical markings;
☐ physical markings/characteristics ☐ vegetation lines/changes in vegetation types.
☐ tidal gauges
☐ other (list):

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Explain: .
Identify specific pollutants, if known: .

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[6]A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
[7]Ibid.

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

- ☐ Riparian corridor. Characteristics (type, average width): .
- ☐ Wetland fringe. Characteristics: .
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

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

(i) Physical Characteristics:

(a) General Wetland Characteristics:

Properties:

Wetland size: acres

Wetland type. Explain: .

Wetland quality. Explain: .

Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:

Flow is: **Pick List**. Explain: .

Surface flow is**: Pick List**

Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .

☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

- ☐ Directly abutting
- ☐ Not directly abutting
  - ☐ Discrete wetland hydrologic connection. Explain: .
  - ☐ Ecological connection. Explain: .
  - ☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW

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

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

Flow is from: **Pick List.**

Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .

Identify specific pollutants, if known: .

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

- ☐ Riparian buffer. Characteristics (type, average width): .
- ☐ Vegetation type/percent cover. Explain: .
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List**

Approximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   ☐ TNWs: linear feet width (ft), Or, acres.
   ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
   ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):
- ☐ Tributary waters: linear feet width (ft).
- ☐ Other non-wetland waters: acres.
  Identify type(s) of waters: .

3. Non-RPWs[8] that flow directly or indirectly into TNWs.

☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):
- ☐ Tributary waters: linear feet width (ft).
- ☐ Other non-wetland waters: acres.
  Identify type(s) of waters: **.**

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
- ☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **.**
- ☐ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

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

☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. Impoundments of jurisdictional waters.[9]

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
- ☐ Demonstrate that impoundment was created from "waters of the U.S.," or
- ☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- ☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]
- ☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
- ☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- ☐ which are or could be used for industrial purposes by industries in interstate commerce.
- ☐ Interstate isolated waters. Explain: .
- ☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

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[8]See Footnote # 3.
[9] To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
[10] Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.*

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: **.**
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☒ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☒ Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
☐ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: **.**
☐ Other: (explain, if not covered above): **.**

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
☒ Non-wetland waters (i.e., rivers, streams): **approximately 9,953** linear feet **averaging 2 to 4 ft in** width (ft).
☐ Lakes/ponds: acres.
☒ Other non-wetland waters: 1.24 acres. List type of aquatic resource: Claypans 0.97 acres and Ditches 0.27 acres.
☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Features are depicted on Map Sheets 139-141, 166, and 168-171 in Appendix E of the submitted delineation. .
☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps: .
☐ Corps navigable waters' study: .
☒ U.S. Geological Survey Hydrologic Atlas: See attached figures for NHD flowlines and HUC boundaries.
☒ USGS NHD data.
☒ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: Rosamond, Palmdale, 7.5 minute quadrangles.
☐ USDA Natural Resources Conservation Service Soil Survey. Citation: .
☐ National wetlands inventory map(s). Cite name: .
☐ State/Local wetland inventory map(s): .
☐ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date): NAIP Imagery 2005 and 2014 at 1-m resolution; LA County Imagery 2011 and 2013 at a 1-foot resolution.
or ☐ Other (Name & Date): .
☒ Previous determination(s). File no. and date of response letter: SPL-2011-01084-SLP, June 7, 2013.
☐ Applicable/supporting case law: .
☐ Applicable/supporting scientific literature: .
☒ Other information (please specify): Aquatic Resources Delineation Report prepared by the applicant/consultant references additional materials; also Appendix E contains map sheets; Appendix F contains dimensions. HUC watershed maps of review areas with NHD Data provided by the applicant/consultant; general use of NAIP Imagery 2009, 2010, and 2012 at 1-m resolution; LA County Imagery 2015 at 1-foot resolution; 2015 Site specific IR Imagery, 3-inch color pixel; Bing Aerial Imagery - multiple years (scale

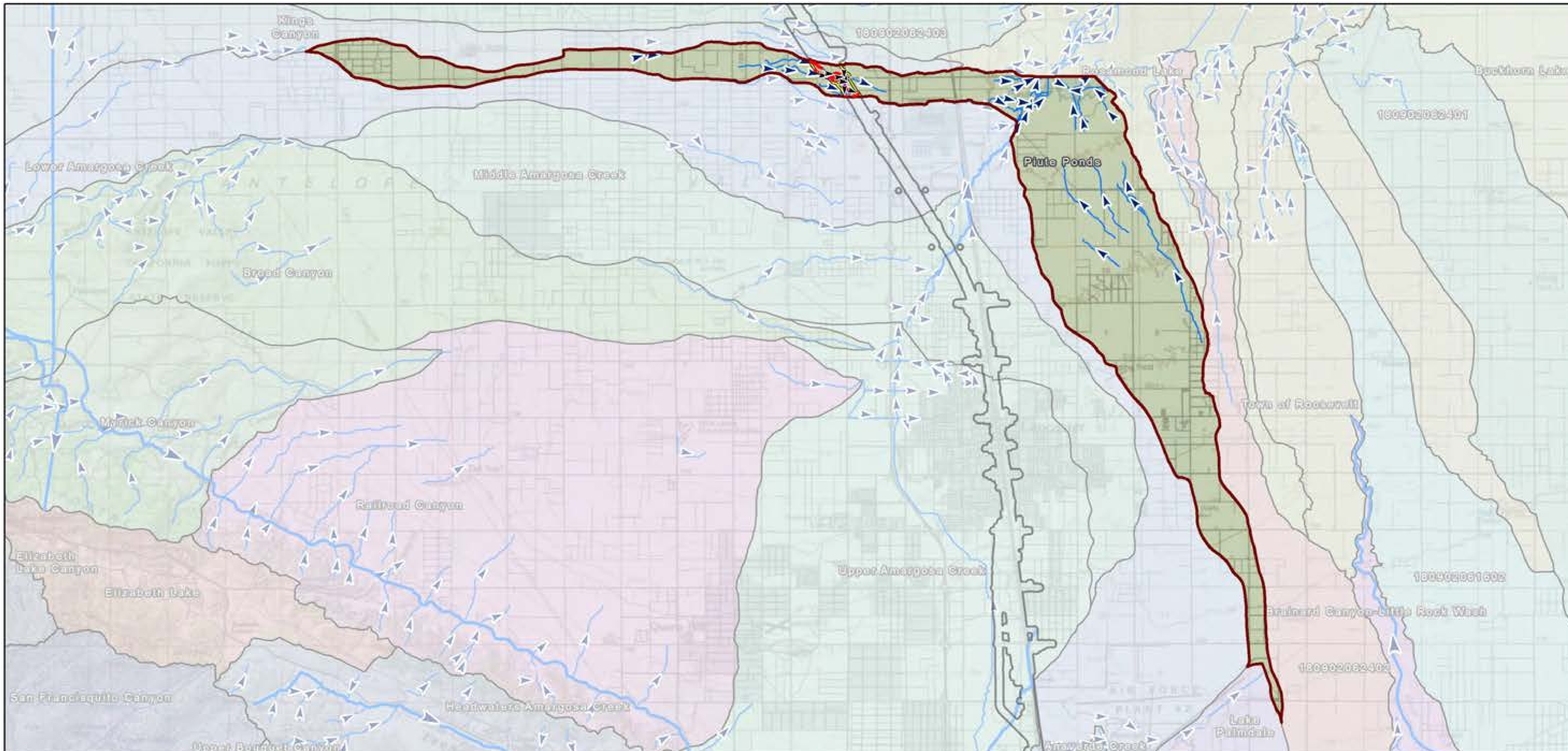
dependent); ESRI World Imagery (streaming service) multiple years (scale dependent); Google Earth Historic Photos (used for reference and includes portions from above listed sources).

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Waters_Name	Cowardin_Code	HGM_Code	Amount	Units	Waters_Type	Latitude	Longitude
Str_0375	R6	RIVERINE	0.14	ACRE	ISOLATE	34.79476795	-118.1935542
Str_0383-001	R6	RIVERINE	0.1	SQ_FT	ISOLATE	34.79313089	-118.1935022
Str_0383-002	R6	RIVERINE	15	SQ_FT	ISOLATE	34.79313387	-118.193526
Str_0383-003	R6	RIVERINE	104	SQ_FT	ISOLATE	34.79314576	-118.1936325
Str_0383-004	R6	RIVERINE	0.01	ACRE	ISOLATE	34.79335376	-118.1938654
Str_0384	R6	RIVERINE	39	SQ_FT	ISOLATE	34.79321644	-118.1938732
Str_0385	R6	RIVERINE	0.03	ACRE	ISOLATE	34.79253608	-118.1923106
Str_0386	R6	RIVERINE	0.04	ACRE	ISOLATE	34.79198903	-118.1903849
Ditch_0387-001	R6	RIVERINE	0.04	ACRE	ISOLATE	34.79137	-118.1895874
Ditch_0387-002	R6	RIVERINE	133	SQ_FT	ISOLATE	34.79146775	-118.1878928
Ditch_0387-003	R6	RIVERINE	0.7	SQ_FT	ISOLATE	34.7914777	-118.1877988
Ditch_0387-004	R6	RIVERINE	0.03	ACRE	ISOLATE	34.79149783	-118.1870111
Ditch_0387-005	R6	RIVERINE	4	SQ_FT	ISOLATE	34.79151643	-118.1861691
Str_0388	R6	RIVERINE	0.17	ACRE	ISOLATE	34.79255307	-118.1875324
Str_0389	R6	RIVERINE	0.08	ACRE	ISOLATE	34.79157185	-118.1874733
Str_0390	R6	RIVERINE	0.07	ACRE	ISOLATE	34.79095079	-118.1869502
Ditch_0391	R6	RIVERINE	0.04	ACRE	ISOLATE	34.79123813	-118.1856591
Ditch_0392-001	R6	RIVERINE	0.2	SQ_FT	ISOLATE	34.7883347	-118.1847854
Ditch_0392-002	R6	RIVERINE	110	SQ_FT	ISOLATE	34.78829137	-118.1847917
Ditch_0392-003	R6	RIVERINE	3	SQ_FT	ISOLATE	34.78835793	-118.1847869
Ditch_0392-004	R6	RIVERINE	315	SQ_FT	ISOLATE	34.78859215	-118.1847965
Ditch_0392-005	R6	RIVERINE	16	SQ_FT	ISOLATE	34.78929259	-118.1847988
Ditch_0392-006	R6	RIVERINE	0.02	ACRE	ISOLATE	34.78944706	-118.1847984
Ditch_0392-007	R6	RIVERINE	57	SQ_FT	ISOLATE	34.79081904	-118.1848122
Ditch_0392-008	R6	RIVERINE	8	SQ_FT	ISOLATE	34.79088403	-118.1848133
Ditch_0392-009	R6	RIVERINE	2	SQ_FT	ISOLATE	34.7909082	-118.1848141
Ditch_0392-010	R6	RIVERINE	271	SQ_FT	ISOLATE	34.79114743	-118.1848141
Ditch_0393	R6	RIVERINE	0.05	ACRE	ISOLATE	34.79246143	-118.1847958
Ditch_0394	R6	RIVERINE	0.04	ACRE	ISOLATE	34.79228552	-118.1845449
Ditch_0395	R6	RIVERINE	0.03	ACRE	ISOLATE	34.79151897	-118.1839038
Str_0396	R6	RIVERINE	0.08	ACRE	ISOLATE	34.78777903	-118.1823926
Str_0397b	R6	RIVERINE	0.01	ACRE	ISOLATE	34.7866508	-118.1841345
Str_0398a	R6	RIVERINE	0.02	ACRE	ISOLATE	34.7867349	-118.181833
CP_1400	PUB	DEPRESS	38	SQ_FT	ISOLATE	34.795211	-118.194843
CP_1426	PUB	DEPRESS	210	SQ_FT	ISOLATE	34.795178	-118.192932
CP_1529	PUB	DEPRESS	55	SQ_FT	ISOLATE	34.793186	-118.193713
CP_1530	PUB	DEPRESS	22	SQ_FT	ISOLATE	34.79313	-118.193551
CP_1531	PUB	DEPRESS	600	SQ_FT	ISOLATE	34.79434	-118.193523
CP_1532	PUB	DEPRESS	58	SQ_FT	ISOLATE	34.793135	-118.193503
CP_1533	PUB	DEPRESS	96	SQ_FT	ISOLATE	34.794641	-118.193421
CP_1534	PUB	DEPRESS	16	SQ_FT	ISOLATE	34.794516	-118.193262
CP_1535	PUB	DEPRESS	29	SQ_FT	ISOLATE	34.792382	-118.192192
CP_1536	PUB	DEPRESS	8	SQ_FT	ISOLATE	34.792866	-118.191899
CP_1537	PUB	DEPRESS	32	SQ_FT	ISOLATE	34.792884	-118.191828
CP_1538	PUB	DEPRESS	141	SQ_FT	ISOLATE	34.792398	-118.191435
CP_1539	PUB	DEPRESS	493	SQ_FT	ISOLATE	34.792492	-118.191428
CP_1540	PUB	DEPRESS	45	SQ_FT	ISOLATE	34.79201	-118.191223
CP_1541-001	PUB	DEPRESS	0.2	SQ_FT	ISOLATE	34.791995	-118.191006
CP_1541-002	PUB	DEPRESS	157	SQ_FT	ISOLATE	34.791995	-118.191006
CP_1541-003	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.791995	-118.191006
CP_1541-004	PUB	DEPRESS	107	SQ_FT	ISOLATE	34.791995	-118.191006
CP_1542	PUB	DEPRESS	48	SQ_FT	ISOLATE	34.792546	-118.190968
CP_1543	PUB	DEPRESS	65	SQ_FT	ISOLATE	34.792522	-118.190884
CP_1544	PUB	DEPRESS	16	SQ_FT	ISOLATE	34.792868	-118.190525
CP_1545	PUB	DEPRESS	40	SQ_FT	ISOLATE	34.792252	-118.190519
CP_1546	PUB	DEPRESS	117	SQ_FT	ISOLATE	34.791772	-118.190294
CP_1547	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.793171	-118.19015
CP_1548	PUB	DEPRESS	52	SQ_FT	ISOLATE	34.791714	-118.189891
CP_1549	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.792514	-118.189705
CP_1550-001	PUB	DEPRESS	16	SQ_FT	ISOLATE	34.791645	-118.189571

CP_1550-002	PUB	DEPRESS	17	SQ_FT	ISOLATE	34.791645	-118.189571
CP_1551-001	PUB	DEPRESS	11	SQ_FT	ISOLATE	34.791622	-118.1895
CP_1551-002	PUB	DEPRESS	10	SQ_FT	ISOLATE	34.791622	-118.1895
CP_1552	PUB	DEPRESS	36	SQ_FT	ISOLATE	34.793681	-118.189265
CP_1553-001	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.791384	-118.189233
CP_1553-002	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.791384	-118.189233
CP_1554	PUB	DEPRESS	24	SQ_FT	ISOLATE	34.791397	-118.189229
CP_1555	PUB	DEPRESS	86	SQ_FT	ISOLATE	34.791944	-118.189189
CP_1556	PUB	DEPRESS	105	SQ_FT	ISOLATE	34.79139	-118.188966
CP_1557	PUB	DEPRESS	31	SQ_FT	ISOLATE	34.790531	-118.188824
CP_1558	PUB	DEPRESS	631	SQ_FT	ISOLATE	34.791071	-118.188525
CP_1559	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.791786	-118.188473
CP_1560	PUB	DEPRESS	153	SQ_FT	ISOLATE	34.791298	-118.18811
CP_1561	PUB	DEPRESS	42	SQ_FT	ISOLATE	34.791533	-118.188107
CP_1562	PUB	DEPRESS	91	SQ_FT	ISOLATE	34.791534	-118.188031
CP_1563	PUB	DEPRESS	71	SQ_FT	ISOLATE	34.791463	-118.187992
CP_1564	PUB	DEPRESS	11	SQ_FT	ISOLATE	34.790498	-118.187845
CP_1565	PUB	DEPRESS	27	SQ_FT	ISOLATE	34.791473	-118.187814
CP_1566	PUB	DEPRESS	59	SQ_FT	ISOLATE	34.790308	-118.187807
CP_1567	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.791983	-118.187789
CP_1568	PUB	DEPRESS	9	SQ_FT	ISOLATE	34.790424	-118.1877
CP_1569	PUB	DEPRESS	34	SQ_FT	ISOLATE	34.790399	-118.187675
CP_1570	PUB	DEPRESS	416	SQ_FT	ISOLATE	34.791142	-118.187584
CP_1571	PUB	DEPRESS	1736	SQ_FT	ISOLATE	34.794322	-118.187541
CP_1572	PUB	DEPRESS	20	SQ_FT	ISOLATE	34.790393	-118.187461
CP_1573	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.790408	-118.187454
CP_1574	PUB	DEPRESS	36	SQ_FT	ISOLATE	34.790374	-118.187441
CP_1575	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.790379	-118.187433
CP_1576	PUB	DEPRESS	5	SQ_FT	ISOLATE	34.790377	-118.187424
CP_1577	PUB	DEPRESS	113	SQ_FT	ISOLATE	34.791186	-118.18734
CP_1578	PUB	DEPRESS	6	SQ_FT	ISOLATE	34.793439	-118.187256
CP_1579	PUB	DEPRESS	39	SQ_FT	ISOLATE	34.791167	-118.187218
CP_1580	PUB	DEPRESS	344	SQ_FT	ISOLATE	34.79348	-118.187141
CP_1581	PUB	DEPRESS	124	SQ_FT	ISOLATE	34.7913	-118.187117
CP_1582	PUB	DEPRESS	296	SQ_FT	ISOLATE	34.79115	-118.186932
CP_1583	PUB	DEPRESS	51	SQ_FT	ISOLATE	34.794379	-118.186873
CP_1584	PUB	DEPRESS	34	SQ_FT	ISOLATE	34.794409	-118.186788
CP_1585	PUB	DEPRESS	12	SQ_FT	ISOLATE	34.790333	-118.186706
CP_1586	PUB	DEPRESS	48	SQ_FT	ISOLATE	34.794401	-118.186687
CP_1587	PUB	DEPRESS	129	SQ_FT	ISOLATE	34.791504	-118.186154
CP_1588	PUB	DEPRESS	491	SQ_FT	ISOLATE	34.794379	-118.186033
CP_1589	PUB	DEPRESS	33	SQ_FT	ISOLATE	34.789683	-118.185999
CP_1590	PUB	DEPRESS	133	SQ_FT	ISOLATE	34.791456	-118.185869
CP_1591	PUB	DEPRESS	4885	SQ_FT	ISOLATE	34.788818	-118.185659
CP_1592	PUB	DEPRESS	49	SQ_FT	ISOLATE	34.789038	-118.185626
CP_1593	PUB	DEPRESS	42	SQ_FT	ISOLATE	34.78897	-118.185469
CP_1594	PUB	DEPRESS	96	SQ_FT	ISOLATE	34.789166	-118.185443
CP_1595	PUB	DEPRESS	479	SQ_FT	ISOLATE	34.789223	-118.185409
CP_1596	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.789846	-118.185193
CP_1597	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.789844	-118.185141
CP_1598	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.791639	-118.185131
CP_1599	PUB	DEPRESS	91	SQ_FT	ISOLATE	34.789333	-118.185126
CP_1600	PUB	DEPRESS	20	SQ_FT	ISOLATE	34.791629	-118.185098
CP_1601	PUB	DEPRESS	5028	SQ_FT	ISOLATE	34.788774	-118.185035
CP_1602	PUB	DEPRESS	83	SQ_FT	ISOLATE	34.789988	-118.184997
CP_1603	PUB	DEPRESS	1052	SQ_FT	ISOLATE	34.789296	-118.18492
CP_1604	PUB	DEPRESS	57	SQ_FT	ISOLATE	34.790044	-118.184874
CP_1605	PUB	DEPRESS	292	SQ_FT	ISOLATE	34.789515	-118.184815
CP_1606	PUB	DEPRESS	0.1	SQ_FT	ISOLATE	34.789426	-118.184808
CP_1607	PUB	DEPRESS	3212	SQ_FT	ISOLATE	34.789011	-118.184806
CP_1608	PUB	DEPRESS	1783	SQ_FT	ISOLATE	34.790654	-118.184806
CP_1609	PUB	DEPRESS	82	SQ_FT	ISOLATE	34.789657	-118.184631
CP_1610	PUB	DEPRESS	10	SQ_FT	ISOLATE	34.789584	-118.184628
CP_1611	PUB	DEPRESS	727	SQ_FT	ISOLATE	34.788756	-118.184414
CP_1612	PUB	DEPRESS	154	SQ_FT	ISOLATE	34.790012	-118.184132
CP_1613	PUB	DEPRESS	373	SQ_FT	ISOLATE	34.789952	-118.184124

CP_1614	PUB	DEPRESS	40	SQ_FT	ISOLATE	34.789428	-118.184049
CP_1615	PUB	DEPRESS	93	SQ_FT	ISOLATE	34.788893	-118.18394
CP_1616	PUB	DEPRESS	170	SQ_FT	ISOLATE	34.788803	-118.183776
CP_1617	PUB	DEPRESS	5	SQ_FT	ISOLATE	34.79002	-118.18365
CP_1618	PUB	DEPRESS	27	SQ_FT	ISOLATE	34.789235	-118.183645
CP_1619	PUB	DEPRESS	348	SQ_FT	ISOLATE	34.789292	-118.183361
CP_1620	PUB	DEPRESS	3270	SQ_FT	ISOLATE	34.788487	-118.185729
CP_1621	PUB	DEPRESS	174	SQ_FT	ISOLATE	34.788486	-118.184989
CP_1622	PUB	DEPRESS	322	SQ_FT	ISOLATE	34.787766	-118.184896
CP_1623	PUB	DEPRESS	36	SQ_FT	ISOLATE	34.788779	-118.184857
CP_1624	PUB	DEPRESS	165	SQ_FT	ISOLATE	34.788386	-118.18479
CP_1625	PUB	DEPRESS	4189	SQ_FT	ISOLATE	34.787654	-118.184789
CP_1626	PUB	DEPRESS	459	SQ_FT	ISOLATE	34.788059	-118.184263
CP_1627	PUB	DEPRESS	254	SQ_FT	ISOLATE	34.788156	-118.184206
CP_1628	PUB	DEPRESS	553	SQ_FT	ISOLATE	34.78692	-118.18394
CP_1629	PUB	DEPRESS	30	SQ_FT	ISOLATE	34.790107	-118.183302
CP_1630-001	PUB	DEPRESS	23	SQ_FT	ISOLATE	34.786479	-118.183159
CP_1632	PUB	DEPRESS	38	SQ_FT	ISOLATE	34.788562	-118.183092
CP_1633-001	PUB	DEPRESS	13	SQ_FT	ISOLATE	34.789626	-118.183068
CP_1633-002	PUB	DEPRESS	1	SQ_FT	ISOLATE	34.789626	-118.183068
CP_1636	PUB	DEPRESS	7	SQ_FT	ISOLATE	34.78959	-118.183036
CP_1638	PUB	DEPRESS	2	SQ_FT	ISOLATE	34.789894	-118.182989
CP_1639	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.789803	-118.182948
CP_1640	PUB	DEPRESS	17	SQ_FT	ISOLATE	34.789528	-118.182935
CP_1641	PUB	DEPRESS	324	SQ_FT	ISOLATE	34.789462	-118.182796
CP_1642	PUB	DEPRESS	73	SQ_FT	ISOLATE	34.789282	-118.182777
CP_1643	PUB	DEPRESS	18	SQ_FT	ISOLATE	34.789322	-118.182766
CP_1644	PUB	DEPRESS	18	SQ_FT	ISOLATE	34.789355	-118.182747
CP_1645	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.789357	-118.182718
CP_1646	PUB	DEPRESS	870	SQ_FT	ISOLATE	34.789402	-118.18264
CP_1647	PUB	DEPRESS	22	SQ_FT	ISOLATE	34.787315	-118.1826
CP_1648	PUB	DEPRESS	38	SQ_FT	ISOLATE	34.787254	-118.182569
CP_1649	PUB	DEPRESS	61	SQ_FT	ISOLATE	34.788559	-118.182481
CP_1650	PUB	DEPRESS	49	SQ_FT	ISOLATE	34.788417	-118.182452
CP_1651	PUB	DEPRESS	88	SQ_FT	ISOLATE	34.789382	-118.182426
CP_1652	PUB	DEPRESS	184	SQ_FT	ISOLATE	34.789427	-118.182393
CP_1653	PUB	DEPRESS	48	SQ_FT	ISOLATE	34.788582	-118.182392
CP_1654	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.789349	-118.182328
CP_1655	PUB	DEPRESS	3	SQ_FT	ISOLATE	34.78935	-118.182318
CP_1656	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.789377	-118.182293
CP_1657	PUB	DEPRESS	74	SQ_FT	ISOLATE	34.789326	-118.18225
CP_1658	PUB	DEPRESS	288	SQ_FT	ISOLATE	34.789279	-118.18216
CP_1659	PUB	DEPRESS	31	SQ_FT	ISOLATE	34.788124	-118.182064
CP_1660	PUB	DEPRESS	15	SQ_FT	ISOLATE	34.789211	-118.181999
CP_1661	PUB	DEPRESS	347	SQ_FT	ISOLATE	34.78806	-118.181976
CP_1662	PUB	DEPRESS	1508	SQ_FT	ISOLATE	34.788685	-118.181958
CP_1664	PUB	DEPRESS	1264	SQ_FT	ISOLATE	34.789005	-118.181885.



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 15, 2016

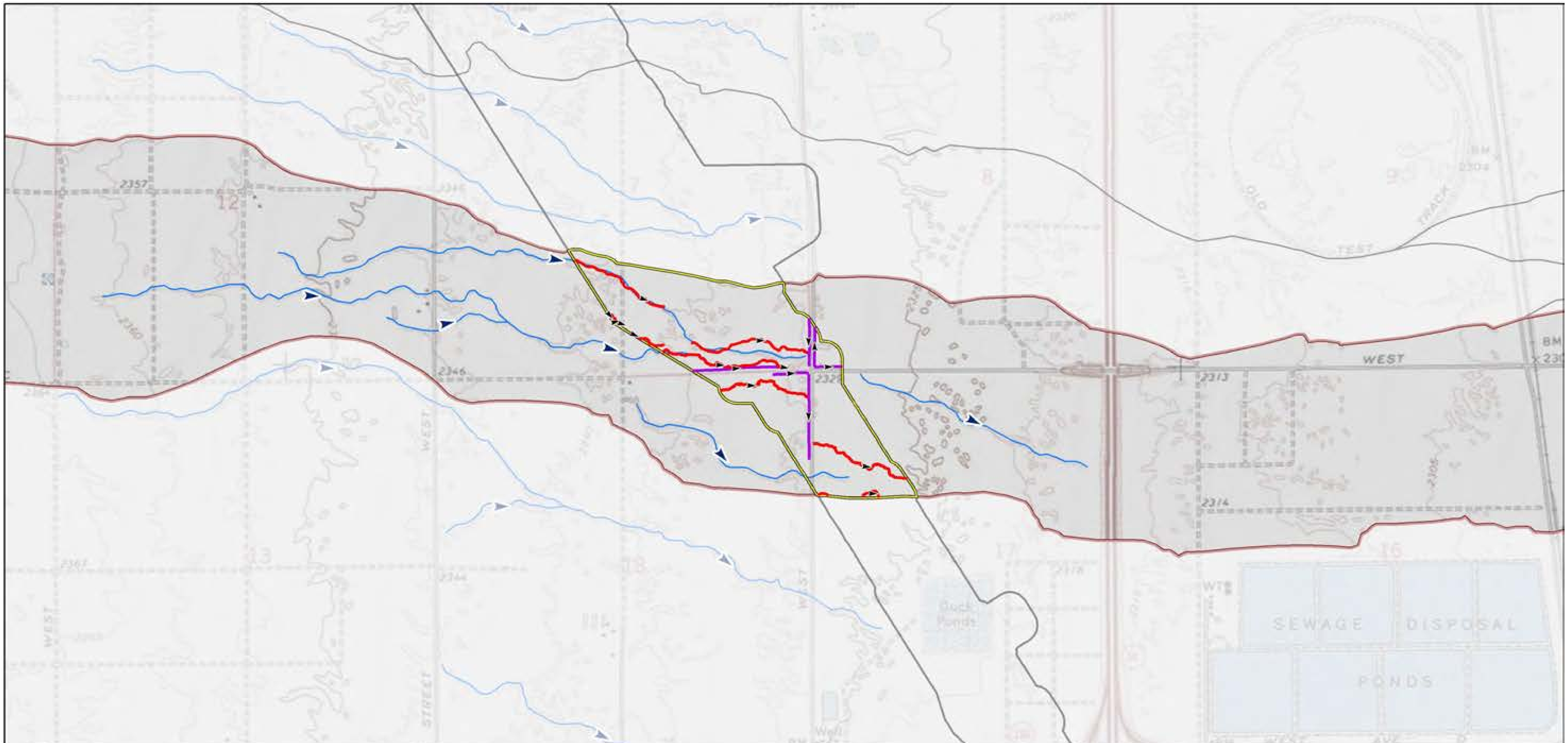
N

0 1 2 Miles
0 1.5 3 Kilometers

BP HSR Mapped Streams with OHWM in Piute Ponds Watershed Study Area

- Ephemeral Stream
- Ditch
- Study Area in the Piute Ponds Watershed
- Piute Ponds Watershed HUC-12
- Other HUC-12 Watersheds
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines

Piute Ponds Watershed Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

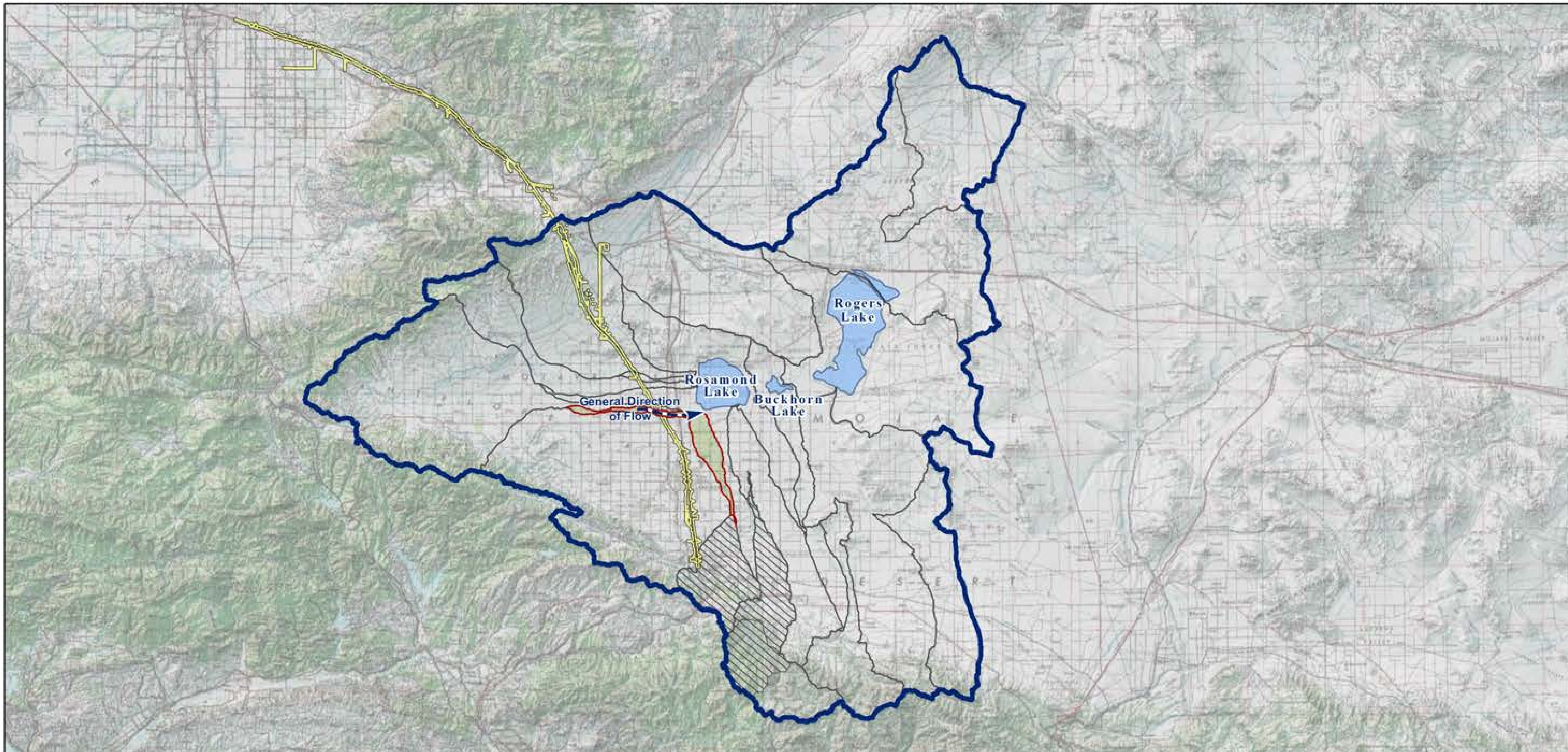
November 18, 2016

0 0.15 0.3 Miles
0 0.25 0.5 Kilometers

BP HSR Mapped Streams with OHWM in Piute Ponds Watershed Study Area

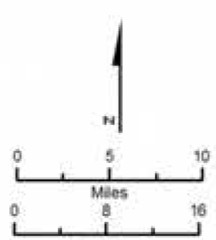
- Ephemeral Stream
- Ditch
- Study Area in the Piute Ponds Watershed
- Piute Ponds Watershed HUC-12
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines

Piute Ponds Watershed
Study Area Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 17, 2016



Piute Ponds Watershed HUC-12

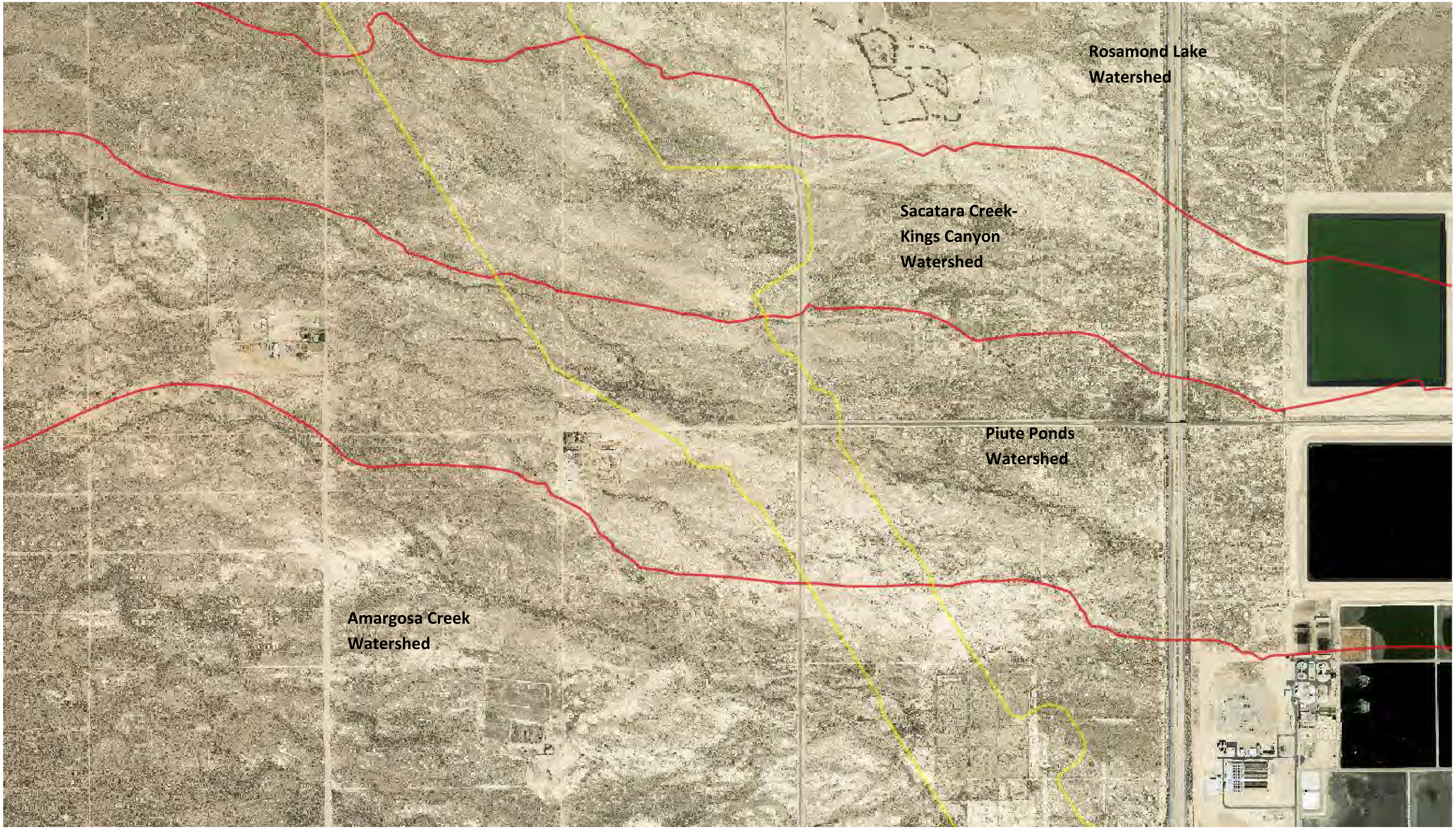
Antelope Valley Watershed (as described in SPL-2011-01084-SLP)

HUC-12 Watersheds excluded from SPL-2011-01084-SLP

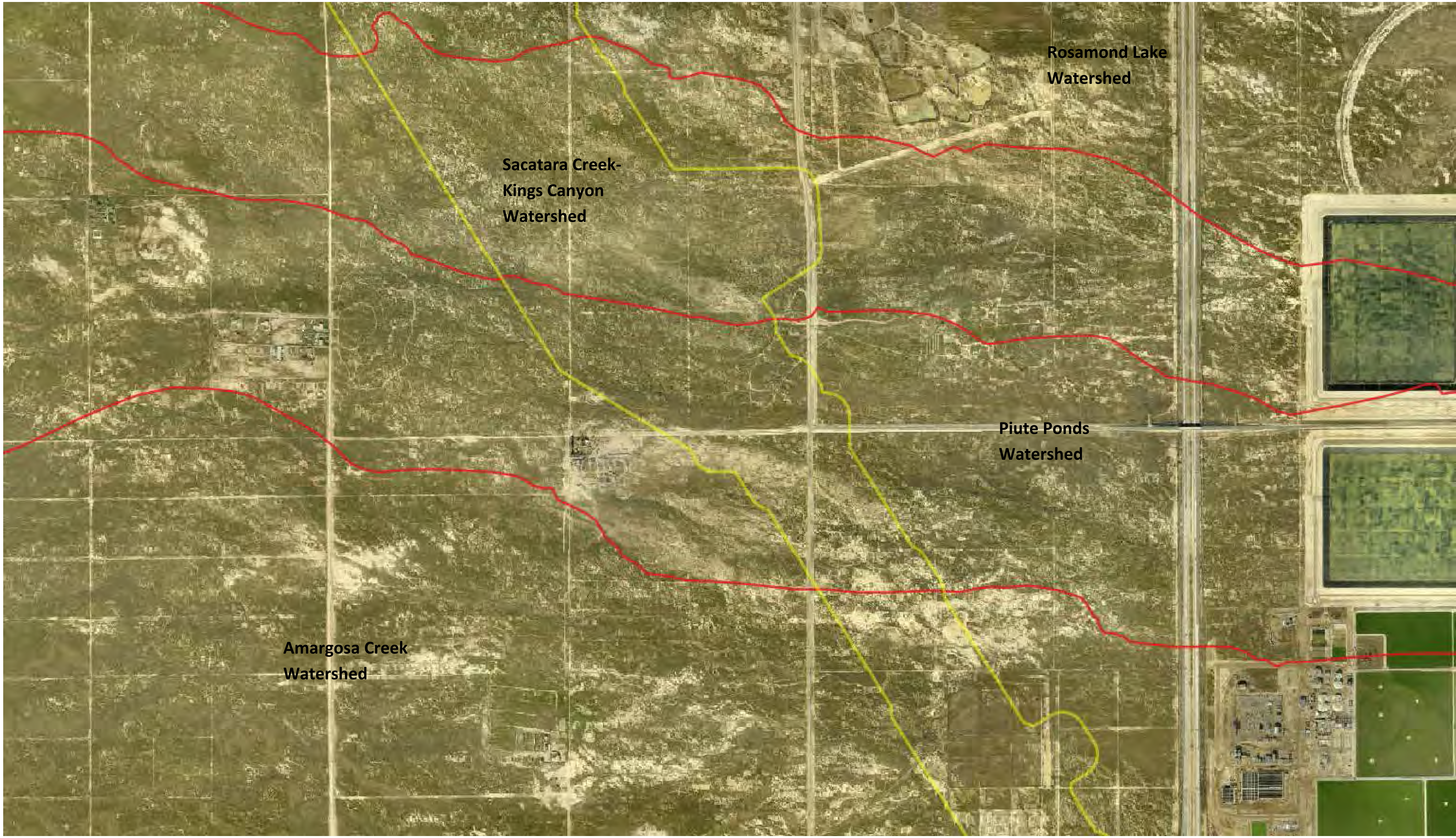
Wetlands Study Area (Project Footprint + 250 ft Buffer)

The U.S. Army Corps of Engineers issued a SWANCC watershed-level Approved Jurisdictional Determination for Antelope Valley (HUC 10 #s 1809020609 through 1809020624) on June 7, 2013. Note that this determination specifically excluded the areas of Lake Palmdale and all waters tributary to Lake Palmdale (portions of HUC 12 #s 180902061501, 180902061102, 180902061103). This figure illustrates the location of the study area relative to the previous watershed-level decision.

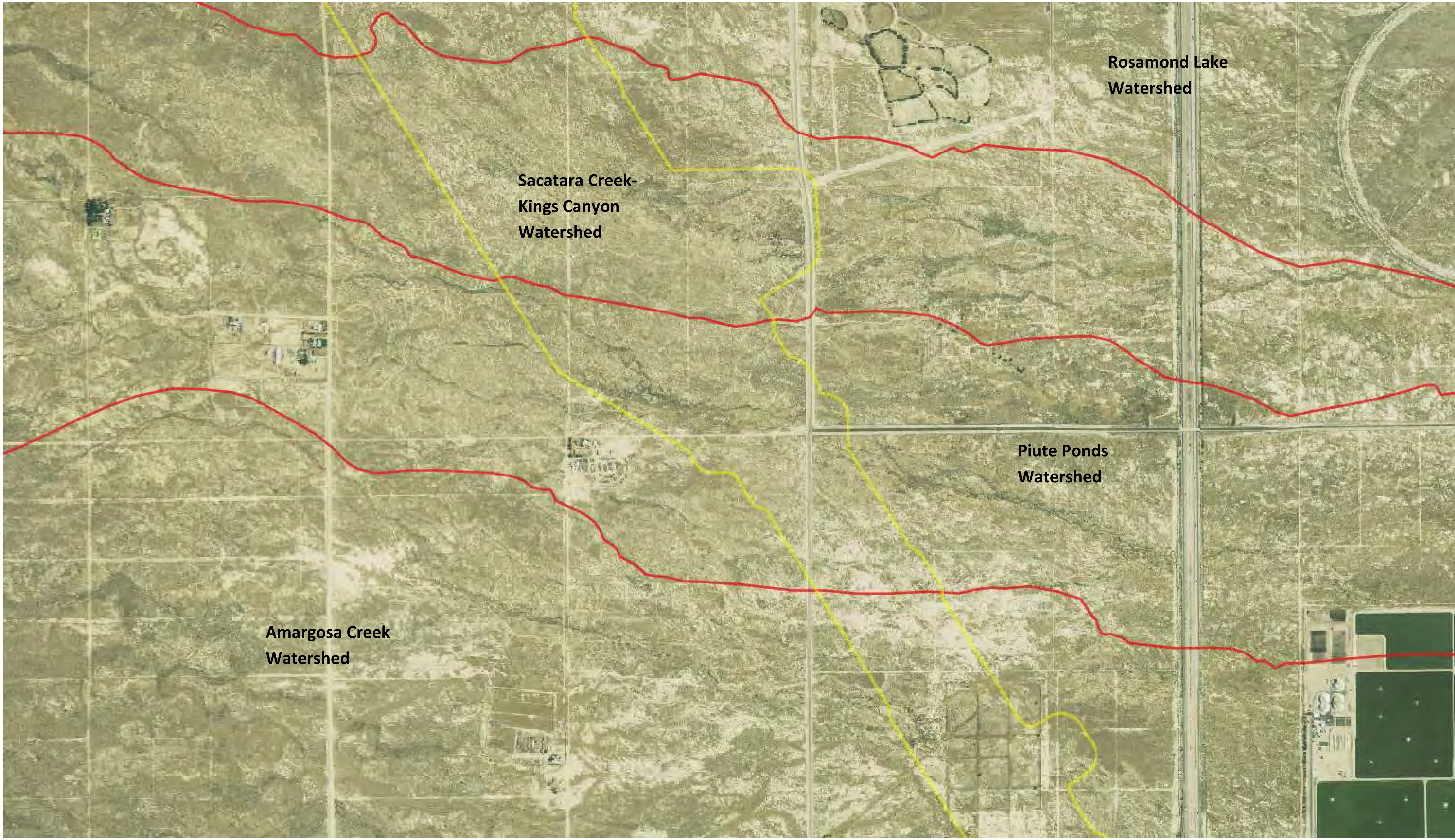
Piute Ponds Watershed
Location Within Antelope Valley Watershed



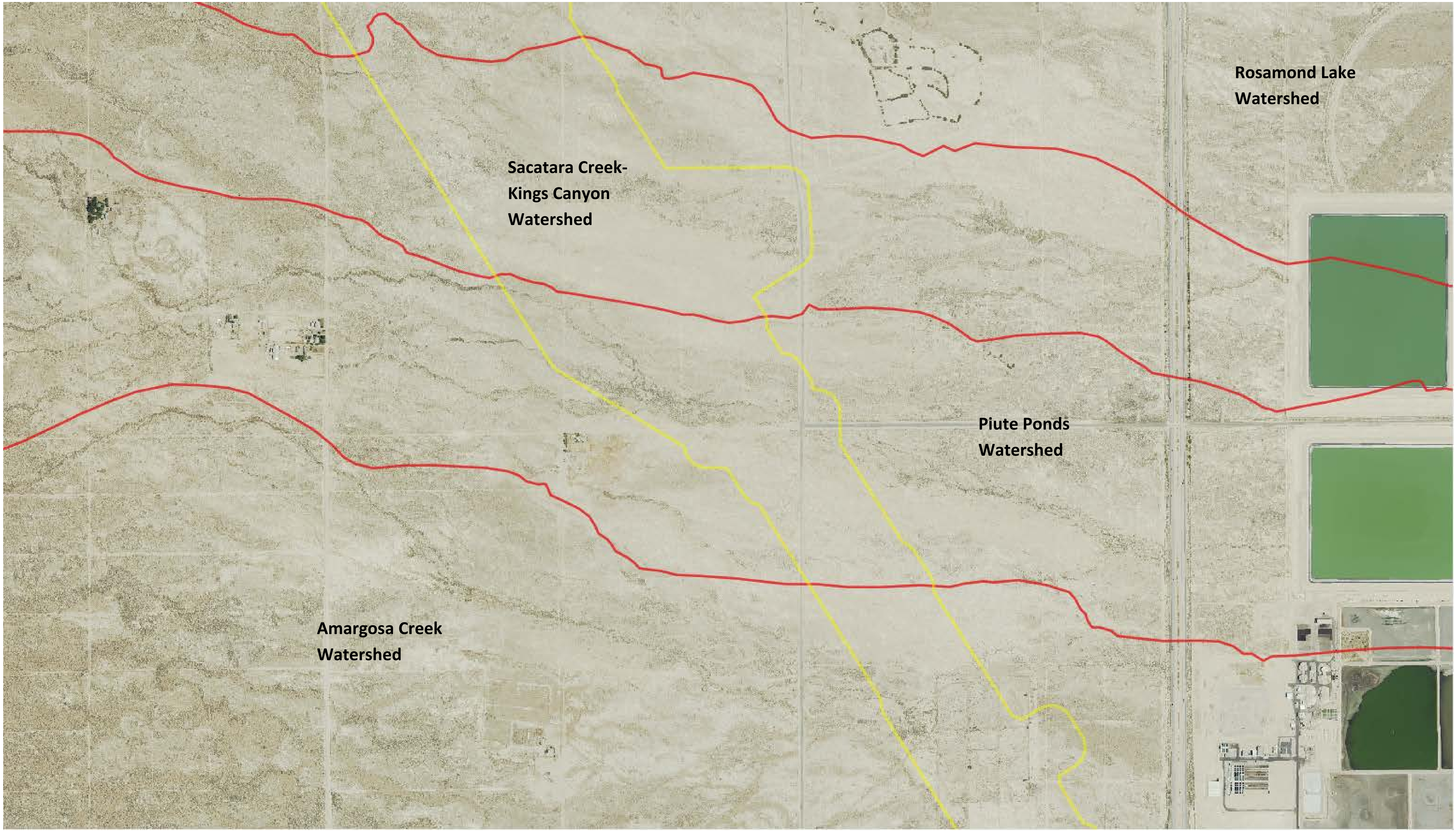
Los Angeles County 2013 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.



Los Angeles County 2011 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.



NAIP 2005 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.



NAIP 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.

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

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

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): August 25, 2017

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: SPL-2010-00945-VCL-JD-8

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: CA County/parish/borough: Los Angeles County City: N/A
Center coordinates of site (lat/long in degree decimal format): Lat. 34.686462° N, Long. 118.135180° W.
Universal Transverse Mercator: 396017 m E, 3838860 m N
Name of nearest waterbody: Amargosa Creek
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A
Name of watershed or Hydrologic Unit Code (HUC): Amargosa Creek, California, 1809020614
☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☒ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form.

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

☒ Office (Desk) Determination. Date: July 25, 2017
☐ Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]

☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are no** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
      ☐ TNWs, including territorial seas
      ☐ Wetlands adjacent to TNWs
      ☐ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
      ☐ Non-RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      ☐ Impoundments of jurisdictional waters
      ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
      Non-wetland waters: linear feet: width (ft) and/or acres.
      Wetlands: acres.

   c. **Limits (boundaries) of jurisdiction** based on: **Not Applicable.**
      Elevation of established OHWM (if known): .

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

Within the project area of the Amargosa Creek HUC 10, there are a total of 1,843 aquatic features. These features include two forks of Amargosa Creek, specifically 6 segments of desert wash and 3 segments of ditches, as well as 29 unnamed ephemeral desert wash stream features, 21 additional ephemeral ditches, one seasonal wetland, 10 basins, 1,667 claypan features, and 106 ponded features. Amargosa Creek is the only named stream that crosses through the study area. Two forks of this creek cross

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[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

the study area: one fork crosses north of Lancaster near W Avenue F, and the other fork crosses south of Lancaster near Sierra Highway, before being routed into a system of ditches. Together these segments of Amargosa Creek span a total of 8,664 linear feet (1.64 miles) and cover approximately 1.91 acre. Other ephemeral desert wash streams span a total of approximately 17,837 linear feet (3.38 miles) and cover approximately 4.02 acre; ephemeral ditches span a total of approximately 24,334 linear feet (4.61 mile), and cover approximately 3.63 acre; the seasonal wetland covers approximately 0.32 acre; and claypan features cover approximately 5.83 acres. Basins cover approximately 14.93 acres. Features of ponding cover approximately 1.40 acre. These features are quantified in this analysis and identified in the attached report to demonstrate that all surface aquatic resources in the study area were evaluated to determine their type, water source, and investigate for connections to waters of the U.S. Labeled maps and tables of features and dimensions are provided in the Aquatic Resources Delineation Report, which identifies each feature according to which HUC-10 watershed it occurs within.

Amargosa Creek segments, labeled AmargosaCreek_0411, AmargosaCreek_0437-001 through -004, AmargosaCreek_0438, and AmargosaCrk_Ditch_0430 through _0432, flow northeast toward Rosamond Dry Lake. These stream and ditch segments carry only ephemeral flow in the study area. The unnamed ephemeral desert washes, features Str_0397 through Str_0410, Str_0427 through _0428, Str_0433 through _0436, Str_0447 through_0451, Str_0453, Str_0455, and Str_0456 generally flow east–northeast within the study area. These aquatic features continue to flow northeast outside the study area toward Rosamond Dry Lake. The ephemeral ditches, Ditch_0416 through _0419, Ditch_0421 through 0422, Ditch_0424 through _0425, Ditch_0429, Ditch_0441 through _0444, Ditch_0452, Ditch_0454, and Ditch_0457 through Ditch_0460, are located along road shoulders and generally flow along roadsides until reaching culverts where the water flows under the road, or low points where the water flows across the road, rejoining natural features or sheet flow that convey the water farther northeast east toward Rosamond Dry Lake. Note that several stream and ditch features have multiple segments and are labeled as such in attached tables (e.g. Ditch_0421-001, Ditch_0421-002, etc.). Most of the ephemeral desert wash and ditch features dissipate and do not have defined channels that can be traced all the way down to the terminal point in the watershed. These features are similar to many other streams in the Antelope Valley Watershed that have well-defined channels where they originate in the mountains and foothills, but dissipate on the valley floor, where water movement during storms is primarily sheet flow.

Ephemeral and intermittent claypan features, features labeled "CP_" in the attached ORM sheet (CP_1630, CP_1631, CP_1634-001, CP_1634-002, CP_1635, CP_1637 (five segments), CP_1663, CP_1665 through CP_2774, CP_2777 through CP_2779, CP_2781, CP_2783, CP_2784, CP_2787 through CP_2792, CP2796 through CP_2797, CP_2799, CP_2801, CP_2805, CP_2809 through CP_2953, CP_2966 through CP_2971, CP_2975 through CP_2977, CP_2979 through CP_2982, CP_2986 through CP_2987, CP_2989 through CP_2993, CP_2995 through CP_2999, CP_3001 through CP_3021, CP_3023, CP_3025, CP_3026, CP_3028 through CP_3063, CP_3065, CP_3067 through CP_3068, CP_3070, CP_3072 through CP_3074, CP_3076 through CP_3078, CP_3081 through CP_3085, CP_3087 through CP_3090, CP_3092, CP_3096 through CP_3181, CP_3185-001 and -002, CP_3191 through CP_3229, CP_3231 through CP_3232, CP_3234 through CP_3290, CP_3292, CP_3295 through CP_3300, CP_3302 through CP_3315, and CP3347-039 through CP_3353-002; multiple segments labeled as previously noted), are scattered throughout the study area due to the relatively flat topography. These low-lying depressional features are ephemeral or intermittent, and typically hold water for a few weeks annually.

There were 106 areas of ponding identified in the study area which are features labeled "PD_" in the attached ORM sheet (PD_2775 through_2776, PD_2780, PD_2782, PD_2785 through PD_2786, PD_2793 through PD_2795, PD_2798, PD_2800, PD_2802 through PD_2804, PD_2806 through PD_2808, PD_2948 through PD_2952, PD_2954 through PD_2965, PD_2972 through PD_2974, PD_2978, PD_2983 through PD_2985, PD_2988, PD_2994, PD_3000, PD_3022, PD_3024, PD_3027, PD_3064, PD_3066, PD_3069, PD_3071, PD_3075, PD_3079, PD_3080, PD_3086, PD_3091, PD_3093 through PD_3095, PD_3182 through PD_3184, PD_3186, PD_3187, PD_3188, PD_3189, PD_3190, PD_3230, PD_3233, PD_3276 through PD_3289, PD_3291, PD_3293, PD_3294, PD_3301, and PD_3316 through PD_3332), and that hold water for at least fourteen days after storms. These intermittent features generally hold water for a few weeks similar to claypans.

Ten basins, Basin_0412 through _0415, Basin_0420, Basin_0423, Basin_0439 through _0440, and Basin_0445 through _0446, are isolated, constructed features that appear to be stormwater detention/retention basins. Some basins hold water for only a short duration, while others appear to be perennially wet based on review of aerial imagery.

The seasonal wetland, SW_0426, is in a low swale adjacent to an existing commercial development near Division Street, with a few inches of surface water periodically present, supporting hydrophytic vegetation. The feature appears to be supplemented by urban runoff from adjacent landscaping. It is not adjacent to a stream or ditch. Water leaves the site primarily through evaporation.

Nearly all aquatic features within the study area are ephemeral or intermittent (only a few may be potentially perennial) and all the aqautic features are not used for commerce. The hydrologic connection to the low point in the Antelope Valley watershed, Rogers, Rosamond, and Buckhorn Dry Lakes, is primarily through sheet flow during storms. A review of topographic maps and watershed boundary datasets indicates that waters from the study area drain toward Rosamond Dry Lake.

There are no Traditional Navigable Waters (TNWs) or Relatively Permanent Waters (RPWs) in the study area, and the ephemeral desert streams in the study area are not tributaries to RPWs or TNWs. A previous SWANCC watershed-level Approved JD for Antelope Valley (HUC10 #s 1809020609 through 1809020624, excluding those portions of HUC12s 18090206151, 1901902061102, and 180902061103 that drain toward Lake Palmdale and its tributaries) determined that Rosamond, Buckhorn, and Rogers Dry Lakes, and their tributaries, (i.e. the Antelope Valley Watershed, excluding Lake Palmdale and tributaries to Lake Palmdale) are non-jurisdictional waters of the United States under SWANCC. This determination, SPL-2011-01084-SLP, dated June 7, 2013, found that

these Antelope Valley waters are not tributary to either a TNW or an (a)(3) water and Rosamond, Buckhorn, and Rogers Dry Lakes are not (a)(3) waters themselves. The Corps made this watershed conclusion because the Antelope Valley watershed is an isolated, intrastate watershed without any surface water related interstate commerce. This previous determination is still in effect, and is appended as a supporting document for this determination.

Additionally the Corps made a similar determination regarding Amargosa Creek near the study area (File No. 2013-00507-SLP). In this determination, the Corps evaluated two forks of Amargosa Creek near Palmdale, close to the southern segments evaluated in the current study area, and found that these waters, and ephemeral tributaries to the forks of Amargosa Creek, are tributaries to Rosamond Dry Lake. On the basis of the previous determination that Rosamond Dry Lake is not a TNW, RPW, or a 33 C.F.R. section 328.3 (a)(3)(i-iii) water, Amargosa Creek and tributaries were determined to be waters that are not currently regulated. The segments of Amargosa Creek in the current study area, and their tributaries, have similar characteristics to the features reviewed in 2013-00507-SLP.

The above is based upon the review of aerial photographs (Google Earth, accessed July 25, 2017) that also did not show surface water usage of the project drainages or the Rosamond Dry Lake terminus. Since the Rosamond Dry Lake is an intrastate isolated water without a surface water connection to commerce (see prior AJD file No. SPL-2011-01084-SLP), the subject 6 segments of desert wash and 3 segments of ditches of Amargosa Creek, 29 unnamed ephemeral desert wash stream features, 21 additional ephemeral ditches, one seasonal wetland, 10 basins, 1,667 claypan features, and 106 ponded features, as part of the same overall system, are also isolated and additionally have no nexus to commerce.

Based on the information above, the subject drainages, 6 segments of desert wash and 3 segments of ditches of Amargosa Creek, 29 unnamed ephemeral desert wash stream features, 21 additional ephemeral ditches, one seasonal wetland, 10 basins, 1,667 claypan features, and 106 ponded features, are NONJURISDICTIONAL waters of the United States, since the waters are NOT tributary to either a TNW or an (a)(3) water and are NOT (a)(3) waters themselves. The Corps makes such a conclusion since the waters are tribuatary to an isolated, intrastate dry lake.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW
Identify TNW: .

Summarize rationale supporting determination: .

2. Wetland adjacent to TNW
Summarize rationale supporting conclusion that wetland is "adjacent": .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

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

(ii) Physical Characteristics:
(a) Relationship with TNW:
☐ Tributary flows directly into TNW.
☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.
Project waters are **Pick List** river miles from RPW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Project waters are **Pick List** aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain: .

Identify flow route to TNW[5]: .
Tributary stream order, if known: .

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[4] Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

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

Tributary is: ☐ Natural
☐ Artificial (man-made). Explain: .
☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):
Average width: feet
Average depth: feet
Average side slopes: **Pick List.**

Primary tributary substrate composition (check all that apply):

☐ Silts ☐ Sands ☐ Concrete
☐ Cobbles ☐ Gravel ☐ Muck
☐ Bedrock ☐ Vegetation. Type/% cover:
☐ Other. Explain: .

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .
Presence of run/riffle/pool complexes. Explain: .
Tributary geometry: **Pick List**
Tributary gradient (approximate average slope): %

(c) Flow:
Tributary provides for: **Pick List**
Estimate average number of flow events in review area/year: **Pick List**
Describe flow regime: .
Other information on duration and volume: .

Surface flow is: **Pick List.** Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .
☐ Dye (or other) test performed: .

Tributary has (check all that apply):
☐ Bed and banks
☐ OHWM[6] (check all indicators that apply):

☐ clear, natural line impressed on the bank ☐ the presence of litter and debris
☐ changes in the character of soil ☐ destruction of terrestrial vegetation
☐ shelving ☐ the presence of wrack line
☐ vegetation matted down, bent, or absent ☐ sediment sorting
☐ leaf litter disturbed or washed away ☐ scour
☐ sediment deposition ☐ multiple observed or predicted flow events
☐ water staining ☐ abrupt change in plant community
☐ other (list):

☐ Discontinuous OHWM.[7] Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☐ High Tide Line indicated by: ☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects ☐ survey to available datum;
☐ fine shell or debris deposits (foreshore) ☐ physical markings;
☐ physical markings/characteristics ☐ vegetation lines/changes in vegetation types.
☐ tidal gauges
☐ other (list):

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Explain: .
Identify specific pollutants, if known: .

[6]A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
[7]Ibid.

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

- ☐ Riparian corridor. Characteristics (type, average width): .
- ☐ Wetland fringe. Characteristics: .
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

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

(i) Physical Characteristics:

(a) General Wetland Characteristics:
Properties:
Wetland size: acres
Wetland type. Explain: .
Wetland quality. Explain: .
Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:
Flow is: **Pick List**. Explain: .

Surface flow is**:** **Pick List**
Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .
☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:
- ☐ Directly abutting
- ☐ Not directly abutting
  - ☐ Discrete wetland hydrologic connection. Explain: .
  - ☐ Ecological connection. Explain: .
  - ☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW
Project wetlands are **Pick List** river miles from TNW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Flow is from: **Pick List.**
Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .
Identify specific pollutants, if known: .

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

- ☐ Riparian buffer. Characteristics (type, average width): .
- ☐ Vegetation type/percent cover. Explain: .
- ☐ Habitat for:
  - ☐ Federally Listed species. Explain findings: .
  - ☐ Fish/spawn areas. Explain findings: .
  - ☐ Other environmentally-sensitive species. Explain findings: .
  - ☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List**
Approximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   ☐ TNWs: linear feet width (ft), Or, acres.
   ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
   ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .

3. **Non-RPWs[8] that flow directly or indirectly into TNWs.**
☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: **.**

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**
☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **.**

☐ Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**
☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**
☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.[9]**
As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
☐ Demonstrate that impoundment was created from "waters of the U.S.," or
☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]
☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
☐ which are or could be used for industrial purposes by industries in interstate commerce.
☐ Interstate isolated waters. Explain: .
☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

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[8]See Footnote # 3.
[9] To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
[10] Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.*

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☒ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☒ Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
☐ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: .
☐ Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
☒ Non-wetland waters (i.e., rivers, streams): **approximately 22,389** linear feet **2 to 20 feet in** width (ft).
☐ Lakes/ponds: acres.
☒ Other non-wetland waters: 27.20 acres. List type of aquatic resource: Basins 14.93 acres, Claypans 5.83 acres, Ditches 3.63 acres and Ponding in Developed Areas 1.40 acres.
☒ Wetlands: seasonal 0.32 acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Features are depicted on Map Sheets 140-171 in Appendix E of the submitted delineation. .
☐ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps: .
☐ Corps navigable waters' study: .
☒ U.S. Geological Survey Hydrologic Atlas: see attached watershed figures for HUC boundaries and flow lines.
☒ USGS NHD data.
☒ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: Lancaster West 7.5 minute quadrangle.
☐ USDA Natural Resources Conservation Service Soil Survey. Citation: .
☐ National wetlands inventory map(s). Cite name: .
☐ State/Local wetland inventory map(s): .
☐ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date): NAIP Imagery 2005 and 2014 at 1-m resolution; LA County Imagery 2011 and 2013 at a 1-foot resolution.
or ☐ Other (Name & Date): .
☒ Previous determination(s). File no. and date of response letter: SPL-2011-01084-SLP, June 7, 2013; SPL-2013-00507-SLP, May 5, 2014.
☐ Applicable/supporting case law: .
☐ Applicable/supporting scientific literature: .
☒ Other information (please specify):Aquatic Resources Delineation Report prepared by the applicant/consultant references additional materials; also Appendix E contains map sheets; Appendix F contains dimensions. HUC watershed maps of review areas with NHD Data provided by the applicant/consultant; general use of NAIP Imagery 2009, 2010, and 2012 at 1-m resolution; LA County

Imagery 2015 at 1-foot resolution; 2015 Site specific IR Imagery, 3-inch color pixel; Bing Aerial Imagery - multiple years (scale dependent); ESRI World Imagery (streaming service) multiple years (scale dependent); Google Earth Historic Photos (used for reference and includes portions from above listed sources).

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Waters_Name	Cowardin_Code	HGM_Code	Amount	Units	Latitude	Longitude
Str_0397a	R6	RIVERINE	0.00	ACRE	34.78655	-118.1843669
Str_0397c	R6	RIVERINE	0.11	ACRE	34.78617	-118.1820365
Str_0398b	R6	RIVERINE	0.02	ACRE	34.78617	-118.1813046
Str_0399	R6	RIVERINE	0.220	ACRE	34.78502	-118.181059
Str_0400	R6	RIVERINE	0.00	ACRE	34.78617	-118.1797037
Str_0401	R6	RIVERINE	0.01	ACRE	34.78505	-118.1794268
Str_0402	R6	RIVERINE	0.01	ACRE	34.78544	-118.1791358
Str_0403	R6	RIVERINE	0.11	ACRE	34.78402	-118.1792059
Str_0404	R6	RIVERINE	0.05	ACRE	34.78284	-118.1812322
Str_0405	R6	RIVERINE	0.03	ACRE	34.78247	-118.1811284
Str_0406	R6	RIVERINE	0.01	ACRE	34.78233	-118.1810439
Str_0407	R6	RIVERINE	0.06	ACRE	34.77539	-118.1752071
Str_0408	R6	RIVERINE	0.15	ACRE	34.77241	-118.1735731
Str_0409-001	R6	RIVERINE	0.010	ACRE	34.76984	-118.1714605
Str_0409-002	R6	RIVERINE	0.00	ACRE	34.77178	-118.1735966
Str_0410	R6	RIVERINE	0.09	ACRE	34.7491	-118.1520713
AmargosaCreek_0411	R6	RIVERINE	0.14	ACRE	34.74635	-118.151514
Basin_0412	PUB	RIVERINE	0.29	ACRE	34.73304	-118.140983
Basin_0413	PUB	RIVERINE	1.29	ACRE	34.73286	-118.136711
Basin_0414	PUB	RIVERINE	1.30	ACRE	34.73287	-118.135845
Basin_0415	PUB	RIVERINE	0.82	ACRE	34.72268	-118.143427
Ditch_0416-001	R6	RIVERINE	0.005	ACRE	34.71352	-118.1389889
Ditch_0416-002	R6	RIVERINE	0.02	ACRE	34.7138	-118.1401715
Ditch_0417	R6	RIVERINE	0.06	ACRE	34.71626	-118.1396852
Ditch_0418	R6	RIVERINE	0.01	ACRE	34.7139	-118.1395531
Ditch_0419	R6	RIVERINE	0.02	ACRE	34.71259	-118.1390817
Basin_0420	PUB	RIVERINE	3.93	ACRE	34.71754	-118.138295
Ditch_0421-001	R6	RIVERINE	0.04	ACRE	34.71232	-118.1382373
Ditch_0421-002	R6	RIVERINE	0.0007	ACRE	34.71355	-118.1385169
Ditch_0422	R6	RIVERINE	0.08	ACRE	34.71579	-118.1373747
Basin_0423	PUB	RIVERINE	3.35	ACRE	34.69627	-118.132236
Ditch_0424	R6	RIVERINE	0.08	ACRE	34.69207	-118.1351291
Ditch_0425	R6	RIVERINE	0.24	ACRE	34.68227	-118.1334178
SW_0426	PEM	RIVERINE	0.32	ACRE	34.67435	-118.1279328
Str_0427	R6	RIVERINE	0.02	ACRE	34.64457	-118.1357612
Str_0428	R6	RIVERINE	0.04	ACRE	34.64135	-118.1282437
Ditch_0429	R6	RIVERINE	0.005	ACRE	34.6419	-118.1279017
AmargosaCrk_Ditch_0430	R6	RIVERINE	0.08	ACRE	34.64513	-118.1273144
AmargosaCrk_Ditch_0431	R6	RIVERINE	0.01	ACRE	34.64613	-118.1273593
AmargosaCrk_Ditch_0432	R6	RIVERINE	0.97	ACRE	34.63986	-118.1271351
Str_0433	R6	RIVERINE	0.3	ACRE	34.63691	-118.137527
Str_0434	R6	RIVERINE	0.02	ACRE	34.63299	-118.1283876
Str_0435	R6	RIVERINE	0.04	ACRE	34.6343	-118.12022
Str_0436	R6	RIVERINE	0.02	ACRE	34.6279	-118.1343827
AmargosaCreek_0437-001	R6	RIVERINE	0.002	ACRE	34.62719	-118.1318041
AmargosaCreek_0437-002	R6	RIVERINE	0.09	ACRE	34.62709	-118.1324838
AmargosaCreek_0437-003	R6	RIVERINE	0.01	ACRE	34.6275	-118.1323855
AmargosaCreek_0437-004	R6	RIVERINE	0.02	ACRE	34.63072	-118.1301677
AmargosaCreek_0438	R6	RIVERINE	0.59	ACRE	34.63335	-118.1289324
Basin_0439	PEM	RIVERINE	2.01	ACRE	34.61722	-118.127358
Basin_0440	PEM	RIVERINE	1.73	ACRE	34.61745	-118.12582
Ditch_0441	R6	RIVERINE	0.68	ACRE	34.61392	-118.123645
Ditch_0442	R6	RIVERINE	0.09	ACRE	34.61211	-118.122061
Ditch_0443	R6	RIVERINE	0.002	ACRE	34.60932	-118.121441
Ditch_0444	R6	RIVERINE	0.1	ACRE	34.60044	-118.124843
Basin_0445	PUB	RIVERINE	0.04	ACRE	34.60717	-118.12367
Basin_0446	PEM	RIVERINE	0.17	ACRE	34.6016	-118.116003
Str_0447	R6	RIVERINE	0.12	ACRE	34.60151	-118.113538
Str_0448	R6	RIVERINE	0.51	ACRE	34.60141	-118.112426

Str_0449	R6	RIVERINE	0.03	ACRE	34.60233	-118.112154
Str_0450	R6	RIVERINE	0.06	ACRE	34.60244	-118.111885
Str_0451	R6	RIVERINE	1.1	ACRE	34.59603	-118.121769
Ditch_0452	R6	RIVERINE	0.35	ACRE	34.59477	-118.119996
Str_0453	R6	RIVERINE	0.28	ACRE	34.59724	-118.119794
Ditch_0454	R6	RIVERINE	0.14	ACRE	34.59203	-118.119585
Str_0455	R6	RIVERINE	0.31	ACRE	34.59409	-118.119431
Str_0456	R6	RIVERINE	0.29	ACRE	34.59599	-118.119377
Ditch_0457	R6	RIVERINE	1.18	ACRE	34.58465	-118.118415
Ditch_0458	R6	RIVERINE	0.5	ACRE	34.57638	-118.117216
Ditch_0459	R6	RIVERINE	0.02	ACRE	34.57205	-118.129479
Ditch_0460	R6	RIVERINE	0.01	ACRE	34.57243	-118.128693
CP_1630-002	PUB	DEPRESS	132	SQ_FT	34.78648	-118.183159
CP_1631	PUB	DEPRESS	6	SQ_FT	34.78486	-118.183099
CP_1634-001	PUB	DEPRESS	33	SQ_FT	34.78488	-118.183071
CP_1634-002	PUB	DEPRESS	21	SQ_FT	34.78488	-118.183071
CP_1635	PUB	DEPRESS	6	SQ_FT	34.7849	-118.183053
CP_1637-001	PUB	DEPRESS	96	SQ_FT	34.78502	-118.183007
CP_1637-002	PUB	DEPRESS	1	SQ_FT	34.78502	-118.183007
CP_1637-003	PUB	DEPRESS	330	SQ_FT	34.78502	-118.183007
CP_1637-004	PUB	DEPRESS	8	SQ_FT	34.78502	-118.183007
CP_1637-005	PUB	DEPRESS	29	SQ_FT	34.78502	-118.183007
CP_1663	PUB	DEPRESS	22	SQ_FT	34.78513	-118.181906
CP_1665	PUB	DEPRESS	44	SQ_FT	34.7842	-118.181379
CP_1666	PUB	DEPRESS	53	SQ_FT	34.78427	-118.181352
CP_1667	PUB	DEPRESS	61	SQ_FT	34.7842	-118.18134
CP_1668	PUB	DEPRESS	182	SQ_FT	34.78429	-118.180589
CP_1669	PUB	DEPRESS	68	SQ_FT	34.78487	-118.180594
CP_1670	PUB	DEPRESS	76	SQ_FT	34.78363	-118.179799
CP_1671	PUB	DEPRESS	5	SQ_FT	34.7837	-118.179739
CP_1672	PUB	DEPRESS	6	SQ_FT	34.78368	-118.179634
CP_1673	PUB	DEPRESS	78	SQ_FT	34.78345	-118.179602
CP_1674	PUB	DEPRESS	35	SQ_FT	34.78345	-118.17955
CP_1675	PUB	DEPRESS	236.0	SQ_FT	34.78361	-118.179549
CP_1676-001	PUB	DEPRESS	0.2	SQ_FT	34.78383	-118.179548
CP_1676-002	PUB	DEPRESS	33	SQ_FT	34.78383	-118.179548
CP_1677	PUB	DEPRESS	82	SQ_FT	34.78417	-118.179216
CP_1678	PUB	DEPRESS	38	SQ_FT	34.78359	-118.179053
CP_1679	PUB	DEPRESS	18	SQ_FT	34.78401	-118.178082
CP_1680-001	PUB	DEPRESS	2	SQ_FT	34.784	-118.178017
CP_1680-002	PUB	DEPRESS	39	SQ_FT	34.784	-118.178017
CP_1680-003	PUB	DEPRESS	13	SQ_FT	34.784	-118.178017
CP_1681-001	PUB	DEPRESS	9.0	SQ_FT	34.78243	-118.181417
CP_1681-002	PUB	DEPRESS	0.5	SQ_FT	34.78243	-118.181417
CP_1681-003	PUB	DEPRESS	0.2	SQ_FT	34.78243	-118.181417
CP_1681-004	PUB	DEPRESS	0.1	SQ_FT	34.78243	-118.181417
CP_1681-005	PUB	DEPRESS	67	SQ_FT	34.78243	-118.181417
CP_1682-001	PUB	DEPRESS	2	SQ_FT	34.78236	-118.181315
CP_1682-002	PUB	DEPRESS	9	SQ_FT	34.78236	-118.181315
CP_1682-003	PUB	DEPRESS	65.0	SQ_FT	34.78236	-118.181315
CP_1683-001	PUB	DEPRESS	0.1	SQ_FT	34.78232	-118.18105
CP_1683-002	PUB	DEPRESS	128	SQ_FT	34.78232	-118.18105
CP_1683-003	PUB	DEPRESS	1	SQ_FT	34.78232	-118.18105
CP_1684	PUB	DEPRESS	20	SQ_FT	34.78185	-118.180758
CP_1685	PUB	DEPRESS	379.00	SQ_FT	34.78215	-118.180658
CP_1686	PUB	DEPRESS	0.03	ACRE	34.78164	-118.180635
CP_1687	PUB	DEPRESS	6	SQ_FT	34.78164	-118.180603
CP_1688	PUB	DEPRESS	62	SQ_FT	34.78226	-118.180387
CP_1689	PUB	DEPRESS	26	SQ_FT	34.78252	-118.180309
CP_1690	PUB	DEPRESS	4	SQ_FT	34.78297	-118.180288
CP_1691	PUB	DEPRESS	9	SQ_FT	34.783	-118.180279
CP_1692	PUB	DEPRESS	3	SQ_FT	34.78296	-118.180271
CP_1693	PUB	DEPRESS	26	SQ_FT	34.78251	-118.180236
CP_1694	PUB	DEPRESS	163	SQ_FT	34.78183	-118.180224
CP_1695	PUB	DEPRESS	11	SQ_FT	34.78303	-118.180157
CP_1696	PUB	DEPRESS	5.00	SQ_FT	34.78301	-118.180155

CP_1697	PUB	DEPRESS	0.25	ACRE	34.781	-118.180099
CP_1698	PUB	DEPRESS	104	SQ_FT	34.7827	-118.180096
CP_1699	PUB	DEPRESS	19.00	SQ_FT	34.78312	-118.180083
CP_1700	PUB	DEPRESS	0.02	ACRE	34.78256	-118.180065
CP_1701	PUB	DEPRESS	6	SQ_FT	34.78229	-118.179944
CP_1702	PUB	DEPRESS	48.00	SQ_FT	34.78202	-118.179902
CP_1703	PUB	DEPRESS	0.02	ACRE	34.78279	-118.179878
CP_1704	PUB	DEPRESS	0.03	ACRE	34.78222	-118.179855
CP_1705	PUB	DEPRESS	37	SQ_FT	34.78288	-118.179804
CP_1706	PUB	DEPRESS	19	SQ_FT	34.78284	-118.179804
CP_1707	PUB	DEPRESS	15	SQ_FT	34.78281	-118.17979
CP_1708	PUB	DEPRESS	9	SQ_FT	34.7817	-118.179768
CP_1709	PUB	DEPRESS	22	SQ_FT	34.78285	-118.179755
CP_1710	PUB	DEPRESS	27	SQ_FT	34.78281	-118.179736
CP_1711	PUB	DEPRESS	9.00	SQ_FT	34.78277	-118.179735
CP_1712	PUB	DEPRESS	0.03	ACRE	34.78302	-118.179721
CP_1713	PUB	DEPRESS	308.00	SQ_FT	34.78192	-118.179713
CP_1714	PUB	DEPRESS	0.01	ACRE	34.78266	-118.179707
CP_1715	PUB	DEPRESS	40	SQ_FT	34.78285	-118.179688
CP_1716	PUB	DEPRESS	14	SQ_FT	34.7828	-118.179682
CP_1717	PUB	DEPRESS	466	SQ_FT	34.78014	-118.179669
CP_1718	PUB	DEPRESS	37	SQ_FT	34.78016	-118.179305
CP_1719	PUB	DEPRESS	124	SQ_FT	34.78001	-118.179201
CP_1720	PUB	DEPRESS	10	SQ_FT	34.77935	-118.17913
CP_1721	PUB	DEPRESS	232.00	SQ_FT	34.7792	-118.178952
CP_1722	PUB	DEPRESS	0.06	ACRE	34.78037	-118.178931
CP_1723	PUB	DEPRESS	0.04	ACRE	34.77963	-118.178862
CP_1724	PUB	DEPRESS	0.06	ACRE	34.78047	-118.17866
CP_1725	PUB	DEPRESS	0.07	ACRE	34.7791	-118.178645
CP_1726	PUB	DEPRESS	0.0	ACRE	34.77889	-118.178576
CP_1727	PUB	DEPRESS	0.1	SQ_FT	34.77892	-118.178481
CP_1728	PUB	DEPRESS	26	SQ_FT	34.78013	-118.178113
CP_1729	PUB	DEPRESS	88	SQ_FT	34.77747	-118.177889
CP_1730	PUB	DEPRESS	93	SQ_FT	34.7775	-118.177808
CP_1731	PUB	DEPRESS	277.00	SQ_FT	34.77747	-118.177639
CP_1732	PUB	DEPRESS	0.04	ACRE	34.77979	-118.177575
CP_1733	PUB	DEPRESS	49	SQ_FT	34.77721	-118.177452
CP_1734-001	PUB	DEPRESS	4.00	SQ_FT	34.7775	-118.177421
CP_1734-002	PUB	DEPRESS	0.02	ACRE	34.7775	-118.177421
CP_1735	PUB	DEPRESS	0.02	ACRE	34.77831	-118.177414
CP_1736	PUB	DEPRESS	116	SQ_FT	34.77976	-118.177413
CP_1737	PUB	DEPRESS	24.00	SQ_FT	34.77719	-118.177408
CP_1738	PUB	DEPRESS	0.02	ACRE	34.77889	-118.177408
CP_1739	PUB	DEPRESS	0.01	ACRE	34.78008	-118.177233
CP_1740	PUB	DEPRESS	11	SQ_FT	34.77679	-118.177223
CP_1741	PUB	DEPRESS	15.00	SQ_FT	34.7807	-118.177223
CP_1742	PUB	DEPRESS	0.02	ACRE	34.77752	-118.177162
CP_1743	PUB	DEPRESS	25	SQ_FT	34.77746	-118.177063
CP_1744	PUB	DEPRESS	9	SQ_FT	34.77746	-118.176998
CP_1745	PUB	DEPRESS	29	SQ_FT	34.77753	-118.17693
CP_1746	PUB	DEPRESS	60	SQ_FT	34.77748	-118.176918
CP_1747	PUB	DEPRESS	7.00	SQ_FT	34.77752	-118.1769
CP_1748	PUB	DEPRESS	0.04	ACRE	34.77749	-118.176603
CP_1749	PUB	DEPRESS	106.00	SQ_FT	34.78087	-118.17653
CP_1750	PUB	DEPRESS	0.03	ACRE	34.78003	-118.176516
CP_1751	PUB	DEPRESS	208.00	SQ_FT	34.77893	-118.176495
CP_1752	PUB	DEPRESS	0.06	ACRE	34.78051	-118.17648
CP_1753	PUB	DEPRESS	21	SQ_FT	34.78105	-118.176458
CP_1754	PUB	DEPRESS	15	SQ_FT	34.78102	-118.176449
CP_1755	PUB	DEPRESS	21	SQ_FT	34.77889	-118.176414
CP_1756	PUB	DEPRESS	33	SQ_FT	34.78095	-118.176391
CP_1757	PUB	DEPRESS	68	SQ_FT	34.78199	-118.176366
CP_1758	PUB	DEPRESS	36	SQ_FT	34.78202	-118.176359
CP_1759	PUB	DEPRESS	28	SQ_FT	34.7789	-118.176359
CP_1760	PUB	DEPRESS	172.00	SQ_FT	34.77731	-118.17632
CP_1761	PUB	DEPRESS	0.06	ACRE	34.77753	-118.176313

CP_1762	PUB	DEPRESS	0.02	ACRE	34.77789	-118.17627
CP_1763	PUB	DEPRESS	13.00	SQ_FT	34.77733	-118.17626
CP_1764	PUB	DEPRESS	0.11	ACRE	34.7772	-118.176182
CP_1765	PUB	DEPRESS	192	SQ_FT	34.77592	-118.176104
CP_1766	PUB	DEPRESS	8.00	SQ_FT	34.78207	-118.176022
CP_1767	PUB	DEPRESS	0.58	ACRE	34.78124	-118.175977
CP_1768	PUB	DEPRESS	434	SQ_FT	34.78053	-118.175903
CP_1769	PUB	DEPRESS	123	SQ_FT	34.77708	-118.17563
CP_1770	PUB	DEPRESS	9	SQ_FT	34.77718	-118.175629
CP_1771	PUB	DEPRESS	74	SQ_FT	34.77671	-118.175624
CP_1772-001	PUB	DEPRESS	5	SQ_FT	34.77632	-118.175595
CP_1772-002	PUB	DEPRESS	2	SQ_FT	34.77632	-118.175595
CP_1772-003	PUB	DEPRESS	5	SQ_FT	34.77632	-118.175595
CP_1772-004	PUB	DEPRESS	17.0	SQ_FT	34.77632	-118.175595
CP_1772-005	PUB	DEPRESS	0.2	SQ_FT	34.77632	-118.175595
CP_1772-006	PUB	DEPRESS	6	SQ_FT	34.77632	-118.175595
CP_1772-007	PUB	DEPRESS	12	SQ_FT	34.77632	-118.175595
CP_1772-008	PUB	DEPRESS	40	SQ_FT	34.77632	-118.175595
CP_1773	PUB	DEPRESS	8	SQ_FT	34.77665	-118.175572
CP_1774	PUB	DEPRESS	4	SQ_FT	34.77672	-118.175564
CP_1775-001	PUB	DEPRESS	120	SQ_FT	34.77708	-118.175559
CP_1775-002	PUB	DEPRESS	9	SQ_FT	34.77708	-118.175559
CP_1776	PUB	DEPRESS	46	SQ_FT	34.77713	-118.175552
CP_1777	PUB	DEPRESS	22	SQ_FT	34.77656	-118.175521
CP_1778	PUB	DEPRESS	9	SQ_FT	34.7766	-118.175496
CP_1779	PUB	DEPRESS	3	SQ_FT	34.77657	-118.175487
CP_1780	PUB	DEPRESS	340.00	SQ_FT	34.777	-118.175464
CP_1781	PUB	DEPRESS	0.02	ACRE	34.77951	-118.175454
CP_1782	PUB	DEPRESS	0.01	ACRE	34.77655	-118.175415
CP_1783	PUB	DEPRESS	11	SQ_FT	34.77573	-118.175403
CP_1784	PUB	DEPRESS	331	SQ_FT	34.77677	-118.1754
CP_1785	PUB	DEPRESS	23	SQ_FT	34.77672	-118.175384
CP_1786	PUB	DEPRESS	7	SQ_FT	34.77573	-118.175382
CP_1787	PUB	DEPRESS	10	SQ_FT	34.77672	-118.175358
CP_1788	PUB	DEPRESS	56	SQ_FT	34.77647	-118.175352
CP_1789	PUB	DEPRESS	51	SQ_FT	34.77904	-118.175303
CP_1790	PUB	DEPRESS	50	SQ_FT	34.77876	-118.17525
CP_1791	PUB	DEPRESS	65	SQ_FT	34.7764	-118.175248
CP_1792	PUB	DEPRESS	208	SQ_FT	34.77659	-118.175197
CP_1793	PUB	DEPRESS	36	SQ_FT	34.77712	-118.175166
CP_1794	PUB	DEPRESS	15	SQ_FT	34.77702	-118.175157
CP_1795	PUB	DEPRESS	15	SQ_FT	34.77701	-118.175112
CP_1796	PUB	DEPRESS	174.00	SQ_FT	34.77663	-118.175101
CP_1797	PUB	DEPRESS	0.04	ACRE	34.77677	-118.175098
CP_1798	PUB	DEPRESS	0.02	ACRE	34.77711	-118.174887
CP_1799	PUB	DEPRESS	24	SQ_FT	34.77533	-118.174875
CP_1800	PUB	DEPRESS	5	SQ_FT	34.77679	-118.174853
CP_1801	PUB	DEPRESS	18	SQ_FT	34.77701	-118.174837
CP_1802	PUB	DEPRESS	19	SQ_FT	34.77676	-118.174804
CP_1803	PUB	DEPRESS	4	SQ_FT	34.77661	-118.174674
CP_1804	PUB	DEPRESS	91	SQ_FT	34.77663	-118.174657
CP_1805	PUB	DEPRESS	94.00	SQ_FT	34.781	-118.174578
CP_1806	PUB	DEPRESS	0.02	ACRE	34.77679	-118.174517
CP_1807	PUB	DEPRESS	217	SQ_FT	34.77662	-118.174469
CP_1808	PUB	DEPRESS	419	SQ_FT	34.7787	-118.174403
CP_1809	PUB	DEPRESS	105	SQ_FT	34.77645	-118.174382
CP_1810	PUB	DEPRESS	146	SQ_FT	34.77876	-118.174289
CP_1811	PUB	DEPRESS	156.00	SQ_FT	34.77668	-118.174276
CP_1812	PUB	DEPRESS	0.06	ACRE	34.77735	-118.174174
CP_1813	PUB	DEPRESS	375	SQ_FT	34.77666	-118.174164
CP_1814	PUB	DEPRESS	9	SQ_FT	34.77568	-118.174112
CP_1815	PUB	DEPRESS	12	SQ_FT	34.77746	-118.174069
CP_1816	PUB	DEPRESS	8	SQ_FT	34.77657	-118.174061
CP_1817	PUB	DEPRESS	19	SQ_FT	34.7775	-118.173351
CP_1818	PUB	DEPRESS	395	SQ_FT	34.77741	-118.173318
CP_1819	PUB	DEPRESS	14	SQ_FT	34.77745	-118.173285

CP_1820-001	PUB	DEPRESS	2	SQ_FT	34.77739	-118.173271
CP_1820-002	PUB	DEPRESS	17	SQ_FT	34.77739	-118.173271
CP_1821	PUB	DEPRESS	17	SQ_FT	34.77739	-118.173242
CP_1822	PUB	DEPRESS	11	SQ_FT	34.77742	-118.173018
CP_1823	PUB	DEPRESS	14	SQ_FT	34.77729	-118.172946
CP_1824	PUB	DEPRESS	9	SQ_FT	34.77731	-118.172902
CP_1825	PUB	DEPRESS	7	SQ_FT	34.77732	-118.172811
CP_1826	PUB	DEPRESS	35	SQ_FT	34.77669	-118.172721
CP_1827	PUB	DEPRESS	131	SQ_FT	34.77669	-118.17254
CP_1828	PUB	DEPRESS	262	SQ_FT	34.77642	-118.17229
CP_1829	PUB	DEPRESS	45	SQ_FT	34.77629	-118.172198
CP_1830	PUB	DEPRESS	9	SQ_FT	34.77638	-118.172073
CP_1831	PUB	DEPRESS	204.0	SQ_FT	34.77562	-118.171583
CP_1832-001	PUB	DEPRESS	0.4	SQ_FT	34.77507	-118.174942
CP_1832-002	PUB	DEPRESS	5	SQ_FT	34.77507	-118.174942
CP_1832-003	PUB	DEPRESS	9	SQ_FT	34.77507	-118.174942
CP_1833-001	PUB	DEPRESS	1	SQ_FT	34.77511	-118.174929
CP_1833-002	PUB	DEPRESS	2	SQ_FT	34.77511	-118.174929
CP_1833-003	PUB	DEPRESS	28	SQ_FT	34.77511	-118.174929
CP_1834-001	PUB	DEPRESS	2	SQ_FT	34.77502	-118.174908
CP_1834-002	PUB	DEPRESS	16	SQ_FT	34.77502	-118.174908
CP_1835	PUB	DEPRESS	3	SQ_FT	34.775	-118.17482
CP_1836-001	PUB	DEPRESS	12	SQ_FT	34.7747	-118.174618
CP_1836-002	PUB	DEPRESS	9.0	SQ_FT	34.7747	-118.174618
CP_1837-001	PUB	DEPRESS	0.3	SQ_FT	34.77445	-118.174393
CP_1837-002	PUB	DEPRESS	5	SQ_FT	34.77445	-118.174393
CP_1837-003	PUB	DEPRESS	1	SQ_FT	34.77445	-118.174393
CP_1837-004	PUB	DEPRESS	11	SQ_FT	34.77445	-118.174393
CP_1838	PUB	DEPRESS	53	SQ_FT	34.77451	-118.174345
CP_1839	PUB	DEPRESS	7	SQ_FT	34.7745	-118.17429
CP_1840	PUB	DEPRESS	33	SQ_FT	34.77444	-118.174233
CP_1841	PUB	DEPRESS	77	SQ_FT	34.77447	-118.17423
CP_1842	PUB	DEPRESS	3	SQ_FT	34.77435	-118.174116
CP_1843	PUB	DEPRESS	5	SQ_FT	34.77438	-118.174089
CP_1844	PUB	DEPRESS	92	SQ_FT	34.77431	-118.17401
CP_1845	PUB	DEPRESS	3	SQ_FT	34.77429	-118.173836
CP_1846	PUB	DEPRESS	9	SQ_FT	34.7743	-118.173833
CP_1847	PUB	DEPRESS	14	SQ_FT	34.77367	-118.173612
CP_1848	PUB	DEPRESS	37.0	SQ_FT	34.77339	-118.173576
CP_1849-001	PUB	DEPRESS	0.1	SQ_FT	34.77171	-118.173565
CP_1849-002	PUB	DEPRESS	0.3	SQ_FT	34.77171	-118.173565
CP_1849-003	PUB	DEPRESS	16	SQ_FT	34.77171	-118.173565
CP_1850	PUB	DEPRESS	49	SQ_FT	34.77404	-118.173517
CP_1851	PUB	DEPRESS	13	SQ_FT	34.77182	-118.173503
CP_1852	PUB	DEPRESS	5	SQ_FT	34.77335	-118.173487
CP_1853	PUB	DEPRESS	8	SQ_FT	34.77398	-118.173464
CP_1854	PUB	DEPRESS	8	SQ_FT	34.774	-118.173454
CP_1855	PUB	DEPRESS	10	SQ_FT	34.77401	-118.173435
CP_1856	PUB	DEPRESS	93	SQ_FT	34.77344	-118.173381
CP_1857	PUB	DEPRESS	3	SQ_FT	34.77392	-118.173346
CP_1858	PUB	DEPRESS	35	SQ_FT	34.77339	-118.17334
CP_1859	PUB	DEPRESS	16	SQ_FT	34.77334	-118.173257
CP_1860	PUB	DEPRESS	39	SQ_FT	34.77383	-118.173231
CP_1861	PUB	DEPRESS	22	SQ_FT	34.77373	-118.173227
CP_1862-001	PUB	DEPRESS	3	SQ_FT	34.77178	-118.172968
CP_1862-002	PUB	DEPRESS	1	SQ_FT	34.77178	-118.172968
CP_1862-003	PUB	DEPRESS	3	SQ_FT	34.77178	-118.172968
CP_1863	PUB	DEPRESS	5	SQ_FT	34.77327	-118.172435
CP_1864	PUB	DEPRESS	151	SQ_FT	34.77332	-118.172393
CP_1865	PUB	DEPRESS	4	SQ_FT	34.77205	-118.172321
CP_1866	PUB	DEPRESS	215	SQ_FT	34.77337	-118.17224
CP_1867	PUB	DEPRESS	23.00	SQ_FT	34.77333	-118.172235
CP_1868	PUB	DEPRESS	0.01	ACRE	34.77326	-118.171851
CP_1869	PUB	DEPRESS	69	SQ_FT	34.77333	-118.171831
CP_1870	PUB	DEPRESS	6	SQ_FT	34.77334	-118.171727
CP_1871	PUB	DEPRESS	327	SQ_FT	34.77097	-118.171679

CP_1872 PUB	DEPRESS	28	SQ_FT	34.76984	-118.171595
CP_1873 PUB	DEPRESS	4	SQ_FT	34.77044	-118.171475
CP_1874 PUB	DEPRESS	7.00	SQ_FT	34.76984	-118.171466
CP_1875 PUB	DEPRESS	0.01	ACRE	34.77333	-118.171449
CP_1876 PUB	DEPRESS	3	SQ_FT	34.7697	-118.171333
CP_1877 PUB	DEPRESS	48	SQ_FT	34.77335	-118.171332
CP_1878 PUB	DEPRESS	25.00	SQ_FT	34.77311	-118.171149
CP_1879 PUB	DEPRESS	0.05	ACRE	34.77329	-118.171122
CP_1880 PUB	DEPRESS	0.03	ACRE	34.77472	-118.171114
CP_1881 PUB	DEPRESS	58	SQ_FT	34.77296	-118.171098
CP_1882 PUB	DEPRESS	13	SQ_FT	34.77285	-118.170184
CP_1883 PUB	DEPRESS	11	SQ_FT	34.77289	-118.17018
CP_1884 PUB	DEPRESS	73	SQ_FT	34.76748	-118.169774
CP_1885 PUB	DEPRESS	19	SQ_FT	34.7676	-118.169674
CP_1886 PUB	DEPRESS	3	SQ_FT	34.77262	-118.169664
CP_1887 PUB	DEPRESS	6	SQ_FT	34.77214	-118.169525
CP_1888 PUB	DEPRESS	76	SQ_FT	34.7678	-118.169517
CP_1889 PUB	DEPRESS	9	SQ_FT	34.76917	-118.169152
CP_1890 PUB	DEPRESS	6	SQ_FT	34.76808	-118.169124
CP_1891 PUB	DEPRESS	107	SQ_FT	34.76828	-118.16907
CP_1892 PUB	DEPRESS	13	SQ_FT	34.76824	-118.169038
CP_1893 PUB	DEPRESS	18	SQ_FT	34.76741	-118.168995
CP_1894 PUB	DEPRESS	5	SQ_FT	34.7696	-118.168994
CP_1895 PUB	DEPRESS	36	SQ_FT	34.768	-118.16878
CP_1896 PUB	DEPRESS	37	SQ_FT	34.76747	-118.168766
CP_1897 PUB	DEPRESS	12	SQ_FT	34.76802	-118.168755
CP_1898 PUB	DEPRESS	24	SQ_FT	34.76867	-118.168735
CP_1899 PUB	DEPRESS	13	SQ_FT	34.76866	-118.168679
CP_1900 PUB	DEPRESS	4	SQ_FT	34.76776	-118.168546
CP_1901 PUB	DEPRESS	41	SQ_FT	34.76806	-118.168459
CP_1902 PUB	DEPRESS	8	SQ_FT	34.76777	-118.168451
CP_1903 PUB	DEPRESS	10	SQ_FT	34.76852	-118.168418
CP_1904 PUB	DEPRESS	22	SQ_FT	34.76733	-118.168399
CP_1905 PUB	DEPRESS	92	SQ_FT	34.76875	-118.168378
CP_1906 PUB	DEPRESS	10	SQ_FT	34.76873	-118.168348
CP_1907 PUB	DEPRESS	62	SQ_FT	34.76918	-118.168217
CP_1908 PUB	DEPRESS	13	SQ_FT	34.76915	-118.168202
CP_1909 PUB	DEPRESS	56	SQ_FT	34.76916	-118.168174
CP_1910 PUB	DEPRESS	24	SQ_FT	34.77062	-118.168155
CP_1911 PUB	DEPRESS	53	SQ_FT	34.76914	-118.168128
CP_1912 PUB	DEPRESS	12	SQ_FT	34.76891	-118.168115
CP_1913 PUB	DEPRESS	6	SQ_FT	34.76892	-118.168103
CP_1914 PUB	DEPRESS	9	SQ_FT	34.76889	-118.168101
CP_1915 PUB	DEPRESS	7	SQ_FT	34.76912	-118.168074
CP_1916 PUB	DEPRESS	71	SQ_FT	34.77056	-118.168037
CP_1917 PUB	DEPRESS	13	SQ_FT	34.7706	-118.168036
CP_1918 PUB	DEPRESS	50	SQ_FT	34.77047	-118.168012
CP_1919 PUB	DEPRESS	4	SQ_FT	34.76749	-118.167994
CP_1920 PUB	DEPRESS	17	SQ_FT	34.76737	-118.167916
CP_1921 PUB	DEPRESS	26	SQ_FT	34.76941	-118.167885
CP_1922 PUB	DEPRESS	12	SQ_FT	34.76989	-118.167845
CP_1923 PUB	DEPRESS	19	SQ_FT	34.76881	-118.167438
CP_1924 PUB	DEPRESS	7	SQ_FT	34.76816	-118.167316
CP_1925 PUB	DEPRESS	7	SQ_FT	34.7687	-118.167226
CP_1926 PUB	DEPRESS	2	SQ_FT	34.7687	-118.167216
CP_1927 PUB	DEPRESS	17	SQ_FT	34.76852	-118.167213
CP_1928 PUB	DEPRESS	5	SQ_FT	34.76797	-118.166807
CP_1929 PUB	DEPRESS	28	SQ_FT	34.76804	-118.166806
CP_1930 PUB	DEPRESS	4	SQ_FT	34.76793	-118.166765
CP_1931 PUB	DEPRESS	35	SQ_FT	34.76797	-118.166754
CP_1932 PUB	DEPRESS	135	SQ_FT	34.76749	-118.166748
CP_1933 PUB	DEPRESS	377	SQ_FT	34.76844	-118.166746
CP_1934 PUB	DEPRESS	422	SQ_FT	34.76735	-118.166731
CP_1935 PUB	DEPRESS	32	SQ_FT	34.76757	-118.166504
CP_1936 PUB	DEPRESS	12	SQ_FT	34.76846	-118.166394
CP_1937 PUB	DEPRESS	147	SQ_FT	34.76896	-118.166364

CP_1938	PUB	DEPRESS	48	SQ_FT	34.76848	-118.166358
CP_1939	PUB	DEPRESS	477	SQ_FT	34.76861	-118.166353
CP_1940	PUB	DEPRESS	477	SQ_FT	34.76849	-118.166308
CP_1941	PUB	DEPRESS	115	SQ_FT	34.76845	-118.166252
CP_1942	PUB	DEPRESS	40	SQ_FT	34.76841	-118.16618
CP_1943	PUB	DEPRESS	15	SQ_FT	34.76733	-118.166168
CP_1944-001	PUB	DEPRESS	3	SQ_FT	34.76843	-118.166144
CP_1944-002	PUB	DEPRESS	1	SQ_FT	34.76843	-118.166144
CP_1945	PUB	DEPRESS	6	SQ_FT	34.76843	-118.166134
CP_1946	PUB	DEPRESS	3	SQ_FT	34.76839	-118.166127
CP_1947	PUB	DEPRESS	12	SQ_FT	34.76838	-118.166114
CP_1948	PUB	DEPRESS	15	SQ_FT	34.76841	-118.166105
CP_1949	PUB	DEPRESS	1	SQ_FT	34.76842	-118.165932
CP_1950	PUB	DEPRESS	7	SQ_FT	34.76803	-118.165863
CP_1951	PUB	DEPRESS	31	SQ_FT	34.76802	-118.16573
CP_1952	PUB	DEPRESS	10	SQ_FT	34.76771	-118.165565
CP_1953	PUB	DEPRESS	19	SQ_FT	34.76722	-118.169388
CP_1954	PUB	DEPRESS	432	SQ_FT	34.76725	-118.169334
CP_1955	PUB	DEPRESS	48	SQ_FT	34.76692	-118.169296
CP_1956	PUB	DEPRESS	148	SQ_FT	34.76684	-118.169254
CP_1957	PUB	DEPRESS	28	SQ_FT	34.76682	-118.169212
CP_1958	PUB	DEPRESS	14	SQ_FT	34.76686	-118.169199
CP_1959	PUB	DEPRESS	25	SQ_FT	34.76716	-118.169143
CP_1960	PUB	DEPRESS	82	SQ_FT	34.76698	-118.169142
CP_1961	PUB	DEPRESS	7	SQ_FT	34.76717	-118.169043
CP_1962	PUB	DEPRESS	3	SQ_FT	34.76716	-118.169024
CP_1963	PUB	DEPRESS	212	SQ_FT	34.76651	-118.168976
CP_1964	PUB	DEPRESS	56	SQ_FT	34.76654	-118.16883
CP_1965	PUB	DEPRESS	88	SQ_FT	34.76714	-118.168821
CP_1966	PUB	DEPRESS	49	SQ_FT	34.76658	-118.168798
CP_1967	PUB	DEPRESS	10	SQ_FT	34.76716	-118.168782
CP_1968	PUB	DEPRESS	6	SQ_FT	34.76683	-118.168692
CP_1969	PUB	DEPRESS	13	SQ_FT	34.76684	-118.168661
CP_1970	PUB	DEPRESS	14	SQ_FT	34.7673	-118.168637
CP_1971	PUB	DEPRESS	80	SQ_FT	34.76587	-118.168532
CP_1972	PUB	DEPRESS	13	SQ_FT	34.76592	-118.168495
CP_1973	PUB	DEPRESS	24	SQ_FT	34.76595	-118.168461
CP_1974	PUB	DEPRESS	3	SQ_FT	34.76591	-118.168433
CP_1975	PUB	DEPRESS	1	SQ_FT	34.76722	-118.168375
CP_1976	PUB	DEPRESS	38	SQ_FT	34.7659	-118.168353
CP_1977	PUB	DEPRESS	1	SQ_FT	34.76726	-118.168336
CP_1978	PUB	DEPRESS	36	SQ_FT	34.76703	-118.168289
CP_1979	PUB	DEPRESS	20	SQ_FT	34.76701	-118.168237
CP_1980	PUB	DEPRESS	16	SQ_FT	34.76701	-118.168211
CP_1981	PUB	DEPRESS	31	SQ_FT	34.76701	-118.168185
CP_1982	PUB	DEPRESS	61	SQ_FT	34.76575	-118.168085
CP_1983	PUB	DEPRESS	28	SQ_FT	34.76706	-118.168055
CP_1984	PUB	DEPRESS	17	SQ_FT	34.76703	-118.168048
CP_1985	PUB	DEPRESS	7	SQ_FT	34.76712	-118.168045
CP_1986	PUB	DEPRESS	20	SQ_FT	34.76702	-118.168009
CP_1987	PUB	DEPRESS	10	SQ_FT	34.76574	-118.167891
CP_1988	PUB	DEPRESS	11	SQ_FT	34.76666	-118.167836
CP_1989	PUB	DEPRESS	7	SQ_FT	34.76664	-118.167834
CP_1990	PUB	DEPRESS	4	SQ_FT	34.7666	-118.167758
CP_1991	PUB	DEPRESS	13	SQ_FT	34.76693	-118.167746
CP_1992	PUB	DEPRESS	43	SQ_FT	34.76571	-118.167639
CP_1993	PUB	DEPRESS	54	SQ_FT	34.7664	-118.167582
CP_1994	PUB	DEPRESS	42.00	SQ_FT	34.76711	-118.167449
CP_1995	PUB	DEPRESS	0.01	ACRE	34.76421	-118.167316
CP_1996	PUB	DEPRESS	6	SQ_FT	34.76603	-118.167293
CP_1997	PUB	DEPRESS	14	SQ_FT	34.76606	-118.167288
CP_1998	PUB	DEPRESS	4	SQ_FT	34.76605	-118.167267
CP_1999	PUB	DEPRESS	28	SQ_FT	34.76596	-118.167223
CP_2000	PUB	DEPRESS	6	SQ_FT	34.76585	-118.16706
CP_2001	PUB	DEPRESS	51	SQ_FT	34.76588	-118.167042
CP_2002	PUB	DEPRESS	54	SQ_FT	34.76431	-118.167025

CP_2003 PUB	DEPRESS	391	SQ_FT	34.7666	-118.167023
CP_2004 PUB	DEPRESS	21	SQ_FT	34.76506	-118.166958
CP_2005 PUB	DEPRESS	450	SQ_FT	34.76429	-118.166954
CP_2006 PUB	DEPRESS	17	SQ_FT	34.76505	-118.166934
CP_2007 PUB	DEPRESS	61	SQ_FT	34.76517	-118.166925
CP_2008 PUB	DEPRESS	26	SQ_FT	34.76635	-118.166856
CP_2009 PUB	DEPRESS	92	SQ_FT	34.76557	-118.166793
CP_2010 PUB	DEPRESS	134	SQ_FT	34.76659	-118.166792
CP_2011 PUB	DEPRESS	16	SQ_FT	34.76655	-118.166756
CP_2012 PUB	DEPRESS	54	SQ_FT	34.76654	-118.166743
CP_2013 PUB	DEPRESS	25	SQ_FT	34.76608	-118.166731
CP_2014 PUB	DEPRESS	42	SQ_FT	34.76573	-118.166728
CP_2015 PUB	DEPRESS	177	SQ_FT	34.76399	-118.166722
CP_2016 PUB	DEPRESS	108	SQ_FT	34.7665	-118.166715
CP_2017 PUB	DEPRESS	51	SQ_FT	34.76616	-118.166704
CP_2018 PUB	DEPRESS	394	SQ_FT	34.76453	-118.1667
CP_2019 PUB	DEPRESS	5	SQ_FT	34.76516	-118.1667
CP_2020 PUB	DEPRESS	68	SQ_FT	34.76525	-118.166697
CP_2021 PUB	DEPRESS	15	SQ_FT	34.7643	-118.166694
CP_2022 PUB	DEPRESS	101	SQ_FT	34.76481	-118.166694
CP_2023 PUB	DEPRESS	34	SQ_FT	34.76393	-118.166693
CP_2024 PUB	DEPRESS	216	SQ_FT	34.764	-118.166687
CP_2025 PUB	DEPRESS	333	SQ_FT	34.76324	-118.166687
CP_2026 PUB	DEPRESS	4	SQ_FT	34.76652	-118.166671
CP_2027 PUB	DEPRESS	10	SQ_FT	34.76452	-118.166653
CP_2028 PUB	DEPRESS	29	SQ_FT	34.76523	-118.166433
CP_2029 PUB	DEPRESS	133	SQ_FT	34.76635	-118.166364
CP_2030 PUB	DEPRESS	56	SQ_FT	34.7645	-118.166318
CP_2031 PUB	DEPRESS	29	SQ_FT	34.76549	-118.166188
CP_2032 PUB	DEPRESS	31	SQ_FT	34.76436	-118.166185
CP_2033 PUB	DEPRESS	24	SQ_FT	34.76593	-118.166181
CP_2034 PUB	DEPRESS	52	SQ_FT	34.76462	-118.166154
CP_2035 PUB	DEPRESS	38	SQ_FT	34.76606	-118.166152
CP_2036 PUB	DEPRESS	22	SQ_FT	34.76592	-118.166149
CP_2037 PUB	DEPRESS	9	SQ_FT	34.76591	-118.166113
CP_2038 PUB	DEPRESS	31	SQ_FT	34.76451	-118.165973
CP_2039 PUB	DEPRESS	16	SQ_FT	34.76445	-118.165899
CP_2040 PUB	DEPRESS	3	SQ_FT	34.76606	-118.165855
CP_2041 PUB	DEPRESS	19	SQ_FT	34.766	-118.165754
CP_2042 PUB	DEPRESS	21	SQ_FT	34.76542	-118.165714
CP_2043 PUB	DEPRESS	17.00	SQ_FT	34.7662	-118.165697
CP_2044 PUB	DEPRESS	0.02	ACRE	34.76451	-118.165608
CP_2045 PUB	DEPRESS	79	SQ_FT	34.76551	-118.165594
CP_2046 PUB	DEPRESS	75	SQ_FT	34.76605	-118.16558
CP_2047 PUB	DEPRESS	11	SQ_FT	34.76567	-118.165575
CP_2048 PUB	DEPRESS	15	SQ_FT	34.76534	-118.16557
CP_2049 PUB	DEPRESS	181	SQ_FT	34.76594	-118.165539
CP_2050 PUB	DEPRESS	33	SQ_FT	34.76402	-118.165484
CP_2051 PUB	DEPRESS	4.00	SQ_FT	34.76393	-118.165469
CP_2052 PUB	DEPRESS	0.14	ACRE	34.76579	-118.165468
CP_2053 PUB	DEPRESS	18	SQ_FT	34.76604	-118.1654
CP_2054 PUB	DEPRESS	15	SQ_FT	34.7645	-118.16539
CP_2055 PUB	DEPRESS	87	SQ_FT	34.76636	-118.165339
CP_2056 PUB	DEPRESS	15	SQ_FT	34.76606	-118.165337
CP_2057 PUB	DEPRESS	22	SQ_FT	34.76477	-118.1653
CP_2058 PUB	DEPRESS	14	SQ_FT	34.76618	-118.165298
CP_2059 PUB	DEPRESS	141	SQ_FT	34.76484	-118.165251
CP_2060 PUB	DEPRESS	20	SQ_FT	34.766	-118.165246
CP_2061 PUB	DEPRESS	5	SQ_FT	34.76465	-118.165221
CP_2062 PUB	DEPRESS	15	SQ_FT	34.76455	-118.165205
CP_2063 PUB	DEPRESS	11	SQ_FT	34.76645	-118.165181
CP_2064 PUB	DEPRESS	22	SQ_FT	34.76599	-118.165172
CP_2065 PUB	DEPRESS	78	SQ_FT	34.76575	-118.165166
CP_2066 PUB	DEPRESS	3	SQ_FT	34.76645	-118.16514
CP_2067 PUB	DEPRESS	13	SQ_FT	34.76548	-118.165079
CP_2068 PUB	DEPRESS	3	SQ_FT	34.76475	-118.165064

CP_2069	PUB	DEPRESS	56	SQ_FT	34.76547	-118.165043
CP_2070	PUB	DEPRESS	64	SQ_FT	34.76471	-118.165032
CP_2071	PUB	DEPRESS	117	SQ_FT	34.76459	-118.165025
CP_2072	PUB	DEPRESS	12	SQ_FT	34.76547	-118.164994
CP_2073	PUB	DEPRESS	9	SQ_FT	34.76462	-118.164945
CP_2074	PUB	DEPRESS	8	SQ_FT	34.76548	-118.164937
CP_2075-001	PUB	DEPRESS	3	SQ_FT	34.7646	-118.164932
CP_2075-002	PUB	DEPRESS	8	SQ_FT	34.7646	-118.164932
CP_2076	PUB	DEPRESS	12	SQ_FT	34.76545	-118.164913
CP_2077	PUB	DEPRESS	35	SQ_FT	34.76455	-118.164899
CP_2078	PUB	DEPRESS	46	SQ_FT	34.76459	-118.164899
CP_2079	PUB	DEPRESS	8	SQ_FT	34.76456	-118.164861
CP_2080	PUB	DEPRESS	80	SQ_FT	34.76454	-118.164835
CP_2081	PUB	DEPRESS	4	SQ_FT	34.76457	-118.164806
CP_2082	PUB	DEPRESS	101	SQ_FT	34.76473	-118.16479
CP_2083	PUB	DEPRESS	31	SQ_FT	34.7666	-118.164753
CP_2084	PUB	DEPRESS	13	SQ_FT	34.7654	-118.164729
CP_2085	PUB	DEPRESS	26	SQ_FT	34.76528	-118.164727
CP_2086	PUB	DEPRESS	28	SQ_FT	34.76656	-118.164721
CP_2087	PUB	DEPRESS	11	SQ_FT	34.76658	-118.164704
CP_2088	PUB	DEPRESS	7	SQ_FT	34.76657	-118.164701
CP_2089	PUB	DEPRESS	15	SQ_FT	34.76473	-118.164692
CP_2090	PUB	DEPRESS	20	SQ_FT	34.76438	-118.164656
CP_2091	PUB	DEPRESS	30	SQ_FT	34.76441	-118.164602
CP_2092	PUB	DEPRESS	18	SQ_FT	34.76637	-118.164593
CP_2093	PUB	DEPRESS	37	SQ_FT	34.76418	-118.164569
CP_2094	PUB	DEPRESS	19	SQ_FT	34.76441	-118.164484
CP_2095	PUB	DEPRESS	11	SQ_FT	34.7644	-118.164464
CP_2096	PUB	DEPRESS	59	SQ_FT	34.76438	-118.164414
CP_2097	PUB	DEPRESS	45	SQ_FT	34.7646	-118.164248
CP_2098	PUB	DEPRESS	5	SQ_FT	34.76625	-118.164223
CP_2099	PUB	DEPRESS	51	SQ_FT	34.7652	-118.164136
CP_2100	PUB	DEPRESS	41	SQ_FT	34.76456	-118.164133
CP_2101	PUB	DEPRESS	80	SQ_FT	34.7645	-118.164102
CP_2102	PUB	DEPRESS	21	SQ_FT	34.76586	-118.16406
CP_2103	PUB	DEPRESS	14	SQ_FT	34.76586	-118.164029
CP_2104	PUB	DEPRESS	155	SQ_FT	34.76455	-118.163999
CP_2105	PUB	DEPRESS	20	SQ_FT	34.76418	-118.163984
CP_2106	PUB	DEPRESS	112	SQ_FT	34.76539	-118.163974
CP_2107	PUB	DEPRESS	8	SQ_FT	34.76554	-118.163892
CP_2108	PUB	DEPRESS	49	SQ_FT	34.7641	-118.163866
CP_2109	PUB	DEPRESS	45	SQ_FT	34.76555	-118.163845
CP_2110	PUB	DEPRESS	19	SQ_FT	34.76434	-118.163781
CP_2111	PUB	DEPRESS	12	SQ_FT	34.76389	-118.16375
CP_2112	PUB	DEPRESS	44	SQ_FT	34.76426	-118.163598
CP_2113	PUB	DEPRESS	4	SQ_FT	34.76426	-118.163542
CP_2114	PUB	DEPRESS	71	SQ_FT	34.76423	-118.163508
CP_2115	PUB	DEPRESS	10	SQ_FT	34.76421	-118.163454
CP_2116	PUB	DEPRESS	29	SQ_FT	34.76423	-118.163432
CP_2117	PUB	DEPRESS	54	SQ_FT	34.76408	-118.163423
CP_2118	PUB	DEPRESS	9	SQ_FT	34.76394	-118.163402
CP_2119	PUB	DEPRESS	3	SQ_FT	34.76342	-118.163398
CP_2120	PUB	DEPRESS	13	SQ_FT	34.76343	-118.16336
CP_2121	PUB	DEPRESS	12	SQ_FT	34.76309	-118.163355
CP_2122	PUB	DEPRESS	7	SQ_FT	34.76351	-118.163329
CP_2123	PUB	DEPRESS	66	SQ_FT	34.76392	-118.163318
CP_2124	PUB	DEPRESS	10	SQ_FT	34.76403	-118.16327
CP_2125	PUB	DEPRESS	76	SQ_FT	34.76392	-118.163256
CP_2126	PUB	DEPRESS	57	SQ_FT	34.76403	-118.163219
CP_2127	PUB	DEPRESS	9	SQ_FT	34.76393	-118.163175
CP_2128	PUB	DEPRESS	13	SQ_FT	34.764	-118.163142
CP_2129	PUB	DEPRESS	15	SQ_FT	34.76347	-118.163142
CP_2130	PUB	DEPRESS	8	SQ_FT	34.76368	-118.163127
CP_2131	PUB	DEPRESS	7	SQ_FT	34.76395	-118.163014
CP_2132	PUB	DEPRESS	39	SQ_FT	34.76404	-118.162979
CP_2133	PUB	DEPRESS	14	SQ_FT	34.76394	-118.162949

CP_2134	PUB	DEPRESS	8	SQ_FT	34.76372	-118.162929
CP_2135	PUB	DEPRESS	7	SQ_FT	34.76351	-118.162875
CP_2136	PUB	DEPRESS	5	SQ_FT	34.76338	-118.162874
CP_2137	PUB	DEPRESS	11	SQ_FT	34.76396	-118.162857
CP_2138	PUB	DEPRESS	35	SQ_FT	34.76399	-118.162825
CP_2139	PUB	DEPRESS	22	SQ_FT	34.76393	-118.162687
CP_2140	PUB	DEPRESS	174	SQ_FT	34.76397	-118.162675
CP_2141	PUB	DEPRESS	9	SQ_FT	34.76226	-118.162328
CP_2142	PUB	DEPRESS	3	SQ_FT	34.76225	-118.162303
CP_2143	PUB	DEPRESS	23	SQ_FT	34.7623	-118.162237
CP_2144	PUB	DEPRESS	19	SQ_FT	34.76158	-118.162229
CP_2145	PUB	DEPRESS	28	SQ_FT	34.76156	-118.162199
CP_2146	PUB	DEPRESS	50	SQ_FT	34.7594	-118.161941
CP_2147	PUB	DEPRESS	4	SQ_FT	34.75945	-118.16189
CP_2148	PUB	DEPRESS	6	SQ_FT	34.75951	-118.161887
CP_2149-001	PUB	DEPRESS	4	SQ_FT	34.75946	-118.161877
CP_2149-002	PUB	DEPRESS	16	SQ_FT	34.75946	-118.161877
CP_2150	PUB	DEPRESS	139	SQ_FT	34.75936	-118.161676
CP_2151	PUB	DEPRESS	36	SQ_FT	34.76201	-118.161543
CP_2152	PUB	DEPRESS	16	SQ_FT	34.76199	-118.161497
CP_2153	PUB	DEPRESS	16	SQ_FT	34.762	-118.161476
CP_2154	PUB	DEPRESS	35	SQ_FT	34.76201	-118.161456
CP_2155	PUB	DEPRESS	16	SQ_FT	34.76184	-118.161419
CP_2156	PUB	DEPRESS	73	SQ_FT	34.76082	-118.160541
CP_2157	PUB	DEPRESS	5	SQ_FT	34.75874	-118.163194
CP_2158	PUB	DEPRESS	12	SQ_FT	34.75827	-118.162192
CP_2159	PUB	DEPRESS	38	SQ_FT	34.75832	-118.162189
CP_2160	PUB	DEPRESS	21	SQ_FT	34.75838	-118.162184
CP_2161	PUB	DEPRESS	19	SQ_FT	34.75849	-118.162182
CP_2162	PUB	DEPRESS	17	SQ_FT	34.75914	-118.161663
CP_2163	PUB	DEPRESS	28	SQ_FT	34.75877	-118.160973
CP_2164	PUB	DEPRESS	19	SQ_FT	34.75876	-118.160964
CP_2165	PUB	DEPRESS	4	SQ_FT	34.75683	-118.160842
CP_2166	PUB	DEPRESS	15	SQ_FT	34.75591	-118.160068
CP_2167	PUB	DEPRESS	10	SQ_FT	34.75572	-118.159428
CP_2168	PUB	DEPRESS	21	SQ_FT	34.75809	-118.159284
CP_2169	PUB	DEPRESS	26	SQ_FT	34.75747	-118.158309
CP_2170	PUB	DEPRESS	65	SQ_FT	34.75495	-118.157753
CP_2171	PUB	DEPRESS	70	SQ_FT	34.75467	-118.157746
CP_2172	PUB	DEPRESS	47	SQ_FT	34.75682	-118.157741
CP_2173-001	PUB	DEPRESS	47	SQ_FT	34.75521	-118.157451
CP_2173-002	PUB	DEPRESS	32	SQ_FT	34.75521	-118.157451
CP_2174	PUB	DEPRESS	3	SQ_FT	34.75537	-118.157321
CP_2175	PUB	DEPRESS	25	SQ_FT	34.75522	-118.157169
CP_2176	PUB	DEPRESS	11	SQ_FT	34.75258	-118.156001
CP_2177	PUB	DEPRESS	19	SQ_FT	34.75312	-118.155989
CP_2178-001	PUB	DEPRESS	28	SQ_FT	34.75288	-118.155801
CP_2178-002	PUB	DEPRESS	55	SQ_FT	34.75288	-118.155801
CP_2179	PUB	DEPRESS	75	SQ_FT	34.75164	-118.155078
CP_2180	PUB	DEPRESS	39	SQ_FT	34.75124	-118.156234
CP_2181	PUB	DEPRESS	29	SQ_FT	34.75062	-118.15495
CP_2182-001	PUB	DEPRESS	46	SQ_FT	34.75052	-118.154944
CP_2182-002	PUB	DEPRESS	5	SQ_FT	34.75052	-118.154944
CP_2183	PUB	DEPRESS	75	SQ_FT	34.75016	-118.154933
CP_2184	PUB	DEPRESS	52	SQ_FT	34.74943	-118.154885
CP_2185	PUB	DEPRESS	42	SQ_FT	34.74938	-118.15487
CP_2186	PUB	DEPRESS	70	SQ_FT	34.74923	-118.154867
CP_2187	PUB	DEPRESS	12	SQ_FT	34.74934	-118.154867
CP_2188	PUB	DEPRESS	6	SQ_FT	34.74931	-118.154865
CP_2189	PUB	DEPRESS	25	SQ_FT	34.74914	-118.154863
CP_2190	PUB	DEPRESS	19	SQ_FT	34.74876	-118.154851
CP_2191	PUB	DEPRESS	70	SQ_FT	34.74856	-118.154836
CP_2192	PUB	DEPRESS	8	SQ_FT	34.74834	-118.15483
CP_2193	PUB	DEPRESS	15	SQ_FT	34.74752	-118.154361
CP_2194	PUB	DEPRESS	15	SQ_FT	34.74685	-118.153664
CP_2195	PUB	DEPRESS	19.00	SQ_FT	34.74593	-118.153405

CP_2196 PUB	DEPRESS	0.02	ACRE	34.74799	-118.153161	
CP_2197 PUB	DEPRESS	28	SQ_FT	34.7461	-118.153131	
CP_2198 PUB	DEPRESS	41	SQ_FT	34.75024	-118.153128	
CP_2199 PUB	DEPRESS	18	SQ_FT	34.74977	-118.153114	
CP_2200 PUB	DEPRESS	24	SQ_FT	34.74719	-118.153099	
CP_2201 PUB	DEPRESS	106	SQ_FT	34.74869	-118.153099	
CP_2202 PUB	DEPRESS	16	SQ_FT	34.74983	-118.153097	
CP_2203 PUB	DEPRESS	5	SQ_FT	34.74978	-118.153094	
CP_2204 PUB	DEPRESS	18	SQ_FT	34.74862	-118.153091	
CP_2205 PUB	DEPRESS	437	SQ_FT	34.7481	-118.153076	
CP_2206 PUB	DEPRESS	12	SQ_FT	34.74719	-118.153059	
CP_2207 PUB	DEPRESS	7	SQ_FT	34.74533	-118.15303	
CP_2208 PUB	DEPRESS	45	SQ_FT	34.74716	-118.153021	
CP_2209 PUB	DEPRESS	187	SQ_FT	34.74723	-118.153006	
CP_2210 PUB	DEPRESS	6	SQ_FT	34.7453	-118.153004	
CP_2211 PUB	DEPRESS	15	SQ_FT	34.7465	-118.152983	
CP_2212 PUB	DEPRESS	67	SQ_FT	34.74714	-118.152952	
CP_2213 PUB	DEPRESS	18	SQ_FT	34.74528	-118.152916	
CP_2214 PUB	DEPRESS	8	SQ_FT	34.74726	-118.152898	
CP_2215 PUB	DEPRESS	4	SQ_FT	34.74528	-118.152894	
CP_2216 PUB	DEPRESS	53	SQ_FT	34.74542	-118.152862	
CP_2217-001	PUB	DEPRESS	107	SQ_FT	34.74574	-118.153253
CP_2217-002	PUB	DEPRESS	1	SQ_FT	34.74574	-118.153253
CP_2217-003	PUB	DEPRESS	382.00	SQ_FT	34.74585	-118.152856
CP_2217-004	PUB	DEPRESS	0.02	ACRE	34.74585	-118.152856
CP_2217-005	PUB	DEPRESS	2	SQ_FT	34.74585	-118.152856
CP_2217-006	PUB	DEPRESS	326	SQ_FT	34.74585	-118.152856
CP_2217-007	PUB	DEPRESS	26.00	SQ_FT	34.74585	-118.152856
CP_2218 PUB	DEPRESS	0.06	ACRE	34.74691	-118.152742	
CP_2219 PUB	DEPRESS	15	SQ_FT	34.74962	-118.15271	
CP_2220 PUB	DEPRESS	40	SQ_FT	34.74607	-118.152695	
CP_2221 PUB	DEPRESS	90	SQ_FT	34.74728	-118.152585	
CP_2222 PUB	DEPRESS	2	SQ_FT	34.7478	-118.152538	
CP_2223 PUB	DEPRESS	5	SQ_FT	34.74779	-118.152512	
CP_2224 PUB	DEPRESS	51	SQ_FT	34.74627	-118.152458	
CP_2225 PUB	DEPRESS	12	SQ_FT	34.74779	-118.15245	
CP_2226 PUB	DEPRESS	10	SQ_FT	34.74588	-118.152436	
CP_2227 PUB	DEPRESS	4	SQ_FT	34.74723	-118.152401	
CP_2228 PUB	DEPRESS	66.00	SQ_FT	34.74735	-118.152394	
CP_2229 PUB	DEPRESS	0.01	ACRE	34.748	-118.152371	
CP_2230 PUB	DEPRESS	14	SQ_FT	34.74739	-118.152357	
CP_2231 PUB	DEPRESS	54	SQ_FT	34.74613	-118.152334	
CP_2232 PUB	DEPRESS	10	SQ_FT	34.74515	-118.152315	
CP_2233 PUB	DEPRESS	47	SQ_FT	34.74743	-118.152314	
CP_2234 PUB	DEPRESS	2	SQ_FT	34.74717	-118.152303	
CP_2235 PUB	DEPRESS	3	SQ_FT	34.74715	-118.152276	
CP_2236 PUB	DEPRESS	4	SQ_FT	34.74721	-118.15227	
CP_2237 PUB	DEPRESS	9	SQ_FT	34.74719	-118.152223	
CP_2238-001	PUB	DEPRESS	2	SQ_FT	34.74913	-118.152156
CP_2238-002	PUB	DEPRESS	338.00	SQ_FT	34.74913	-118.152156
CP_2238-003	PUB	DEPRESS	0.01	ACRE	34.74913	-118.152156
CP_2238-004	PUB	DEPRESS	210	SQ_FT	34.74913	-118.152156
CP_2239 PUB	DEPRESS	42	SQ_FT	34.74901	-118.152167	
CP_2240 PUB	DEPRESS	7.00	SQ_FT	34.74774	-118.152156	
CP_2241 PUB	DEPRESS	0.26	ACRE	34.7477	-118.15215	
CP_2242 PUB	DEPRESS	3	SQ_FT	34.74718	-118.15213	
CP_2243 PUB	DEPRESS	216	SQ_FT	34.74799	-118.152074	
CP_2244-001	PUB	DEPRESS	62	SQ_FT	34.74826	-118.15201
CP_2244-002	PUB	DEPRESS	2	SQ_FT	34.74826	-118.15201
CP_2244-003	PUB	DEPRESS	7	SQ_FT	34.74826	-118.15201
CP_2244-004	PUB	DEPRESS	95.0	SQ_FT	34.74826	-118.15201
CP_2244-005	PUB	DEPRESS	0.1	SQ_FT	34.74826	-118.15201
CP_2245 PUB	DEPRESS	30	SQ_FT	34.74387	-118.151951	
CP_2246 PUB	DEPRESS	36	SQ_FT	34.74569	-118.151933	
CP_2247 PUB	DEPRESS	41	SQ_FT	34.74778	-118.151915	
CP_2248 PUB	DEPRESS	48	SQ_FT	34.74552	-118.151877	

CP_2249	PUB	DEPRESS	255	SQ_FT	34.74612	-118.151768
CP_2250	PUB	DEPRESS	17	SQ_FT	34.74761	-118.151721
CP_2251	PUB	DEPRESS	15	SQ_FT	34.74895	-118.151613
CP_2252	PUB	DEPRESS	16	SQ_FT	34.74828	-118.151592
CP_2253	PUB	DEPRESS	58	SQ_FT	34.74834	-118.151535
CP_2254-001	PUB	DEPRESS	17	SQ_FT	34.7493	-118.151492
CP_2254-002	PUB	DEPRESS	1	SQ_FT	34.7493	-118.151492
CP_2255	PUB	DEPRESS	24	SQ_FT	34.74576	-118.151491
CP_2256	PUB	DEPRESS	17	SQ_FT	34.74574	-118.151477
CP_2257-001	PUB	DEPRESS	41	SQ_FT	34.74455	-118.151446
CP_2257-002	PUB	DEPRESS	21	SQ_FT	34.74455	-118.151446
CP_2258	PUB	DEPRESS	5	SQ_FT	34.74574	-118.151426
CP_2259	PUB	DEPRESS	13	SQ_FT	34.74575	-118.151401
CP_2260	PUB	DEPRESS	19	SQ_FT	34.74826	-118.1514
CP_2261-001	PUB	DEPRESS	7	SQ_FT	34.74655	-118.151348
CP_2261-002	PUB	DEPRESS	1	SQ_FT	34.74655	-118.151348
CP_2261-003	PUB	DEPRESS	99	SQ_FT	34.74655	-118.151348
CP_2261-004	PUB	DEPRESS	31	SQ_FT	34.74655	-118.151348
CP_2261-005	PUB	DEPRESS	121	SQ_FT	34.74655	-118.151348
CP_2261-006	PUB	DEPRESS	1	SQ_FT	34.74655	-118.151348
CP_2261-007	PUB	DEPRESS	67	SQ_FT	34.74655	-118.151348
CP_2261-008	PUB	DEPRESS	291	SQ_FT	34.74655	-118.151348
CP_2262	PUB	DEPRESS	82	SQ_FT	34.74459	-118.151265
CP_2263	PUB	DEPRESS	235	SQ_FT	34.74401	-118.151215
CP_2264	PUB	DEPRESS	56	SQ_FT	34.74402	-118.151172
CP_2265	PUB	DEPRESS	25	SQ_FT	34.74397	-118.151163
CP_2266	PUB	DEPRESS	9	SQ_FT	34.74811	-118.151157
CP_2267	PUB	DEPRESS	5.00	SQ_FT	34.74425	-118.151134
CP_2268	PUB	DEPRESS	0.03	ACRE	34.748	-118.151053
CP_2269	PUB	DEPRESS	16	SQ_FT	34.744	-118.150964
CP_2270	PUB	DEPRESS	22	SQ_FT	34.74834	-118.150941
CP_2271	PUB	DEPRESS	111	SQ_FT	34.74362	-118.150871
CP_2272	PUB	DEPRESS	31	SQ_FT	34.7436	-118.150845
CP_2273	PUB	DEPRESS	27	SQ_FT	34.74353	-118.150821
CP_2274	PUB	DEPRESS	18	SQ_FT	34.7444	-118.150793
CP_2275-001	PUB	DEPRESS	89	SQ_FT	34.7474	-118.150708
CP_2275-002	PUB	DEPRESS	7	SQ_FT	34.7474	-118.150708
CP_2275-003	PUB	DEPRESS	18	SQ_FT	34.7474	-118.150708
CP_2275-004	PUB	DEPRESS	56	SQ_FT	34.7474	-118.150708
CP_2275-005	PUB	DEPRESS	170.00	SQ_FT	34.7474	-118.150708
CP_2275-006	PUB	DEPRESS	0.03	ACRE	34.7474	-118.150708
CP_2276	PUB	DEPRESS	127	SQ_FT	34.74355	-118.150699
CP_2277	PUB	DEPRESS	3	SQ_FT	34.74711	-118.150687
CP_2278	PUB	DEPRESS	281	SQ_FT	34.74344	-118.150679
CP_2279	PUB	DEPRESS	30	SQ_FT	34.7436	-118.150558
CP_2280	PUB	DEPRESS	9	SQ_FT	34.74364	-118.150552
CP_2281	PUB	DEPRESS	215	SQ_FT	34.74716	-118.150545
CP_2282	PUB	DEPRESS	16	SQ_FT	34.74482	-118.150533
CP_2283	PUB	DEPRESS	9	SQ_FT	34.74474	-118.150442
CP_2284	PUB	DEPRESS	200	SQ_FT	34.74493	-118.150437
CP_2285	PUB	DEPRESS	4	SQ_FT	34.74697	-118.150384
CP_2286	PUB	DEPRESS	105	SQ_FT	34.74725	-118.150378
CP_2287	PUB	DEPRESS	3	SQ_FT	34.74505	-118.150374
CP_2288	PUB	DEPRESS	11	SQ_FT	34.74497	-118.150364
CP_2289	PUB	DEPRESS	455	SQ_FT	34.74638	-118.150322
CP_2290	PUB	DEPRESS	14	SQ_FT	34.74702	-118.150277
CP_2291	PUB	DEPRESS	77	SQ_FT	34.74556	-118.150226
CP_2292	PUB	DEPRESS	9	SQ_FT	34.74426	-118.150219
CP_2293	PUB	DEPRESS	49	SQ_FT	34.74371	-118.150216
CP_2294	PUB	DEPRESS	116	SQ_FT	34.74362	-118.150215
CP_2295	PUB	DEPRESS	24	SQ_FT	34.74365	-118.150194
CP_2296	PUB	DEPRESS	22	SQ_FT	34.74685	-118.150194
CP_2297	PUB	DEPRESS	140	SQ_FT	34.74555	-118.150182
CP_2298	PUB	DEPRESS	10	SQ_FT	34.7456	-118.150167
CP_2299	PUB	DEPRESS	10	SQ_FT	34.7445	-118.150163
CP_2300	PUB	DEPRESS	22	SQ_FT	34.74359	-118.150162

CP_2301	PUB	DEPRESS	150	SQ_FT	34.74538	-118.150155
CP_2302	PUB	DEPRESS	21	SQ_FT	34.7451	-118.150134
CP_2303	PUB	DEPRESS	32	SQ_FT	34.74367	-118.15012
CP_2304	PUB	DEPRESS	88	SQ_FT	34.74684	-118.150114
CP_2305	PUB	DEPRESS	71	SQ_FT	34.74449	-118.150113
CP_2306	PUB	DEPRESS	6	SQ_FT	34.74422	-118.150104
CP_2307	PUB	DEPRESS	5	SQ_FT	34.74543	-118.150086
CP_2308	PUB	DEPRESS	51	SQ_FT	34.7438	-118.150081
CP_2309	PUB	DEPRESS	11	SQ_FT	34.74535	-118.150073
CP_2310	PUB	DEPRESS	16	SQ_FT	34.7442	-118.150072
CP_2311	PUB	DEPRESS	12	SQ_FT	34.74377	-118.15007
CP_2312	PUB	DEPRESS	37	SQ_FT	34.74552	-118.150067
CP_2313	PUB	DEPRESS	81	SQ_FT	34.74385	-118.150053
CP_2314	PUB	DEPRESS	8	SQ_FT	34.74454	-118.150044
CP_2315	PUB	DEPRESS	19	SQ_FT	34.74478	-118.150037
CP_2316	PUB	DEPRESS	44	SQ_FT	34.74472	-118.150031
CP_2317	PUB	DEPRESS	14	SQ_FT	34.74532	-118.150027
CP_2318	PUB	DEPRESS	27	SQ_FT	34.74394	-118.150006
CP_2319	PUB	DEPRESS	22	SQ_FT	34.74513	-118.149999
CP_2320	PUB	DEPRESS	17	SQ_FT	34.74504	-118.149994
CP_2321	PUB	DEPRESS	32	SQ_FT	34.74396	-118.149992
CP_2322	PUB	DEPRESS	19	SQ_FT	34.74389	-118.149974
CP_2323	PUB	DEPRESS	14	SQ_FT	34.74515	-118.149974
CP_2324	PUB	DEPRESS	29	SQ_FT	34.74453	-118.14997
CP_2325	PUB	DEPRESS	15	SQ_FT	34.74406	-118.149967
CP_2326	PUB	DEPRESS	43	SQ_FT	34.74375	-118.149965
CP_2327	PUB	DEPRESS	13	SQ_FT	34.74401	-118.14996
CP_2328	PUB	DEPRESS	15	SQ_FT	34.74503	-118.149955
CP_2329	PUB	DEPRESS	41	SQ_FT	34.74382	-118.149947
CP_2330	PUB	DEPRESS	15	SQ_FT	34.74481	-118.149934
CP_2331	PUB	DEPRESS	16	SQ_FT	34.74502	-118.149928
CP_2332	PUB	DEPRESS	6	SQ_FT	34.74465	-118.149928
CP_2333	PUB	DEPRESS	15	SQ_FT	34.7445	-118.149924
CP_2334	PUB	DEPRESS	178	SQ_FT	34.74343	-118.149918
CP_2335	PUB	DEPRESS	24	SQ_FT	34.74458	-118.149907
CP_2336	PUB	DEPRESS	19	SQ_FT	34.74441	-118.149892
CP_2337	PUB	DEPRESS	25	SQ_FT	34.74437	-118.149881
CP_2338	PUB	DEPRESS	25	SQ_FT	34.74628	-118.149879
CP_2339	PUB	DEPRESS	15	SQ_FT	34.74433	-118.149878
CP_2340	PUB	DEPRESS	13	SQ_FT	34.74504	-118.149864
CP_2341	PUB	DEPRESS	8	SQ_FT	34.74428	-118.149863
CP_2342	PUB	DEPRESS	29	SQ_FT	34.7465	-118.149861
CP_2343	PUB	DEPRESS	11	SQ_FT	34.74486	-118.14986
CP_2344	PUB	DEPRESS	8	SQ_FT	34.74455	-118.149859
CP_2345	PUB	DEPRESS	26	SQ_FT	34.7441	-118.149857
CP_2346	PUB	DEPRESS	25	SQ_FT	34.74529	-118.14985
CP_2347	PUB	DEPRESS	111	SQ_FT	34.74349	-118.149842
CP_2348	PUB	DEPRESS	14	SQ_FT	34.74413	-118.149841
CP_2349	PUB	DEPRESS	13	SQ_FT	34.74419	-118.149835
CP_2350	PUB	DEPRESS	103	SQ_FT	34.74537	-118.149826
CP_2351	PUB	DEPRESS	13	SQ_FT	34.74366	-118.149823
CP_2352	PUB	DEPRESS	36	SQ_FT	34.74557	-118.149802
CP_2353-001	PUB	DEPRESS	193	SQ_FT	34.74453	-118.149798
CP_2353-002	PUB	DEPRESS	84	SQ_FT	34.74453	-118.149798
CP_2354	PUB	DEPRESS	7	SQ_FT	34.74554	-118.149785
CP_2355	PUB	DEPRESS	16	SQ_FT	34.7446	-118.149779
CP_2356	PUB	DEPRESS	151	SQ_FT	34.74355	-118.149777
CP_2357	PUB	DEPRESS	18	SQ_FT	34.74577	-118.149763
CP_2358	PUB	DEPRESS	108	SQ_FT	34.74372	-118.14976
CP_2359	PUB	DEPRESS	48	SQ_FT	34.74376	-118.149752
CP_2360	PUB	DEPRESS	47	SQ_FT	34.74562	-118.149745
CP_2361	PUB	DEPRESS	57	SQ_FT	34.74526	-118.149727
CP_2362	PUB	DEPRESS	23	SQ_FT	34.74508	-118.149718
CP_2363	PUB	DEPRESS	22	SQ_FT	34.74449	-118.149698
CP_2364	PUB	DEPRESS	72	SQ_FT	34.74569	-118.149693
CP_2365	PUB	DEPRESS	9	SQ_FT	34.74461	-118.149691

CP_2366	PUB	DEPRESS	11.00	SQ_FT	34.746	-118.14968
CP_2367	PUB	DEPRESS	0.08	ACRE	34.74387	-118.149678
CP_2368	PUB	DEPRESS	438	SQ_FT	34.74425	-118.149676
CP_2369	PUB	DEPRESS	22	SQ_FT	34.74518	-118.149673
CP_2370	PUB	DEPRESS	48	SQ_FT	34.74504	-118.149668
CP_2371	PUB	DEPRESS	47	SQ_FT	34.74431	-118.149657
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CP_2373	PUB	DEPRESS	6	SQ_FT	34.74423	-118.149654
CP_2374	PUB	DEPRESS	177	SQ_FT	34.74545	-118.149651
CP_2375	PUB	DEPRESS	5	SQ_FT	34.74449	-118.149649
CP_2376	PUB	DEPRESS	15	SQ_FT	34.74481	-118.149635
CP_2377	PUB	DEPRESS	10	SQ_FT	34.74484	-118.149632
CP_2378	PUB	DEPRESS	28	SQ_FT	34.74464	-118.149627
CP_2379	PUB	DEPRESS	14	SQ_FT	34.7443	-118.149626
CP_2380	PUB	DEPRESS	8	SQ_FT	34.7444	-118.14962
CP_2381	PUB	DEPRESS	16	SQ_FT	34.74467	-118.149617
CP_2382	PUB	DEPRESS	14	SQ_FT	34.74475	-118.149615
CP_2383	PUB	DEPRESS	22	SQ_FT	34.74576	-118.149615
CP_2384	PUB	DEPRESS	17	SQ_FT	34.74431	-118.149601
CP_2385	PUB	DEPRESS	28	SQ_FT	34.74392	-118.149601
CP_2386	PUB	DEPRESS	97	SQ_FT	34.74574	-118.149592
CP_2387	PUB	DEPRESS	43	SQ_FT	34.74396	-118.149582
CP_2388	PUB	DEPRESS	84	SQ_FT	34.74581	-118.149578
CP_2389-001	PUB	DEPRESS	64.00	SQ_FT	34.7437	-118.149555
CP_2389-002	PUB	DEPRESS	0.03	ACRE	34.7437	-118.149555
CP_2390	PUB	DEPRESS	22	SQ_FT	34.74498	-118.149547
CP_2391	PUB	DEPRESS	43	SQ_FT	34.74352	-118.149538
CP_2392	PUB	DEPRESS	45	SQ_FT	34.74528	-118.149523
CP_2393	PUB	DEPRESS	31	SQ_FT	34.74505	-118.149506
CP_2394	PUB	DEPRESS	27	SQ_FT	34.74379	-118.149498
CP_2395	PUB	DEPRESS	23	SQ_FT	34.74427	-118.149487
CP_2396	PUB	DEPRESS	3	SQ_FT	34.7438	-118.149483
CP_2397	PUB	DEPRESS	20	SQ_FT	34.74527	-118.14948
CP_2398	PUB	DEPRESS	87	SQ_FT	34.74516	-118.149463
CP_2399	PUB	DEPRESS	10	SQ_FT	34.74407	-118.149463
CP_2400	PUB	DEPRESS	5	SQ_FT	34.74361	-118.149452
CP_2401	PUB	DEPRESS	19	SQ_FT	34.74405	-118.14945
CP_2402	PUB	DEPRESS	6	SQ_FT	34.74417	-118.149449
CP_2403	PUB	DEPRESS	46	SQ_FT	34.74554	-118.149439
CP_2404	PUB	DEPRESS	9	SQ_FT	34.74386	-118.149437
CP_2405	PUB	DEPRESS	7	SQ_FT	34.74399	-118.149428
CP_2406	PUB	DEPRESS	5	SQ_FT	34.74417	-118.149423
CP_2407	PUB	DEPRESS	52	SQ_FT	34.74516	-118.149414
CP_2408	PUB	DEPRESS	13	SQ_FT	34.74407	-118.149413
CP_2409	PUB	DEPRESS	34	SQ_FT	34.74413	-118.149411
CP_2410	PUB	DEPRESS	21	SQ_FT	34.74346	-118.149405
CP_2411	PUB	DEPRESS	49	SQ_FT	34.74528	-118.149397
CP_2412	PUB	DEPRESS	40	SQ_FT	34.74532	-118.149385
CP_2413	PUB	DEPRESS	15	SQ_FT	34.74533	-118.149381
CP_2414	PUB	DEPRESS	19	SQ_FT	34.74582	-118.14938
CP_2415	PUB	DEPRESS	13	SQ_FT	34.74436	-118.149378
CP_2416	PUB	DEPRESS	68	SQ_FT	34.74448	-118.149372
CP_2417	PUB	DEPRESS	36	SQ_FT	34.74423	-118.149366
CP_2418	PUB	DEPRESS	45	SQ_FT	34.74383	-118.149345
CP_2419	PUB	DEPRESS	41	SQ_FT	34.74388	-118.149337
CP_2420	PUB	DEPRESS	81	SQ_FT	34.74572	-118.149324
CP_2421	PUB	DEPRESS	128	SQ_FT	34.74401	-118.149324
CP_2422	PUB	DEPRESS	33	SQ_FT	34.74384	-118.149319
CP_2423	PUB	DEPRESS	74	SQ_FT	34.74515	-118.149319
CP_2424	PUB	DEPRESS	49	SQ_FT	34.74543	-118.149314
CP_2425	PUB	DEPRESS	15	SQ_FT	34.74508	-118.149305
CP_2426	PUB	DEPRESS	12	SQ_FT	34.745	-118.149289
CP_2427	PUB	DEPRESS	22	SQ_FT	34.74395	-118.149282
CP_2428	PUB	DEPRESS	5	SQ_FT	34.74463	-118.149281
CP_2429	PUB	DEPRESS	45	SQ_FT	34.74503	-118.149277
CP_2430	PUB	DEPRESS	8	SQ_FT	34.74441	-118.149274

CP_2431 PUB	DEPRESS	10	SQ_FT	34.74409	-118.149273
CP_2432 PUB	DEPRESS	20	SQ_FT	34.74506	-118.149271
CP_2433 PUB	DEPRESS	25	SQ_FT	34.74399	-118.149245
CP_2434 PUB	DEPRESS	39	SQ_FT	34.74454	-118.149241
CP_2435 PUB	DEPRESS	25	SQ_FT	34.74496	-118.149238
CP_2436 PUB	DEPRESS	32	SQ_FT	34.74351	-118.149237
CP_2437 PUB	DEPRESS	215	SQ_FT	34.74555	-118.14923
CP_2438 PUB	DEPRESS	46	SQ_FT	34.74513	-118.149226
CP_2439 PUB	DEPRESS	17	SQ_FT	34.74354	-118.149215
CP_2440 PUB	DEPRESS	376	SQ_FT	34.74742	-118.149213
CP_2441 PUB	DEPRESS	126	SQ_FT	34.7448	-118.149206
CP_2442 PUB	DEPRESS	9	SQ_FT	34.74412	-118.149202
CP_2443 PUB	DEPRESS	13.00	SQ_FT	34.74358	-118.149194
CP_2444 PUB	DEPRESS	0.01	ACRE	34.74418	-118.149183
CP_2445 PUB	DEPRESS	53	SQ_FT	34.74543	-118.149178
CP_2446 PUB	DEPRESS	23	SQ_FT	34.7436	-118.149163
CP_2447 PUB	DEPRESS	39	SQ_FT	34.74537	-118.149148
CP_2448 PUB	DEPRESS	139	SQ_FT	34.7446	-118.149141
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CP_2450 PUB	DEPRESS	99	SQ_FT	34.74737	-118.149132
CP_2451 PUB	DEPRESS	17	SQ_FT	34.74362	-118.149117
CP_2452 PUB	DEPRESS	5	SQ_FT	34.74464	-118.149099
CP_2453 PUB	DEPRESS	28	SQ_FT	34.74487	-118.149098
CP_2454 PUB	DEPRESS	3	SQ_FT	34.74362	-118.149097
CP_2455 PUB	DEPRESS	58	SQ_FT	34.7436	-118.149092
CP_2456 PUB	DEPRESS	13	SQ_FT	34.74742	-118.149091
CP_2457 PUB	DEPRESS	18	SQ_FT	34.74768	-118.149088
CP_2458 PUB	DEPRESS	391	SQ_FT	34.74522	-118.149078
CP_2459 PUB	DEPRESS	35	SQ_FT	34.74466	-118.149073
CP_2460 PUB	DEPRESS	50	SQ_FT	34.74372	-118.149072
CP_2461 PUB	DEPRESS	25	SQ_FT	34.74362	-118.149059
CP_2462 PUB	DEPRESS	20	SQ_FT	34.74497	-118.149058
CP_2463 PUB	DEPRESS	24	SQ_FT	34.74365	-118.149044
CP_2464 PUB	DEPRESS	18	SQ_FT	34.7437	-118.149035
CP_2465 PUB	DEPRESS	65	SQ_FT	34.74502	-118.149031
CP_2466 PUB	DEPRESS	26	SQ_FT	34.74368	-118.149028
CP_2467 PUB	DEPRESS	46.00	SQ_FT	34.74531	-118.149014
CP_2468 PUB	DEPRESS	0.04	ACRE	34.74766	-118.149005
CP_2469 PUB	DEPRESS	40	SQ_FT	34.74506	-118.148978
CP_2470 PUB	DEPRESS	8	SQ_FT	34.74738	-118.148962
CP_2471 PUB	DEPRESS	23	SQ_FT	34.74472	-118.148953
CP_2472 PUB	DEPRESS	93	SQ_FT	34.74754	-118.148922
CP_2473 PUB	DEPRESS	6	SQ_FT	34.74361	-118.148907
CP_2474 PUB	DEPRESS	16	SQ_FT	34.74782	-118.148896
CP_2475 PUB	DEPRESS	12	SQ_FT	34.74773	-118.148884
CP_2476 PUB	DEPRESS	5	SQ_FT	34.7444	-118.14888
CP_2477 PUB	DEPRESS	14	SQ_FT	34.74454	-118.148873
CP_2478 PUB	DEPRESS	167	SQ_FT	34.74472	-118.148836
CP_2479 PUB	DEPRESS	81	SQ_FT	34.74757	-118.1488
CP_2480 PUB	DEPRESS	12	SQ_FT	34.74749	-118.148797
CP_2481 PUB	DEPRESS	87	SQ_FT	34.74737	-118.148787
CP_2482 PUB	DEPRESS	126	SQ_FT	34.74757	-118.148784
CP_2483 PUB	DEPRESS	16	SQ_FT	34.74452	-118.148775
CP_2484 PUB	DEPRESS	8	SQ_FT	34.74437	-118.148759
CP_2485 PUB	DEPRESS	22	SQ_FT	34.74482	-118.148759
CP_2486 PUB	DEPRESS	17	SQ_FT	34.74449	-118.148744
CP_2487 PUB	DEPRESS	115	SQ_FT	34.74352	-118.148721
CP_2488 PUB	DEPRESS	345	SQ_FT	34.74776	-118.14871
CP_2489 PUB	DEPRESS	126	SQ_FT	34.74747	-118.148696
CP_2490 PUB	DEPRESS	74	SQ_FT	34.74753	-118.148678
CP_2491 PUB	DEPRESS	85	SQ_FT	34.74776	-118.148654
CP_2492 PUB	DEPRESS	17	SQ_FT	34.74734	-118.148632
CP_2493 PUB	DEPRESS	68	SQ_FT	34.74753	-118.14863
CP_2494 PUB	DEPRESS	60	SQ_FT	34.74779	-118.148616
CP_2495 PUB	DEPRESS	19	SQ_FT	34.74734	-118.148609
CP_2496 PUB	DEPRESS	15	SQ_FT	34.74453	-118.148511

CP_2497 PUB	DEPRESS	12	SQ_FT	34.74351	-118.148493
CP_2498 PUB	DEPRESS	10	SQ_FT	34.74449	-118.14849
CP_2499 PUB	DEPRESS	32	SQ_FT	34.74367	-118.148485
CP_2500 PUB	DEPRESS	49	SQ_FT	34.7437	-118.148472
CP_2501 PUB	DEPRESS	8.00	SQ_FT	34.74346	-118.148456
CP_2502 PUB	DEPRESS	0.05	ACRE	34.74356	-118.148417
CP_2503 PUB	DEPRESS	56	SQ_FT	34.74378	-118.148336
CP_2504 PUB	DEPRESS	20	SQ_FT	34.74377	-118.148304
CP_2505 PUB	DEPRESS	62	SQ_FT	34.74374	-118.148288
CP_2506 PUB	DEPRESS	8.00	SQ_FT	34.74415	-118.148288
CP_2507 PUB	DEPRESS	0.04	ACRE	34.744	-118.148274
CP_2508 PUB	DEPRESS	0.05	ACRE	34.74359	-118.148192
CP_2509 PUB	DEPRESS	23	SQ_FT	34.74306	-118.151264
CP_2510 PUB	DEPRESS	15	SQ_FT	34.74313	-118.151175
CP_2511 PUB	DEPRESS	14	SQ_FT	34.74315	-118.151141
CP_2512 PUB	DEPRESS	26	SQ_FT	34.74322	-118.151088
CP_2513 PUB	DEPRESS	7	SQ_FT	34.74319	-118.151007
CP_2514 PUB	DEPRESS	8	SQ_FT	34.7432	-118.150996
CP_2515 PUB	DEPRESS	8	SQ_FT	34.74218	-118.150905
CP_2516 PUB	DEPRESS	26	SQ_FT	34.74334	-118.150889
CP_2517 PUB	DEPRESS	16	SQ_FT	34.74233	-118.150865
CP_2518 PUB	DEPRESS	14	SQ_FT	34.74233	-118.15082
CP_2519 PUB	DEPRESS	14	SQ_FT	34.74231	-118.150794
CP_2520 PUB	DEPRESS	17	SQ_FT	34.74335	-118.150789
CP_2521 PUB	DEPRESS	5	SQ_FT	34.74287	-118.15077
CP_2522 PUB	DEPRESS	14	SQ_FT	34.7423	-118.150749
CP_2523 PUB	DEPRESS	6	SQ_FT	34.7433	-118.150749
CP_2524 PUB	DEPRESS	10	SQ_FT	34.74226	-118.150748
CP_2525 PUB	DEPRESS	37	SQ_FT	34.74291	-118.150717
CP_2526 PUB	DEPRESS	5	SQ_FT	34.74177	-118.150716
CP_2527 PUB	DEPRESS	12	SQ_FT	34.74283	-118.150714
CP_2528 PUB	DEPRESS	8	SQ_FT	34.74279	-118.150707
CP_2529 PUB	DEPRESS	76	SQ_FT	34.74286	-118.150703
CP_2530 PUB	DEPRESS	15.00	SQ_FT	34.74177	-118.150694
CP_2531 PUB	DEPRESS	0.01	ACRE	34.74332	-118.150671
CP_2532 PUB	DEPRESS	80	SQ_FT	34.74274	-118.150665
CP_2533 PUB	DEPRESS	23	SQ_FT	34.74181	-118.150656
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CP_2535 PUB	DEPRESS	25	SQ_FT	34.74297	-118.15062
CP_2536 PUB	DEPRESS	61	SQ_FT	34.74303	-118.150597
CP_2537 PUB	DEPRESS	45	SQ_FT	34.74189	-118.150586
CP_2538 PUB	DEPRESS	46	SQ_FT	34.7415	-118.150563
CP_2539 PUB	DEPRESS	29	SQ_FT	34.74156	-118.150562
CP_2540 PUB	DEPRESS	41	SQ_FT	34.74285	-118.150531
CP_2541 PUB	DEPRESS	38	SQ_FT	34.74184	-118.150526
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CP_2543 PUB	DEPRESS	13	SQ_FT	34.74321	-118.150501
CP_2544 PUB	DEPRESS	26	SQ_FT	34.74298	-118.150496
CP_2545 PUB	DEPRESS	25	SQ_FT	34.74281	-118.150487
CP_2546 PUB	DEPRESS	9	SQ_FT	34.74199	-118.150482
CP_2547 PUB	DEPRESS	36	SQ_FT	34.74183	-118.150472
CP_2548 PUB	DEPRESS	37	SQ_FT	34.74294	-118.150461
CP_2549 PUB	DEPRESS	15	SQ_FT	34.74169	-118.150451
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CP_2551 PUB	DEPRESS	71	SQ_FT	34.74275	-118.15042
CP_2552 PUB	DEPRESS	258	SQ_FT	34.7417	-118.150419
CP_2553 PUB	DEPRESS	63	SQ_FT	34.74316	-118.15041
CP_2554 PUB	DEPRESS	7	SQ_FT	34.74242	-118.15039
CP_2555 PUB	DEPRESS	26	SQ_FT	34.74173	-118.150368
CP_2556 PUB	DEPRESS	230	SQ_FT	34.74321	-118.150365
CP_2557 PUB	DEPRESS	49	SQ_FT	34.74294	-118.150345
CP_2558 PUB	DEPRESS	22	SQ_FT	34.74337	-118.150343
CP_2559 PUB	DEPRESS	110	SQ_FT	34.74327	-118.150322
CP_2560 PUB	DEPRESS	310.0	SQ_FT	34.74301	-118.150294
CP_2561 PUB	DEPRESS	0.1	SQ_FT	34.74175	-118.15029
CP_2562 PUB	DEPRESS	145	SQ_FT	34.74173	-118.150288

CP_2563	PUB	DEPRESS	33	SQ_FT	34.74238 -118.150273
CP_2564	PUB	DEPRESS	33	SQ_FT	34.74272 -118.150266
CP_2565	PUB	DEPRESS	115	SQ_FT	34.74245 -118.15026
CP_2566	PUB	DEPRESS	32	SQ_FT	34.74271 -118.150238
CP_2567	PUB	DEPRESS	18.00	SQ_FT	34.74288 -118.150236
CP_2568	PUB	DEPRESS	0.03	ACRE	34.74184 -118.150228
CP_2569	PUB	DEPRESS	9	SQ_FT	34.74329 -118.150209
CP_2570	PUB	DEPRESS	29	SQ_FT	34.74283 -118.150197
CP_2571	PUB	DEPRESS	14	SQ_FT	34.74307 -118.150187
CP_2572	PUB	DEPRESS	63	SQ_FT	34.74286 -118.150181
CP_2573	PUB	DEPRESS	29	SQ_FT	34.74202 -118.150164
CP_2574	PUB	DEPRESS	14	SQ_FT	34.74138 -118.150161
CP_2575	PUB	DEPRESS	15	SQ_FT	34.74308 -118.150157
CP_2576	PUB	DEPRESS	26	SQ_FT	34.74286 -118.150157
CP_2577	PUB	DEPRESS	131	SQ_FT	34.74198 -118.150125
CP_2578	PUB	DEPRESS	57	SQ_FT	34.74247 -118.15008
CP_2579	PUB	DEPRESS	112	SQ_FT	34.74331 -118.150076
CP_2580	PUB	DEPRESS	74	SQ_FT	34.74139 -118.150071
CP_2581	PUB	DEPRESS	18	SQ_FT	34.74262 -118.150062
CP_2582	PUB	DEPRESS	9	SQ_FT	34.74099 -118.150057
CP_2583	PUB	DEPRESS	14	SQ_FT	34.74264 -118.150053
CP_2584	PUB	DEPRESS	51	SQ_FT	34.74136 -118.150045
CP_2585	PUB	DEPRESS	347	SQ_FT	34.74189 -118.150044
CP_2586	PUB	DEPRESS	46	SQ_FT	34.74337 -118.150026
CP_2587	PUB	DEPRESS	5	SQ_FT	34.74255 -118.150016
CP_2588	PUB	DEPRESS	45	SQ_FT	34.74221 -118.149994
CP_2589	PUB	DEPRESS	10	SQ_FT	34.74339 -118.149988
CP_2590	PUB	DEPRESS	113	SQ_FT	34.74105 -118.149954
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CP_2592-001	PUB	DEPRESS	19.00	SQ_FT	34.74049 -118.149921
CP_2592-002	PUB	DEPRESS	0.06	ACRE	34.74049 -118.149921
CP_2593	PUB	DEPRESS	15	SQ_FT	34.74246 -118.149915
CP_2594	PUB	DEPRESS	15	SQ_FT	34.74334 -118.149909
CP_2595	PUB	DEPRESS	26	SQ_FT	34.74097 -118.149895
CP_2596	PUB	DEPRESS	10	SQ_FT	34.74257 -118.149868
CP_2597	PUB	DEPRESS	83	SQ_FT	34.74253 -118.14986
CP_2598	PUB	DEPRESS	49	SQ_FT	34.74216 -118.149856
CP_2599	PUB	DEPRESS	17	SQ_FT	34.74218 -118.149853
CP_2600	PUB	DEPRESS	6	SQ_FT	34.74249 -118.149849
CP_2601	PUB	DEPRESS	6	SQ_FT	34.74247 -118.149849
CP_2602	PUB	DEPRESS	6	SQ_FT	34.74214 -118.149848
CP_2603	PUB	DEPRESS	19	SQ_FT	34.7425 -118.149844
CP_2604	PUB	DEPRESS	81	SQ_FT	34.74209 -118.149827
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CP_2606	PUB	DEPRESS	6	SQ_FT	34.7406 -118.14979
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CP_2609	PUB	DEPRESS	15	SQ_FT	34.74259 -118.149757
CP_2610	PUB	DEPRESS	51	SQ_FT	34.74272 -118.149756
CP_2611	PUB	DEPRESS	56	SQ_FT	34.74187 -118.149743
CP_2612	PUB	DEPRESS	7	SQ_FT	34.7424 -118.14972
CP_2613	PUB	DEPRESS	13	SQ_FT	34.7418 -118.149717
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CP_2619	PUB	DEPRESS	16	SQ_FT	34.74146 -118.149685
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CP_2631 PUB	DEPRESS	15	SQ_FT	34.74015	-118.149559
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CP_2639 PUB	DEPRESS	9	SQ_FT	34.7406	-118.149455
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CP_2674 PUB	DEPRESS	113	SQ_FT	34.74132	-118.149058
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CP_2700 PUB	DEPRESS	13	SQ_FT	34.74023	-118.148676
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CP_2715 PUB	DEPRESS	4	SQ_FT	34.74176	-118.147871
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CP_2717 PUB	DEPRESS	38	SQ_FT	34.74044	-118.147839
CP_2718 PUB	DEPRESS	9	SQ_FT	34.74058	-118.147818
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CP_2727 PUB	DEPRESS	19	SQ_FT	34.7422	-118.14763
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CP_2731 PUB	DEPRESS	29	SQ_FT	34.74083	-118.147545
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CP_2765	PUB	DEPRESS	26	SQ_FT	34.74177	-118.146666
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CP_2770	PUB	DEPRESS	12	SQ_FT	34.73561	-118.146242
CP_2771	PUB	DEPRESS	10	SQ_FT	34.73591	-118.146102
CP_2772	PUB	DEPRESS	8	SQ_FT	34.73804	-118.146076
CP_2773	PUB	DEPRESS	239	SQ_FT	34.73595	-118.146001
CP_2774	PUB	DEPRESS	10	SQ_FT	34.73739	-118.145982
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PD_2776	PUB	DEPRESS	28	SQ_FT	34.73558	-118.145936
CP_2777	PUB	DEPRESS	12	SQ_FT	34.73594	-118.145877
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CP_2779	PUB	DEPRESS	12.00	SQ_FT	34.73993	-118.14584
PD_2780	PUB	DEPRESS	0.04	ACRE	34.73579	-118.145804
CP_2781	PUB	DEPRESS	16	SQ_FT	34.74002	-118.145792
PD_2782	PUB	DEPRESS	36	SQ_FT	34.73589	-118.145705
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PD_2786	PUB	DEPRESS	63	SQ_FT	34.73587	-118.14553
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PD_2793	PUB	DEPRESS	166	SQ_FT	34.73579	-118.145319
PD_2794	PUB	DEPRESS	36	SQ_FT	34.73575	-118.145312
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PD_2800	PUB	DEPRESS	19	SQ_FT	34.73589	-118.145127
CP_2801	PUB	DEPRESS	11	SQ_FT	34.7369	-118.145116
PD_2802	PUB	DEPRESS	110	SQ_FT	34.73589	-118.145003
PD_2803-001	PUB	DEPRESS	3	SQ_FT	34.73555	-118.144903
PD_2803-002	PUB	DEPRESS	38	SQ_FT	34.73555	-118.144903
PD_2804-001	PUB	DEPRESS	87	SQ_FT	34.7355	-118.14487
PD_2804-002	PUB	DEPRESS	8	SQ_FT	34.7355	-118.14487
CP_2805	PUB	DEPRESS	208	SQ_FT	34.73792	-118.144856
PD_2806	PUB	DEPRESS	173.00	SQ_FT	34.73583	-118.144781
PD_2807	PUB	DEPRESS	0.04	ACRE	34.73565	-118.143783
PD_2808	PUB	DEPRESS	50	SQ_FT	34.7355	-118.143381
CP_2809	PUB	DEPRESS	361	SQ_FT	34.736	-118.1433
CP_2810	PUB	DEPRESS	14	SQ_FT	34.73796	-118.142322
CP_2811	PUB	DEPRESS	149.00	SQ_FT	34.7376	-118.142253
CP_2812	PUB	DEPRESS	0.02	ACRE	34.73675	-118.142224
CP_2813	PUB	DEPRESS	42	SQ_FT	34.73559	-118.142202
CP_2814	PUB	DEPRESS	51	SQ_FT	34.7365	-118.142184
CP_2815	PUB	DEPRESS	28	SQ_FT	34.73696	-118.141896
CP_2816	PUB	DEPRESS	59	SQ_FT	34.73705	-118.141765
CP_2817	PUB	DEPRESS	115	SQ_FT	34.73713	-118.141685
CP_2818	PUB	DEPRESS	139	SQ_FT	34.73707	-118.141651
CP_2819	PUB	DEPRESS	14	SQ_FT	34.73637	-118.141525
CP_2820	PUB	DEPRESS	120.00	SQ_FT	34.73556	-118.140042
CP_2821	PUB	DEPRESS	0.10	ACRE	34.73601	-118.139805
CP_2822	PUB	DEPRESS	0.24	ACRE	34.73609	-118.139297

CP_2823-001	PUB	DEPRESS	16.0	SQ_FT	34.73593	-118.138732
CP_2823-002	PUB	DEPRESS	0.2	SQ_FT	34.73593	-118.138732
CP_2824	PUB	DEPRESS	6	SQ_FT	34.73632	-118.137869
CP_2825	PUB	DEPRESS	2	SQ_FT	34.73634	-118.137724
CP_2826	PUB	DEPRESS	19	SQ_FT	34.73632	-118.137706
CP_2827	PUB	DEPRESS	1	SQ_FT	34.73633	-118.137701
CP_2828	PUB	DEPRESS	22	SQ_FT	34.73628	-118.137701
CP_2829	PUB	DEPRESS	7	SQ_FT	34.73619	-118.137532
CP_2830	PUB	DEPRESS	8	SQ_FT	34.73593	-118.137371
CP_2831	PUB	DEPRESS	112	SQ_FT	34.73382	-118.150849
CP_2832	PUB	DEPRESS	18	SQ_FT	34.73312	-118.150802
CP_2833	PUB	DEPRESS	91	SQ_FT	34.73399	-118.150776
CP_2834	PUB	DEPRESS	10	SQ_FT	34.73396	-118.150769
CP_2835	PUB	DEPRESS	254	SQ_FT	34.73393	-118.150761
CP_2836	PUB	DEPRESS	206.00	SQ_FT	34.73402	-118.150721
CP_2837	PUB	DEPRESS	0.02	ACRE	34.73411	-118.150658
CP_2838	PUB	DEPRESS	40	SQ_FT	34.73271	-118.150638
CP_2839	PUB	DEPRESS	12	SQ_FT	34.73266	-118.150629
CP_2840	PUB	DEPRESS	11	SQ_FT	34.73269	-118.150618
CP_2841	PUB	DEPRESS	4	SQ_FT	34.73266	-118.150608
CP_2842	PUB	DEPRESS	24	SQ_FT	34.73418	-118.15057
CP_2843	PUB	DEPRESS	28	SQ_FT	34.7338	-118.150567
CP_2844	PUB	DEPRESS	86	SQ_FT	34.73269	-118.150546
CP_2845	PUB	DEPRESS	106	SQ_FT	34.7342	-118.150536
CP_2846	PUB	DEPRESS	13	SQ_FT	34.73273	-118.150519
CP_2847	PUB	DEPRESS	11	SQ_FT	34.73251	-118.150516
CP_2848	PUB	DEPRESS	55	SQ_FT	34.73255	-118.15051
CP_2849	PUB	DEPRESS	24	SQ_FT	34.73264	-118.150482
CP_2850	PUB	DEPRESS	17	SQ_FT	34.73249	-118.150478
CP_2851	PUB	DEPRESS	28	SQ_FT	34.73291	-118.150469
CP_2852	PUB	DEPRESS	34	SQ_FT	34.73364	-118.150467
CP_2853	PUB	DEPRESS	80	SQ_FT	34.73406	-118.150428
CP_2854	PUB	DEPRESS	25	SQ_FT	34.73263	-118.150381
CP_2855	PUB	DEPRESS	77	SQ_FT	34.73249	-118.150375
CP_2856	PUB	DEPRESS	53	SQ_FT	34.73406	-118.150368
CP_2857	PUB	DEPRESS	360	SQ_FT	34.73256	-118.15036
CP_2858	PUB	DEPRESS	21	SQ_FT	34.73262	-118.15035
CP_2859	PUB	DEPRESS	145	SQ_FT	34.73402	-118.150347
CP_2860	PUB	DEPRESS	10	SQ_FT	34.73262	-118.150309
CP_2861	PUB	DEPRESS	7	SQ_FT	34.73249	-118.150299
CP_2862	PUB	DEPRESS	39	SQ_FT	34.7327	-118.150285
CP_2863	PUB	DEPRESS	41	SQ_FT	34.73395	-118.150282
CP_2864	PUB	DEPRESS	58	SQ_FT	34.73308	-118.150234
CP_2865	PUB	DEPRESS	70	SQ_FT	34.73368	-118.15021
CP_2866	PUB	DEPRESS	43	SQ_FT	34.73422	-118.150161
CP_2867	PUB	DEPRESS	63	SQ_FT	34.734	-118.150126
CP_2868	PUB	DEPRESS	35	SQ_FT	34.73427	-118.150081
CP_2869	PUB	DEPRESS	36	SQ_FT	34.73308	-118.150056
CP_2870	PUB	DEPRESS	142	SQ_FT	34.7342	-118.149983
CP_2871	PUB	DEPRESS	208	SQ_FT	34.73429	-118.149973
CP_2872	PUB	DEPRESS	36	SQ_FT	34.73254	-118.149953
CP_2873	PUB	DEPRESS	36	SQ_FT	34.7337	-118.149944
CP_2874	PUB	DEPRESS	53	SQ_FT	34.73416	-118.149943
CP_2875	PUB	DEPRESS	13	SQ_FT	34.73274	-118.149905
CP_2876	PUB	DEPRESS	133	SQ_FT	34.73295	-118.149898
CP_2877	PUB	DEPRESS	97	SQ_FT	34.73268	-118.149868
CP_2878	PUB	DEPRESS	37	SQ_FT	34.73296	-118.149804
CP_2879	PUB	DEPRESS	24	SQ_FT	34.73261	-118.149789
CP_2880	PUB	DEPRESS	58	SQ_FT	34.73287	-118.149785
CP_2881	PUB	DEPRESS	41	SQ_FT	34.73271	-118.149754
CP_2882	PUB	DEPRESS	14	SQ_FT	34.73234	-118.149706
CP_2883	PUB	DEPRESS	72	SQ_FT	34.73419	-118.14968
CP_2884	PUB	DEPRESS	78	SQ_FT	34.7327	-118.149661
CP_2885	PUB	DEPRESS	263.00	SQ_FT	34.73265	-118.149554
CP_2886	PUB	DEPRESS	0.01	ACRE	34.73362	-118.14952
CP_2887	PUB	DEPRESS	226	SQ_FT	34.73393	-118.149496

CP_2888	PUB	DEPRESS	24	SQ_FT	34.73372	-118.149488
CP_2889	PUB	DEPRESS	38	SQ_FT	34.73374	-118.149449
CP_2890	PUB	DEPRESS	28	SQ_FT	34.73358	-118.149431
CP_2891	PUB	DEPRESS	6	SQ_FT	34.73405	-118.14939
CP_2892	PUB	DEPRESS	32	SQ_FT	34.734	-118.149387
CP_2893	PUB	DEPRESS	43	SQ_FT	34.73421	-118.149366
CP_2894	PUB	DEPRESS	48	SQ_FT	34.73268	-118.149267
CP_2895	PUB	DEPRESS	29	SQ_FT	34.73353	-118.149241
CP_2896	PUB	DEPRESS	106	SQ_FT	34.73415	-118.149183
CP_2897	PUB	DEPRESS	53	SQ_FT	34.73249	-118.149161
CP_2898	PUB	DEPRESS	61	SQ_FT	34.73241	-118.149108
CP_2899	PUB	DEPRESS	47	SQ_FT	34.7324	-118.149013
CP_2900	PUB	DEPRESS	89	SQ_FT	34.73279	-118.148874
CP_2901	PUB	DEPRESS	33.00	SQ_FT	34.73226	-118.148817
CP_2902	PUB	DEPRESS	0.06	ACRE	34.73266	-118.148743
CP_2903	PUB	DEPRESS	15	SQ_FT	34.73362	-118.148712
CP_2904	PUB	DEPRESS	28	SQ_FT	34.73363	-118.148693
CP_2905	PUB	DEPRESS	21	SQ_FT	34.73366	-118.148666
CP_2906-001	PUB	DEPRESS	77	SQ_FT	34.73409	-118.148589
CP_2906-002	PUB	DEPRESS	5	SQ_FT	34.73409	-118.148589
CP_2907	PUB	DEPRESS	5	SQ_FT	34.73397	-118.148585
CP_2908	PUB	DEPRESS	33	SQ_FT	34.73382	-118.148582
CP_2909	PUB	DEPRESS	9	SQ_FT	34.73407	-118.148573
CP_2910	PUB	DEPRESS	21	SQ_FT	34.734	-118.148566
CP_2911	PUB	DEPRESS	59	SQ_FT	34.73355	-118.148564
CP_2912	PUB	DEPRESS	28	SQ_FT	34.73396	-118.148562
CP_2913	PUB	DEPRESS	26	SQ_FT	34.73351	-118.14856
CP_2914	PUB	DEPRESS	179	SQ_FT	34.73246	-118.148449
CP_2915	PUB	DEPRESS	130	SQ_FT	34.73295	-118.148448
CP_2916	PUB	DEPRESS	385	SQ_FT	34.73227	-118.148444
CP_2917	PUB	DEPRESS	40	SQ_FT	34.73228	-118.14829
CP_2918	PUB	DEPRESS	69	SQ_FT	34.73223	-118.148288
CP_2919	PUB	DEPRESS	248	SQ_FT	34.73235	-118.148272
CP_2920	PUB	DEPRESS	99	SQ_FT	34.73239	-118.148225
CP_2921	PUB	DEPRESS	34	SQ_FT	34.73255	-118.147843
CP_2922	PUB	DEPRESS	84	SQ_FT	34.73256	-118.147775
CP_2923	PUB	DEPRESS	142	SQ_FT	34.73269	-118.147746
CP_2924	PUB	DEPRESS	6	SQ_FT	34.73262	-118.147732
CP_2925	PUB	DEPRESS	36	SQ_FT	34.73258	-118.147725
CP_2926	PUB	DEPRESS	52	SQ_FT	34.733	-118.147712
CP_2927	PUB	DEPRESS	43	SQ_FT	34.73288	-118.147643
CP_2928	PUB	DEPRESS	11	SQ_FT	34.73325	-118.147563
CP_2929	PUB	DEPRESS	5	SQ_FT	34.73325	-118.147527
CP_2930	PUB	DEPRESS	4	SQ_FT	34.73326	-118.147504
CP_2931	PUB	DEPRESS	119	SQ_FT	34.73157	-118.147412
CP_2932	PUB	DEPRESS	80	SQ_FT	34.73144	-118.147309
CP_2933	PUB	DEPRESS	114	SQ_FT	34.73241	-118.147295
CP_2934	PUB	DEPRESS	91	SQ_FT	34.73255	-118.147203
CP_2935	PUB	DEPRESS	121	SQ_FT	34.73308	-118.147116
CP_2936	PUB	DEPRESS	117	SQ_FT	34.73104	-118.146985
CP_2937	PUB	DEPRESS	86	SQ_FT	34.73327	-118.14687
CP_2938	PUB	DEPRESS	17	SQ_FT	34.73476	-118.146577
CP_2939	PUB	DEPRESS	9	SQ_FT	34.73474	-118.146568
CP_2940	PUB	DEPRESS	140	SQ_FT	34.73521	-118.146542
CP_2941	PUB	DEPRESS	70	SQ_FT	34.73447	-118.146427
CP_2942	PUB	DEPRESS	71	SQ_FT	34.73431	-118.146335
CP_2943	PUB	DEPRESS	86	SQ_FT	34.73499	-118.146136
CP_2944	PUB	DEPRESS	4	SQ_FT	34.73491	-118.146005
CP_2945	PUB	DEPRESS	10	SQ_FT	34.73492	-118.145987
CP_2946	PUB	DEPRESS	262	SQ_FT	34.73316	-118.145974
CP_2947	PUB	DEPRESS	165	SQ_FT	34.73354	-118.145941
PD_2948	PUB	DEPRESS	79	SQ_FT	34.73537	-118.145912
PD_2949	PUB	DEPRESS	10	SQ_FT	34.73501	-118.145887
PD_2950	PUB	DEPRESS	12	SQ_FT	34.73513	-118.145876
PD_2951	PUB	DEPRESS	56	SQ_FT	34.7353	-118.145876
PD_2952	PUB	DEPRESS	14	SQ_FT	34.73523	-118.145873

CP_2953	PUB	DEPRESS	186	SQ_FT	34.73467	-118.145872
PD_2954	PUB	DEPRESS	107	SQ_FT	34.7349	-118.145871
PD_2955	PUB	DEPRESS	116	SQ_FT	34.73517	-118.145868
PD_2956	PUB	DEPRESS	92	SQ_FT	34.7348	-118.145838
PD_2957	PUB	DEPRESS	7	SQ_FT	34.73522	-118.145836
PD_2958	PUB	DEPRESS	6	SQ_FT	34.73512	-118.145788
PD_2959	PUB	DEPRESS	7	SQ_FT	34.73481	-118.145781
PD_2960	PUB	DEPRESS	10	SQ_FT	34.73507	-118.145767
PD_2961	PUB	DEPRESS	52	SQ_FT	34.73502	-118.145764
PD_2962	PUB	DEPRESS	45	SQ_FT	34.73503	-118.145751
PD_2963	PUB	DEPRESS	4	SQ_FT	34.73498	-118.145739
PD_2964	PUB	DEPRESS	8	SQ_FT	34.73496	-118.145731
PD_2965	PUB	DEPRESS	44	SQ_FT	34.73484	-118.145711
CP_2966	PUB	DEPRESS	11	SQ_FT	34.73314	-118.145675
CP_2967-001	PUB	DEPRESS	6.00	SQ_FT	34.73467	-118.14566
CP_2967-002	PUB	DEPRESS	0.03	ACRE	34.73467	-118.14566
CP_2968	PUB	DEPRESS	9	SQ_FT	34.73461	-118.145576
CP_2969	PUB	DEPRESS	68	SQ_FT	34.72786	-118.145526
CP_2970	PUB	DEPRESS	2	SQ_FT	34.7346	-118.1455
CP_2971	PUB	DEPRESS	31	SQ_FT	34.73459	-118.145477
PD_2972	PUB	DEPRESS	34	SQ_FT	34.73477	-118.145475
PD_2973	PUB	DEPRESS	20	SQ_FT	34.73481	-118.145465
PD_2974	PUB	DEPRESS	18	SQ_FT	34.73479	-118.145444
CP_2975	PUB	DEPRESS	6	SQ_FT	34.73318	-118.145401
CP_2976	PUB	DEPRESS	12	SQ_FT	34.73457	-118.145386
CP_2977	PUB	DEPRESS	38	SQ_FT	34.72831	-118.145351
PD_2978	PUB	DEPRESS	12	SQ_FT	34.73483	-118.145339
CP_2979	PUB	DEPRESS	7	SQ_FT	34.73456	-118.145327
CP_2980	PUB	DEPRESS	49	SQ_FT	34.72834	-118.145314
CP_2981-001	PUB	DEPRESS	40	SQ_FT	34.73454	-118.145245
CP_2981-002	PUB	DEPRESS	13	SQ_FT	34.73454	-118.145245
CP_2982	PUB	DEPRESS	24	SQ_FT	34.72836	-118.145244
PD_2983	PUB	DEPRESS	65	SQ_FT	34.73484	-118.145158
PD_2984	PUB	DEPRESS	21	SQ_FT	34.73483	-118.145096
PD_2985	PUB	DEPRESS	381.00	SQ_FT	34.73481	-118.144959
CP_2986	PUB	DEPRESS	0.01	ACRE	34.73464	-118.144952
CP_2987	PUB	DEPRESS	5	SQ_FT	34.72886	-118.144872
PD_2988	PUB	DEPRESS	12	SQ_FT	34.73536	-118.144869
CP_2989	PUB	DEPRESS	7	SQ_FT	34.7336	-118.144819
CP_2990	PUB	DEPRESS	88	SQ_FT	34.73238	-118.144733
CP_2991	PUB	DEPRESS	21.00	SQ_FT	34.73453	-118.144717
CP_2992	PUB	DEPRESS	0.02	ACRE	34.7337	-118.144712
CP_2993	PUB	DEPRESS	63	SQ_FT	34.73451	-118.144689
PD_2994	PUB	DEPRESS	56	SQ_FT	34.73482	-118.144672
CP_2995	PUB	DEPRESS	21	SQ_FT	34.73401	-118.144613
CP_2996	PUB	DEPRESS	3	SQ_FT	34.73383	-118.144595
CP_2997	PUB	DEPRESS	7	SQ_FT	34.73401	-118.144595
CP_2998	PUB	DEPRESS	352	SQ_FT	34.73379	-118.144592
CP_2999	PUB	DEPRESS	33	SQ_FT	34.73388	-118.14459
PD_3000	PUB	DEPRESS	479	SQ_FT	34.7349	-118.144588
CP_3001	PUB	DEPRESS	7	SQ_FT	34.73394	-118.144583
CP_3002	PUB	DEPRESS	6	SQ_FT	34.73399	-118.14458
CP_3003	PUB	DEPRESS	7	SQ_FT	34.73396	-118.144579
CP_3004	PUB	DEPRESS	3	SQ_FT	34.73409	-118.144576
CP_3005	PUB	DEPRESS	6	SQ_FT	34.73426	-118.144573
CP_3006	PUB	DEPRESS	3	SQ_FT	34.73387	-118.144573
CP_3007-001	PUB	DEPRESS	16	SQ_FT	34.73404	-118.144572
CP_3007-002	PUB	DEPRESS	63	SQ_FT	34.73404	-118.144572
CP_3008	PUB	DEPRESS	10	SQ_FT	34.73433	-118.14457
CP_3009	PUB	DEPRESS	7	SQ_FT	34.73394	-118.14457
CP_3010	PUB	DEPRESS	2	SQ_FT	34.73437	-118.144569
CP_3011	PUB	DEPRESS	3	SQ_FT	34.73438	-118.144567
CP_3012	PUB	DEPRESS	7	SQ_FT	34.73403	-118.144561
CP_3013	PUB	DEPRESS	8	SQ_FT	34.73426	-118.144559
CP_3014	PUB	DEPRESS	9	SQ_FT	34.73408	-118.144558
CP_3015	PUB	DEPRESS	15	SQ_FT	34.73428	-118.144554

CP_3016	PUB	DEPRESS	1	SQ_FT	34.7343	-118.144553
CP_3017-001	PUB	DEPRESS	23	SQ_FT	34.73436	-118.144552
CP_3017-002	PUB	DEPRESS	1	SQ_FT	34.73436	-118.144552
CP_3018	PUB	DEPRESS	20	SQ_FT	34.73457	-118.144545
CP_3019	PUB	DEPRESS	6	SQ_FT	34.73439	-118.14454
CP_3020	PUB	DEPRESS	13	SQ_FT	34.73257	-118.144526
CP_3021	PUB	DEPRESS	19	SQ_FT	34.73258	-118.144489
PD_3022	PUB	DEPRESS	178	SQ_FT	34.73477	-118.144487
CP_3023	PUB	DEPRESS	160	SQ_FT	34.73279	-118.144484
PD_3024	PUB	DEPRESS	256	SQ_FT	34.73524	-118.144473
CP_3025	PUB	DEPRESS	4	SQ_FT	34.73278	-118.14442
CP_3026	PUB	DEPRESS	2	SQ_FT	34.73201	-118.14441
PD_3027	PUB	DEPRESS	222	SQ_FT	34.73505	-118.144401
CP_3028	PUB	DEPRESS	4	SQ_FT	34.73201	-118.144371
CP_3029	PUB	DEPRESS	28	SQ_FT	34.73193	-118.144356
CP_3030	PUB	DEPRESS	20	SQ_FT	34.73151	-118.144338
CP_3031	PUB	DEPRESS	10	SQ_FT	34.73155	-118.14424
CP_3032	PUB	DEPRESS	37	SQ_FT	34.73256	-118.144239
CP_3033	PUB	DEPRESS	11	SQ_FT	34.73154	-118.144223
CP_3034	PUB	DEPRESS	11	SQ_FT	34.73151	-118.144205
CP_3035	PUB	DEPRESS	23	SQ_FT	34.72977	-118.144202
CP_3036	PUB	DEPRESS	175	SQ_FT	34.7297	-118.144193
CP_3037	PUB	DEPRESS	27	SQ_FT	34.72936	-118.144164
CP_3038	PUB	DEPRESS	3	SQ_FT	34.72934	-118.144156
CP_3039	PUB	DEPRESS	19	SQ_FT	34.73127	-118.144151
CP_3040	PUB	DEPRESS	11	SQ_FT	34.72935	-118.144146
CP_3041	PUB	DEPRESS	13	SQ_FT	34.72873	-118.144142
CP_3042	PUB	DEPRESS	9	SQ_FT	34.72876	-118.14414
CP_3043	PUB	DEPRESS	62	SQ_FT	34.72866	-118.144139
CP_3044	PUB	DEPRESS	172	SQ_FT	34.72837	-118.144134
CP_3045	PUB	DEPRESS	10	SQ_FT	34.72859	-118.144129
CP_3046	PUB	DEPRESS	29	SQ_FT	34.72755	-118.144126
CP_3047	PUB	DEPRESS	494	SQ_FT	34.72806	-118.144125
CP_3048	PUB	DEPRESS	51	SQ_FT	34.72783	-118.144125
CP_3049	PUB	DEPRESS	25	SQ_FT	34.73099	-118.144121
CP_3050	PUB	DEPRESS	9	SQ_FT	34.72778	-118.144116
CP_3051	PUB	DEPRESS	12	SQ_FT	34.7278	-118.144115
CP_3052	PUB	DEPRESS	13	SQ_FT	34.72768	-118.144112
CP_3053	PUB	DEPRESS	84	SQ_FT	34.72856	-118.144109
CP_3054	PUB	DEPRESS	10	SQ_FT	34.72761	-118.144106
CP_3055	PUB	DEPRESS	3	SQ_FT	34.72783	-118.144102
CP_3056	PUB	DEPRESS	159	SQ_FT	34.73449	-118.143982
CP_3057	PUB	DEPRESS	18	SQ_FT	34.73461	-118.143959
CP_3058	PUB	DEPRESS	59	SQ_FT	34.73452	-118.14388
CP_3059	PUB	DEPRESS	19	SQ_FT	34.73297	-118.143864
CP_3060	PUB	DEPRESS	8	SQ_FT	34.73232	-118.143858
CP_3061	PUB	DEPRESS	13	SQ_FT	34.7328	-118.143853
CP_3062	PUB	DEPRESS	70	SQ_FT	34.73454	-118.143814
CP_3063	PUB	DEPRESS	4	SQ_FT	34.73241	-118.143773
PD_3064	PUB	DEPRESS	183	SQ_FT	34.73487	-118.143736
CP_3065	PUB	DEPRESS	95	SQ_FT	34.73462	-118.143732
PD_3066	PUB	DEPRESS	23	SQ_FT	34.73537	-118.143697
CP_3067	PUB	DEPRESS	12	SQ_FT	34.73168	-118.143696
CP_3068	PUB	DEPRESS	33	SQ_FT	34.73172	-118.143693
PD_3069	PUB	DEPRESS	28	SQ_FT	34.73543	-118.143657
CP_3070	PUB	DEPRESS	26	SQ_FT	34.73208	-118.143649
PD_3071	PUB	DEPRESS	11	SQ_FT	34.73487	-118.143622
CP_3072	PUB	DEPRESS	93	SQ_FT	34.73177	-118.143618
CP_3073	PUB	DEPRESS	182	SQ_FT	34.73165	-118.143565
CP_3074	PUB	DEPRESS	70	SQ_FT	34.7316	-118.143529
PD_3075	PUB	DEPRESS	31	SQ_FT	34.73487	-118.14351
CP_3076	PUB	DEPRESS	6	SQ_FT	34.73207	-118.143491
CP_3077	PUB	DEPRESS	31	SQ_FT	34.7345	-118.143487
CP_3078	PUB	DEPRESS	143	SQ_FT	34.72937	-118.143415
PD_3079	PUB	DEPRESS	13	SQ_FT	34.73544	-118.14336
PD_3080	PUB	DEPRESS	9	SQ_FT	34.73482	-118.143356

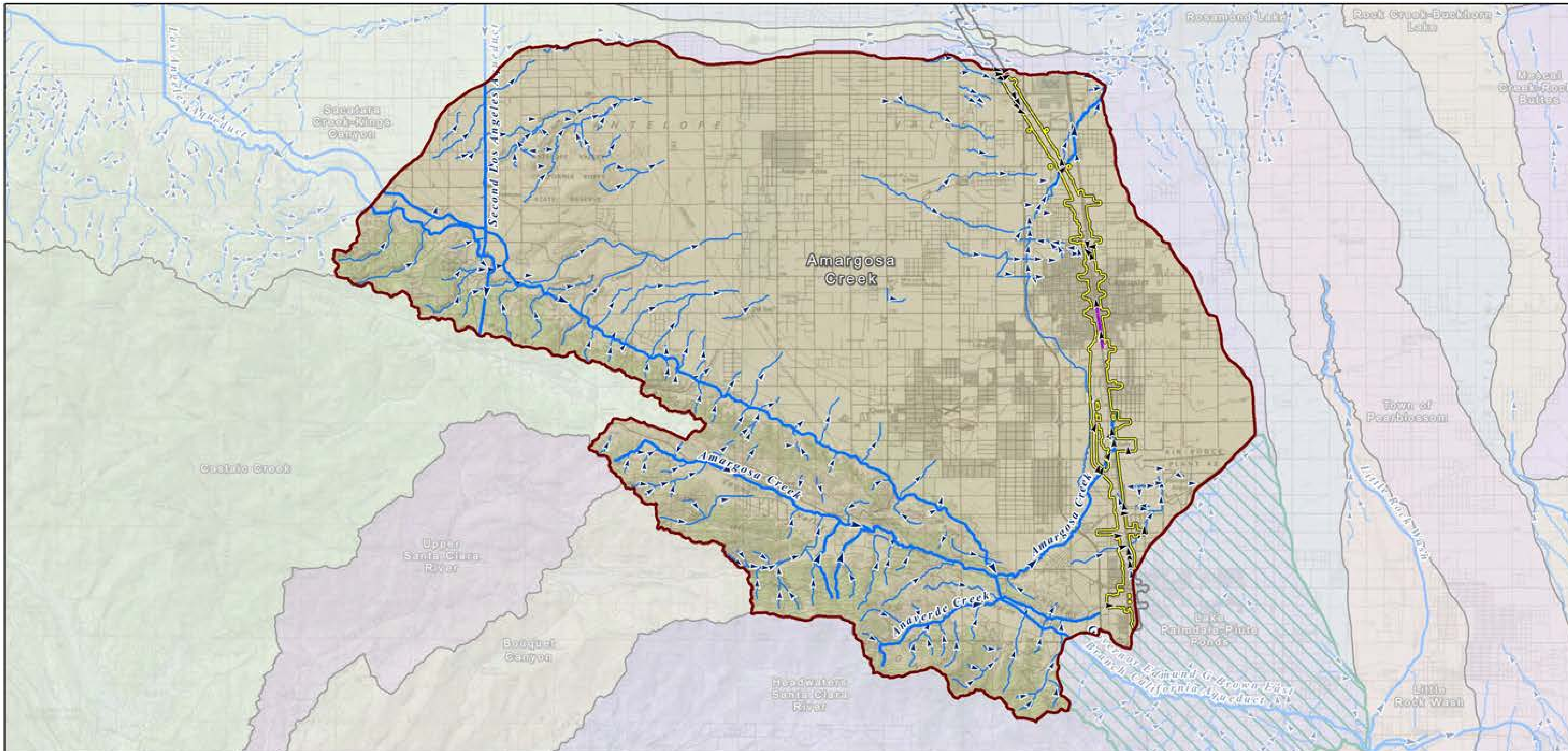
CP_3081 PUB	DEPRESS	85	SQ_FT	34.72995	-118.143335
CP_3082 PUB	DEPRESS	74	SQ_FT	34.72938	-118.143292
CP_3083 PUB	DEPRESS	244	SQ_FT	34.73456	-118.143291
CP_3084 PUB	DEPRESS	55	SQ_FT	34.7346	-118.143246
CP_3085 PUB	DEPRESS	185	SQ_FT	34.72947	-118.143142
PD_3086 PUB	DEPRESS	16	SQ_FT	34.73548	-118.143102
CP_3087 PUB	DEPRESS	78.00	SQ_FT	34.73456	-118.143029
CP_3088 PUB	DEPRESS	0.11	ACRE	34.73144	-118.142909
CP_3089 PUB	DEPRESS	342	SQ_FT	34.7346	-118.142897
CP_3090 PUB	DEPRESS	14	SQ_FT	34.73132	-118.142787
PD_3091 PUB	DEPRESS	9	SQ_FT	34.73529	-118.142782
CP_3092 PUB	DEPRESS	480	SQ_FT	34.73453	-118.14278
PD_3093 PUB	DEPRESS	10	SQ_FT	34.73525	-118.142776
PD_3094 PUB	DEPRESS	4	SQ_FT	34.73521	-118.142773
PD_3095 PUB	DEPRESS	3	SQ_FT	34.73521	-118.142762
CP_3096 PUB	DEPRESS	57	SQ_FT	34.73472	-118.14271
CP_3097 PUB	DEPRESS	465	SQ_FT	34.73414	-118.14267
CP_3098 PUB	DEPRESS	356.00	SQ_FT	34.73427	-118.142631
CP_3099 PUB	DEPRESS	0.03	ACRE	34.73201	-118.142284
CP_3100 PUB	DEPRESS	50	SQ_FT	34.73464	-118.142047
CP_3101 PUB	DEPRESS	55	SQ_FT	34.73519	-118.141993
CP_3102 PUB	DEPRESS	110	SQ_FT	34.73394	-118.141969
CP_3103 PUB	DEPRESS	154	SQ_FT	34.73386	-118.14195
CP_3104 PUB	DEPRESS	61	SQ_FT	34.73547	-118.141949
CP_3105 PUB	DEPRESS	78	SQ_FT	34.73538	-118.141924
CP_3106 PUB	DEPRESS	115	SQ_FT	34.73424	-118.141836
CP_3107 PUB	DEPRESS	392	SQ_FT	34.73539	-118.141813
CP_3108 PUB	DEPRESS	79	SQ_FT	34.73511	-118.141768
CP_3109 PUB	DEPRESS	74	SQ_FT	34.73447	-118.141756
CP_3110 PUB	DEPRESS	74	SQ_FT	34.73355	-118.141597
CP_3111 PUB	DEPRESS	183	SQ_FT	34.7354	-118.141383
CP_3112 PUB	DEPRESS	15	SQ_FT	34.73068	-118.14128
CP_3113 PUB	DEPRESS	74	SQ_FT	34.72944	-118.14123
CP_3114 PUB	DEPRESS	45	SQ_FT	34.72915	-118.141177
CP_3115 PUB	DEPRESS	167	SQ_FT	34.72982	-118.141149
CP_3116 PUB	DEPRESS	31	SQ_FT	34.72974	-118.141135
CP_3117 PUB	DEPRESS	21	SQ_FT	34.73003	-118.141089
CP_3118 PUB	DEPRESS	89	SQ_FT	34.72846	-118.141074
CP_3119 PUB	DEPRESS	25	SQ_FT	34.73015	-118.141071
CP_3120 PUB	DEPRESS	18	SQ_FT	34.72934	-118.141067
CP_3121 PUB	DEPRESS	6	SQ_FT	34.72926	-118.141053
CP_3122 PUB	DEPRESS	3	SQ_FT	34.72924	-118.141052
CP_3123 PUB	DEPRESS	40	SQ_FT	34.73007	-118.14105
CP_3124 PUB	DEPRESS	5	SQ_FT	34.72922	-118.14104
CP_3125 PUB	DEPRESS	23	SQ_FT	34.72999	-118.141038
CP_3126 PUB	DEPRESS	86	SQ_FT	34.73118	-118.141017
CP_3127 PUB	DEPRESS	30	SQ_FT	34.72992	-118.141009
CP_3128 PUB	DEPRESS	92	SQ_FT	34.7296	-118.140996
CP_3129 PUB	DEPRESS	22	SQ_FT	34.72992	-118.140979
CP_3130 PUB	DEPRESS	186	SQ_FT	34.72953	-118.140944
CP_3131 PUB	DEPRESS	32	SQ_FT	34.7276	-118.14093
CP_3132 PUB	DEPRESS	83	SQ_FT	34.72853	-118.140929
CP_3133 PUB	DEPRESS	117.00	SQ_FT	34.72961	-118.1409
CP_3134 PUB	DEPRESS	0.02	ACRE	34.73041	-118.140888
CP_3135 PUB	DEPRESS	391	SQ_FT	34.7305	-118.140858
CP_3136 PUB	DEPRESS	82	SQ_FT	34.73068	-118.140828
CP_3137 PUB	DEPRESS	72	SQ_FT	34.72977	-118.140737
CP_3138 PUB	DEPRESS	6	SQ_FT	34.72842	-118.140725
CP_3139 PUB	DEPRESS	8	SQ_FT	34.73013	-118.14066
CP_3140 PUB	DEPRESS	21	SQ_FT	34.72832	-118.140659
CP_3141 PUB	DEPRESS	16	SQ_FT	34.72788	-118.140597
CP_3142 PUB	DEPRESS	15	SQ_FT	34.73	-118.140564
CP_3143 PUB	DEPRESS	36	SQ_FT	34.72947	-118.140539
CP_3144 PUB	DEPRESS	65	SQ_FT	34.72966	-118.140508
CP_3145 PUB	DEPRESS	38	SQ_FT	34.72994	-118.1405
CP_3146 PUB	DEPRESS	2	SQ_FT	34.7289	-118.140498

CP_3147	PUB	DEPRESS	18	SQ_FT	34.72923	-118.140494
CP_3148	PUB	DEPRESS	77	SQ_FT	34.72891	-118.140484
CP_3149	PUB	DEPRESS	20	SQ_FT	34.72887	-118.140453
CP_3150	PUB	DEPRESS	24	SQ_FT	34.72853	-118.140409
CP_3151	PUB	DEPRESS	16	SQ_FT	34.72863	-118.140404
CP_3152	PUB	DEPRESS	53	SQ_FT	34.73006	-118.14038
CP_3153	PUB	DEPRESS	7	SQ_FT	34.72885	-118.140374
CP_3154	PUB	DEPRESS	102	SQ_FT	34.72986	-118.140372
CP_3155	PUB	DEPRESS	24	SQ_FT	34.72839	-118.14037
CP_3156	PUB	DEPRESS	70	SQ_FT	34.72899	-118.140359
CP_3157	PUB	DEPRESS	22	SQ_FT	34.72914	-118.140341
CP_3158	PUB	DEPRESS	22	SQ_FT	34.72947	-118.140337
CP_3159	PUB	DEPRESS	193	SQ_FT	34.72891	-118.140336
CP_3160	PUB	DEPRESS	55	SQ_FT	34.72942	-118.140309
CP_3161	PUB	DEPRESS	82	SQ_FT	34.72842	-118.140294
CP_3162	PUB	DEPRESS	33.0	SQ_FT	34.72945	-118.140291
CP_3163	PUB	DEPRESS	0.1	SQ_FT	34.72948	-118.140257
CP_3164	PUB	DEPRESS	18	SQ_FT	34.72949	-118.140255
CP_3165	PUB	DEPRESS	19	SQ_FT	34.72889	-118.140211
CP_3166	PUB	DEPRESS	35	SQ_FT	34.72833	-118.140185
CP_3167	PUB	DEPRESS	28	SQ_FT	34.72767	-118.140181
CP_3168	PUB	DEPRESS	24	SQ_FT	34.72967	-118.140181
CP_3169	PUB	DEPRESS	14	SQ_FT	34.72833	-118.140165
CP_3170	PUB	DEPRESS	43	SQ_FT	34.72828	-118.140161
CP_3171	PUB	DEPRESS	48	SQ_FT	34.72813	-118.140104
CP_3172	PUB	DEPRESS	19	SQ_FT	34.72755	-118.140099
CP_3173	PUB	DEPRESS	11	SQ_FT	34.72944	-118.140094
CP_3174	PUB	DEPRESS	40	SQ_FT	34.72834	-118.14008
CP_3175	PUB	DEPRESS	16	SQ_FT	34.72818	-118.140026
CP_3176	PUB	DEPRESS	24	SQ_FT	34.72811	-118.14002
CP_3177	PUB	DEPRESS	15	SQ_FT	34.72861	-118.140006
CP_3178	PUB	DEPRESS	27	SQ_FT	34.72852	-118.139936
CP_3179	PUB	DEPRESS	27	SQ_FT	34.7277	-118.139929
CP_3180	PUB	DEPRESS	47	SQ_FT	34.72761	-118.13978
CP_3181	PUB	DEPRESS	43	SQ_FT	34.73297	-118.139455
PD_3182	PUB	DEPRESS	383.00	SQ_FT	34.73308	-118.13914
PD_3183	PUB	DEPRESS	0.02	ACRE	34.7333	-118.138341
PD_3184	PUB	DEPRESS	313	SQ_FT	34.73346	-118.138108
CP_3185-001	PUB	DEPRESS	48	SQ_FT	34.73428	-118.13655
CP_3185-002	PUB	DEPRESS	277	SQ_FT	34.73428	-118.13655
PD_3186	PUB	DEPRESS	117	SQ_FT	34.73375	-118.135508
PD_3187	PUB	DEPRESS	44	SQ_FT	34.73259	-118.135361
PD_3188	PUB	DEPRESS	106	SQ_FT	34.73258	-118.135272
PD_3189	PUB	DEPRESS	263.00	SQ_FT	34.73354	-118.13456
PD_3190	PUB	DEPRESS	0.93	ACRE	34.73298	-118.134494
CP_3191	PUB	DEPRESS	13	SQ_FT	34.73408	-118.133999
CP_3192	PUB	DEPRESS	20	SQ_FT	34.72568	-118.144758
CP_3193	PUB	DEPRESS	45	SQ_FT	34.72581	-118.144694
CP_3194	PUB	DEPRESS	16	SQ_FT	34.72583	-118.144571
CP_3195	PUB	DEPRESS	24	SQ_FT	34.72584	-118.144457
CP_3196	PUB	DEPRESS	19	SQ_FT	34.72563	-118.144323
CP_3197	PUB	DEPRESS	6	SQ_FT	34.72582	-118.144237
CP_3198	PUB	DEPRESS	77	SQ_FT	34.72574	-118.144181
CP_3199	PUB	DEPRESS	6	SQ_FT	34.72725	-118.144124
CP_3200	PUB	DEPRESS	7	SQ_FT	34.72739	-118.144123
CP_3201	PUB	DEPRESS	23	SQ_FT	34.7273	-118.144123
CP_3202	PUB	DEPRESS	7	SQ_FT	34.72612	-118.144114
CP_3203	PUB	DEPRESS	4	SQ_FT	34.72615	-118.144114
CP_3204	PUB	DEPRESS	16	SQ_FT	34.72604	-118.144113
CP_3205	PUB	DEPRESS	5	SQ_FT	34.72672	-118.144113
CP_3206	PUB	DEPRESS	13	SQ_FT	34.7261	-118.144112
CP_3207	PUB	DEPRESS	40	SQ_FT	34.72652	-118.144111
CP_3208	PUB	DEPRESS	5	SQ_FT	34.72658	-118.14411
CP_3209	PUB	DEPRESS	6	SQ_FT	34.72639	-118.14411
CP_3210	PUB	DEPRESS	19	SQ_FT	34.72608	-118.144099
CP_3211	PUB	DEPRESS	7	SQ_FT	34.72685	-118.144099

CP_3212	PUB	DEPRESS	9	SQ_FT	34.72651	-118.144096
CP_3213	PUB	DEPRESS	4	SQ_FT	34.72626	-118.144095
CP_3214	PUB	DEPRESS	7	SQ_FT	34.72642	-118.144094
CP_3215	PUB	DEPRESS	10	SQ_FT	34.72583	-118.144086
CP_3216	PUB	DEPRESS	18	SQ_FT	34.72573	-118.144085
CP_3217	PUB	DEPRESS	17	SQ_FT	34.72559	-118.144058
CP_3218	PUB	DEPRESS	11	SQ_FT	34.72556	-118.144044
CP_3219	PUB	DEPRESS	30	SQ_FT	34.72552	-118.14389
CP_3220	PUB	DEPRESS	123	SQ_FT	34.72357	-118.143484
CP_3221	PUB	DEPRESS	23	SQ_FT	34.72626	-118.143303
CP_3222	PUB	DEPRESS	27	SQ_FT	34.72622	-118.143297
CP_3223	PUB	DEPRESS	368	SQ_FT	34.72352	-118.143283
CP_3224	PUB	DEPRESS	79.00	SQ_FT	34.7268	-118.143088
CP_3225	PUB	DEPRESS	0.01	ACRE	34.72374	-118.143008
CP_3226	PUB	DEPRESS	48.00	SQ_FT	34.72533	-118.142984
CP_3227	PUB	DEPRESS	0.01	ACRE	34.72347	-118.142769
CP_3228	PUB	DEPRESS	476	SQ_FT	34.72331	-118.142653
CP_3229	PUB	DEPRESS	15.00	SQ_FT	34.72401	-118.142543
PD_3230	PUB	DEPRESS	0.02	ACRE	34.72095	-118.142388
CP_3231	PUB	DEPRESS	12	SQ_FT	34.72251	-118.142273
CP_3232	PUB	DEPRESS	49	SQ_FT	34.72728	-118.142186
PD_3233	PUB	DEPRESS	59	SQ_FT	34.72107	-118.142041
CP_3234	PUB	DEPRESS	69	SQ_FT	34.72304	-118.141946
CP_3235	PUB	DEPRESS	27	SQ_FT	34.72618	-118.140706
CP_3236	PUB	DEPRESS	67	SQ_FT	34.72611	-118.140693
CP_3237	PUB	DEPRESS	30.00	SQ_FT	34.72602	-118.140679
CP_3238	PUB	DEPRESS	0.02	ACRE	34.72414	-118.140615
CP_3239	PUB	DEPRESS	222	SQ_FT	34.72451	-118.140577
CP_3240	PUB	DEPRESS	36	SQ_FT	34.72696	-118.140045
CP_3241	PUB	DEPRESS	19	SQ_FT	34.72701	-118.139961
CP_3242	PUB	DEPRESS	26	SQ_FT	34.72628	-118.139908
CP_3243	PUB	DEPRESS	26	SQ_FT	34.72625	-118.139905
CP_3244	PUB	DEPRESS	5	SQ_FT	34.72621	-118.139891
CP_3245	PUB	DEPRESS	13	SQ_FT	34.72751	-118.139886
CP_3246-001	PUB	DEPRESS	39	SQ_FT	34.72634	-118.139882
CP_3246-002	PUB	DEPRESS	59	SQ_FT	34.72634	-118.139882
CP_3247	PUB	DEPRESS	52	SQ_FT	34.72673	-118.139839
CP_3248	PUB	DEPRESS	63	SQ_FT	34.72682	-118.139839
CP_3249	PUB	DEPRESS	22	SQ_FT	34.72473	-118.139807
CP_3250	PUB	DEPRESS	24	SQ_FT	34.72623	-118.139687
CP_3251-001	PUB	DEPRESS	33	SQ_FT	34.72625	-118.139675
CP_3251-002	PUB	DEPRESS	20	SQ_FT	34.72625	-118.139675
CP_3252	PUB	DEPRESS	73	SQ_FT	34.72629	-118.139672
CP_3253	PUB	DEPRESS	38	SQ_FT	34.72619	-118.139625
CP_3254	PUB	DEPRESS	40	SQ_FT	34.72653	-118.139614
CP_3255	PUB	DEPRESS	38	SQ_FT	34.7238	-118.139592
CP_3256	PUB	DEPRESS	473	SQ_FT	34.72395	-118.139544
CP_3257	PUB	DEPRESS	61	SQ_FT	34.72617	-118.139419
CP_3258	PUB	DEPRESS	236	SQ_FT	34.72048	-118.139379
CP_3259	PUB	DEPRESS	115	SQ_FT	34.72274	-118.139302
CP_3260	PUB	DEPRESS	38	SQ_FT	34.72131	-118.13929
CP_3261	PUB	DEPRESS	160	SQ_FT	34.72032	-118.139267
CP_3262	PUB	DEPRESS	61	SQ_FT	34.72123	-118.139137
CP_3263	PUB	DEPRESS	52	SQ_FT	34.72253	-118.139122
CP_3264	PUB	DEPRESS	13	SQ_FT	34.72251	-118.139028
CP_3265	PUB	DEPRESS	104	SQ_FT	34.72244	-118.138986
CP_3266	PUB	DEPRESS	53.00	SQ_FT	34.72044	-118.138963
CP_3267	PUB	DEPRESS	0.01	ACRE	34.72314	-118.138865
CP_3268	PUB	DEPRESS	37	SQ_FT	34.72169	-118.138836
CP_3269	PUB	DEPRESS	107	SQ_FT	34.72304	-118.13883
CP_3270	PUB	DEPRESS	50	SQ_FT	34.7208	-118.13873
CP_3271	PUB	DEPRESS	14	SQ_FT	34.72257	-118.138515
CP_3272	PUB	DEPRESS	39.00	SQ_FT	34.72156	-118.138428
CP_3273	PUB	DEPRESS	0.04	ACRE	34.71861	-118.147788
CP_3274	PUB	DEPRESS	21.00	SQ_FT	34.71946	-118.146244
CP_3275	PUB	DEPRESS	0.04	ACRE	34.71931	-118.145537

PD_3276	PUB	DEPRESS	110	SQ_FT	34.71556	-118.141676
PD_3277	PUB	DEPRESS	25	SQ_FT	34.71399	-118.141062
PD_3278	PUB	DEPRESS	214.00	SQ_FT	34.71313	-118.140978
PD_3279	PUB	DEPRESS	0.02	ACRE	34.7137	-118.140893
PD_3280	PUB	DEPRESS	209	SQ_FT	34.71359	-118.140858
PD_3281	PUB	DEPRESS	336	SQ_FT	34.71395	-118.140691
PD_3282	PUB	DEPRESS	268.00	SQ_FT	34.71378	-118.14042
PD_3283	PUB	DEPRESS	0.04	ACRE	34.71525	-118.139839
PD_3284	PUB	DEPRESS	2	SQ_FT	34.71924	-118.139811
PD_3285	PUB	DEPRESS	10	SQ_FT	34.71919	-118.139803
PD_3286	PUB	DEPRESS	187.00	SQ_FT	34.71927	-118.13979
PD_3287	PUB	DEPRESS	0.02	ACRE	34.71911	-118.139767
PD_3288	PUB	DEPRESS	73	SQ_FT	34.71815	-118.139616
PD_3289	PUB	DEPRESS	68	SQ_FT	34.71158	-118.138387
CP_3290	PUB	DEPRESS	90	SQ_FT	34.71518	-118.138114
PD_3291	PUB	DEPRESS	130.00	SQ_FT	34.71386	-118.13796
CP_3292	PUB	DEPRESS	0.02	ACRE	34.715	-118.137868
PD_3293	PUB	DEPRESS	84.00	SQ_FT	34.71387	-118.137862
PD_3294	PUB	DEPRESS	0.02	ACRE	34.71379	-118.137765
CP_3295	PUB	DEPRESS	0.08	ACRE	34.71681	-118.137249
CP_3296	PUB	DEPRESS	42	SQ_FT	34.71618	-118.137224
CP_3297	PUB	DEPRESS	141	SQ_FT	34.71542	-118.137157
CP_3298	PUB	DEPRESS	13	SQ_FT	34.71504	-118.136838
CP_3299	PUB	DEPRESS	9	SQ_FT	34.7173	-118.136811
CP_3300	PUB	DEPRESS	11	SQ_FT	34.71731	-118.136789
PD_3301	PUB	DEPRESS	1.00	SQ_FT	34.7145	-118.136749
CP_3302	PUB	DEPRESS	0.05	ACRE	34.71581	-118.136738
CP_3303	PUB	DEPRESS	0.03	ACRE	34.71686	-118.1365
CP_3304	PUB	DEPRESS	120	SQ_FT	34.71636	-118.136461
CP_3305	PUB	DEPRESS	46	SQ_FT	34.71761	-118.136329
CP_3306	PUB	DEPRESS	339	SQ_FT	34.71599	-118.136319
CP_3307	PUB	DEPRESS	56	SQ_FT	34.71669	-118.13627
CP_3308	PUB	DEPRESS	11	SQ_FT	34.71886	-118.136013
CP_3309	PUB	DEPRESS	38	SQ_FT	34.71885	-118.135962
CP_3310	PUB	DEPRESS	14	SQ_FT	34.71895	-118.135217
CP_3311	PUB	DEPRESS	138.00	SQ_FT	34.71876	-118.134597
CP_3312	PUB	DEPRESS	0.01	ACRE	34.7182	-118.134172
CP_3313	PUB	DEPRESS	234	SQ_FT	34.71826	-118.134098
CP_3314	PUB	DEPRESS	483	SQ_FT	34.71768	-118.133773
CP_3315	PUB	DEPRESS	107.00	SQ_FT	34.71828	-118.13342
PD_3316	PUB	DEPRESS	0.06	ACRE	34.70424	-118.144209
PD_3317	PUB	DEPRESS	3	SQ_FT	34.70366	-118.141855
PD_3318	PUB	DEPRESS	74	SQ_FT	34.70789	-118.138675
PD_3319	PUB	DEPRESS	24	SQ_FT	34.70786	-118.138634
PD_3320	PUB	DEPRESS	13	SQ_FT	34.70919	-118.138201
PD_3321	PUB	DEPRESS	214	SQ_FT	34.70575	-118.137953
PD_3322	PUB	DEPRESS	56	SQ_FT	34.70549	-118.137876
PD_3323	PUB	DEPRESS	39	SQ_FT	34.70572	-118.137804
PD_3324	PUB	DEPRESS	10	SQ_FT	34.70566	-118.137773
PD_3325	PUB	DEPRESS	10	SQ_FT	34.7086	-118.136237
PD_3326	PUB	DEPRESS	24	SQ_FT	34.70723	-118.135946
PD_3327	PUB	DEPRESS	8	SQ_FT	34.70345	-118.141684
PD_3328	PUB	DEPRESS	23	SQ_FT	34.70177	-118.136376
PD_3329	PUB	DEPRESS	34	SQ_FT	34.70149	-118.13636
PD_3330	PUB	DEPRESS	24.00	SQ_FT	34.70116	-118.136325
PD_3331	PUB	DEPRESS	0.01	ACRE	34.70149	-118.136312
PD_3332	PUB	DEPRESS	245.0	SQ_FT	34.70355	-118.13098
CP_3347-039	PUB	DEPRESS	0.1	SQ_FT	34.78484	-118.180517
CP_3348-038	PUB	DEPRESS	0.2	SQ_FT	34.78349	-118.179818
CP_3349-001	PUB	DEPRESS	3	SQ_FT	34.74934	-118.152331
CP_3349-002	PUB	DEPRESS	4	SQ_FT	34.74934	-118.152331
CP_3349-003	PUB	DEPRESS	3	SQ_FT	34.74934	-118.152331
CP_3349-004	PUB	DEPRESS	14	SQ_FT	34.74934	-118.152331
CP_3350-001	PUB	DEPRESS	10	SQ_FT	34.74615	-118.152025
CP_3350-002	PUB	DEPRESS	2	SQ_FT	34.74615	-118.152025
CP_3351-031	PUB	DEPRESS	3	SQ_FT	34.74826	-118.151967

CP_3352-030	PUB	DEPRESS	17	SQ_FT	34.7462	-118.151845
CP_3353-001	PUB	DEPRESS	3	SQ_FT	34.74902	-118.151836
CP_3353-002	PUB	DEPRESS	5	SQ_FT	34.74902	-118.151836.



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 21, 2016

N

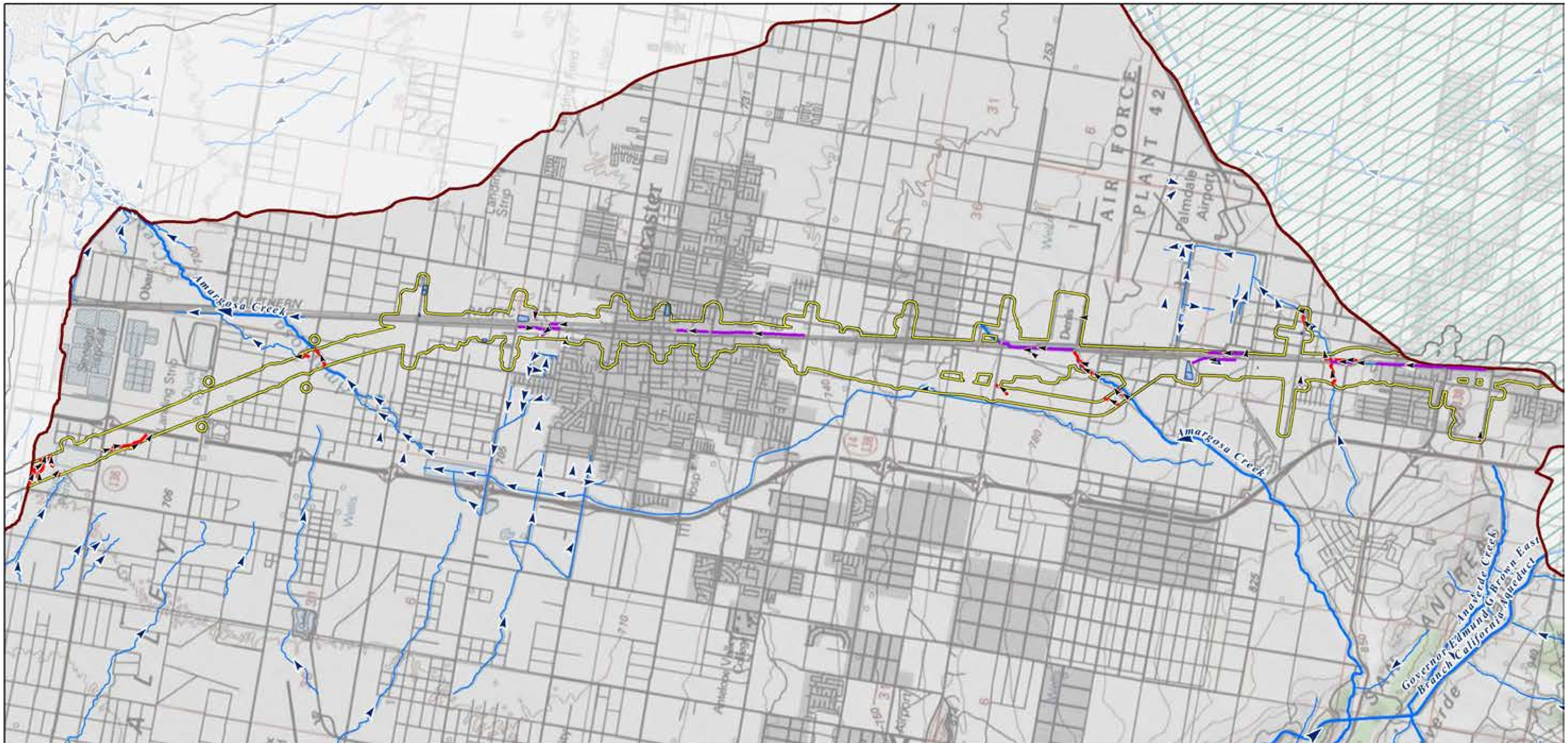
0 1.5 3 Miles

0 2.5 5 Kilometers

BP HSR Mapped Streams with OHWM in Amargosa Creek Watershed Study Area

- Culvert
- Ephemeral Stream
- Ditch
- Study Area in the Amargosa Creek Watershed
- Amargosa Creek Watershed HUC-10
- Other HUC-10 Watersheds
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Lake Palmdale HUC-12 Watershed
- Direction of flow based on NHD flowlines

Amargosa Creek Watershed
Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 21, 2016

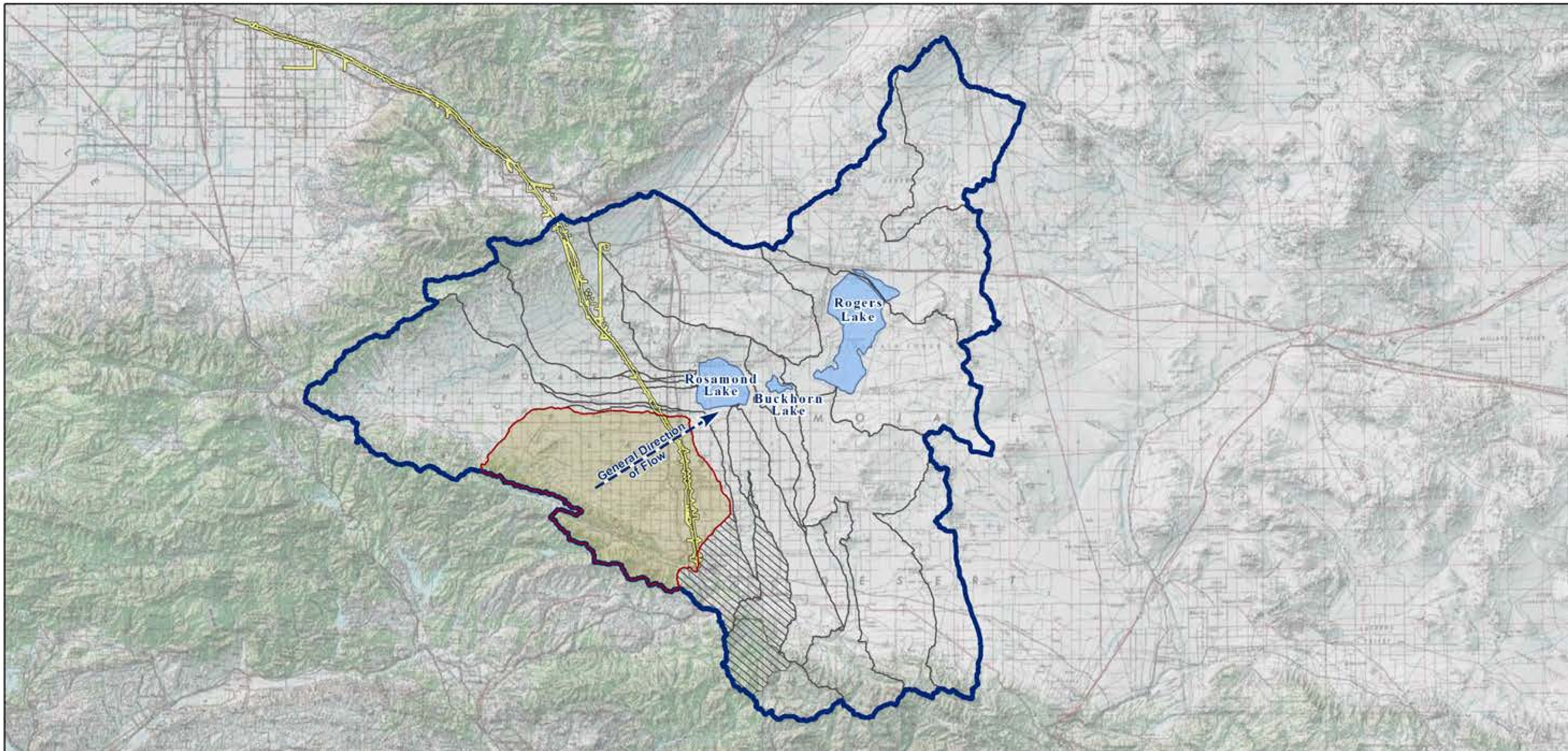
Miles: 0, 0.6, 1.2
Kilometers: 0, 1, 2

BP HSR Mapped Streams with OHWM in Amargosa Creek Watershed Study Area

- Culvert
- Ephemeral Stream
- Ditch

- Study Area in the Amargosa Creek Watershed
- Amargosa Creek Watershed HUC-10
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Lake Palmdale HUC-12 Watershed
- Direction of flow based on NHD flowlines
- Basins

Amargosa Creek Watershed Study Area Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 17, 2016

Miles 0 5 10
Kilometers 0 8 16

Amargosa Creek Watershed HUC-10

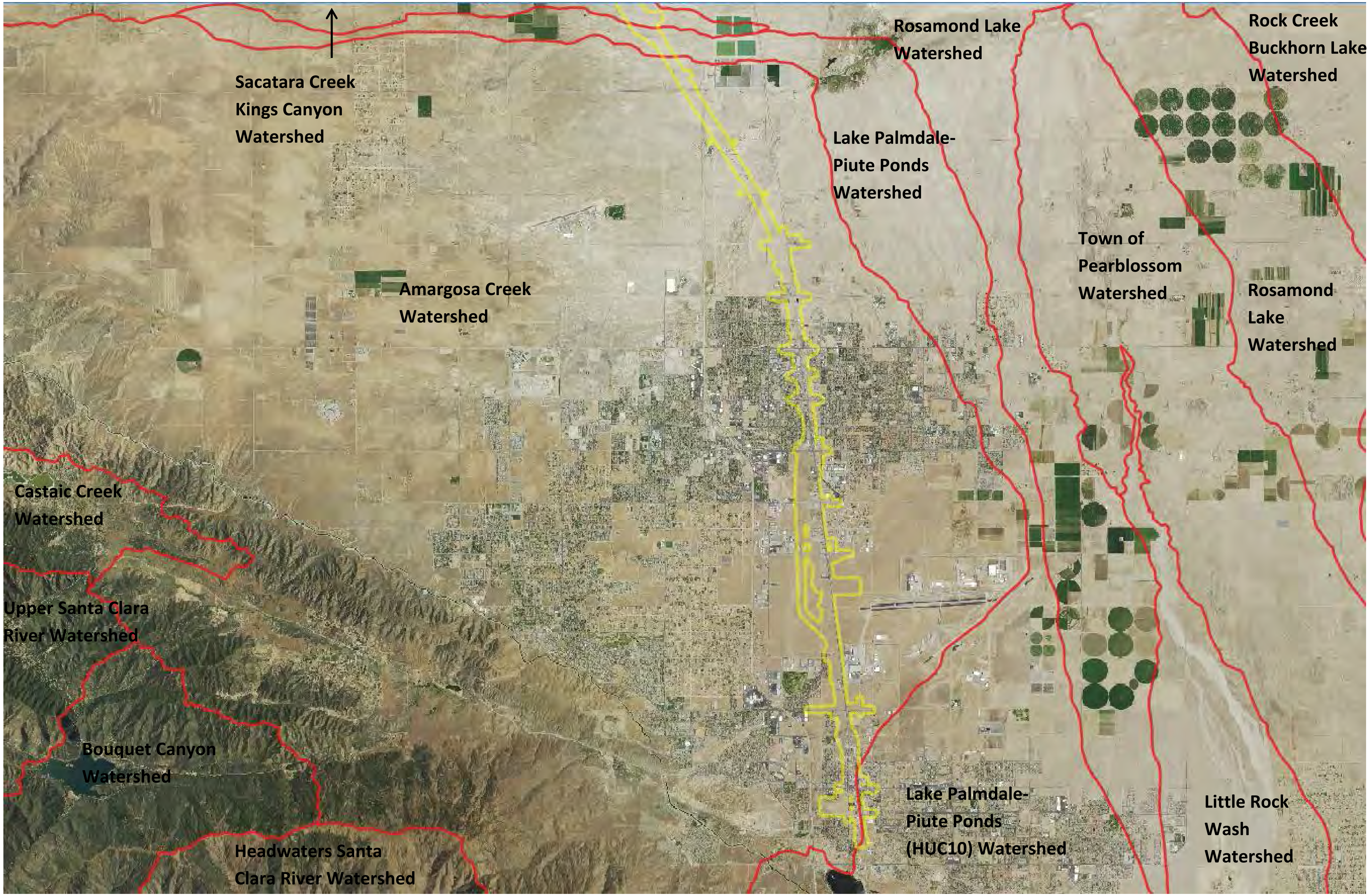
Antelope Valley Watershed (as described in SPL-2011-01084-SLP)

HUC-12 Watersheds excluded from SPL-2011-01084-SLP

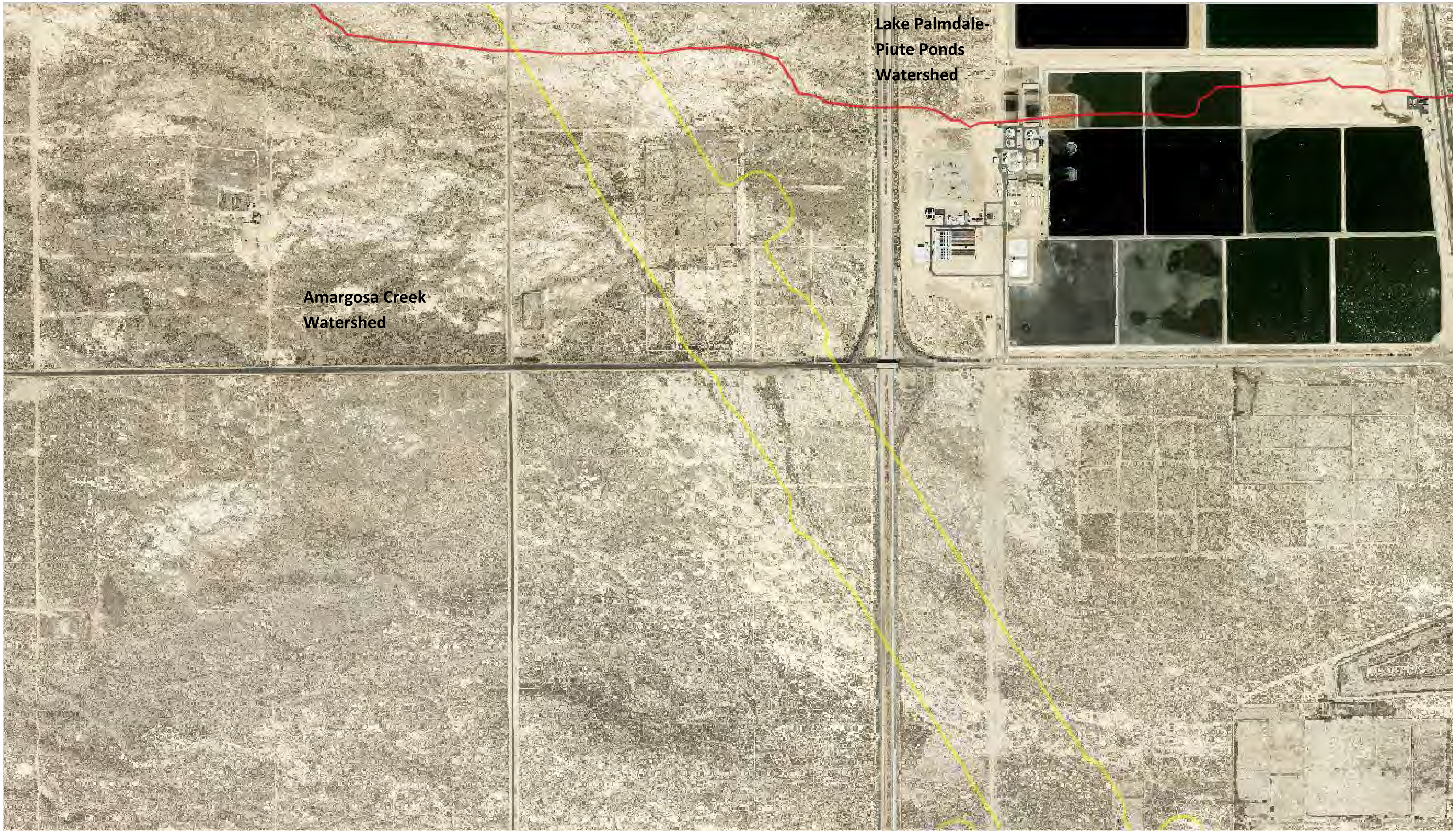
Wetlands Study Area (Project Footprint + 250 ft Buffer)

The U.S. Army Corps of Engineers issued a SWANCC watershed-level Approved Jurisdictional Determination for Antelope Valley (HUC 10 #s 1809020609 through 1809020624) on June 7, 2013. Note that this determination specifically excluded the areas of Lake Palmdale and all waters tributary to Lake Palmdale (portions of HUC 12 #s 180902061501, 180902061102, 180902061103). This figure illustrates the location of the study area relative to the previous watershed-level decision.

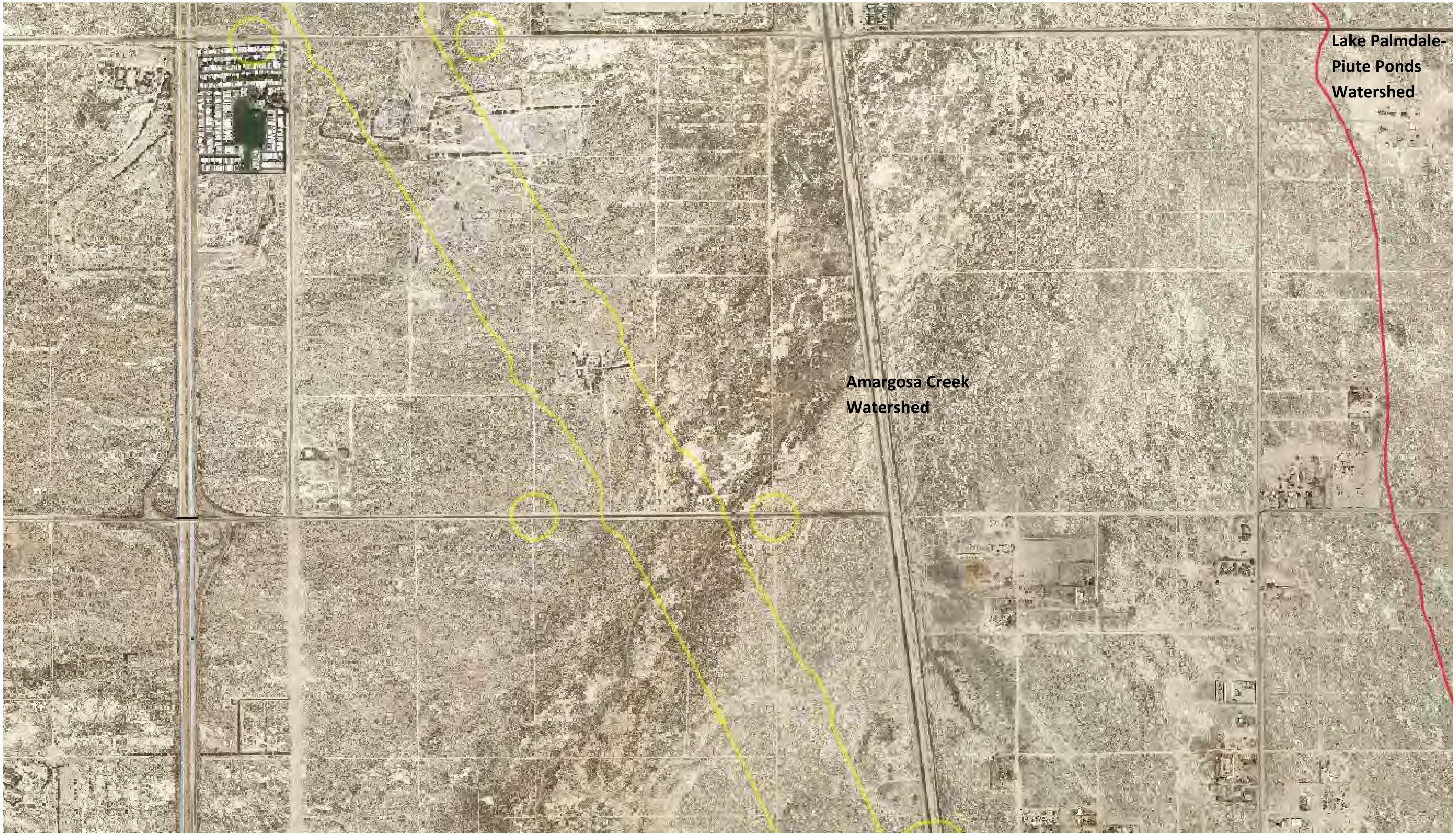
Amargosa Creek Watershed
Location Within Antelope Valley Watershed



NAIP 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



Los Angeles County 2013 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



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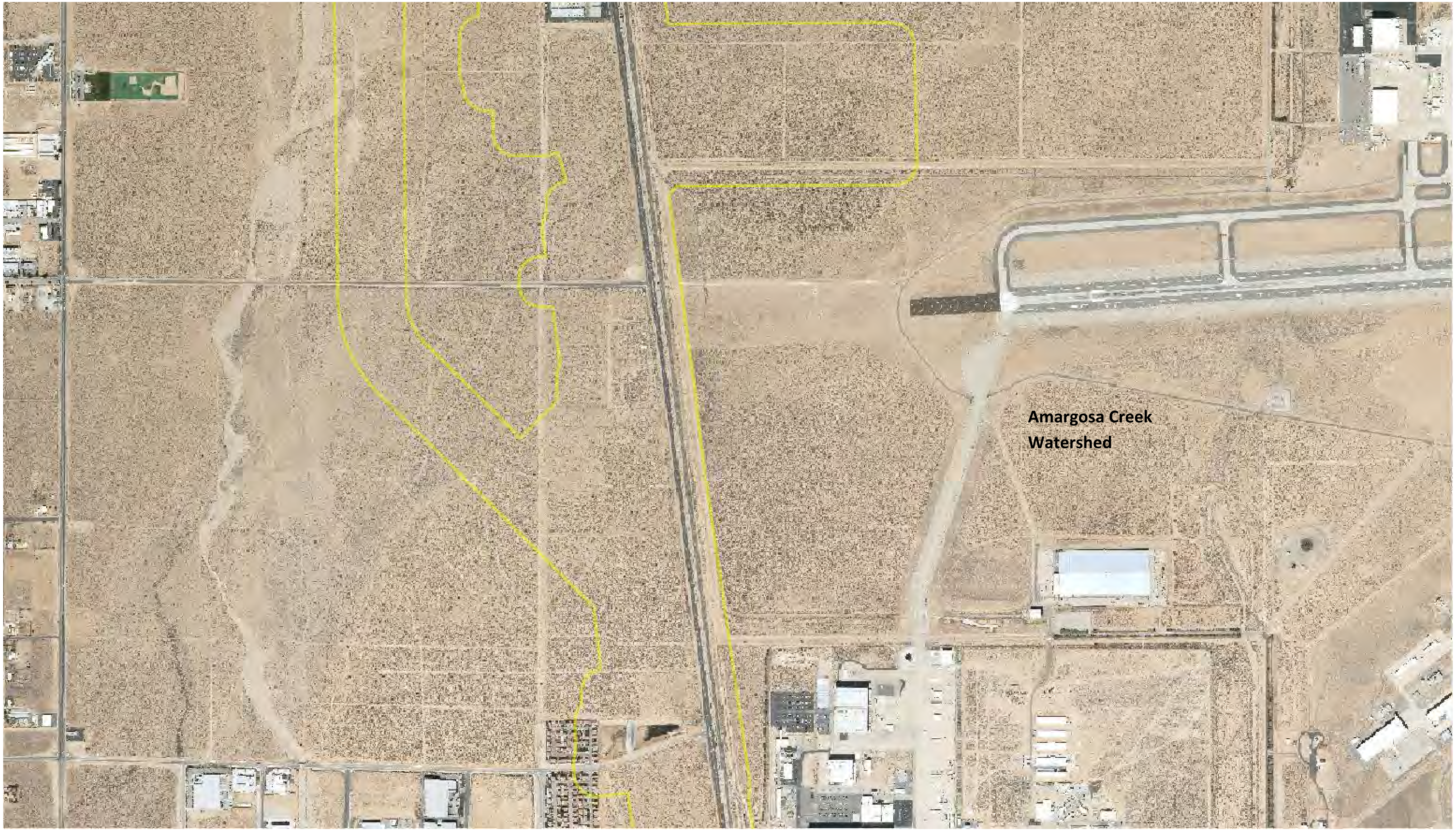

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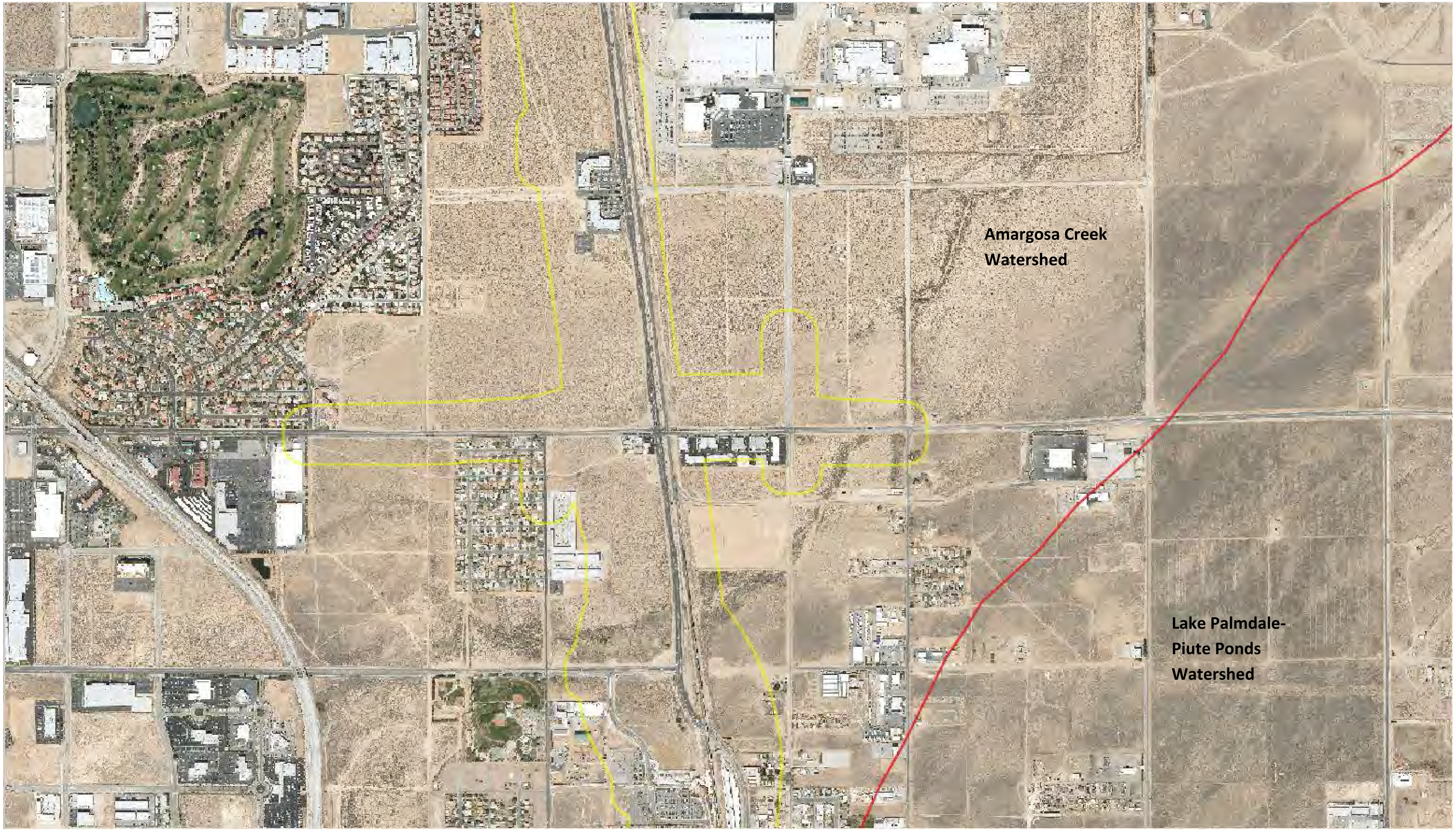

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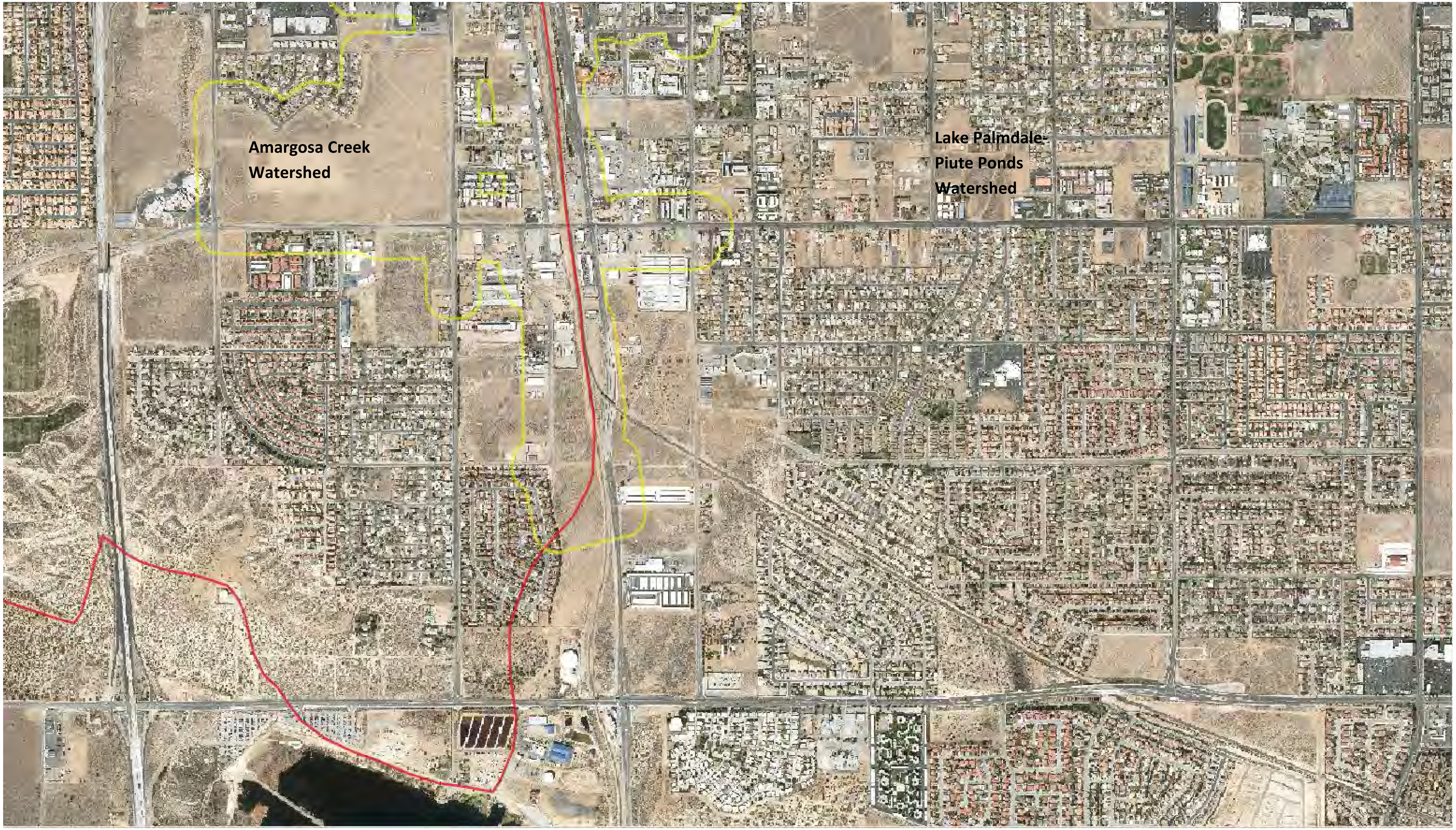

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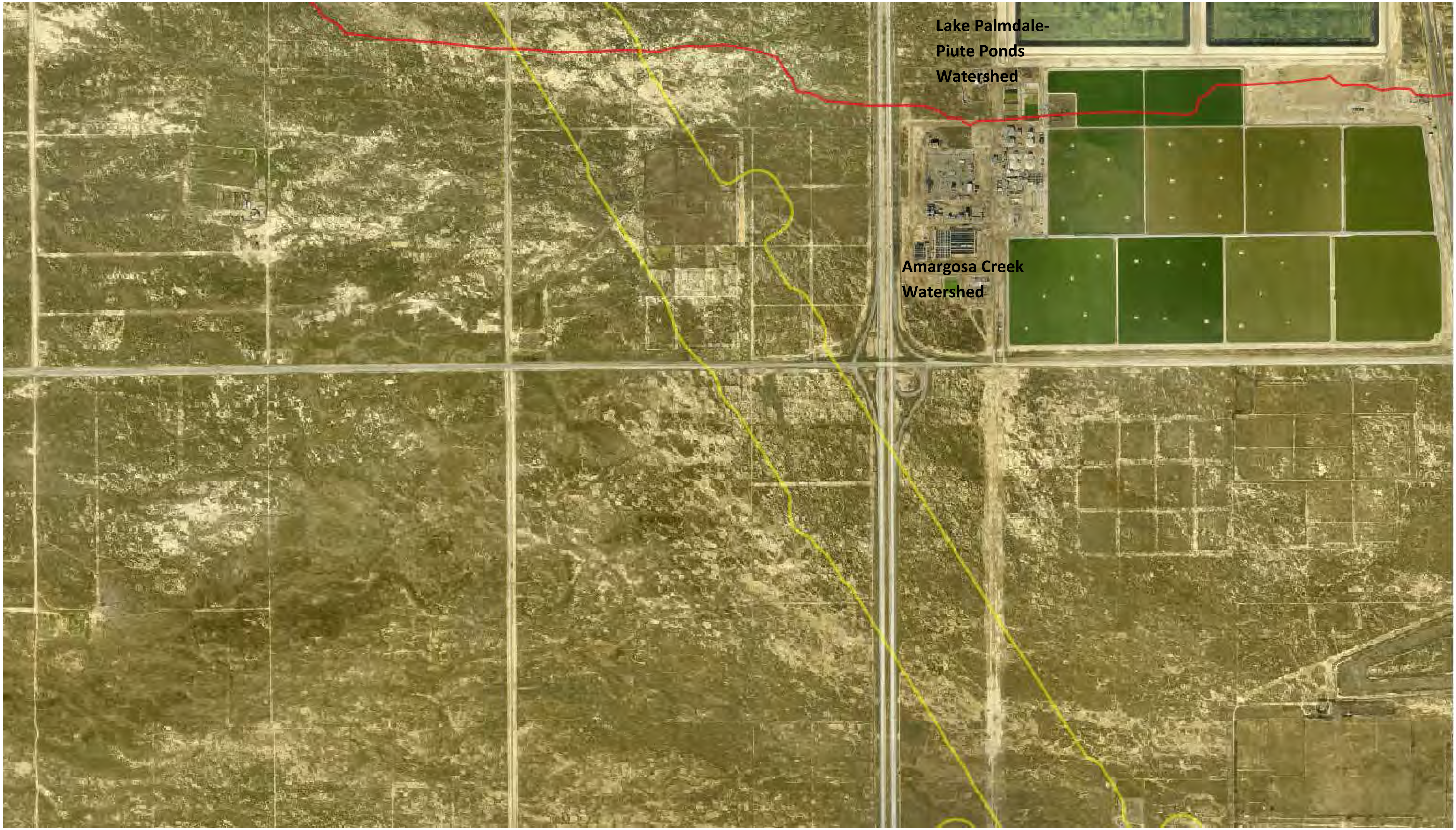

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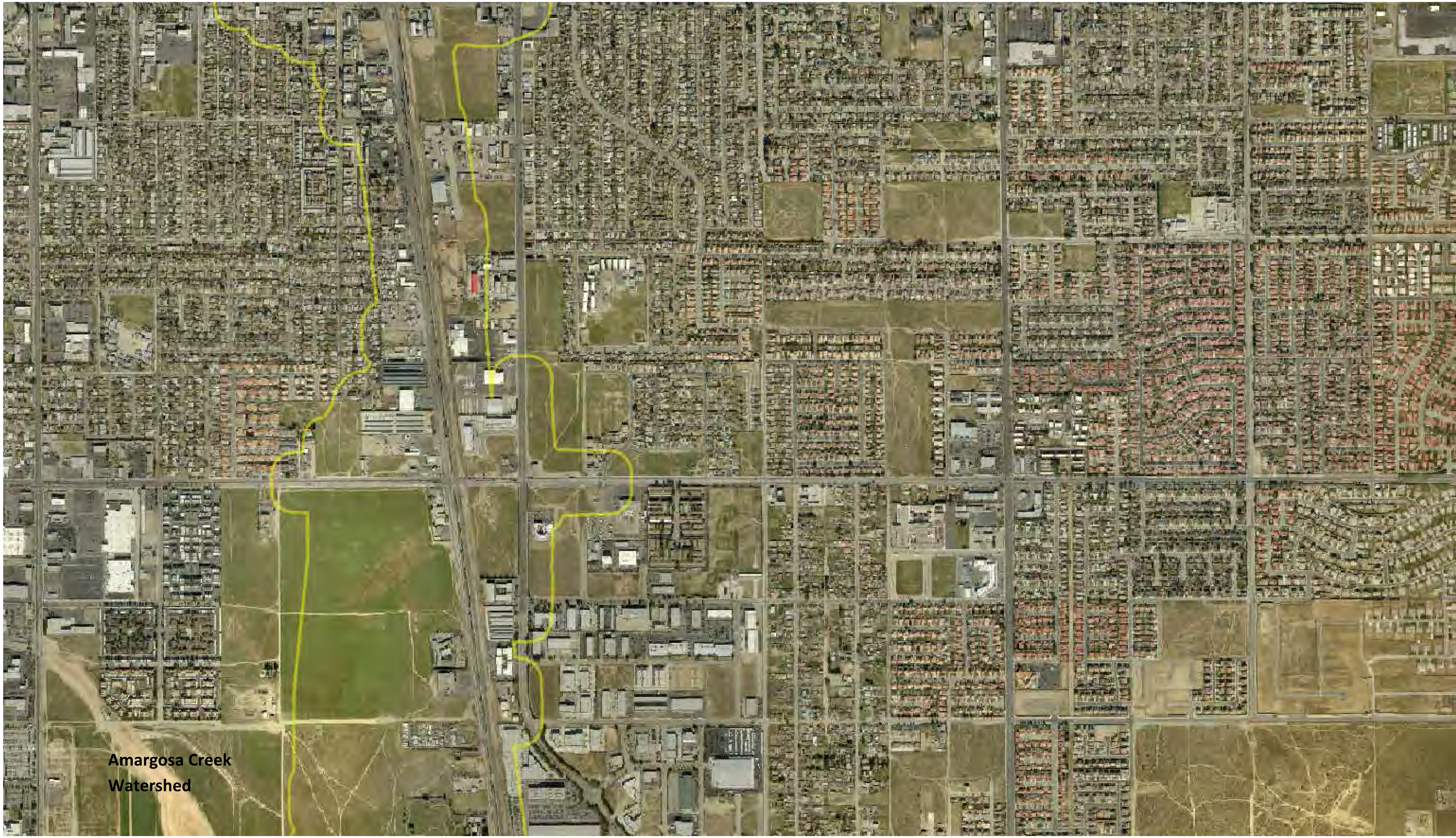

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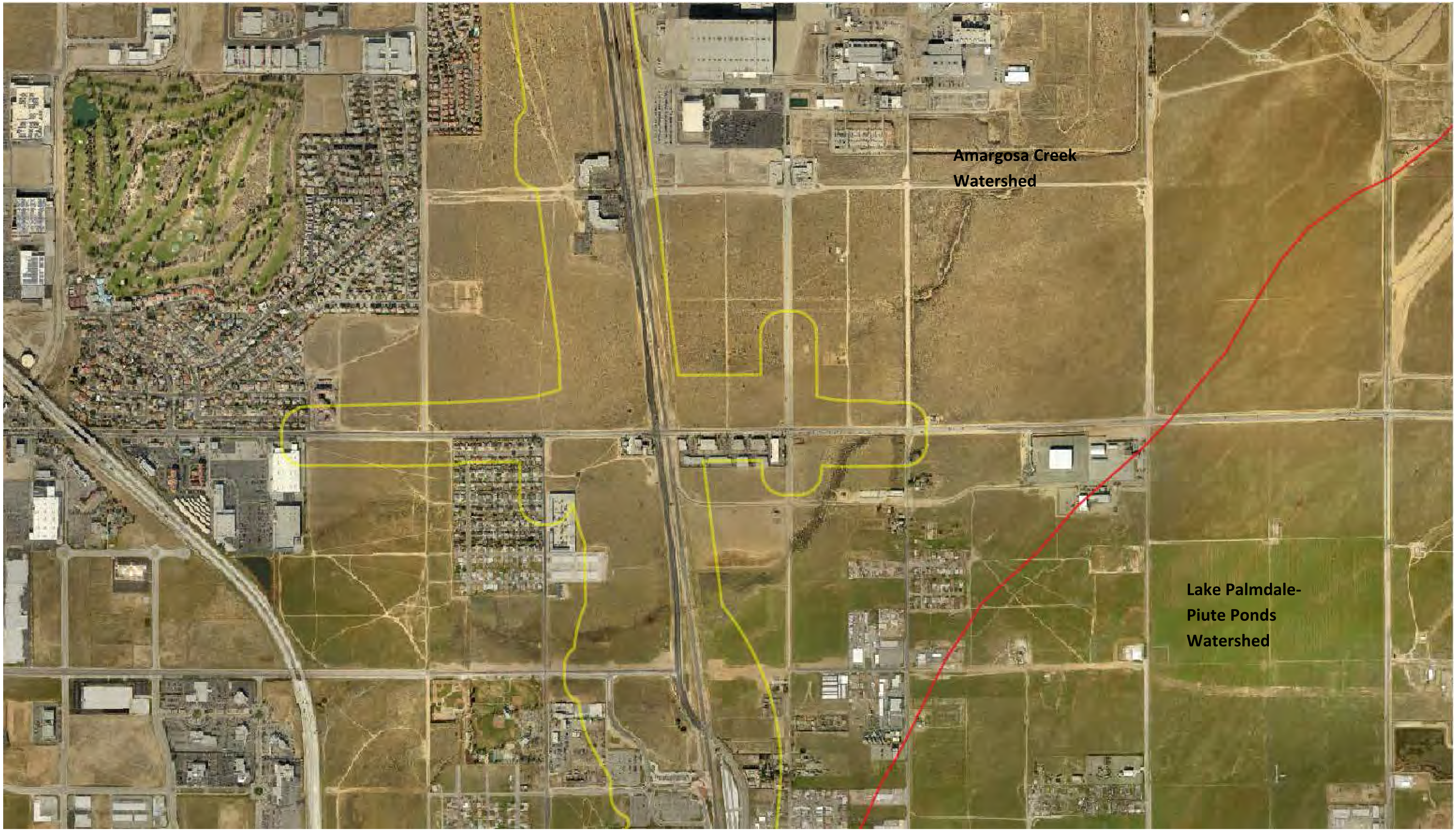

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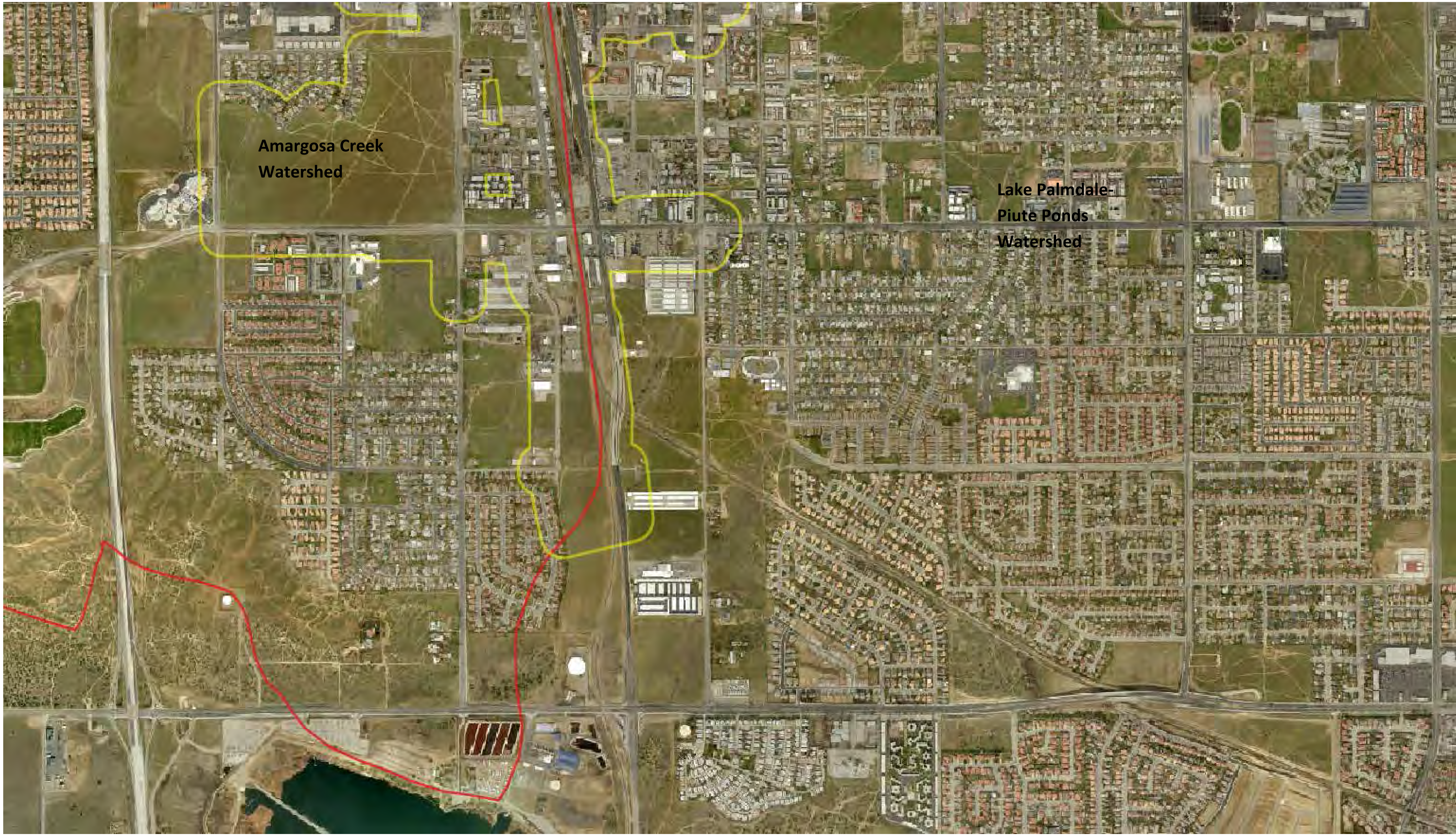
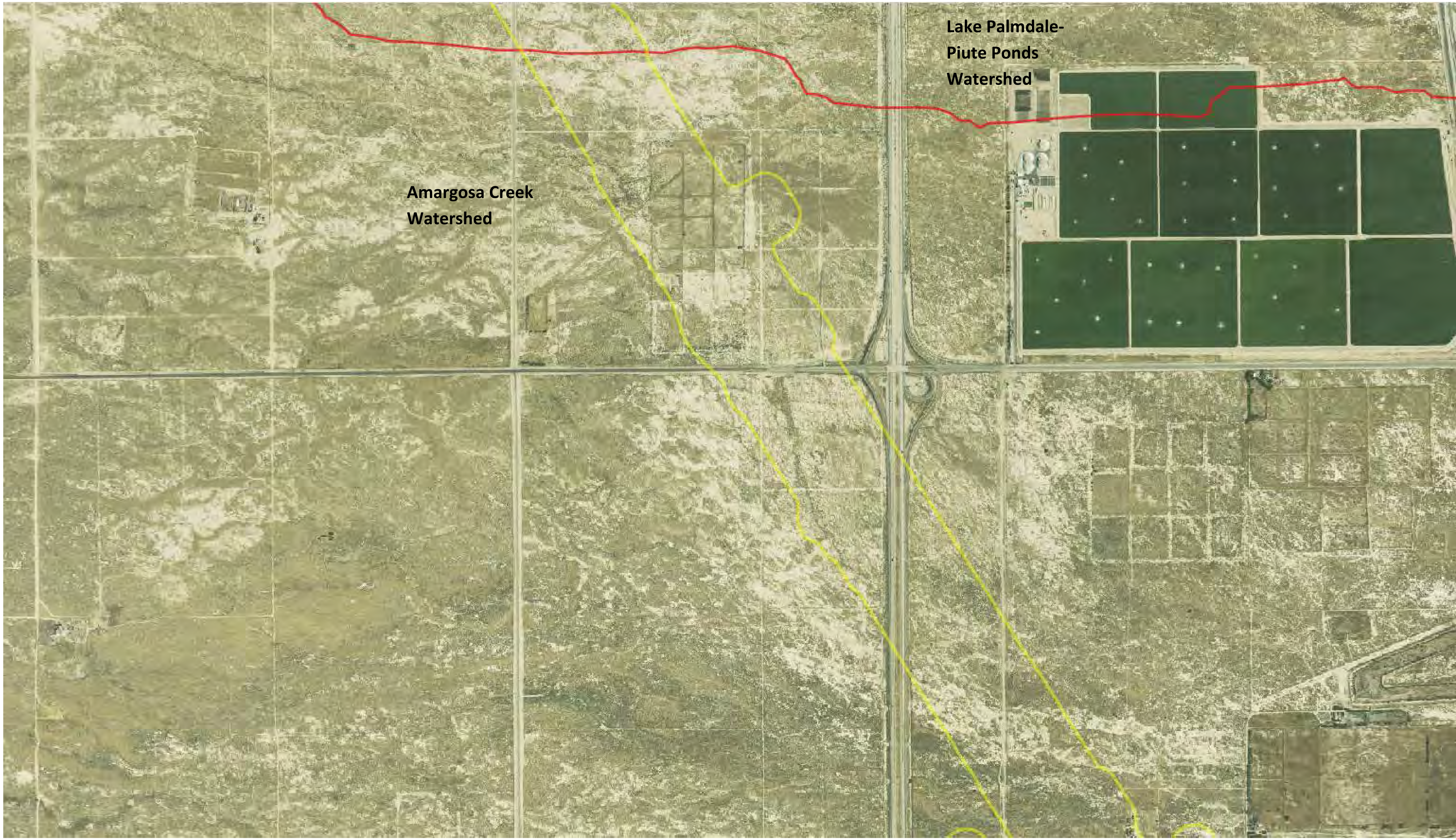
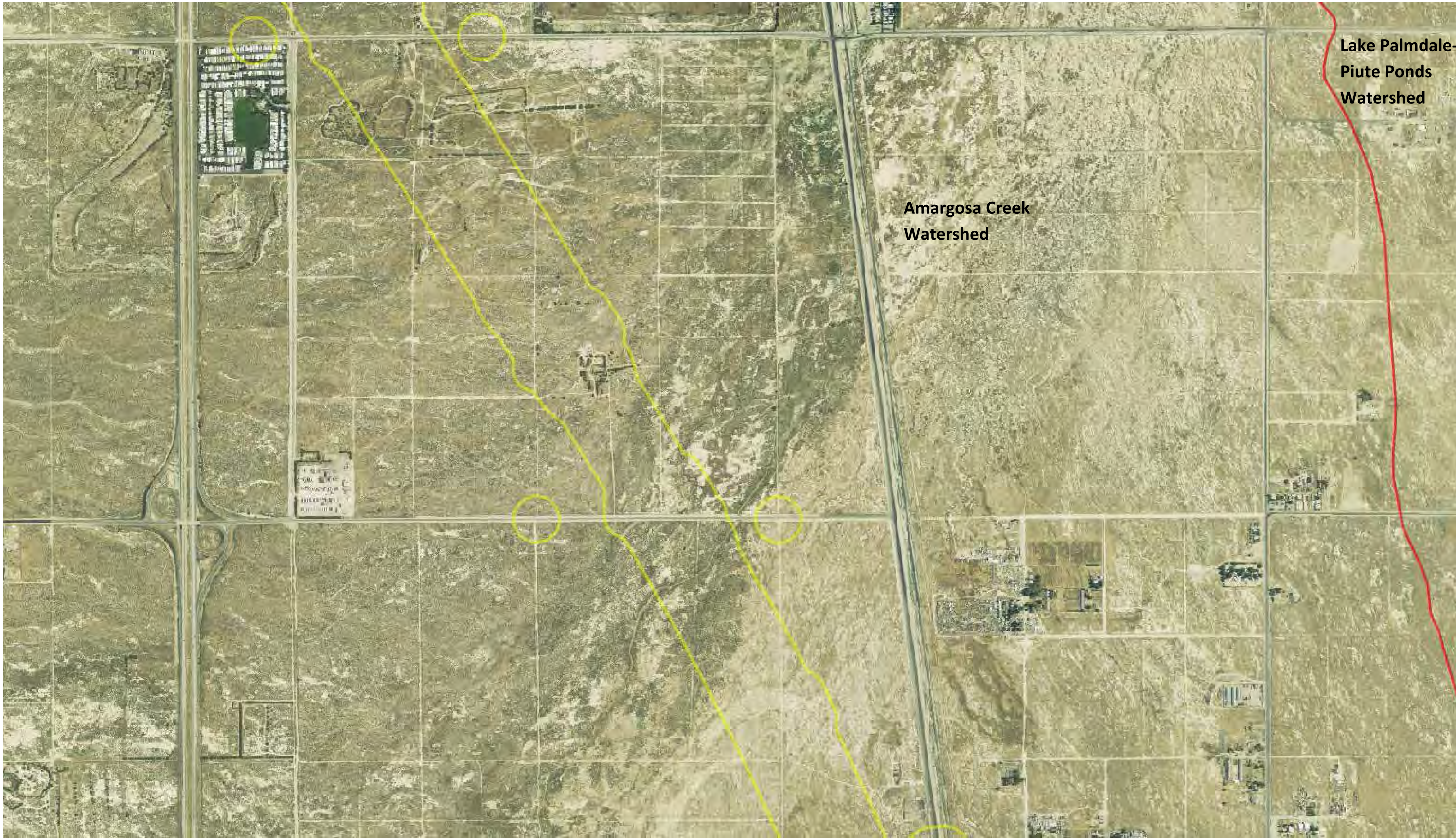


Los Angeles County 2011 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



NAIP 2005 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.



NAIP 2005 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.

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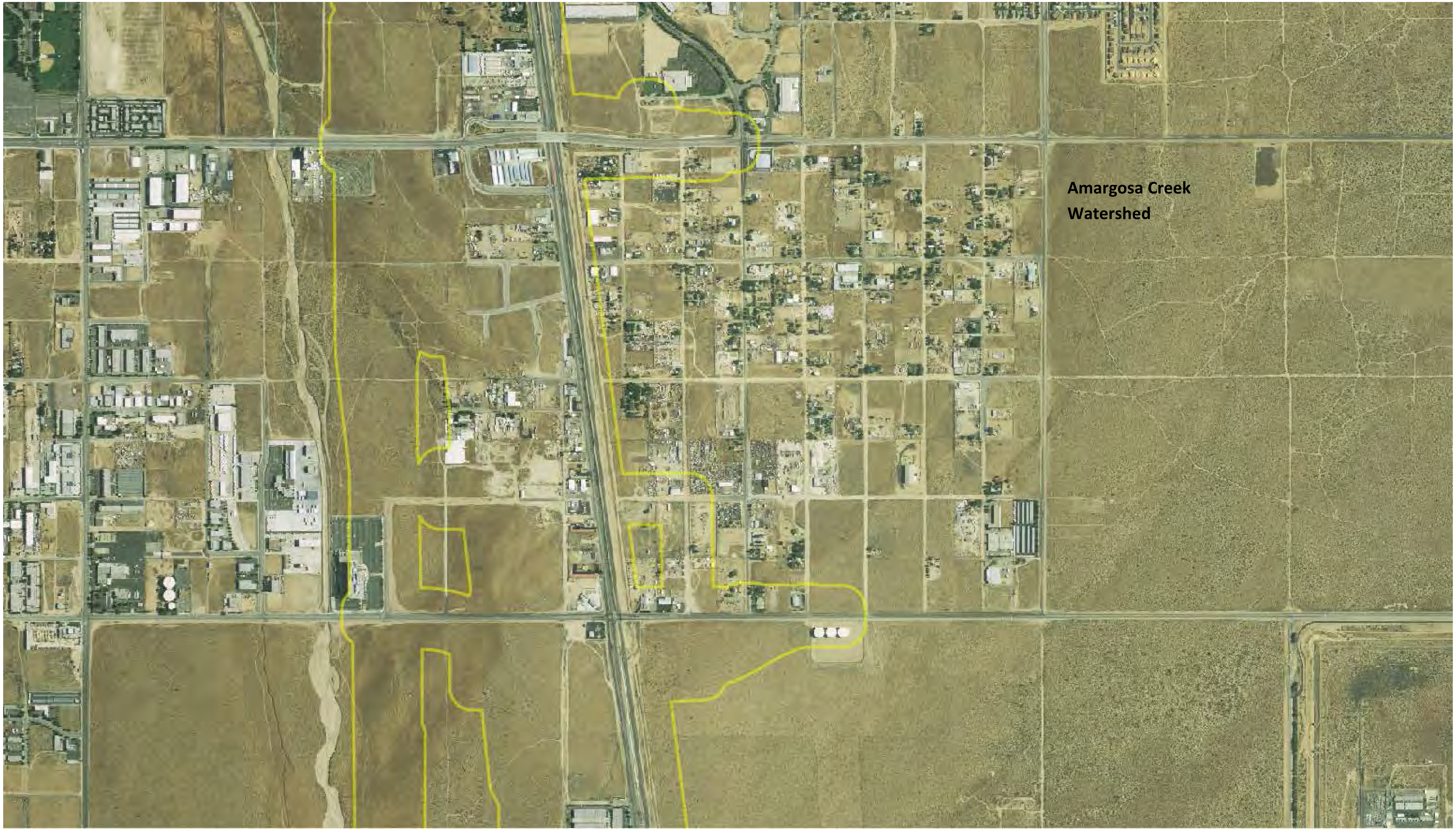

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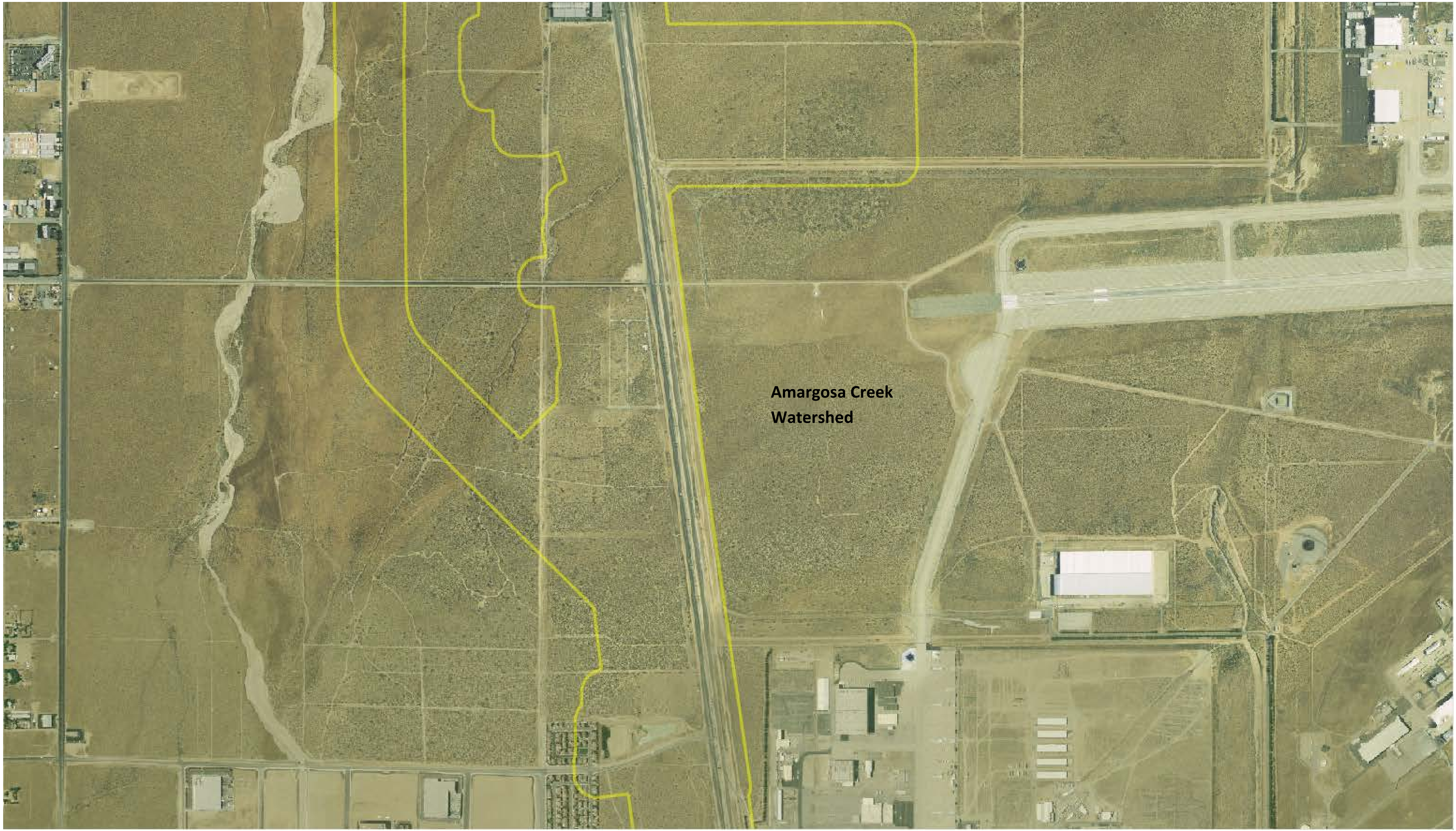

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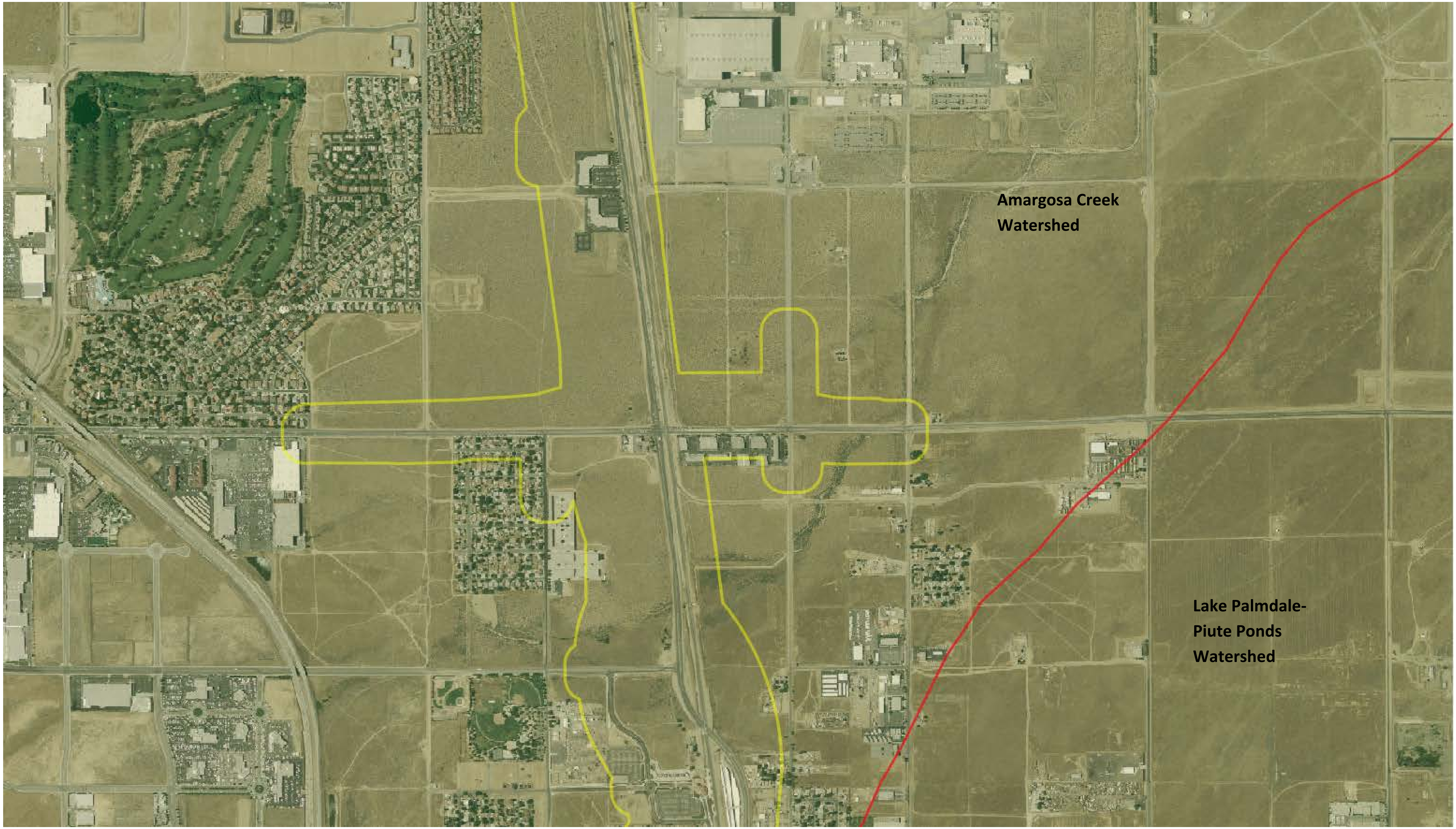

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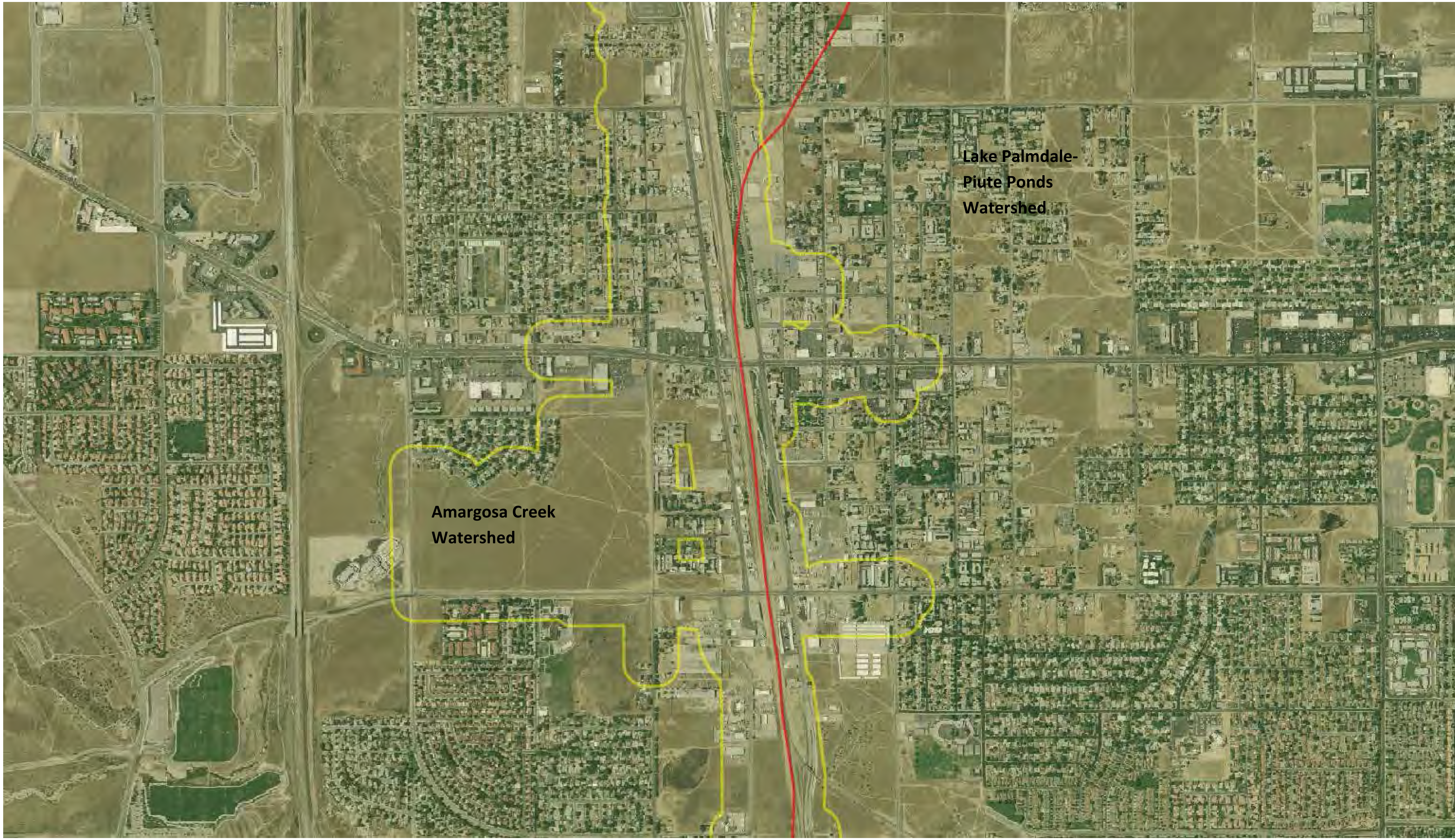

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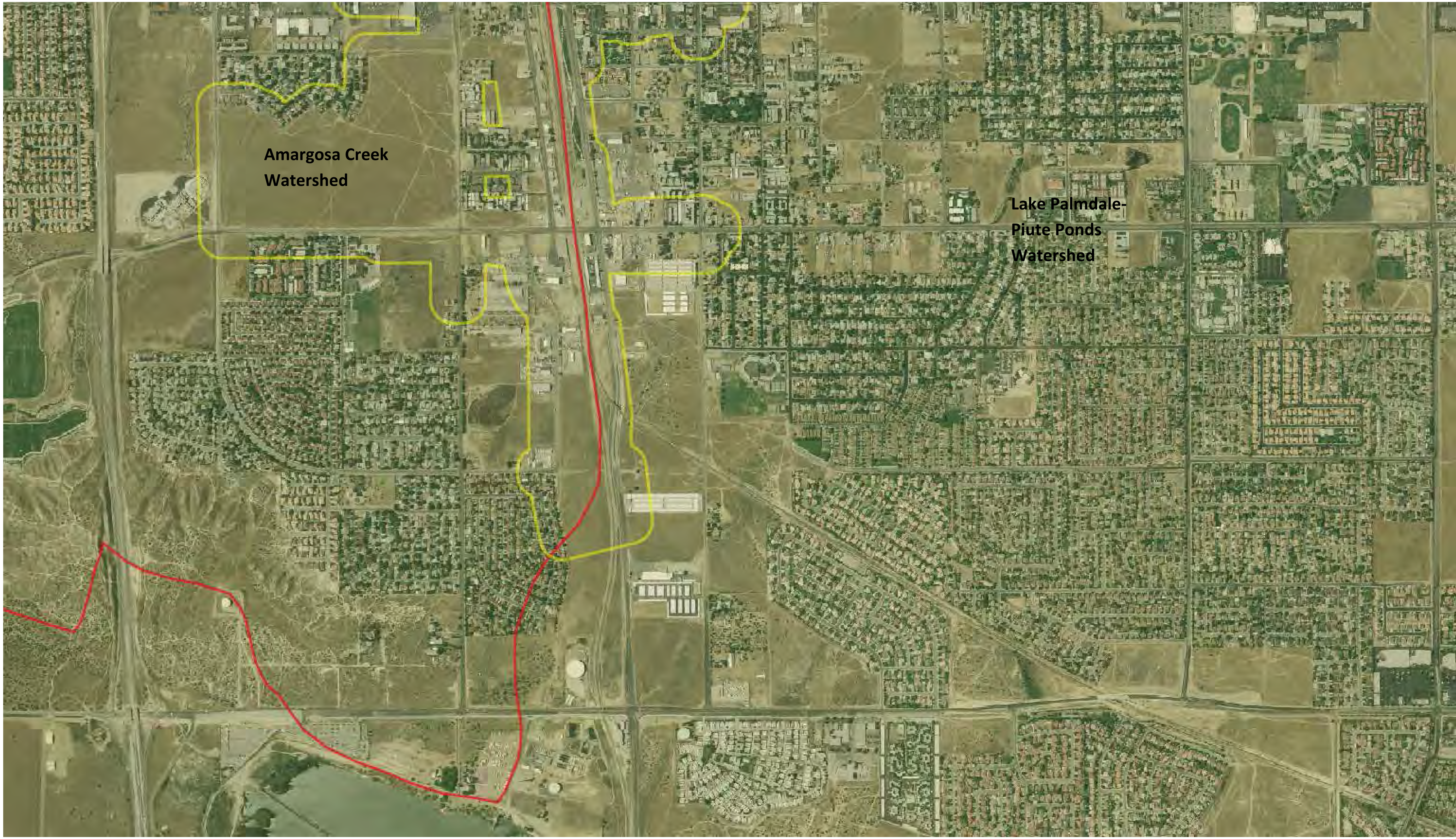

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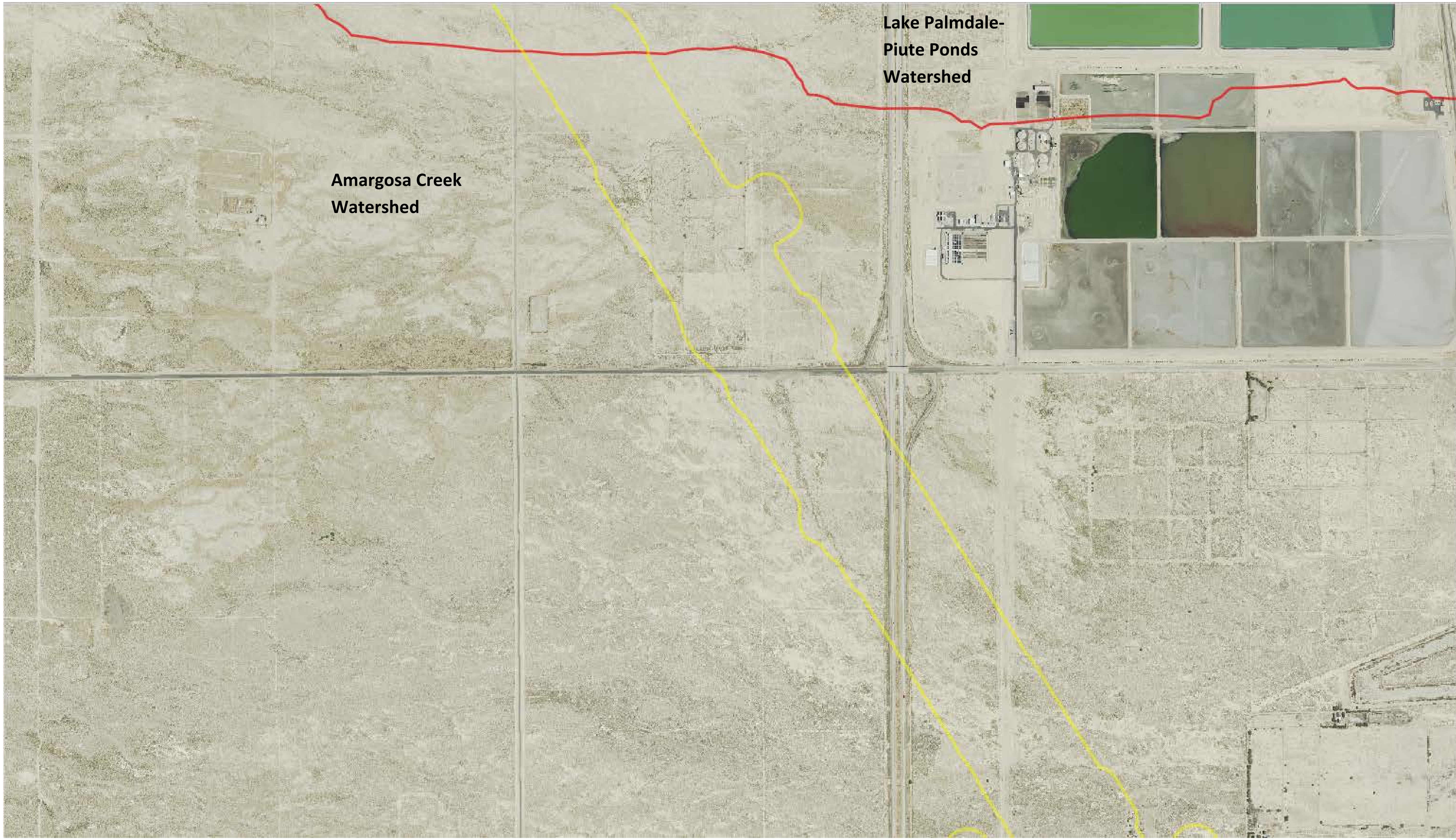

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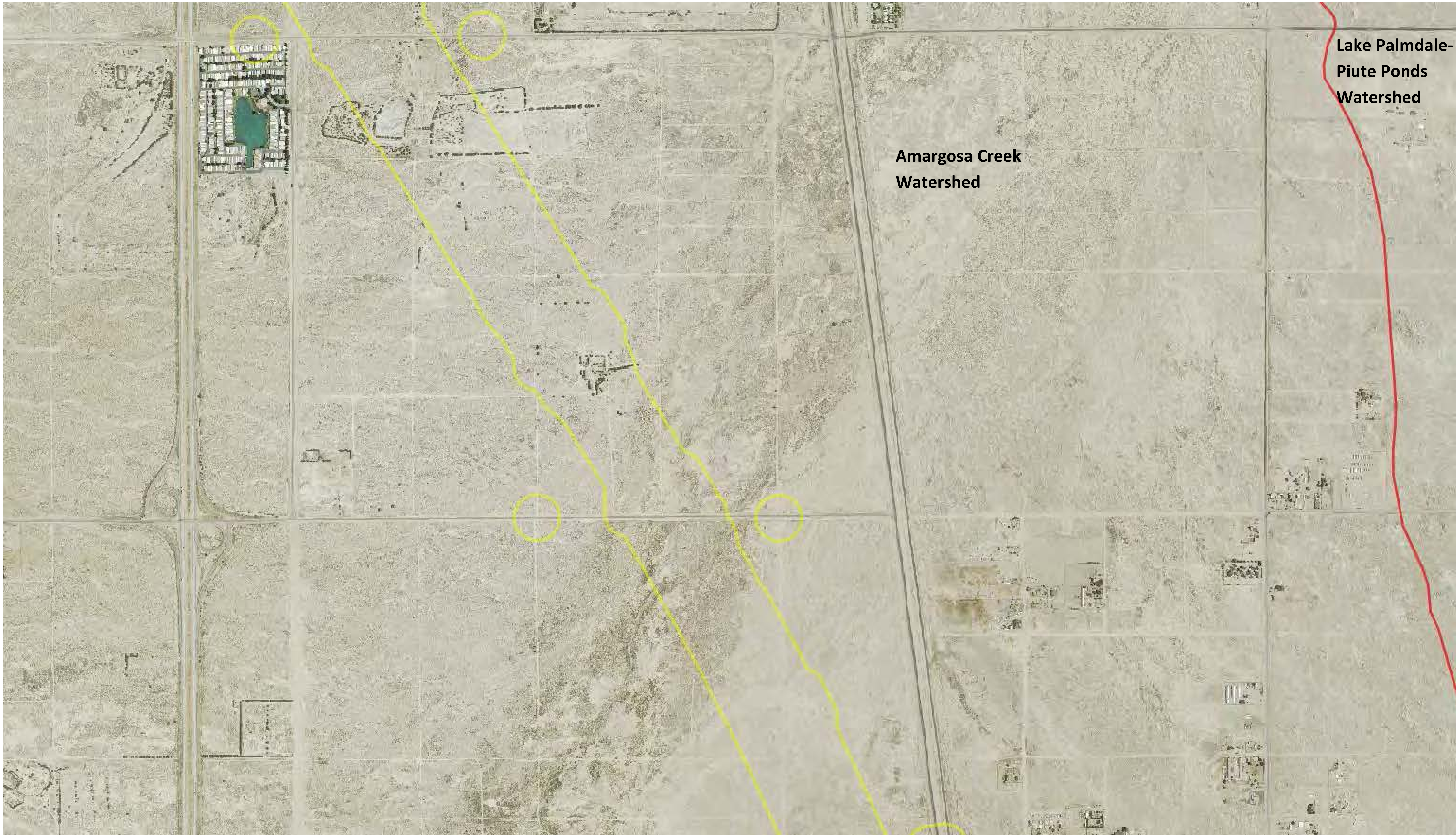

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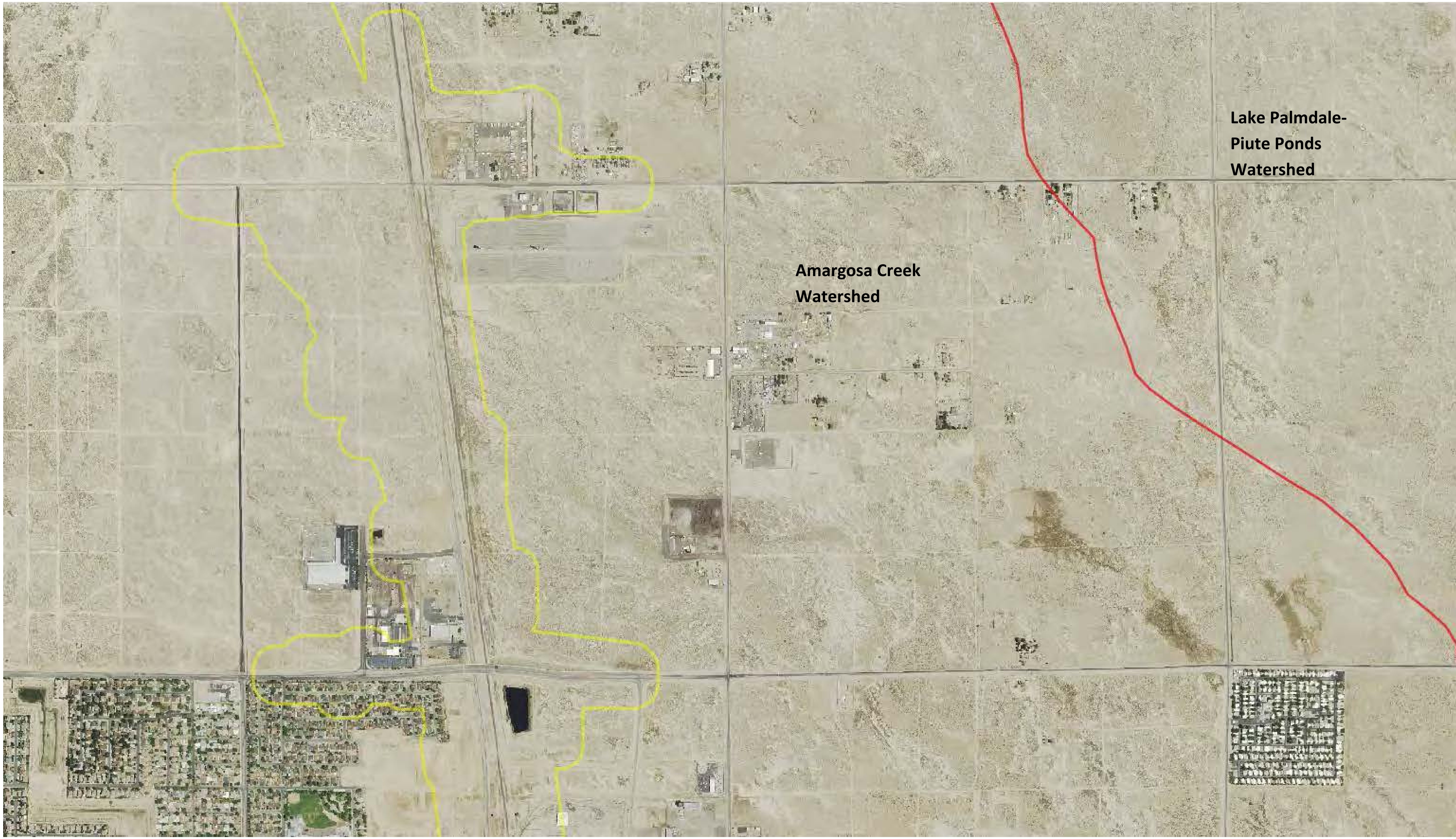

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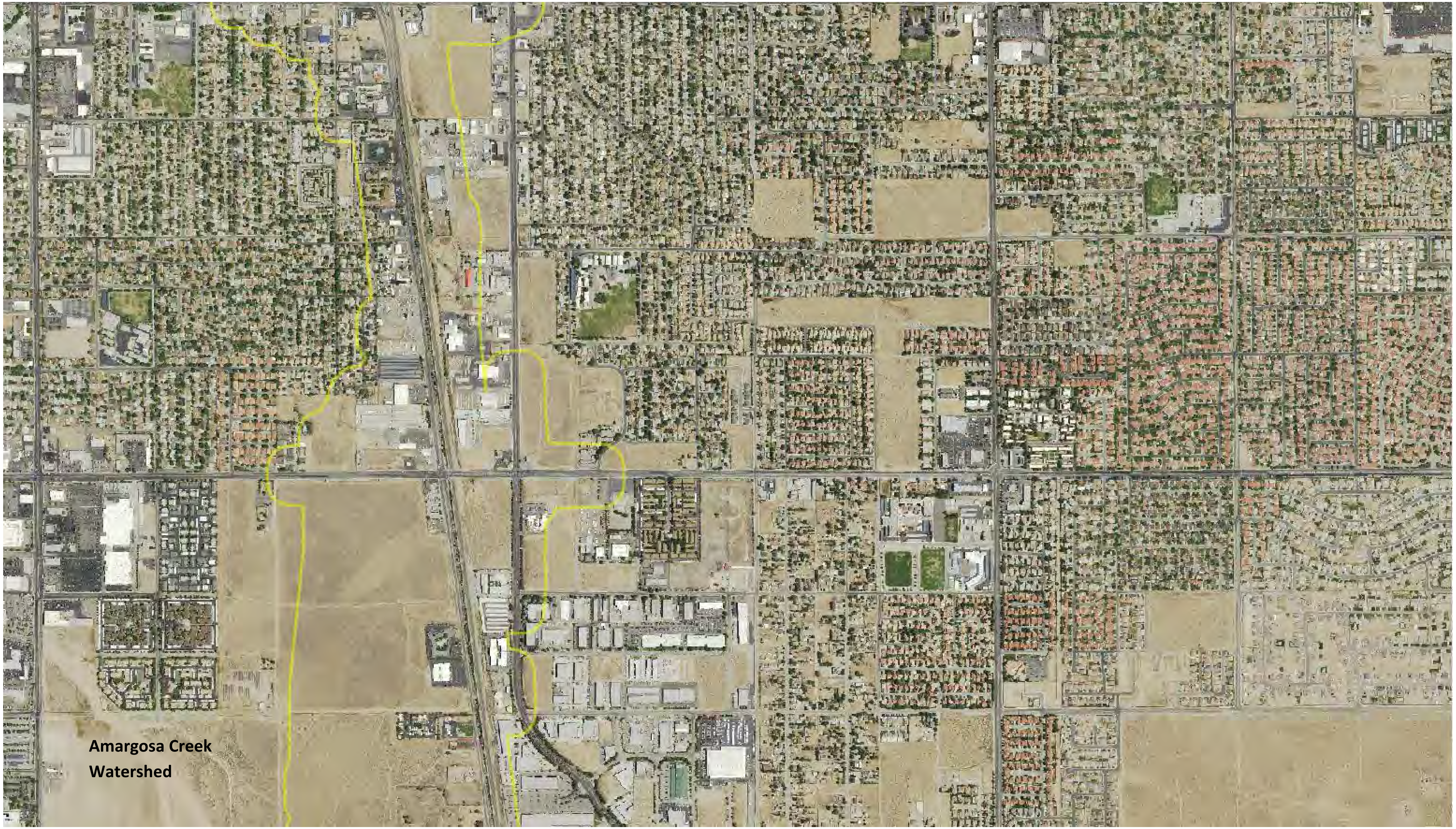

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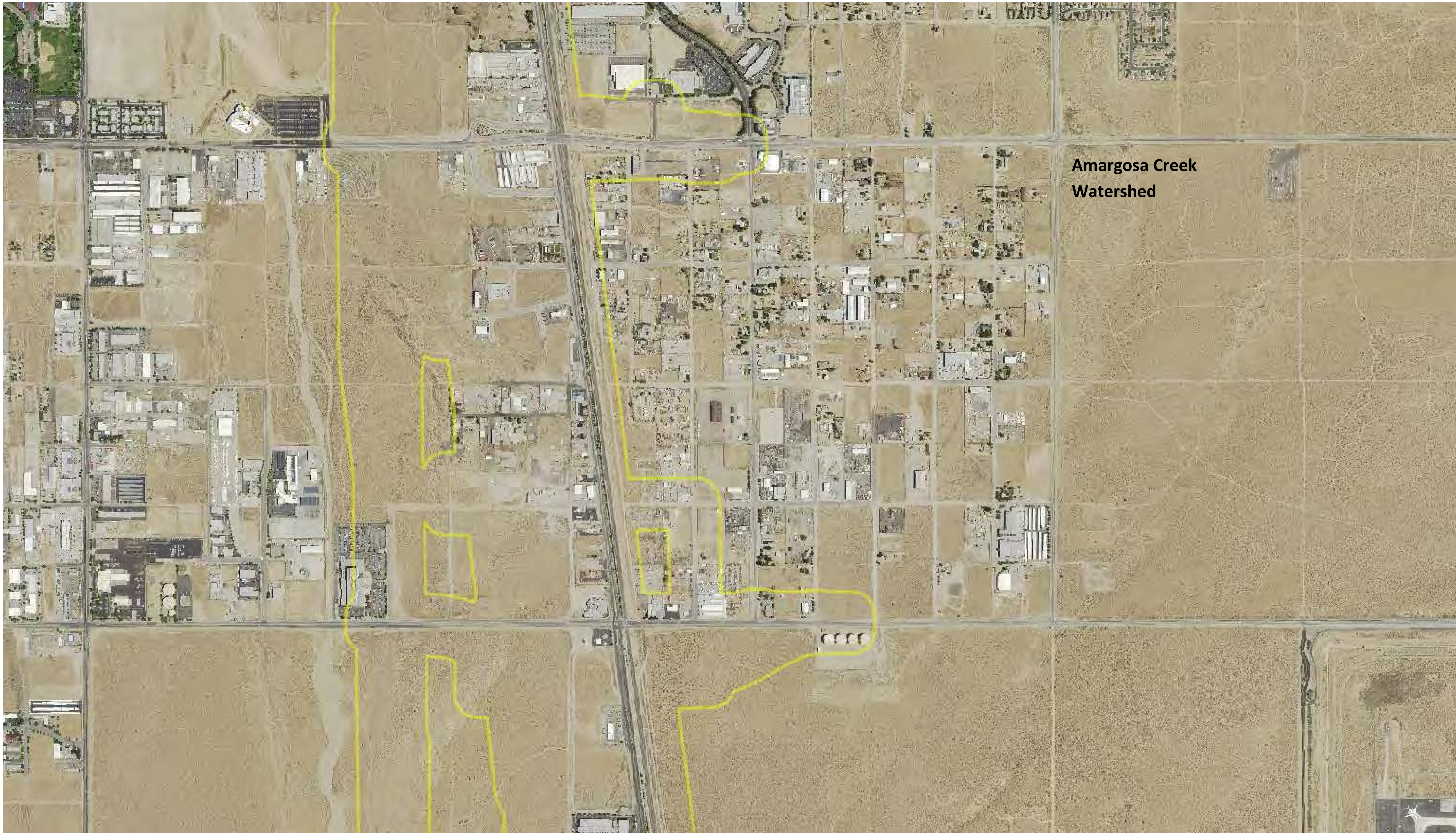

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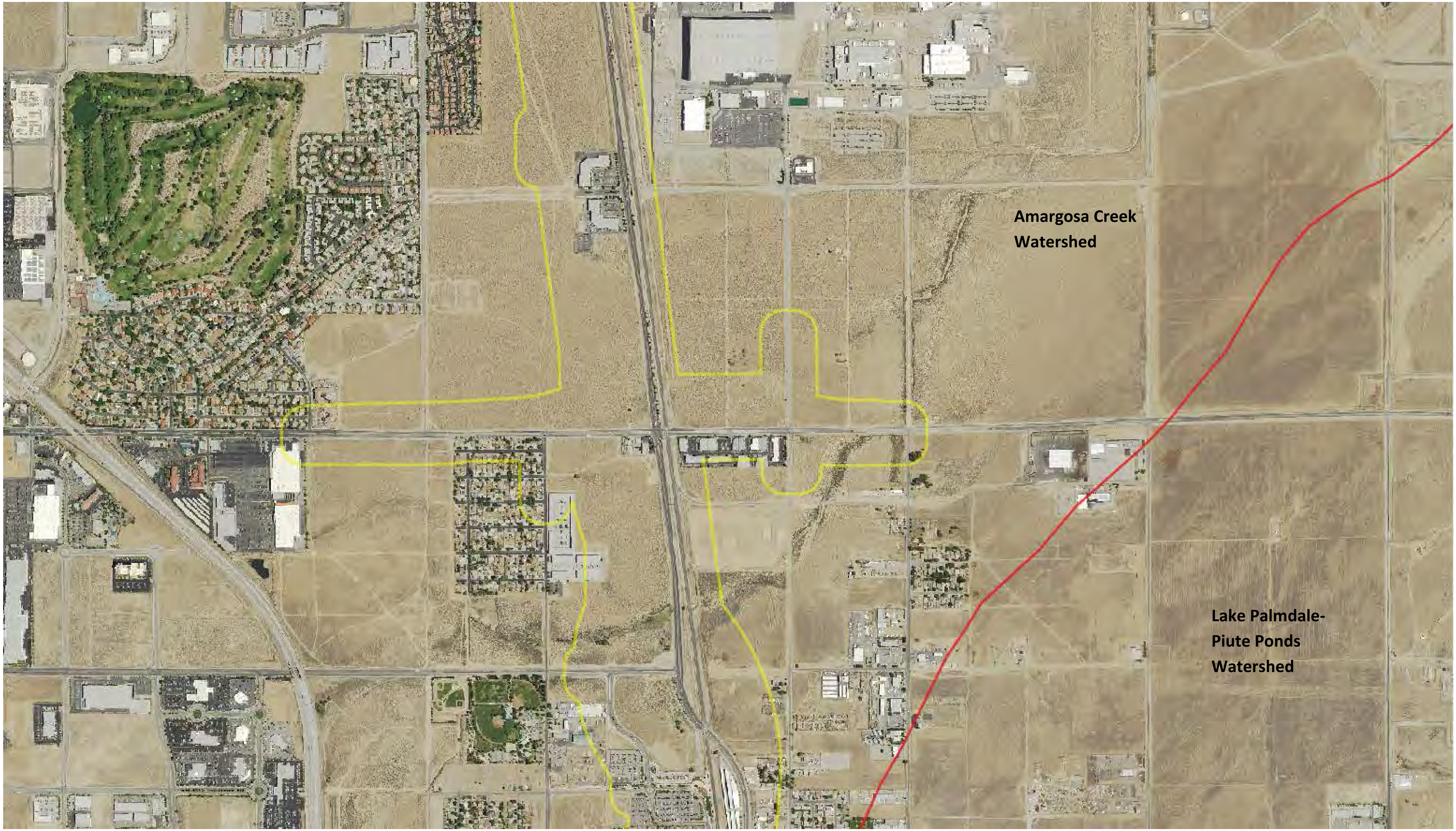

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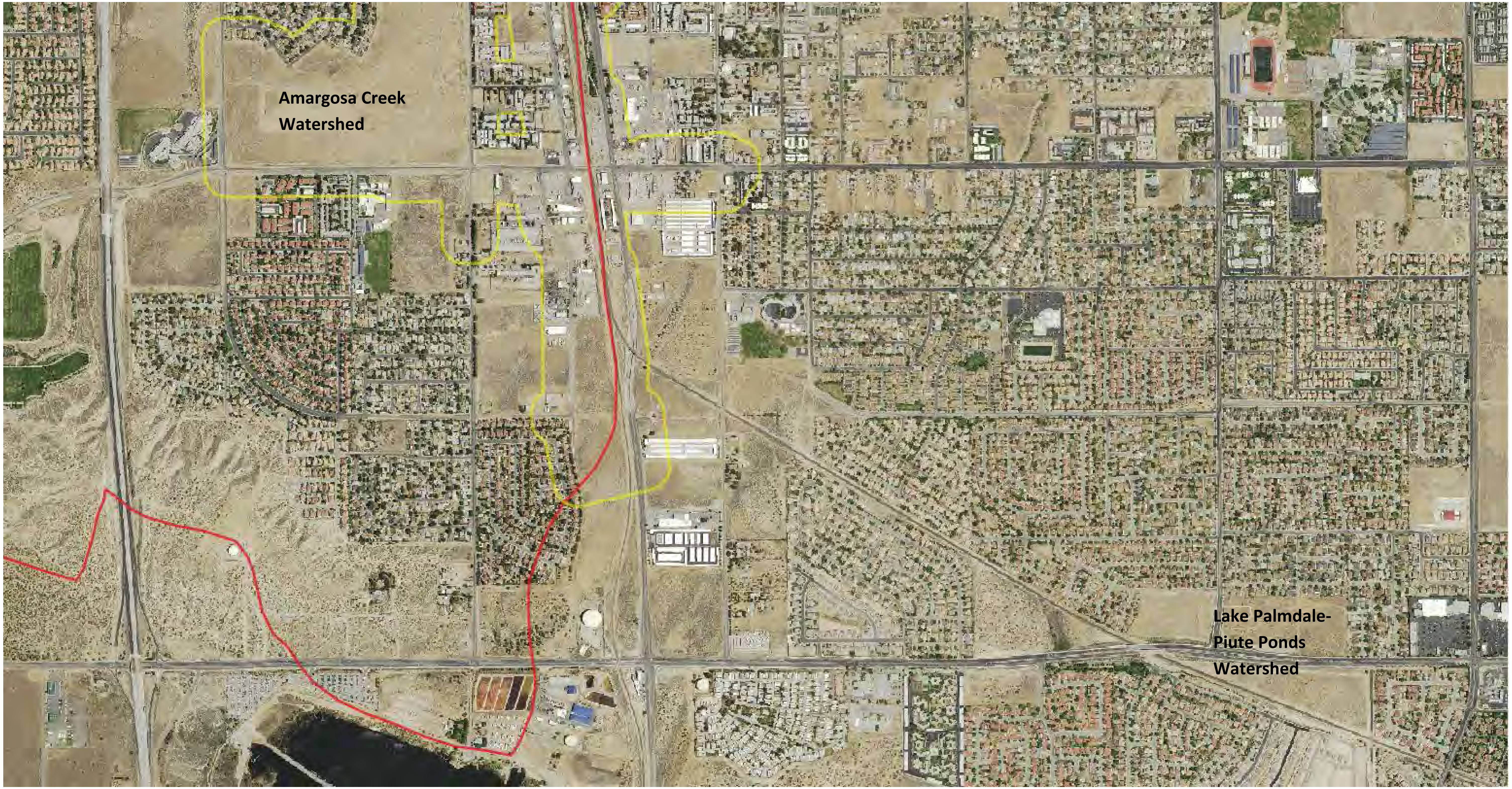

NAIP 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 10 Watershed Boundaries.

Aerial Sources: http://public.gis.lacounty.gov/public/rest/services/LACounty_Cache and http://gis.apfo.usda.gov/arcgis/services/NAIP/

Retrieved November 14, 2016.

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

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

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): August 25, 2017

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: SPL-2010-00945-VCL-JD-9

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: CA County/parish/borough: Los Angeles County City: N/A
Center coordinates of site (lat/long in degree decimal format): Lat. 34.567070° **N**, Long. 118.114223° **W**.
Universal Transverse Mercator: 397790 m E, 3825598 m N
Name of nearest waterbody: Lake Palmdale (south of the study area)
Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: N/A
Name of watershed or Hydrologic Unit Code (HUC): Lake Palmdale, California, 180902061501

☒ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
☒ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc…) are associated with this action and are recorded on a different JD form.

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

☒ Office (Desk) Determination. Date: July 25, 2017
☐ Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "*navigable waters of the U.S.*" within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [*Required*]

☐ Waters subject to the ebb and flow of the tide.
☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are no** "*waters of the U.S.*" within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [*Required*]

1. **Waters of the U.S.**
   a. **Indicate presence of waters of U.S. in review area (check all that apply):** [1]
      ☐ TNWs, including territorial seas
      ☐ Wetlands adjacent to TNWs
      ☐ Relatively permanent waters[2] (RPWs) that flow directly or indirectly into TNWs
      ☐ Non-RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      ☐ Impoundments of jurisdictional waters
      ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

   b. **Identify (estimate) size of waters of the U.S. in the review area:**
      Non-wetland waters: linear feet: width (ft) and/or acres.
      Wetlands: acres.

   c. **Limits (boundaries) of jurisdiction** based on: **Not Applicable.**
      Elevation of established OHWM (if known): .

2. **Non-regulated waters/wetlands (check if applicable):**[3]
   ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

Within the project area of the Lake Palmdale HUC 12, there are a total of 3 aquatic features. These features include two ditches, spanning a total of approximately 190 linear feet and covering approximately 0.018 acre, and one unnamed ephemeral stream, spanning approximately 47 linear feet and covering approximately 0.007 acre. Note that ditches constructed in uplands that do not capture waters of the U.S. and do not drain to waters of the U.S. are not typically regulated. Labeled maps and tables of

[1] Boxes checked below shall be supported by completing the appropriate sections in Section III below.
[2] For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).
[3] Supporting documentation is presented in Section III.F.

features and dimensions are provided in the Aquatic Resources Delineation Report, which identifies each feature according to which HUC-12 watershed it occurs within.

The two ephemeral ditches, features Ditch_0461 and Ditch_0462, originate adjacent from run-off from along Sierra Highway and the existing railroad, and flow into the unnamed ephemeral stream, feature Str_0463. This unnamed ephemeral stream flows in a northeastern direction toward Rosamond Dry Lake north of the study area. Immediately outside the study area, this feature flows through an undeveloped lot towards residential and commercially developed lots. At this point, the hydrologic path of this feature is obscured by development. No discernable hydrologic connection can be traced to other surface waters downslope of this study area. However, a review of topographic maps and watershed boundary datasets indicates that waters from these features drain toward Rosamond Dry Lake.

There are no Traditional Navigable Waters (TNWs) or Relatively Permanent Waters (RPWs) in the study area, and the ephemeral desert streams in the study area are not tributaries to RPWs or TNWs. A previous SWANCC watershed-level Approved JD for Antelope Valley (HUC10 #s 1809020609 through 1809020624, excluding those portions of HUC12s 18090206151, 1901902061102, and 180902061103 that drain toward Lake Palmdale and its tributaries) determined that Rosamond, Buckhorn and Rogers Dry Lakes, and their tributaries, (i.e. the Antelope Valley Watershed, excluding Lake Palmdale and tributaries to Lake Palmdale) are non-jurisdictional waters of the United States under SWANCC. This determination, SPL-2011-01084-SLP, dated June 7, 2013, found that these Antelope Valley waters are not tributary to either a TNW or an (a)(3) water and Rosamond, Buckhorn and Rogers Dry Lakes are not (a)(3) waters themselves. The Corps made this watershed conclusion because the Antelope Valley watershed is an isolated, intrastate watershed without any surface water related interstate commerce. This previous determination is still in effect, and is appended as a supporting document for this determination.

Previously approved jurisdictional determinations have been made for tributaries to these dry lakes. When these lakes were analyzed in SPL-2011-01084-SLP, the Corps found no published commercial uses of the surface waters of any tributaries to Rosamond, Buckhorn and Rogers Dry Lakes, and determined that a review of aerial photographs (Google Earth) also did not depict surface water usage of any drainages tributary to the dry lakes. The Corps found that all tributaries to Rosamond, Buckhorn and Rogers Dry Lakes are not (a)(3) waters as defined by 33 C.F.R. section 328.3(a)(3)(i-iii). The previous determination found that since Rosamond, Buckhorn and Rogers Dry Lakes are intrastate, isolated waters without a surface water connection to commerce, all tributaries to Rosamond, Buckhorn and Rogers Dry Lakes as part of the overall watershed system are also isolated and additionally have no nexus to commerce. A review of current conditions and updated literature review found that conditions have not changed since the SPL-2011-01084-SLP determination for Antelope Valley. While Ditch_0461, Ditch_0462, and Str_0463 are located within the Lake Palmdale watershed, these features do not flow to either Lake Palmdale or tributaries to Lake Palmdale. Further, these features flow towards Rosamond Dry Lake. Thus, the one ephemeral stream segment and two ditches in this study area are intrastate, isolated waters with no interstate or foreign commerce connection and therefore are not currently regulated.

The above is based upon the review of aerial photographs (Google Earth, accessed July 25, 2017) that also did not show surface water usage of the project drainages or the Rosamond Dry Lake terminus. Since the Rosamond Dry Lake is an intrastate, isolated water without a surface water connection to commerce (see prior AJD file No. SPL-2011-01084-SLP), the subject two ditches and one unnamed ephemeral desert wash, as part of the same overall system, are also isolated and additionally have no nexus to commerce.

Based on the information above, the subject two ditches and one unnamed ephemeral desert wash, are NONJURISDICTIONAL waters of the United States, since the waters are NOT tributary to either a TNW or an (a)(3) water and are NOT (a)(3) waters themselves. The Corps makes such a conclusion since the waters are tribuatary to an isolated, intrastate dry lake.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW
Identify TNW: .

Summarize rationale supporting determination: .

2. Wetland adjacent to TNW
Summarize rationale supporting conclusion that wetland is "adjacent": .

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody[4] is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

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

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

(ii) Physical Characteristics:
(a) Relationship with TNW:
☐ Tributary flows directly into TNW.
☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.
Project waters are **Pick List** river miles from RPW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Project waters are **Pick List** aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain: .

Identify flow route to TNW[5]: .
Tributary stream order, if known: .

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[4] Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.
[5] Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

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

Tributary is: ☐ Natural
☐ Artificial (man-made). Explain: .
☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):
Average width: feet
Average depth: feet
Average side slopes: **Pick List.**

Primary tributary substrate composition (check all that apply):

☐ Silts ☐ Sands ☐ Concrete
☐ Cobbles ☐ Gravel ☐ Muck
☐ Bedrock ☐ Vegetation. Type/% cover:
☐ Other. Explain: .

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .
Presence of run/riffle/pool complexes. Explain: .
Tributary geometry: **Pick List**
Tributary gradient (approximate average slope): %

(c) Flow:
Tributary provides for: **Pick List**
Estimate average number of flow events in review area/year: **Pick List**
Describe flow regime: .
Other information on duration and volume: .

Surface flow is: **Pick List.** Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .
☐ Dye (or other) test performed: .

Tributary has (check all that apply):
☐ Bed and banks
☐ OHWM[6] (check all indicators that apply):

☐ clear, natural line impressed on the bank ☐ the presence of litter and debris
☐ changes in the character of soil ☐ destruction of terrestrial vegetation
☐ shelving ☐ the presence of wrack line
☐ vegetation matted down, bent, or absent ☐ sediment sorting
☐ leaf litter disturbed or washed away ☐ scour
☐ sediment deposition ☐ multiple observed or predicted flow events
☐ water staining ☐ abrupt change in plant community
☐ other (list):

☐ Discontinuous OHWM.[7] Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☐ High Tide Line indicated by: ☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects ☐ survey to available datum;
☐ fine shell or debris deposits (foreshore) ☐ physical markings;
☐ physical markings/characteristics ☐ vegetation lines/changes in vegetation types.
☐ tidal gauges
☐ other (list):

(iii) Chemical Characteristics:
Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).
Explain: .
Identify specific pollutants, if known: .

[6]A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.
[7]Ibid.

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

☐ Riparian corridor. Characteristics (type, average width): .
☐ Wetland fringe. Characteristics: .
☐ Habitat for:
 ☐ Federally Listed species. Explain findings: .
 ☐ Fish/spawn areas. Explain findings: .
 ☐ Other environmentally-sensitive species. Explain findings: .
 ☐ Aquatic/wildlife diversity. Explain findings: .

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

(i) Physical Characteristics:

(a) General Wetland Characteristics:
Properties:
 Wetland size: acres
 Wetland type. Explain: .
 Wetland quality. Explain: .
Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:
Flow is: **Pick List**. Explain: .

Surface flow is**: Pick List**
 Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .
 ☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:
☐ Directly abutting
☐ Not directly abutting
 ☐ Discrete wetland hydrologic connection. Explain: .
 ☐ Ecological connection. Explain: .
 ☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW
Project wetlands are **Pick List** river miles from TNW.
Project waters are **Pick List** aerial (straight) miles from TNW.
Flow is from: **Pick List.**
Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .
Identify specific pollutants, if known: .

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

☐ Riparian buffer. Characteristics (type, average width): .
☐ Vegetation type/percent cover. Explain: .
☐ Habitat for:
 ☐ Federally Listed species. Explain findings: .
 ☐ Fish/spawn areas. Explain findings: .
 ☐ Other environmentally-sensitive species. Explain findings: .
 ☐ Aquatic/wildlife diversity. Explain findings: .

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **Pick List**
Approximately ( ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .

2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   - ☐ TNWs: linear feet width (ft), Or, acres.
   - ☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**
   - ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
   - ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

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

☐ Tributary waters: linear feet width (ft).

☐ Other non-wetland waters: acres.

Identify type(s) of waters: .

3. **Non-RPWs[8] that flow directly or indirectly into TNWs.**

☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

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

☐ Tributary waters: linear feet width (ft).

☐ Other non-wetland waters: acres.

Identify type(s) of waters: **.**

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**

☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **.**

☐ Wetlands directly abutting an RPW where tributaries typically flow “seasonally.” Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**

☐ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

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

☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.[9]**

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

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

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

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

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):[10]

☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.

☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.

☐ which are or could be used for industrial purposes by industries in interstate commerce.

☐ Interstate isolated waters. Explain: .

☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

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[8]See Footnote # 3.

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

[10] Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos.*

Provide estimates for jurisdictional waters in the review area (check all that apply):
☐ Tributary waters: linear feet width (ft).
☐ Other non-wetland waters: acres.
Identify type(s) of waters: .
☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):
☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
☒ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
☒ Prior to the Jan 2001 Supreme Court decision in "*SWANCC*," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
☐ Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: .
☐ Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):
☒ Non-wetland waters (i.e., rivers, streams): **47** linear feet **6 feet in** width (ft).
☐ Lakes/ponds: acres.
☒ Other non-wetland waters: 0.018 acres. List type of aquatic resource: Ditches.
☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):
☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
☐ Lakes/ponds: acres.
☐ Other non-wetland waters: acres. List type of aquatic resource: .
☐ Wetlands: acres.

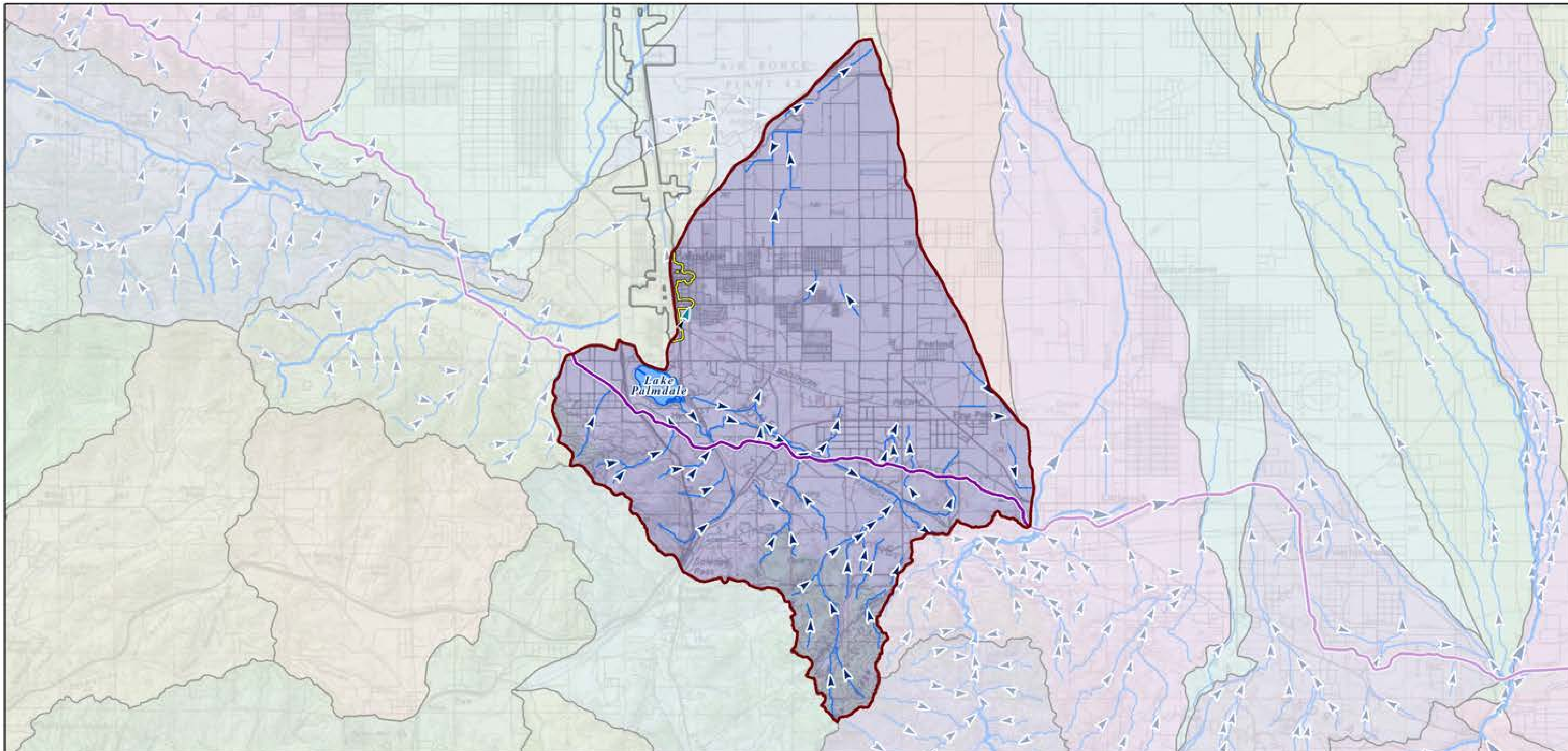
SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Features are depicted on Map Sheets 171 in Appendix E of the submitted delineation..
☐ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report.
☐ Data sheets prepared by the Corps: .
☐ Corps navigable waters' study: .
☒ U.S. Geological Survey Hydrologic Atlas: .
☒ USGS NHD data.
☒ USGS 8 and 12 digit HUC maps.
☒ U.S. Geological Survey map(s). Cite scale & quad name: Palmdale 7.5 minute quadrangle.
☐ USDA Natural Resources Conservation Service Soil Survey. Citation: .
☐ National wetlands inventory map(s). Cite name: .
☐ State/Local wetland inventory map(s): .
☐ FEMA/FIRM maps: .
☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
☒ Photographs: ☒ Aerial (Name & Date):NAIP Imagery 2005 and 2014 at 1-m resolution; LA County Imagery 2011 and 2013 at a 1-foot resolution.
or ☐ Other (Name & Date): .
☒ Previous determination(s). File no. and date of response letter: SPL-2011-01084-SLP, June 7, 2013.
☐ Applicable/supporting case law: .
☐ Applicable/supporting scientific literature: .
☒ Other information (please specify): Aquatic Resources Delineation Report prepared by the applicant/consultant references additional materials; also Appendix E contains map sheets; Appendix F contains dimensions. HUC watershed maps of review areas with NHD Data provided by the applicant/consultant; general use of NAIP Imagery 2009, 2010, and 2012 at 1-m resolution; LA County Imagery 2015 at 1-foot resolution; 2015 Site specific IR Imagery, 3-inch color pixel; Bing Aerial Imagery - multiple years (scale

dependent); ESRI World Imagery (streaming service) multiple years (scale dependent); Google Earth Historic Photos (used for reference and includes portions from above listed sources).

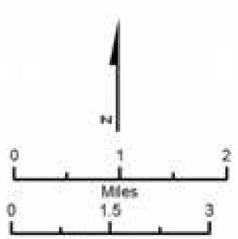
B. ADDITIONAL COMMENTS TO SUPPORT JD:

Waters_Name	Cowardin_Code	HGM_Code	Amount	Units	Latitude	Longitude
Ditch_0461	R6	RIVERINE	0.009	ACRE	34.5667	-118.115
Ditch_0462	R6	RIVERINE	0.009	ACRE	34.56725	-118.114
Str_0463	R6	RIVERINE	0.007	ACRE	34.56697	-118.114.



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

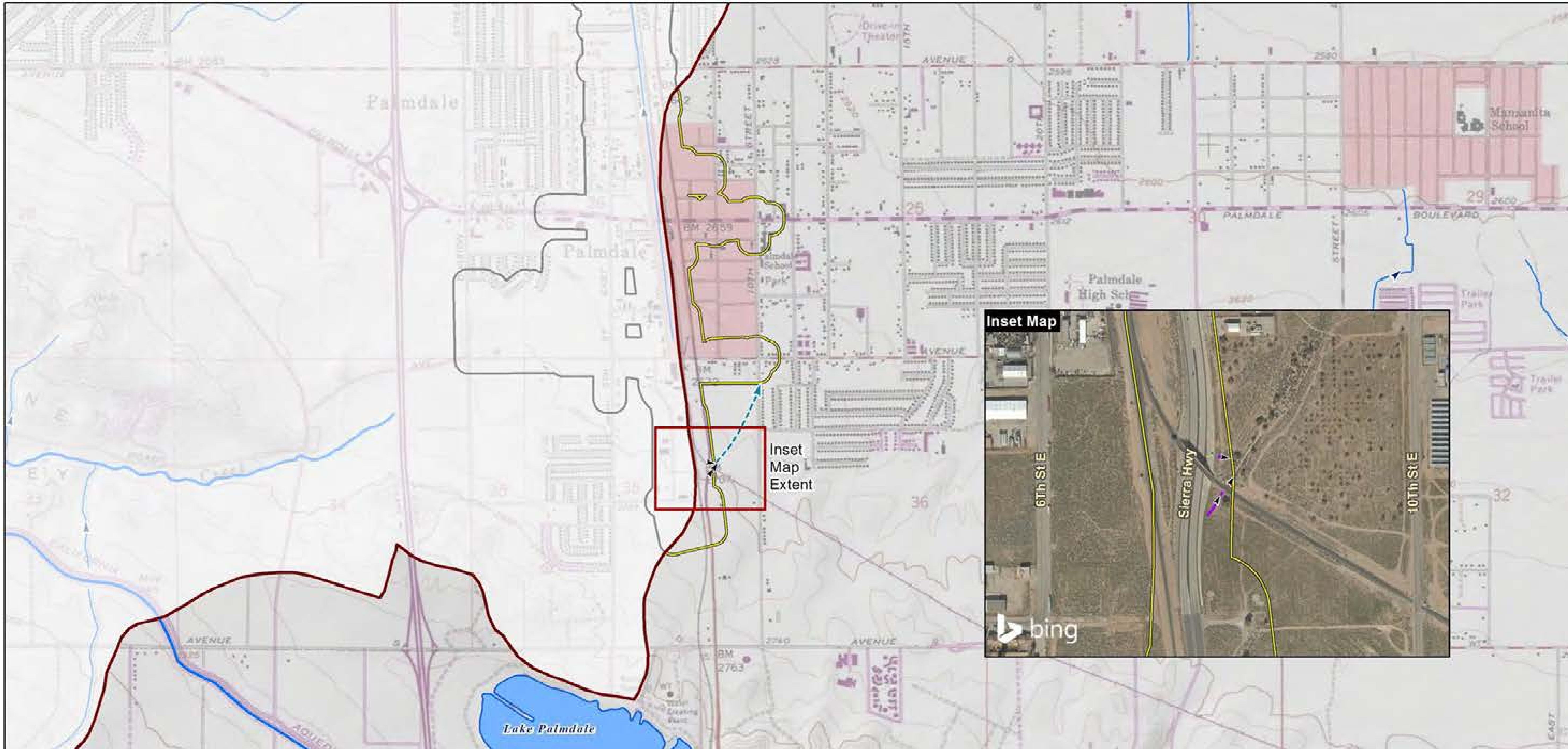
November 22, 2016



BP HSR Mapped Streams in the Lake Palmdale Watershed Study Area

- Ephemeral Stream
- Ditch
- Study Area in the Lake Palmdale Watershed
- Lake Palmdale Watershed HUC-12
- Other HUC-12 Watersheds
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines
- Presumed Hydrologic Path
- Governor Edmund G Brown California Aqueduct

Lake Palmdale Watershed Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Microsoft Bing Aerial (2016); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

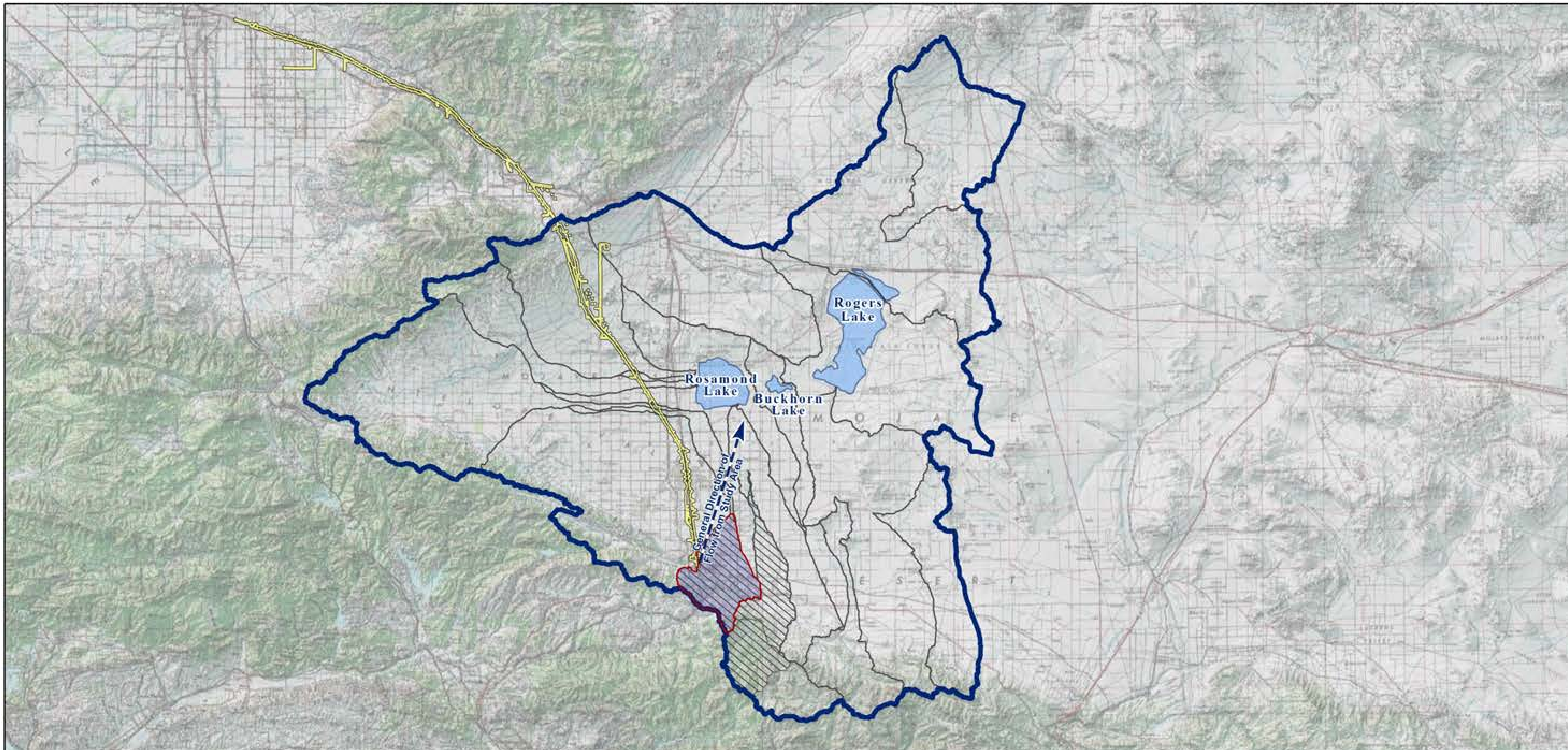
November 18, 2016

BP HSR Mapped Streams in the Lake Palmdale Watershed Study Area

- Ephemeral Stream
- Ditch
- Study Area in the Lake Palmdale Watershed
- Lake Palmdale Watershed HUC-12
- Wetlands Study Area (Project Footprint + 250 ft Buffer)
- Direction of flow based on NHD flowlines
- Presumed Hydrologic Path

0 0.2 0.4 Miles
0 0.3 0.6 Kilometers

Lake Palmdale Watershed
Study Area Hydrologic Connectivity



PRELIMINARY DRAFT/SUBJECT TO CHANGE - HSR ALIGNMENT IS NOT DETERMINED
SOURCE: ESRI/USGS Topographic Basemap (2016); USGS 30m Hillshade (2015); Phase 4B Engineering data from CaHSRA (4/2016); Watershed Boundary Dataset/National Hydrography Dataset (2015).

November 17, 2016

N

0 5 10 Miles
0 8 16 Kilometers

Lake Palmdale Watershed HUC-12

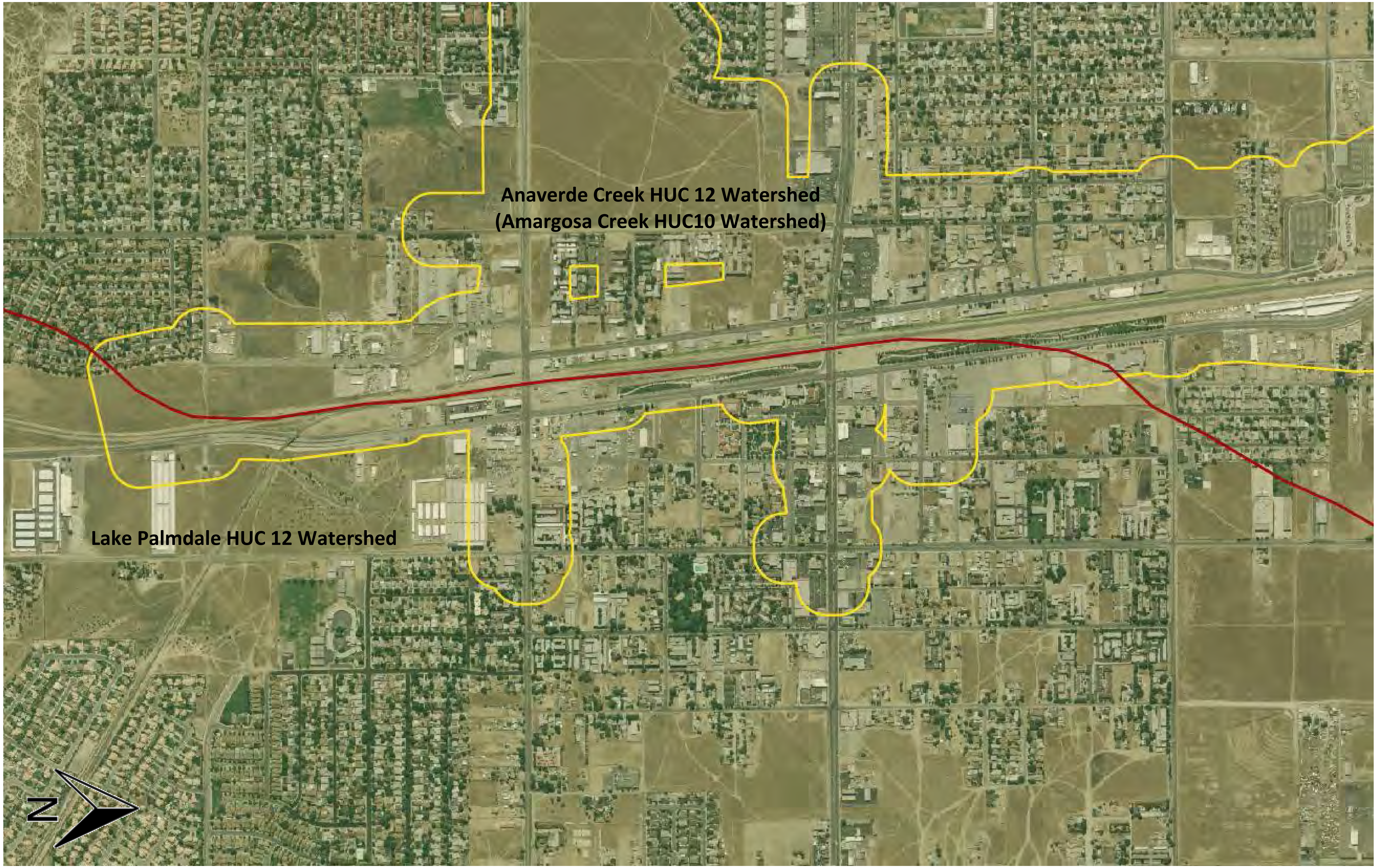
Antelope Valley Watershed (as described in SPL-2011-01084-SLP)

HUC-12 Watersheds excluded from SPL-2011-01084-SLP

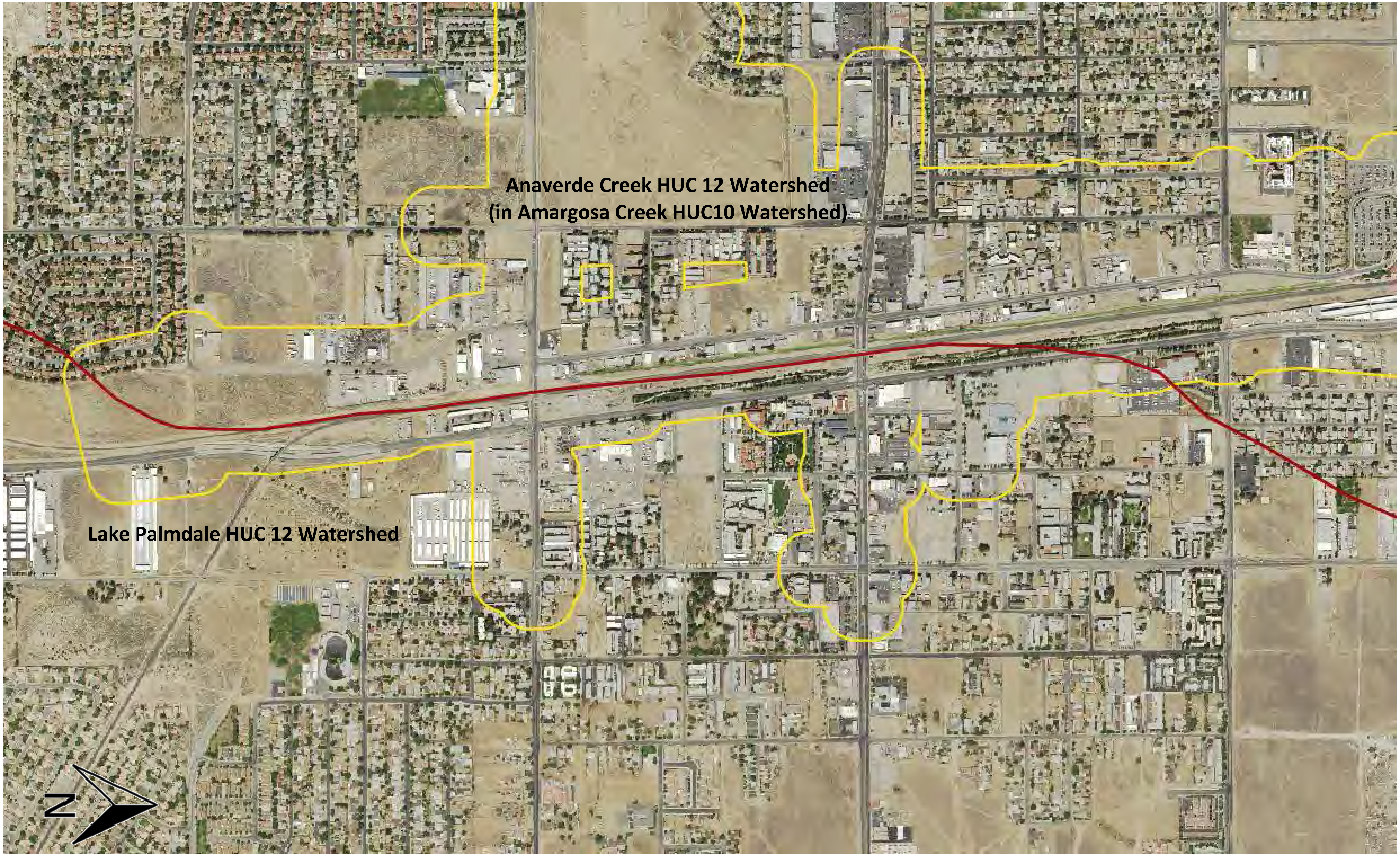
Wetlands Study Area (Project Footprint + 250 ft Buffer)

The U.S. Army Corps of Engineers issued a SWANCC watershed-level Approved Jurisdictional Determination for Antelope Valley (HUC 10 #s 1809020609 through 1809020624) on June 7, 2013. Note that this determination specifically excluded the areas of Lake Palmdale and all waters tributary to Lake Palmdale (portions of HUC 12 #s 180902061501, 180902061102, 180902061103). This figure illustrates the location of the study area relative to the previous watershed-level decision.

Lake Palmdale Watershed
Location Within Antelope Valley Watershed

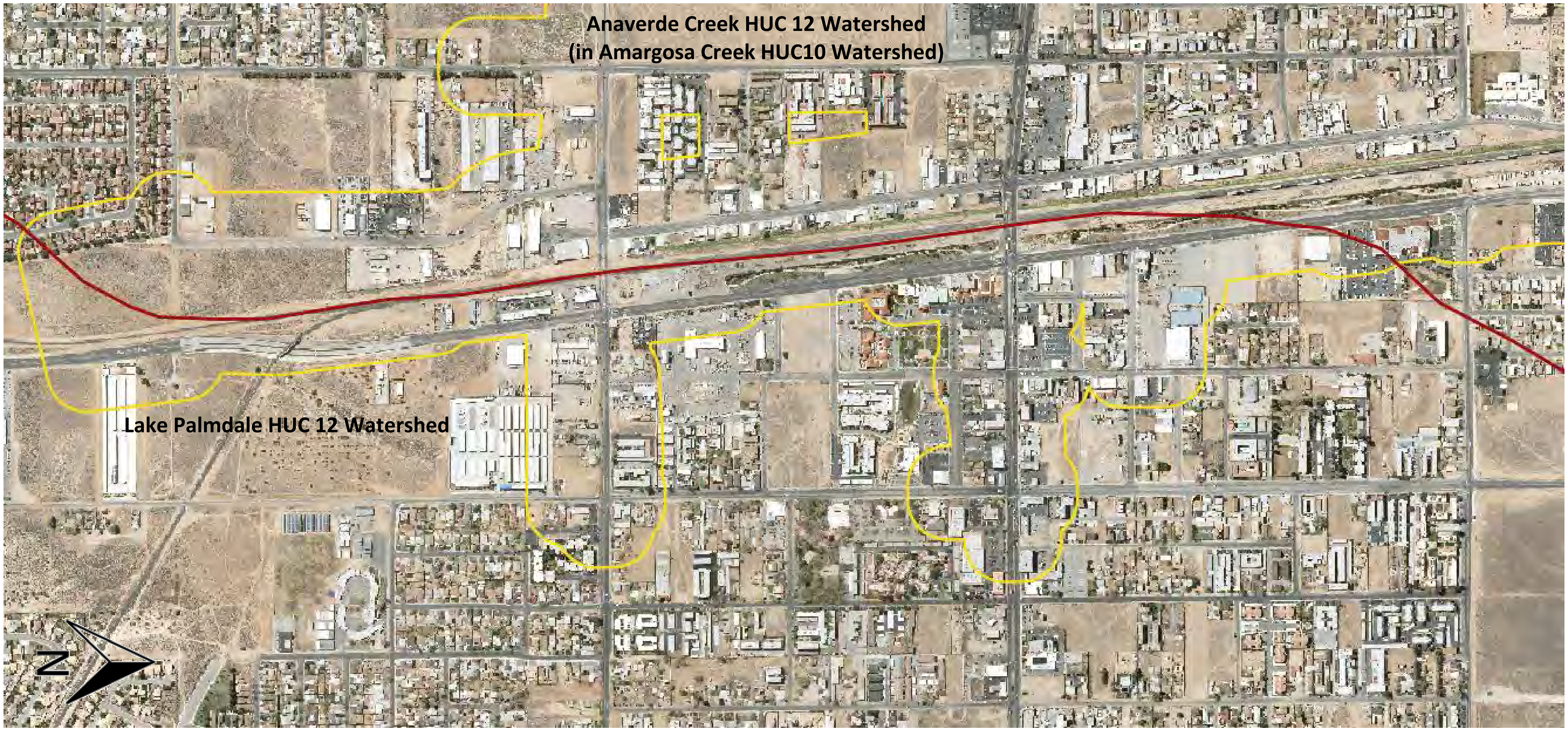


NAIP 2005 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.



NAIP 2014 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.

Los Angeles 2011 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.



Los Angeles 2013 Aerial Photo. Yellow Line – Study Area. Red Line – HUC 12 Watershed Boundaries.

USDA United States Department of Agriculture | Forest Service | Pacific Southwest Region | Regional Office, R5
1323 Club Drive
Vallejo, CA 94592
(707) 562-8737
TDD: (707) 562-9240

File Code: 2350
Date: February 16, 2021

Mr. Brett Rushing
Supervising Environmental Planner
California High-Speed Rail Authority
770 L Street, Suite 620
Sacramento, CA 95814

Dear Mr. Rushing:

Please find enclosed the signed letter of concurrence on the *de minimis* finding that the High Speed Rail Authority has made with respect to the Pacific Crest Trail for the Bakersfield to Palmdale Project Section.

If you have any questions please contact Togan Capozza, Acting Pacific Crest Trail Administrator at togan.capozza@usda.gov or (707) 656-6119.

Sincerely,

JAMES BACON
Director of Public Services

Enclosure: CHSRA BP 4f Concurrence PCT

cc: Brett.Rushing@hsr.ca.gov, togan.capozza@usda.gov, csymons@blm.gov

CALIFORNIA
High-Speed Rail Authority

Ms. Beth Boyst
United States Forest Service (USFS)
1323 Club Drive
Vallejo, CA 94592

Mr. Carl Symons
United States Department of the Interior, Bureau of Land Management (BLM)
Ridgecrest Field Office
300 S. Richmond Road
Ridgecrest, CA 93555

Subject: Request for Concurrence with Section 4(f) Determination

Dear Ms. Boyst and Mr. Symons,

In February 2020, the California High-Speed Rail Authority (Authority) released a Draft Environmental Impact Report/Environmental Impact Statement (EIR/EIS) for the Bakersfield to Palmdale Project Section of the California High-Speed Rail Program in accordance with the requirements set forth by the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA). The Draft EIR/EIS included engineering and environmental analysis and a summary of public, stakeholder, and agency involvement. The Draft EIR/EIS also detailed preliminary determinations for Section 4(f) resources, including the Pacific Crest Trail (PCT). The Authority has since prepared an Administrative Final EIR/EIS, which includes responses to comments received on the Draft EIR/EIS and updated Section 4(f) evaluations. The Administrative Final EIR/EIS was shared with BLM and USFS on November 10, 2020.

Section 4(f) of the United States Department of Transportation (USDOT) Act of 1966, as amended, and codified in 49 United States Code (USC) §303, declares that "it is the policy of the United States Government that special effort should be made to preserve the natural beauty of the countryside and public park and recreation lands, wildlife and waterfowl refuges and historic sites." The Authority is responsible for Section 4(f) compliance for the California High-Speed Rail Program as the lead federal agency pursuant to 23 U.S.C. 327 and the terms of the National Environmental Policy Act (NEPA) Assignment Memorandum of Agreement (Federal Railroad Administration [FRA] and State of California 2019) assigning to the Authority responsibility for compliance with NEPA and other federal environmental laws, including Section 4(f) (49 U.S.C. 303) and related U.S. Department of Transportation orders and guidance. In general, Section 4(f) specifies that the USDOT agencies may only approve a project that "uses" the resources mentioned above, if (1) there is no prudent and feasible alternative that completely avoids Section 4(f) resources and (2) the project includes all possible planning to minimize harm to those resources. In lieu of making these findings, the USDOT also can approve the use of a Section 4(f) resource if the USDOT determines that the project would have a "*de minimis*" impact on that resource and the official with jurisdiction over the resource concurs in that determination. For parks, recreation areas, and refuges, the official with jurisdiction is the agency (or agencies) that owns or administers the property.

The purpose of this letter is to request concurrence on the *de minimis* finding that the Authority has made with respect to PCT. This basis for this finding was originally detailed in the Draft EIR/EIS and has been subsequently revised in the Administrative Final EIR/EIS based on written and oral comments received on the Draft EIR/EIS. A summary of the Authority's *de minimis* determination is set forth below.

The Authority has determined that the PCT is a Section 4(f) resource, is within the resource study area of the Bakersfield to Palmdale Project Section, and that your agencies are the officials with jurisdiction with respect to this resource. Under the Preferred Alternative (Alternative 2 with the Refined CCNM Design Option), the HSR project would be immediately adjacent to and in an aerial alignment (1,500-foot-long viaduct) above the PCT, crossing the existing trail at three locations (see Figure 1). The proposed viaduct would require the installation of columns to support the viaduct structure, which would be outside the existing PCT trail alignment.

To minimize impacts to the trail, the Authority has worked with USFS, BLM, and the Pacific Crest Trail Association (PCTA) to develop a mitigation measure that would realign 2,110 linear feet of trail east of the proposed viaduct (see Figure 1). The trail realignment would reduce the number of trail crossings under the viaduct from three crossings (existing trail) to one crossing (realigned trail). The reduction in number of trail crossings and the trail relocation east of the HSR alignment would result in an improved trail for PCT users. Key viewpoints and visual simulations are shown in Figures 2 and 3. This proposed mitigation measure for the PCT realignment would represent a permanent change to the trail and would constitute a permanent use of land under Section 4(f). The Authority, in consultation with the USFS and BLM, would be required to obtain a new easement from the private property owner for the realigned segment of the PCT.

During the public review period for the Draft EIR/EIS, USFS, BLM, and PCTA submitted comments expressing concerns regarding the Authority's *de minimis* determination under Section 4(f). To address these comments, the Authority has conducted a more detailed evaluation of the project's impacts to the PCT relative to the provisions of the Section 4(f) statute and confirmed that the project's impact to the PCT would be a *de minimis* impact as defined under 49 USC 303(d). Additionally, in response to concerns about trail users having to cross under the existing Tehachapi Willow Springs Road in a 80-foot long 15-foot by 15-foot box culvert, the Authority has made several engineering refinements in the vicinity of the PCT. The Authority realigned Tehachapi Willow Springs Road to the west of the Preferred Alternative (including the section of existing Tehachapi Willow Springs Road that crosses Oak Creek), added a new connection from Tehachapi Willow Springs Road to the existing Oak Creek Road near the creek, and further refined the realignment of the PCT realign. .

The design refinements near the PCT eliminate project impacts to the parking area along Oak Creek Road (including removal of an oak tree). The refinements also increase safety for PCT users because they would no longer have to cross Tehachapi Willow Springs Road, which has a posted speed limit of 55 miles per hour. In addition, with the new design, the PCT will no longer need to go through a box culvert under the HSR viaduct. PCT users would now cross under the HSR viaduct (and the new Tehachapi Willow Springs Road bridge) in an open crossing adjacent to the creek with over 57 feet of vertical clearance which would improve the experience for the trail users as they cross under the HSR and Tehachapi Willow Springs Road viaducts.

In the Administrative Final EIR/EIS, the Authority has reaffirmed its *de minimis* determination that the features and attributes that qualify the PCT for protection under Section 4(f) would not be substantially impaired by the HSR project. During construction and operation of HSR project, the trail would still function as a public trail under the Preferred Alternative. There would be a direct permanent use of the PCT as a result of the trail realignment, the HSR project crossing the PCT once, and the maintenance easement. With the realignment, the trail would still be publicly accessible and impacts resulting from the trail realignment would be addressed by the compensatory mitigation identified in the EIR/EIS for potential impacts to the PCT.

Based on information set forth above, the Authority has determined that the project would not adversely affect or otherwise restrict the public's use of the PCT nor would it adversely affect the activities, features, or attributes that make the PCT eligible for Section 4(f) protection as a recreational resource. Therefore, the Authority has determined that the Preferred Alternative (Alternative 2 with the Refined CCNM Design Option) would result in a *de minimis* impact, as defined by 49 U.S.C. 303(d). The Authority seeks your concurrence in this determination. A concurrence clause is provided at the end of this letter for this purpose.

We respectfully request your reply to this matter by **January 29, 2021**. We look forward to continuing our successful working relationship with you as we work to deliver the nation’s first high-speed rail project, while still protecting important national resources such as the PCT.

Sincerely,

Brett Rushing
Supervising Environmental Planner
California High-Speed Rail Authority
Brett.Rushing@hsr.ca.gov

CONCURRENCE:

Based on the information set forth in this letter, and the planned offsite compensatory mitigation, the United States Forest Service and Bureau of Land Management concur with the California High-Speed Rail Authority's determination that the Bakersfield to Palmdale Project Section of the California High-Speed Rail Program would not adversely affect the activities, features, or attributes that make the Pacific Crest Trail eligible for Section 4(f) protection. Therefore, the United States Forest Service and Bureau of Land Management concur with the Authority's determination that the Bakersfield to Palmdale Project Section would have a *de minimis* impact on the Pacific Crest Trail in accordance with Section 4(f) of the United States Department of Transportation Act of 1966.

2/8/2021

____________________________ _____________

Jim Bacon, Director, Public Services — Date

United States Forest Service

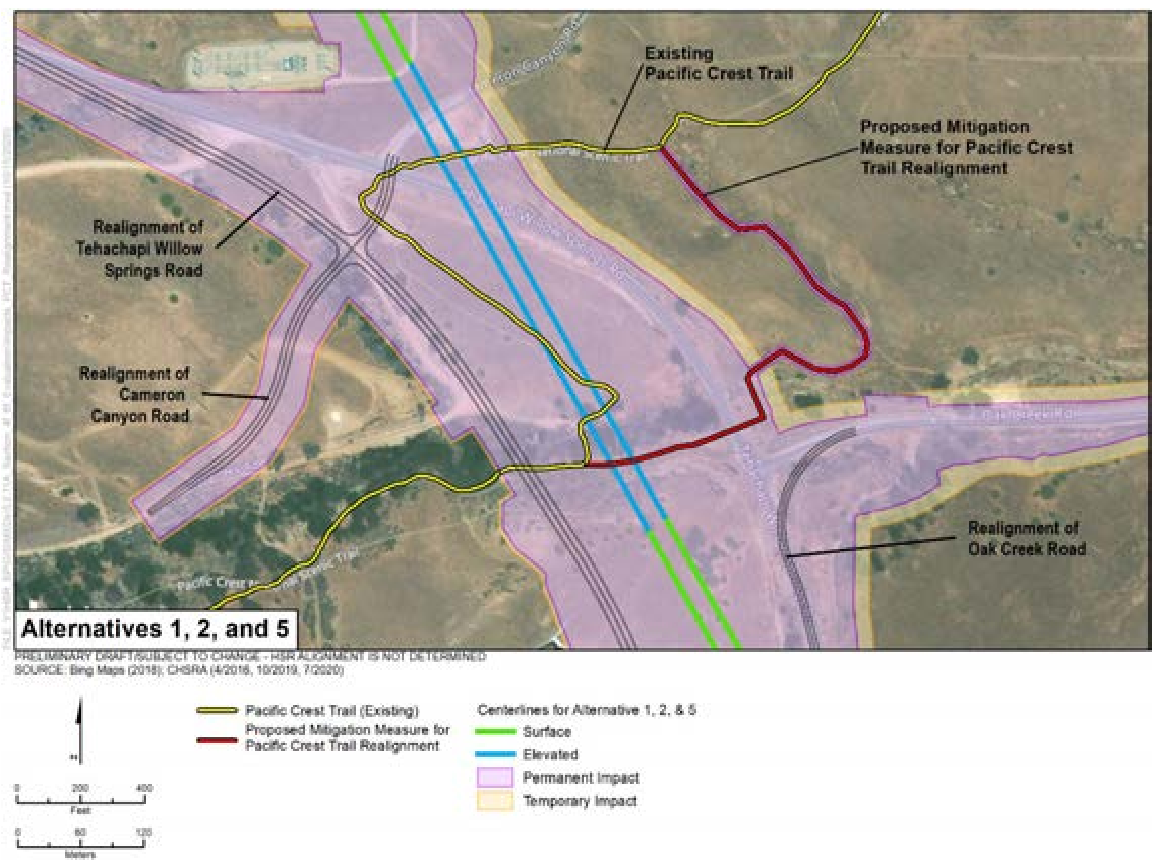


Figure 1 Overview of the HSR PCT Crossing

Figure 2 Key Viewpoint 18a: Existing and Simulated Views of Alternatives 1, 2, and 5 from the Pacific Crest Trail Looking West

Figure 3 Key Viewpoint 18b: Existing and Simulated Views of Alternatives 1, 2, and 5 from the Pacific Crest Trail Looking Southwest

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State of California • Natural Resources Agency
Gavin Newsom, *Governor*

DEPARTMENT OF PARKS AND RECREATION
OFFICE OF HISTORIC PRESERVATION
Lisa Ann L. Mangat, *Director*

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March 8, 2020

Reference Number: FRA_2016_0906_001

Submitted Via Electronic Mail

Brett Rushing
Cultural Resources Program Manager
California High-Speed Rail Authority
770 L Street, Suite 620
Sacramento, CA 95814

Re: High-Speed Rail Program, Bakersfield to Palmdale Section – Request for Review and Comment on Section 106 Addendum Finding of Effect Report

Dear Mr. Rushing:

The California State Historic Preservation Officer (SHPO) is in receipt of your February 25, 2021 submittal continuing consultation regarding the Bakersfield to Palmdale project section of the California High-Speed Rail Program. This consultation is undertaken in accordance with the 2011 *Programmatic Agreement Among the Federal Railroad Administration, the Advisory Council on Historic Preservation, the California State Historic Preservation Officer, and the California High-Speed Rail Authority (Authority) regarding Compliance with Section 106 of the National Historic Preservation Act, as it pertains to the California High-Speed Train Project* (PA). In support of this consultation, the Authority has prepared the following documents:

- *Bakersfield to Palmdale Project Section Addendum Finding of Effect Report* (January 2021: JRP Historical Consulting and LSA Associates)

The Section 106 Addendum Finding of Effect Report (Addendum FOE) is an addendum to the *Bakersfield to Palmdale Section: Section 106 Finding of Effect Report* (Authority 2020) The specific purpose of the Addendum FOE is to assess and report adverse effects on historic properties caused by various engineering refinements ("VERs APE Memorandum") of the Bakersfield to Palmdale Project Section Preferred Alternative. Because these engineering refinements were not analyzed in the original FOE or the Bakersfield to Palmdale Project Section Draft Environmental Impact Report/Environmental Impact Statement (EIR/EIS), which was publicly circulated from February 28, 2020 to April 27, 2020, the Authority prepared the Addendum FOE.

This Addendum FOE presents the effect conclusions for three new built environment historic properties (i.e. 332 W. Lancaster Blvd., 44847 Trevor Ave., and the Cedar Ave Historic District) and two new archaeological sites (i.e. P-15-001042 and P-15-016253) identified in the VERs APE Memorandum and presents the effect conclusions for historic properties previously analyzed in the April 2020 FOE where the VERs APE Memorandum has revised the APE.

As of September 24, 2020, the built environment survey has been 100 percent completed for the properties identified by the VERs APE Memorandum. In sum, there are seven built-environment historic properties analyzed in this Addendum FOE. Three of the properties are newly identified and the remaining 4 were previously evaluated for project effects.

The enclosed addendum FOE assesses seven historic properties within the APE that have the potential to be affected by the proposed Bakersfield to Palmdale Project Section VERs. This addendum FOE follows the guidelines for documentation as required in the PA and 36 C.F.R. § 800.11 and analyzes anticipated effects on seven built-environment historic properties:

- Big Creek Hydroelectric System Historic District
- First Los Angeles Aqueduct
- Lancaster Post Office
- Western Hotel, Lancaster, Kern County
- Residence at 332 W. Lancaster Boulevard, Lancaster, Kern County
- Residence at 44847 Trevor Avenue, Lancaster, Kern County
- Cedar Avenue Historic District, Lancaster, Kern County

The addendum FOE concluded that the Big Creek Hydroelectric System Historic District will be adversely affected. The First Los Angeles Aqueduct, Lancaster Post Office, Western Hotel, 332 W. Lancaster Boulevard, 44847 Trevor Avenue, and the Cedar Avenue Historic District will not be adversely affected. These findings represent no change to the April 2020 FOE as the Authority had previously determined that the project would adversely effect the Big Creek Hydroelectric System and resolution of those effects would be included in the Memorandum of Agreement.

The Addendum FOE also presents the effect conclusions for 2 new archaeological sites, identified in the VERs APE Memorandum as P-15-001042/CA-Ker-1042 (prehistoric site), and P-15-016253/CA-KER-8486H (historic site). These two sites were previously identified by others, records for which are on file at the Southern San Joaquin Valley Information Center. These archaeological resources are currently unevaluated and presumed NRHP-eligible for planning purposes. As stipulated in the Section 106 PA (Stipulations VI.E and VIII.A.1), phased identification will be necessary as property access is granted, and additional archaeological resources may be identified during future phased identification and evaluation efforts.

In sum, there are now 42 archaeological historic properties in the Bakersfield to Palmdale Project Section APE. The effect conclusions for 40 of the archaeological historic properties would not change from what was previously described in the April 2020 FOE. 4(f) of the United States Department of Transportation Act of 1966 requires consultation with the SHPO, the official with jurisdiction over historic properties, as stipulated in 23 CFR § 774.17. The Authority is consequently notifying the SHPO of its intent to make a de minimis impact determination for Residence at 332 W. Lancaster Boulevard in accordance with 23 CFR § 774.5.

For historic properties, a de minimis impact determination under Section 4(f) is based on findings made in the Section 106 consultation process and can be made if the project will have no adverse effect on the historic property. The Authority has determined that 332 W. Lancaster Blvd will not be adversely affected and, therefore, will incur a de minimis use under Section 4(f). By concurring with the Authority's finding of no adverse effect under Section 106, the SHPO also concurs with this 4(f) determination.

Having reviewed your submittal, SHPO concurs with the Authority's Finding of Effect. Furthermore, SHPO also concurs with the Authority's 4(f) determination.

If you have any questions, please contact State Historian Tristan Tozer at (916) 445-7027 or Tristan.Tozer@parks.ca.gov.

Sincerely,

Julianne Polanco
State Historic Preservation Officer

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