AQUATIC RESOURCES DELINEATION REPORT (STATE AND FEDERAL AGENCIES)

GORMAN-KERN RIVER 66 KV SUBTRANSMISSION LINE PROJECT

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Acronyms and Abbreviations

CDFW	California Department of Fish and Wildlife
CFR	Code of Federal Regulations
CWA	Clean Water Act
EPA	U.S. Environmental Protection Agency
FAC	facultative
FACW	facultative wetland
FEMA	Federal Emergency Management Agency
HUC	hydrologic unit code
I-	Interstate
kV	kilovolt
NHD	National Hydrography Dataset
NWI	National Wetlands Inventory
OHWM	ordinary high-water mark
Porter-Cologne Act	Porter-Cologne Water Quality Control Act
proposed project	Gorman-Kern River 66 kV Subtransmission Line Project
RHA	Rivers and Harbors Act
RWQCB	Regional Water Quality Control Board
SCE	Southern California Edison
SDAM	Stream Duration Assessment Method
SWRCB	State Water Resources Control Board
UPL	upland
USACE	U.S. Army Corps of Engineers
WoS	waters of the State
WoUS	waters of the United States

In December 2023 and January 2024, ICF conducted a delineation of jurisdictional waters and wetlands for the Gorman-Kern River 66-kilovolt Subtransmission Line Project (proposed project). The proposed project had been previously delineated by Arcadis U.S., Inc. in October 2021; however, this survey was over 5 years old and did not evaluate the full study area needed for the proposed project, and soil pit data were not collected to confirm wetland boundaries. Therefore, this report includes the re-verification of all non-wetland waters and re-evaluation of all potential wetland waters within the study area.

The purpose of this delineation is to identify the extent of potentially jurisdictional wetland and non-wetland waters of the U.S. (WoUS) and waters of the State (WoS) ("aquatic resources") within and adjacent to the project site to support federal and state regulatory permitting processes. The proposed project limits of disturbance and construction yards plus a 100-foot-radius buffer from the subtransmission line structures and 40-foot-wide access roads are collectively referred to as the "study area." Relevant jurisdictions include federal jurisdiction regulated by the U.S. Environmental Protection Agency and U.S. Army Corps of Engineers (USACE) as WoUS under Section 404 of the Clean Water Act (CWA), state jurisdiction regulated by the State Water Resources Control Board (SWRCB)/Regional Water Quality Control Board (RWQCB) as WoS under Section 401 of the CWA, SWRCB/RWQCB surface WoUS regulated under Section 13260 of the Porter-Cologne Water Quality Act, and California Department of Fish and Wildlife (CDFW) aquatic resources regulated under Section 1600 of the California Fish and Game Code. It is assumed that the applicant is seeking a Preliminary Jurisdictional Determination from USACE for features preliminarily determined to meet the revised definition of WoUS from the Conforming Rule (33 Code of Federal Regulations 328.3(a)(1)–(5)).

Based on the investigation and analysis documented in this report, potential CWA Section 404/401 aquatic resources within the study area are determined to be 9.541 acres (32,105 linear feet) of non-wetland WoUS and 1.718 acres (870 linear feet) of wetland WoUS subject to regulation by USACE and RWQCB. Additionally, approximately 20.152 acres (36,031 linear feet) of streambed and 0.822 acre (1,361 linear feet) of associated riparian vegetation subject to CDFW jurisdiction were mapped within the study area.

All figures are included as Appendix A. Site photographs are included as Appendix B. Ordinary high water mark data sheets, wetland determination forms, and Stream Duration Assessment Method forms are included as Appendices C, D, and E, respectively. Results calculations for each feature are included as Appendix F.

In December 2023 and January 2024, ICF conducted a routine-level aquatic resource delineation of potential non-wetland waters and wetlands for the Gorman-Kern River 66-kilovolt (kV) Subtransmission Line Project (proposed project) as part of the federal and state regulatory permitting process for Southern California Edison (SCE) in the cities of Bakersfield and Arvin and unincorporated areas in Kern and Los Angeles Counties, California (Appendix A, Figure 1). The study area comprises the proposed project limits of disturbance and construction yards plus a 100-foot-radius buffer from the subtransmission line structures and 40-foot-wide access roads. The limits of disturbance consist of the alignment, access roads, and proposed construction yards.

The purpose of this delineation is to identify the extent of potentially jurisdictional federal and state aquatic resources within and adjacent to the project site to support federal and state regulatory permitting processes pursuant to Sections 401 and 404 of the Clean Water Act (CWA) (33 U.S. Code 1251 et seq. [1972]) as well as Section 13260 of the Porter-Cologne Water Quality Control Act (Porter-Cologne Act), Section 1600 et seq. of the California Fish and Game Code. Section 404 of the CWA is administered by the U.S. Army Corps of Engineers (USACE) with oversight from the U.S. Environmental Protection Agency (EPA) and regulates the discharge of dredged or fill material within waters of the United States (WoUS), including wetland and non-wetland WoUS. Section 401 of the CWA is administered by the State Water Resources Control Board (SWRCB)/Regional Water Ouality Control Board (RWOCB) and regulates at the state level all Section 404 activities that are regulated by USACE. The SWRCB/RWQCB may also regulate activities affecting non-federal wetland and non-wetland waters of the State (WoS) (e.g., surface waters, ephemeral features, isolated features) under the Porter-Cologne Act. Section 1600 et seq. of the California Fish and Game Code is administered by the California Department of Fish and Wildlife (CDFW) and regulates activities that may affect lakes, streams with a defined bed and bank, and/or associated riparian vegetation. If a proposed project has the potential to affect waters, wetlands, lakes, streams, and associated riparian vegetation, then the project site must be evaluated to determine the presence, type, and extent of aquatic resources. Details regarding each of these agencies, their regulatory authority, jurisdiction, permitting, and delineation methodologies are provided in Chapter 2, Regulatory Background and Methodology by Agency.

It is assumed that the applicant is seeking a Preliminary Jurisdictional Determination from USACE for features preliminarily determined to meet the revised definition of WoUS from the Conforming Rule (33 Code of Federal Regulations [CFR] 328.3(a)(1)–(5)) during the permit application process. All features preliminarily determined to not meet the revised WoUS definition have been categorized as SWRCB/RWQCB Porter-Cologne Act WoS.

The information and results presented herein document the investigation, best professional judgment, and conclusions of ICF. It is correct and complete to the best of our knowledge. However, all Jurisdictional Determinations should be considered preliminary until reviewed and approved by the regulatory agencies.

1.1 Project Description

The proposed project extends from the northern Kern River 1 Hydroelectric Substation located along California State Route 178 in the Kern River Canyon to the southern Gorman Substation. The proposed project also extends east to the Banducci Substation, southwest of the city of Tehachapi. The total length of the subtransmission line within the study area is approximately 66 miles.

The proposed project is split into five segments. Segment 1 is approximately 20.4 miles from the Kern River 1 Hydroelectric Substation to Structure M20-T3 and supports portions of the Gorman-Kern River and Banducci-Kern River 66 kV Subtransmission Lines. Segment 2 is approximately 26.5 miles from Structure M20-T3 to Structure M46-T6 and supports portions of the Gorman-Kern River 66 kV Subtransmission Line. Segment 3 is approximately 4.1 miles from Structure M46-T6 to the Gorman Substation and supports portions of the Gorman-Kern River and Frazier Park-Gorman 66 kV Subtransmission Lines. Segment 4 is approximately 11.3 miles from Structure M20-T3 to Structure M11-T3 and supports portions of the Banducci-Kern River 66 kV Subtransmission Line. Segment 5 is approximately 3 miles from Pole X7666E to the Banducci Substation and supports portions of the Banducci Substation Substation circuitry and telecommunicati

1.2 Project Location

The proposed project is primarily in Kern County within the cities of Bakersfield and Arvin and unincorporated areas. The southern terminus is in northern Los Angeles County. The northern end coordinates for the proposed project are 35.460333°N, -118.779528°W. The southern end coordinates for the proposed project are 34.790866°N, -118.827750°W. The eastern end coordinates for the proposed project are 35.101212°N, -118.601425°W (Appendix A, Figure 1). The proposed project is on the following U.S. Geological Survey 7.5-minute quadrangles: Rio Bravo Ranch, Edison, Arvin, Tejon Hills, Pastoria Creek, Grapevine, Frazier Mountain, Lebec, Bear Mountain, Tejon Ranch, and Cummings Mountain (Appendix A, Figure 2).

2.1 Desktop Research

Prior to the field delineation, all features previously mapped by another firm for the proposed project were identified for field verification of their presence, absence, or any changes to the features. Additionally, the study area was carefully reviewed in Google Earth (Google Earth 2024) in various scales and timeframes to determine if any new potentially jurisdictional features should be reviewed or if any previously identified features should be revisited and modified. It was determined that all potential wetland waters required field investigations and select non-wetland waters required re-evaluation throughout the study area.

The following resources were also reviewed to identify potential aquatic resources in the study area:

- Aerial imagery for various dates between 2017 and 2023 (Google Earth 2024)
- U.S. Geological Survey 7.5-minute Rio Bravo Ranch, Edison, Arvin, Tejon Hills, Pastoria Creek, Grapevine, Frazier Mountain, Lebec, Bear Mountain, Tejon Ranch, and Cummings Mountain topographic quadrangle maps (USGS 2021) (Appendix A, Figure 2)
- Watershed maps available from the National Hydrography Dataset (NHD) (USGS 2022) (Appendix A, Figure 3)
- Federal Emergency Management Agency (FEMA) 100-year floodplain maps (FEMA 2022) (Appendix A, Figure 4)
- NHD and U.S. Fish and Wildlife Service National Wetlands Inventory (NWI) (USFWS 2021) data for the study area (Appendix A, Figure 4)
- U.S. Department of Agriculture, Natural Resources Conservation Service Soil Survey Geographic database (USDA/NRCS 2006) for the study area (Appendix A, Figure 5)

The above resources were used to identify approximate locations of potential aquatic resources subject to regulation by USACE, SWRCB/RWQCB, and CDFW within the study area and create focused areas for the field investigations. Figure 4 depicts NHD and NWI aquatic resources as well as the FEMA flood hazards in the vicinity of the study area.

In addition to the regionally available data (e.g., NWI, NHD, FEMA) ,the approximate location and extent of potential aquatic resources were identified on field maps based on changes in vegetation type and cover, topographic changes, and visible drainage patterns.

Portions of the study area were not accessible at the time of the surveys. This included the proposed construction yards and the access roads within the Tehachapi Mountains (eastern segment of the proposed project; Figures 6 and 7, Sheets 14–16). For these areas, potential aquatic resources were mapped via a thorough desktop review that included use of the resources above, as well as a review of historic aerials and topographic maps to identify any flow indicators or signatures that could occur in these areas.

2.2 Field Investigation and Mapping

ICF conducted the jurisdictional waters and wetland delineation for the study area in December 2023 and January 2024. Delineators conducted site visits from December 5 to December 8, 2023, to confirm existing conditions. ICF revisited sites on January 16, 2024, that were not able to be accessed in December. Table 1 shows the date, delineator(s), and purpose of each site visit.

Date	Delineators	Purpose
December 5, 2023	Sara Galindo, Kristen Klinefelter, Alix Fowler, Sarah Gulyas	Jurisdictional Delineation
December 6, 2023	Sara Galindo, Kristen Klinefelter, Alix Fowler, Sarah Gulyas	Jurisdictional Delineation
December 7, 2023	Sara Galindo, Kristen Klinefelter, Alix Fowler, Sarah Gulyas	Jurisdictional Delineation
December 8, 2023	Sara Galindo, Kristen Klinefelter, Alix Fowler, Sarah Gulyas	Jurisdictional Delineation
January 16, 2024	Kristen Klinefelter, Nicole Argueta	Jurisdictional Delineation

Table 1. Jurisdictional Delineation Field Dates

The field investigation was conducted in December 2023 and January 2024 within the study area, which is defined as the proposed project limits of disturbance and construction yards plus a 100-foot-radius buffer from the subtransmission line structures and 40-foot-wide access roads. The 100-foot-radius buffer around the subtransmission line structures was selected as an appropriate buffer considering the project scope, adjacent land use, and potential aquatic resources that may be affected by the proposed project.

During the field efforts, the study area was surveyed on foot where access was possible, and jurisdictional limits were recorded using ArcMap Collector on an iPad unit with an external global positioning system receiver providing sub-meter accuracy. If no access was possible, then jurisdictional features were delineated based on visual estimates and aerial photographs and then digitized in a geographic information system. Common plant species observed were identified by visual characteristics and morphology in the field. Taxonomic nomenclature for plants follows the *Jepson Manual: Vascular Plants of California*, 2nd edition (Baldwin et al. 2012) and the Arid West 2020 Regional Wetland Plant List (USACE 2022).

The December 2023 site visits were conducted for 17 to 20 days following a storm event that resulted in 0.01 inch of rain on November 18, 2023, and the January 2024 site visit was conducted 5 days following a storm event that resulted in 0.06 inch of rain on January 11, 2024, as recorded at the Bakersfield Airport, California monitoring station (National Weather Service 2024). Representative photos for features within the study area were taken to depict existing conditions (Appendix B).

The below subsections provide the regulatory background and aquatic resource delineation methods used per agency.

2.2.1 U.S. Army Corps of Engineers

USACE regulates activities proposed within navigable waters under Section 10 of the Rivers and Harbors Act (RHA) and WoUS under CWA Section 404. RHA Section 10 regulates work, structures,

obstructions, or alterations occurring within navigable WoUS, which is defined as those waters subject to the ebb and flow of the tide shoreward to the mean high-water mark and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. The proposed project site does not support tidal waters; therefore, RHA Section 10 is not discussed further.

The regulation defining the extent of WoUS has changed a number of times since enactment of the CWA. On January 18, 2023, EPA and USACE published the final rule with a revised definition of WoUS in the *Federal Register* (doc. 2022-28595), which became effective March 20, 2023. This rule replaced the pre-2015 definition of WoUS, which was recently in effect, starting on September 2, 2021.

On May 25, 2023, the U.S. Supreme Court decided *Sackett v. Environmental Protection Agency*, which considered the jurisdictional extent of WoUS. On August 29, 2023, the agencies issued a final rule to conform the definition of "waters of the United States" to the U.S. Supreme Court's May 25, 2023, decision in the case of *Sackett v. Environmental Protection Agency*. This definition established the scope of USACE and EPA authority under the CWA. The conforming rule, *Revised Definition of "Waters of the United States"; Conforming* (33 CFR 328.3(a)(1)–(5); USACE/EPA 2023), became effective September 8, 2023, and states the following.

- a) *Waters of the United States* means:
 - 1) Waters which are:
 - i) Currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
 - ii) The territorial seas; or
 - iii) Interstate waters;
 - Impoundments of waters otherwise defined as waters of the United States under this definition, other than impoundments of waters identified under paragraph (a)(5) of this section;
 - 3) Tributaries of waters identified in paragraph (a)(1) or (2) of this section that are relatively permanent, standing or continuously flowing bodies of water;
 - 4) Wetlands adjacent to the following waters:
 - i) Waters identified in paragraph (a)(1) of this section; or
 - ii) Relatively permanent, standing or continuously flowing bodies of water identified in paragraph (a)(2) or (a)(3) of this section and with a continuous surface connection to those waters;
 - 5) Intrastate lakes and ponds not identified in paragraphs (a)(1) through (4) of this section that are relatively permanent, standing or continuously flowing bodies of water with a continuous surface connection to the waters identified in paragraph (a)(1) or (a)(3) of this section.

The categories of exclusions, or non-jurisdictional aquatic features, are listed in paragraph (b) of the new rule. Under this rule, where a feature satisfies the terms of an exclusion, it is excluded from jurisdiction even where the feature would otherwise be jurisdictional under paragraphs (a)(2)

through (5) of this rule. Paragraph (a)(1) waters are not subject to the exclusions. The exclusions, or non-jurisdictional waters, include:

- (1) Waste treatment systems, including treatment ponds or lagoons, designed to meet the requirements of the Clean Water Act;
- (2) Prior converted cropland designated by the Secretary of Agriculture. The exclusion would cease upon a change of use, which means that the area is no longer available for the production of agricultural commodities. Notwithstanding the determination of an area's status as prior converted cropland by any other Federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with EPA;
- (3) Ditches (including roadside ditches) excavated wholly in and draining only dry land and that do not carry a relatively permanent flow of water;
- (4) Artificially irrigated areas that would revert to dry land if the irrigation ceased;
- (5) Artificial lakes or ponds created by excavating or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing;
- (6) Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating or diking dry land to retain water for primarily aesthetic reasons;
- (7) Waterfilled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of [WoUS]; and
 - Swales and erosional features (e.g., gullies, small washes) characterized by low volume, infrequent, or short duration flow.

Wetlands are defined in 33 CFR 328.3(c)(1) as follows.

• The term "wetlands" means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

Adjacent is defined in 33 CFR 328.3(c)(2) as follows.

• The term "adjacent" means having a continuous surface connection.

The study area was analyzed for potential non-wetland and wetland WoUS using the following methodologies and guidance.

2.2.1.1 Delineation Methods for Clean Water Act Section 404 (Non-Tidal) Nonwetland Waters of the United States

Ordinary High Water Mark

Aquatic resources with a defined ordinary high-water mark (OHWM) would be considered potential non-wetland WoUS. USACE regulations at 33 CFR 328.3(c)(7) define OHWM as "the line on the shore established by the fluctuation of water and indicated by physical characteristics such as a clean natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the

characteristics of the surrounding areas" (88 *Federal Register* 3004–3144., January 18, 2022). The lateral limits of non-wetland WoUS were mapped using guidance provided in *Ordinary High Water Flows and the Stage-Discharge Relationship in the Arid West Region* (USACE 2011), *A Field Guide to the Identification of the Ordinary High Water Mark in the Arid West Region of the Western United States: A Determination Manual* (USACE 2008a), and Regulatory Guidance Letter 05-05 (USACE 2005).

ICF completed the 2010 Arid West Ephemeral and Intermittent Streams OHWM Datasheets for five representative non-wetland water features within the study area. Completed OHWM Datasheets are provided in Appendix C and the location of each OHWM sample point is depicted on Figure 6 (Appendix A). The OHWM Datasheet was completed following guidance provided in the *Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE 2010). Common indicators of OHWM include changes in average sediment texture, break in slope, changes in vegetation species, and/or changes in vegetation cover.

Streamflow Duration Assessment Method

In addition to evaluating non-wetland conditions and delineating the lateral extent of potential nonwetland waters, ICF staff assessed streamflow duration following the Beta Arid West Streamflow Duration Assessment Method (SDAM) (Mazor et al. 2021). The purpose of the streamflow duration assessment is to determine whether the observed non-wetland waters support ephemeral or more persistent hydrology (e.g., intermittent, perennial).

The streamflow duration methodology evaluates field indicators related to vegetation, soil, aquatic invertebrates, algae, fish, surface water or saturation, channel structure, and several other indicators to determine the streamflow duration. The assessment is completed in the field using visual indicators over a period of one day. Long-duration measurements or monitoring, such as stream flow gauges, rain stations, or similar are not employed at the assessment area, although if available for the assessment area they can be used to help inform the field results.

ICF completed streamflow duration assessments on four representative non-wetland water features within the study area. These assessments were used as a guide in determining flow regimes (ephemeral or intermittent) for all other non-wetland water features across the study area. Assessments were completed on December 7 and 8, 2023, and weather consisted of clear to partly cloudy skies and temperatures in the low-/mid-60 degrees Fahrenheit. No significant rainfall occurred within 48 hours preceding the field evaluations for either survey date.

2.2.1.2 Delineation Methods for Clean Water Act Section 404 (Non-Tidal) Wetland Waters of the United States

Section 404 wetland WoUS consist of areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Normally, three criteria (parameters) must be satisfied to classify an area as a wetland: (1) a predominance of plant life that is adapted to life in wet conditions (hydrophytic vegetation); (2) soils that saturate, flood, or pond long enough during the growing season to develop anaerobic conditions in the upper part (hydric soils); and (3) permanent or periodic inundation or soils saturation, at least seasonally (wetland hydrology).

In areas that exhibited evidence of wetland hydrology and/or hydrophytic vegetation, wetland soil pits were established to examine soil color and texture and determine the wetland boundary. A paired-pit technique (i.e., one sample point with wetland results paired with one sample point with non-wetland results) was used to identify the wetland boundary. The wetland delineation was conducted pursuant to the 1987 *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory 1987) and the 2008 *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE 2008b). *Field Indicators of Hydric Soils in the United States, Version 8.2.* (USDA/NRCS 2018) was used to identify hydric soil, vascular plants were identified using *The Jepson Manual: Vascular Plants of California* (Baldwin et al. 2012), and nomenclature and associated wetland ratings follow the National Wetland Plant List (USACE 2022). Wetland determination forms are provided in Appendix D.

- *Hydrophytic Vegetation*: Present when the plant community is dominated by species that can tolerate prolonged inundation or soil saturation during the growing season (USACE 2008b). The following definitions are used by USACE to define a plant's likelihood of tolerating prolonged inundation or soil saturation during the growing season (Lichvar et al. 2012).
 - o Obligate (OBL): Almost always occurs in wetlands
 - *Facultative Wetland* (FACW): Usually occurs in wetlands, but may occur in non-wetlands
 - Facultative (FAC): Occurs in wetlands and non-wetlands
 - *Facultative Upland* (FACU): Usually occurs in non-wetlands, but may occur in wetlands
 - Upland (UPL): Almost never occurs in wetlands

Based on guidance from USACE Los Angeles District staff over the last several years, aquatic resources meeting the 3-parameter wetland definition that are physically located between the lateral limits of the OHWM are to be classified as "non-wetland WoUS with wetland characteristics."

2.2.2 State Water Resources Control Board/Regional Water Quality Control Board

In California, the SWRCB and nine RWQCBs regulate activities within WoUS under Section 401 of the CWA and within WoS under the Porter-Cologne Act. The SWRCB defines WoS broadly to include "any surface water or groundwater, including saline waters, within the boundaries of the state."

2.2.2.1 Delineation Methods for Clean Water Act Section 401 Non-wetland Waters of the United States and Porter-Cologne Non-wetland Waters of the State

The SWRCB and RWQCBs do not have regulations or guidance for defining the extent of non-wetland WoUS or WoS. Therefore, the lateral limits of potential non-wetland WoUS and WoS were identified and delineated using the same methods for determining OHWM, per USACE, as described above in Section 2.2.1, *U.S. Army Corps of Engineers*, because they have generally been considered coincident.

2.2.2.2 Delineation Methods for Clean Water Act Section 401 Wetland Waters of the United States and Porter-Cologne Wetland Waters of the State

On April 2, 2019, the SWRCB adopted the *State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State* (SWRCB 2019). The procedures became effective on May 28, 2020, and define wetland WoS as follows:

An area is a wetland if, under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation.

The procedures provide that RWQCBs will rely on a wetland delineation from a final aquatic resources delineation report, as verified by USACE, to determine the extent of wetland WoUS and WoS. If any potential wetland areas have not been delineated in a final aquatic resources delineation report verified by USACE, then the limits of such potential wetland WoS will be identified using the same wetland delineation methods described in Section 2.2.1, *U.S. Army Corps of Engineers*, except that a lack of vegetation (i.e., less than 5 percent areal coverage of plants during the peak of the growing season) does not preclude an area from meeting the definition of a wetland when hydric soils and wetland hydrology are present (SWRCB 2019).

2.2.3 California Department of Fish and Wildlife Jurisdiction

Pursuant to Sections 1600 et seq. of the California Fish and Game Code, CDFW regulates any activity that would substantially divert or obstruct the natural flow—or substantially change or use any material from the bed, channel, or bank—of any river, stream, or lake. CDFW jurisdiction relies on the presence of a lake and/or streambed and associated riparian or wetland habitat. CDFW regulation under California Fish and Game Code Section 1602 requires that all lakes and streams on a project site are identified in order to assess the proposed activity's potential impacts on these aquatic resources.

2.2.3.1 Delineation Methods for California Fish and Game Code Section 1600: Lakes, Streambeds, and Associated Riparian and/or Wetland Habitat

CDFW defines *lakes* as "natural lakes or man-made reservoirs" (14 California Code of Regulations 1.56). With respect to streams, it has been the practice of CDFW to define a *stream* as "a body of water that flows perennially or episodically and that is defined by the area in which water currently flows, or has flowed, over a given course during the historic hydrologic course regime, and where the width of its course can reasonably be identified by physical or biological indicators" (Brady and Vyverberg 2013). The historical hydrologic regime is defined as circa 1800 to the present. In addition, streams include "watercourses having a surface or subsurface flow that supports riparian vegetation" (14 California Code of Regulations 1.72). *Riparian habitat* refers to vegetation and habitat associated with a stream. CDFW-jurisdictional habitat includes all riparian shrub or tree canopy that may extend beyond the banks of a stream. Isolated riparian habitat (i.e., where riparian vegetation does not appear associated with a stream channel) is not considered CDFW jurisdictional.

Historical court cases have further extended CDFW jurisdiction to include watercourses that seemingly disappear but re-emerge elsewhere. Under the CDFW definition, a watercourse need not exhibit evidence of an OHWM to be claimed as jurisdictional. Water features such as vernal pools and other seasonal swales—where the defined bed and bank are absent and the feature is not

contiguous or closely adjacent to other jurisdictional features—are generally not asserted to fall within CDFW jurisdiction under Section 1600. CDFW generally does not assert jurisdiction over human-made water bodies unless they are located where such natural features were previously located or where they are contiguous with existing or prior natural jurisdictional areas.

Based on the above, potential CDFW-jurisdictional aquatic resources delineated included lakes and/or streambeds and their associated riparian and wetland habitats. Staff delineated the lateral extent of potential CDFW jurisdiction to be "bank to bank" for a streambed or to the "dripline" of riparian habitat and/or wetland boundary, if present.

The study area consists of the proposed project limits of disturbance and construction yards plus a 100-foot-radius buffer from the subtransmission line structures and 40-foot-wide access roads. The following sections describe the topography, land use, hydrology, and soils associated with the study area.

3.1 Topography

The proposed project is in the San Joaquin Valley and Grapevine Canyon between several mountain ranges. The northern end of the subtransmission line at the Kern River 1 Hydroelectric Substation lies adjacent to the Kern River in the southern Sierra Nevada Mountain Range. The alignment passes south through the San Joaquin Valley before creating a fork, continuing south and east. The southern end travels through the Grapevine Canyon in between the Tehachapi Mountains to the east and Tecuya and Frazier Mountains to the west. The Tehachapi Mountains link the Sierra Nevada Mountain Range with the Transverse Ranges and separate the San Joaquin Valley to the west from the Mojave Desert to the east. The west-east segment of the proposed project alignment extends east through the Tehachapi Mountains and ends at the Banducci Substation in Stallion Springs. Elevation in the proposed project area ranges from approximately 600 to 5,000 feet above mean sea level.

3.2 Land Use

The proposed project traverses 66 miles of land predominantly used for agriculture. The northern, southern, and eastern ends of the proposed project are at SCE hydroelectric substations. The subtransmission line travels for approximately 7 miles south of the Kern River 1 Hydroelectric Substation through undeveloped grasslands in the southern Sierra Nevada Mountain Range. From here, it continues south for approximately 30 miles through agricultural land in and around the city of Arvin. The line moves southwest toward the community of Grapevine and continues on the east side of Interstate (I-) 5 through the Grapevine Canyon, crossing I-5 four times. The Grapevine Canyon mountain habitat consists of grasslands, agricultural/nonnative/ruderal, and oak and montane woodlands. Developed areas around I-5 where the subtransmission line crosses include residential and commercial development and recreational use (Fort Tejon State Historic Park). The east fork of the subtransmission line traverses the Tehachapi Mountains, with existing habitats of grasslands, oak and montane woodlands, and minimal agricultural/nonnative/ruderal land. On the eastern side of the Tehachapi Mountains, the line ends east of Stallion Springs, a valley with agricultural land.

3.3 Hydrology

Major aquatic features that pass the subtransmission line include the Kern River, Caliente Creek, Tejon Creek, El Paso Creek, Grapevine Creek, Governor Edmund G. Brown California Aqueduct, and Comanche Creek. Tributaries to these features also intersect the study area.

3.3.1 Precipitation

The regional climate of the San Joaquin Valley is characterized by hot, dry summers and foggy, rainy winters with enough moisture to support grasslands and woodlands in the mountain ranges framing the valley. Precipitation data were obtained from the Bakersfield Airport, California weather station approximately 14 miles west of the proposed project (National Weather Service 2024). The jurisdictional delineation was not conducted in a typical year, with precipitation totals exceeding the 20-year average by 4.2 inches (the 2003–2023 average total was 5.75 inches; the 2023 total was 9.95 inches). Of the last 20 years, 2023 had the second highest precipitation average total, behind 2010 with 12.50 inches. Table 2 summarizes the monthly and annual precipitation for 2019–2023 and provides the average monthly and annual precipitation for 2003–2023.

Month	2019	2020	2021	2022	2023	2024	2003-2023
January	1.38	0.24	0.98	0.01	1.97	1.65	0.94
February	1.2	0.01	0.09	0.11	2.44	-	0.88
March	2.01	1.57	0.77	1.34	2.98	-	1
April	0.11	2.61	0.19	0.39	Т	-	0.62
May	1.57	0.16	0	0	0.15	-	0.26
June	0.23	0.02	Т	0.01	0.37	-	0.04
July	Т	0	Т	Т	0	-	0
August	0	Т	0	Т	1.08	-	0.05
September	0.02	0	Т	0	Т	-	0.04
October	0	Т	0.94	0	0.3	-	0.29
November	1.07	0.39	0.01	0.66	0.02	-	0.4
December	1.52	0.35	2.6	1.69	0.64	-	1.23
Total Average Precipitation (inches)	9.11	5.35	5.58	4.21	9.95	-	5.75

Table 2. Regional Rainfall Data Summary for Bakersfield Airport, California (inches)

Source: National Weather Service 2024

T=Trace

3.4 Hydrologic Units and Aquatic Resources Mapping

The study area is within the Middle Kern-Upper Tehachapi-Grapevine (18030003) and Santa Clara (18070102) hydrologic unit code (HUC) 8 watersheds and the following HUC 10 subwatersheds (Appendix A, Figure 3): Cottonwood Creek-Kern River (1803000301), Pleitito Creek-Kern Lake Bed (1803000312), Caliente Creek (1803000304), Lake Paulina-Comanche Creek (1803000306), Caparell Creek-Frontal Kern Lake Bed (1803000310), Tejon Creek (1803000305), El Paso Creek (1803000308), Liveoak Canyon-Pastoria Creek (1803000309), Grapevine Creek (1803000307), and Upper Piru Creek (1807010205). The FEMA 100-year floodplain, NHD database results, and U.S. Fish and Wildlife Service NWI database query results for the study areas are depicted on the water resources map (Appendix A, Figure 4).

3.5 Soils

3.5.1 Soil Series

The Natural Resources Conservation Service has mapped the following soil map units listed in Table 3 as occurring within the study area based on the Soil Survey Geographic database. Hydric soils mapped within the study area are shown in Appendix A, Figure 5, and descriptions of each soil map unit, its hydric criteria rating, and landforms associated with hydric soils are included in Table 3 (USDA/NRCS 2006). Hydric soil determinations are based on the NRCS Field Office List of Hydric Soil Map Units for Kern/Los Angeles Counties, California (USDA/NRCS 2017).

Soil Map Unit	Description	Hydric Criteria*	Hydric Landforms
138	Hesperia sandy loam, 0 to 2 percent slopes	2,4	Floodplains on valleys
139	Riverwash	4	Channels, floodplains, valleys
139ne	Riverwash	4	Channels, floodplains, valleys
144	Hesperia sandy loam, 0 to 2 percent slopes	2, 3	Depressions, valleys
144	Calicreek sandy loam, 0 to 2 percent slopes, occasionally flooded	4	Depressions, floodplains, valleys
145	Delano loamy sand, 0 to 2 percent slopes	4	Depressions, floodplains, valleys
152	Pleito gravelly sandy clay loam, 2 to 5 percent slopes	2,4	Floodplains, valleys
185	Brecken-Cuyama-Pleito complex, 15 to 60 percent slopes	4	Drainageways, floodplains, hills
191	Guijarral sandy loam, 2 to 9 percent slopes	4	Alluvial fans, floodplains, valleys
192	Chanac-Pleito complex, 5 to 30 percent slopes	2, 3, 4	Fan remnants, valleys
192	Guijarral-Klipstein complex, 2 to 5 percent slopes	4	Alluvial fans, floodplains, valleys
193	Chanac-Pleito complex, 2 to 5 percent slopes	2, 4	Fan remnants, valleys
197	Nord fine sandy loam, 0 to 2 percent slopes, rarely flooded	4	Drainageways, floodplains, valleys
201	Hesperia sandy loam, 0 to 2 percent slopes	2, 4	Floodplains, valleys
205	Pleito-Trigo-Chanac complex, 15 to 50 percent slopes	2, 4	Floodplains, hills
209	Whitewolf loamy sand, 0 to 2 percent slopes, occasionally flooded	4	Floodplains, valleys
209ne	Whitewolf loamy sand, 0 to 2 percent slopes, occasionally flooded	4	Floodplains, valleys
211	Xerorthents-Rock outcrop complex, very steep	2	Drainageways, hills, mountains
217	Whitewolf-Riverwash complex, 0 to 5 percent slopes, frequently flooded	4	Drainageways, depressions, floodplains, valleys

Table 3. Soil Map Unit Descriptions, Hydric Criteria, and Hydric Landforms

Southern California Edison

Soil Map Unit	Description	Hydric Criteria*	Hydric Landforms
267	Cieneba-Vista-Rock outcrop complex, 30 to 60 percent slopes	2,4	Drainageways, hills, mountains, floodplains
267ne	Cieneba-Vista-Rock outcrop complex, 30 to 60 percent slopes	2,4	Drainageways, hills, mountains, floodplains
280	Premier sandy loam, 0 to 2 percent slopes	2,4	Depressions, floodplains, valleys
290	Riverwash	2, 4	Channels, alluvial fans, floodplains, valleys
306	Xerofluvents, occasionally flooded-Riverwash complex, 0 to 5 percent slopes	4	Floodplains, hills, valleys
312	Vineland-Bakersfield complex, 0 to 1 percent slopes, drained	4	Floodplains, channels, valleys
402	Loslobos-Walong association, 5 to 30 percent slopes	2,4	Drainageways, seeps, valleys
460	Geghus-Tecuya association, 9 to 30 percent slopes	2,4	Seeps, valleys
461	Geghus-Tecuya association, 30 to 75 percent slopes	2,4	Drainageways, seeps, valleys
590	Gorman-Typic Xerorthents, mesic- Xerorthents, shallow, complex, 30 to 100 percent slopes	2, 4	Drainageways, hills, seeps
850	Xerofluvents, 0 to 5 percent slopes	4	Floodplains, valleys
860	Hawk gravelly sandy loam, 9 to 15 percent slopes	2,4	Drainageways, floodplains, mountains
870	Frazier very gravelly sandy loam, 50 to 75 percent slopes	2	Mountains, seeps
880	Chuchupate gravelly sandy loam, 50 to 75 percent slopes	2,4	Floodplains, mountains, seeps
Со	Chino loam	2	Drainageways
GoF2	Gorman sandy loam, 30 to 50 percent slopes, eroded	2	Drainageways

*Hydric criteria notes:

1. All Histels except Folistels, and all Histosols except Folists.

2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, or Andic, Cumulic, Pachic, or Vitrandic subgroups that: (a) Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or (b) Show evidence that the soil meets the definition of a hydric soil. (*Federal Register* Doc. 2012-4733 Filed 2-28-12) [Previous choices of 2a, 2b1, 2b2, and 2b3 have been deleted as choices per request of Lenore Vasilas at the behest of the National Technical Committee for Hydric Soils.]

3. Soils that are frequently ponded for long duration or very long duration during the growing season.

4. Soils that are frequently flooded for long duration or very long duration during the growing season.

This chapter describes potential jurisdictional features and expected jurisdictional status within the study area. An impact analysis is not included as a part of this report. The information included herein documents the investigation, best professional judgment, and conclusions of ICF. It is correct and complete to the best of our knowledge. However, all jurisdictional delineations should be considered preliminary until reviewed and approved by the regulatory agencies.

Supporting information includes maps of jurisdictional features within the study area (Appendix A), photographs for all delineated features (Appendix B), OHWM data sheets (Appendix C), wetland determination forms (Appendix D), SDAM forms (Appendix E), and jurisdictional delineation results (Appendix F).

4.1 Delineated Feature Descriptions

Within the study area, a total of 91 aquatic features potentially subject to the jurisdiction of USACE, RWQCB, and CDFW were delineated (Appendix F). Feature numbering is not consecutive and may be duplicated due to changes in the study area and use of multiple teams for fieldwork. In cases where feature numbering is duplicated, the lead delineator's initials were added to differentiate features. A summary of the jurisdictional delineation results based on feature type (ephemeral, intermittent, perennial, and wetland) are included in Table 4 and described in the sections below. Detailed maps depicting USACE/RWQCB WoUS and CDFW jurisdictions are included in Appendix A, Figures 6 and 7, respectively. Jurisdictional delineation results for individual features are included in Appendix F.

	USACE/RWQCB A	quatic Resources	CDFW Aquatic Resources		
Feature Type	Non-Wetland WoUS (acres/linear feet)	Wetland WoUS (acres/linear feet)	Streambed (acres/linear feet)	Riparian (acres/linear feet)	
Ephemeral features	4.442/22,895		9.299/23,131	0.549/682	
Intermittent features	2.764/3,184		6.222/3,915	0.273/679	
Perennial features	1.809/1,345		3.185/1,709		
Wetland features		1.718/870			
Total	9.015/27,424	1.718/870	18.706/28,755	0.822/1,361	

Data based on ICF geographic information system calculations, June 2024 -- equals null value (zero)

4.1.1 Ephemeral Features

Within the study area, there are 82 ephemeral features that range from small, earthen channels to large, sandy washes. Ephemeral features occur throughout most of the study area, frequently crossing designated proposed project access roads. These features are either unvegetated or dominated with upland vegetation and collect rainwater runoff from surrounding hillsides and

upland areas. The OHWM associated with these features typically exhibited a break in slope, sediment deposition, debris wracking, and change in average sediment size.

Of the four representative features chosen for streamflow duration assessments, features 001-KK, 0019, and 0031 were determined to exhibit ephemeral flow regimes. These features did not contain any hydrophytic plant species, aquatic invertebrates, algae, or fish within the areas surveyed, which is a strong indicator of an ephemeral flow regime.

All of these features may be subject to USACE, RWQCB, or CDFW jurisdiction. Results for each individual feature can be found in Appendix F, *Jurisdictional Delineation Results*.

4.1.2 Intermittent Features

Within the study area, there are five intermittent features that range from small, earthen channels to large, sandy washes and are vegetated with wetland vegetation to some degree, either within the channel or on the banks. These features receive flows somewhat regularly and for prolonged periods of time after rainfall has occurred, such as from snow melt from the Tehachapi, Tecuya, and Frazier Mountains. Some features also contained flowing water at the time of the delineation. The OHWM associated with these features typically exhibited a break in slope, sediment deposition, debris wracking, change in average sediment size, change in vegetation cover and species, and sometimes change in current flow levels.

Of the four representative features chosen for streamflow duration assessments, feature 0044 was determined to exhibit an intermittent flow regime. Although aquatic invertebrates and fish were not observed, feature 0044 did contain filamentous algal mats and hydrophytic plant species including Fremont's cottonwood (*Populus fremontii*, FACW) and black willow (*Salix gooddingii*, FACW) saplings, which are indicators of a stream being "at least intermittent" according to the SDAM form.

All of these features may be subject to USACE, RWQCB, or CDFW jurisdiction. Results for each individual feature can be found in Appendix F, *Jurisdictional Delineation Results*.

4.1.3 Perennial Features

Features 0058 and 0059 are both sections of the Kern River and the only perennial features within the study area. Both features are a large, NHD blue-line stream flowing northeast to southwest in the northernmost portion of the study area. These features receive flows from Isabella Reservoir to the northeast and are confined within Kern Canyon, flowing parallel to Kern Canyon Road directly east. They are characterized by grouted riprap along the eastern banks, a natural rocky canyon that makes up the western banks, and cobbles and boulders within the channel bed. Although the features are predominantly unvegetated, scattered western sycamore (*Platanus racemosa*, FAC), mulefat (*Baccharis salicifolia*, FAC), and coyote bush (*Baccharis pilularis*, UPL) line portions of the banks within the study area.

The OHWM associated with Features 0058 and 0059 ranges from 53 to 124 feet wide and is defined as a break in slope, change in average sediment texture, change in vegetation cover, debris wracking, and staining. Limits of CDFW jurisdiction were determined by the top of bank and range from approximately 97 to 150 feet wide.

These features may be subject to USACE, RWQCB, and CDFW jurisdiction. Results for both features can be found in Appendix F, *Jurisdictional Delineation Results*.

4.1.4 Wetland Features

Two potential wetland features are mapped within the study area. Feature W0011 was not accessible in the field and was mapped via desktop based on topography and open water visible on aerial imagery. The feature appears to be associated with an NHD blue-line stream that is downstream from features 007-SG and 008-SG. Feature W0005 is a potential wetland along the side of I-5 and adjacent to feature 0006. The feature is a grassy depression that gently slopes northeast to southwest with drainage patterns and some ponded water near the southern edge. The feature is dominated by hydrophytic vegetation that includes Mexican rush (*Juncus mexicanus*, FACW), creeping wild rye (*Leymus triticoides*, FAC), and tall pepperweed (*Lepidium latifolium*, FAC). The feature also supported A11 hydric soils: Depleted Below Dark Surface. The wetland boundary was determined based on changes in vegetation, topography, and lack of hydrology indicators.

These features may be subject to USACE and RWQCB jurisdiction. Results for both features can be found in Appendix F, *Jurisdictional Delineation Results*.

4.1.5 Non-jurisdictional Features

In addition to the mapped features described above, numerous other areas that were identified as potential aquatic resources during the desktop delineation were evaluated for USACE, RWQCB, and/or CDFW jurisdiction; it was determined that they were not potential aquatic resources. These areas lacked OHWM indicators, as well as a bed and bank, and were not considered surface waters because they were strictly agricultural ditches, concrete V-ditches, swales, constructed farm basins, and erosional features. These features did not appear to be associated with a natural stream channel, nor did they divert or replace a natural stream channel. Representative photographs of these features can be found in Appendix B, *Site Photographs*.

4.2 Summary of Jurisdictional Delineation Results

Based on the investigation and analysis documented in this report, potential CWA Section 404 and 401 USACE/RWQCB aquatic resources documented within the study area consist of 9.015acres (27,424linear feet) of non-wetland WoUS and 1.718 acres (870 linear feet) of wetland WoUS. No potential RWQCB Porter-Cologne WoS-only aquatic resources are mapped within the study area.

Potential CDFW jurisdiction documented in the study area consists of 18.706acres (28,755 linear feet) of streambed and 0.8222 acre (1,361 linear feet) of associated riparian vegetation.

All jurisdictional determinations in this report should be considered preliminary until reviewed and approved by applicable regulatory agencies.

4.3 List of Delineators and Report Preparers/Reviewers

Kristen Klinefelter—Delineator/Report Preparer

Sarah Gulyas—Delineator/Report Preparer

Sara Galindo—Delineator

Alix Fowler—Delineator Nicole Argueta—Delineator Lanika Cervantes—Report Reviewer Rachel Sarner—Geographic Information System/Graphics Support Johnnie Garcia—Geographic Information System/Graphics Support

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Appendix A Jurisdictional Delineation Figures

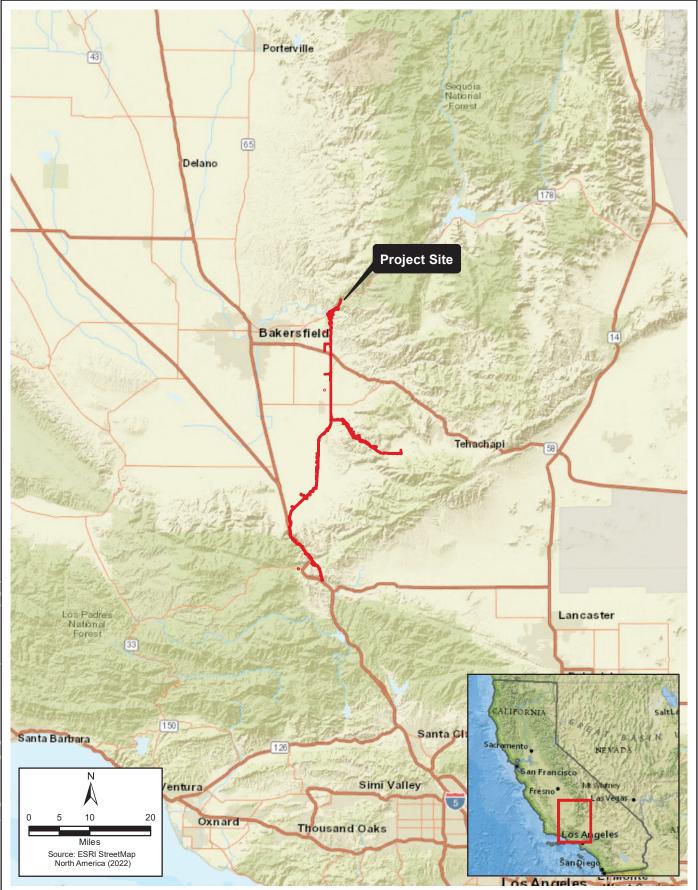




Figure 1 Regional Location Gorman-Kern River 66 kV Subtransmission Line Project

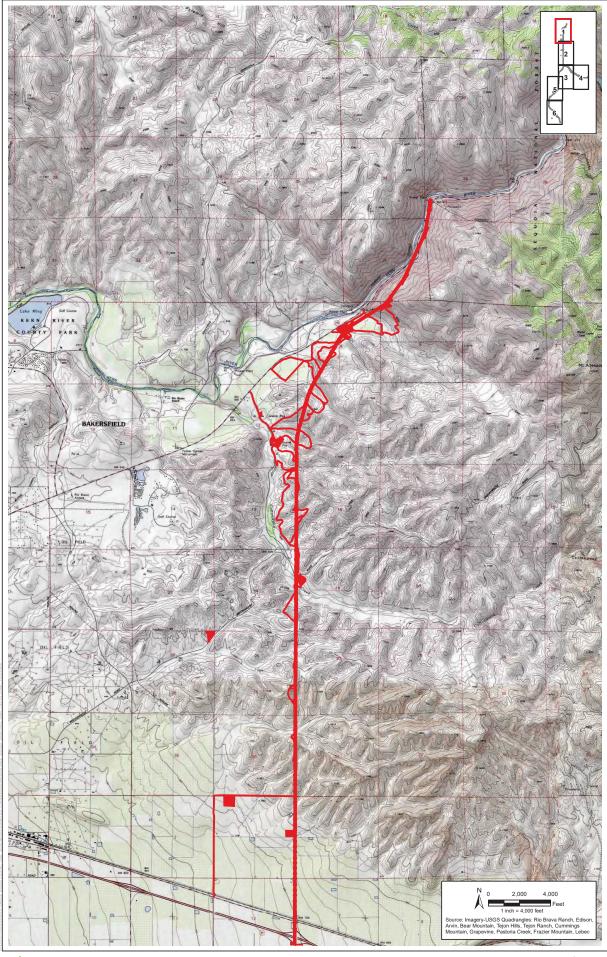




Figure 2 - Sheet 1 USGS Topographic Map Gorman-Kern River 66 kV Subtransmission Line Project

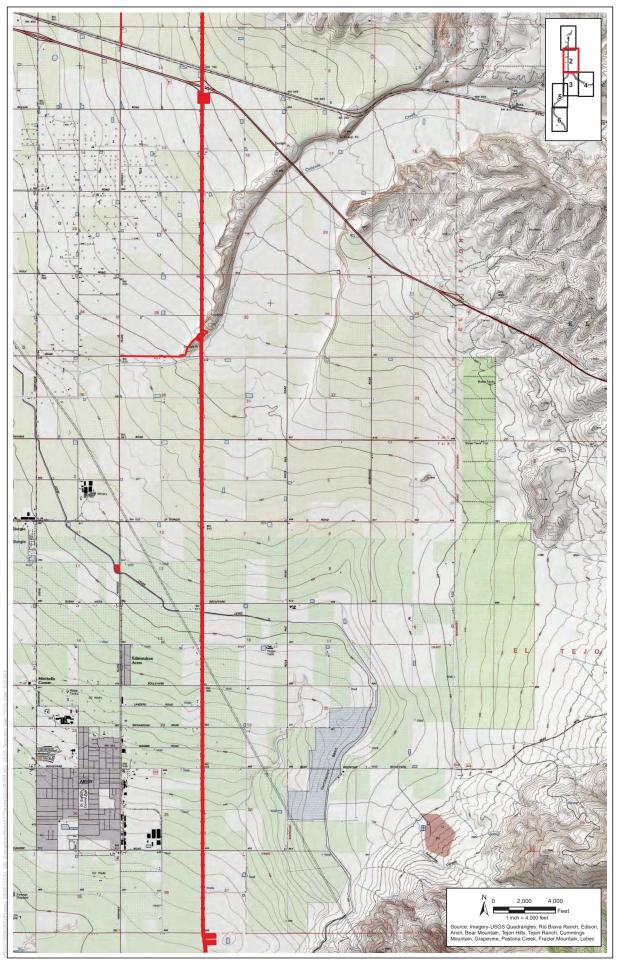




Figure 2 - Sheet 2 USGS Topographic Map Gorman-Kern River 66 kV Subtransmission Line Project

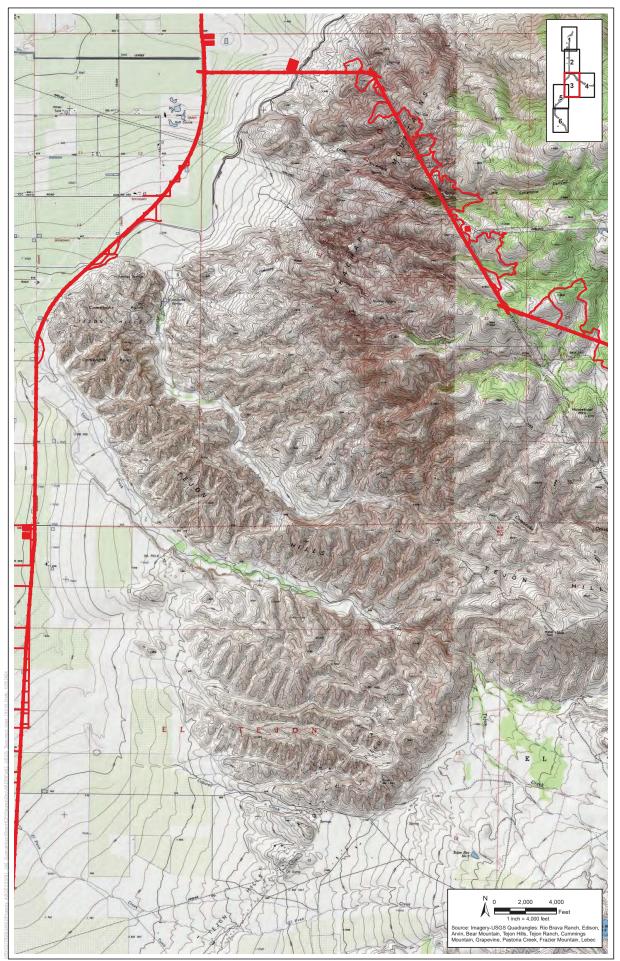




Figure 2 - Sheet 3 USGS Topographic Map Gorman-Kern River 66 kV Subtransmission Line Project

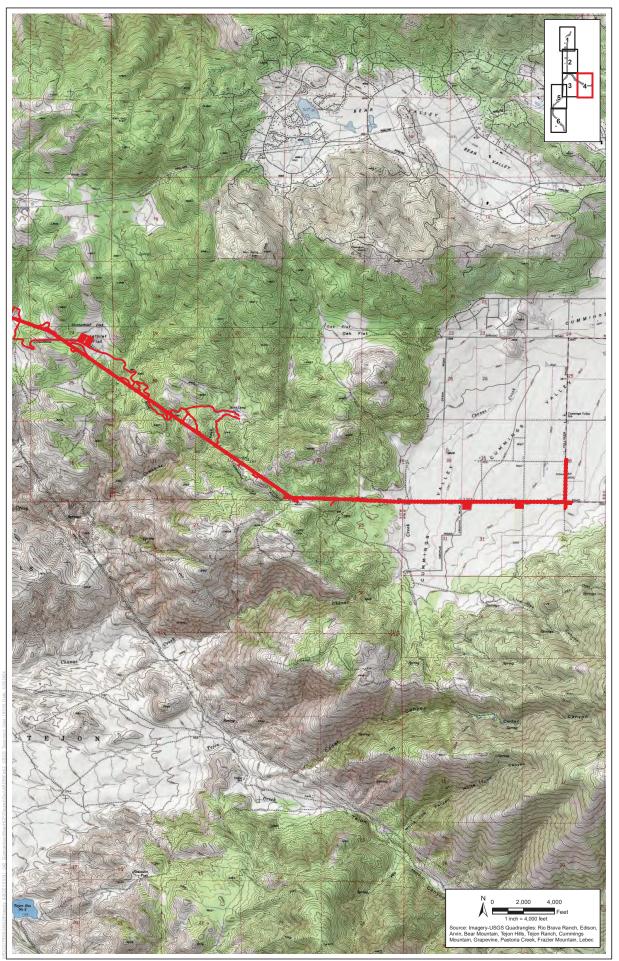




Figure 2 - Sheet 4 USGS Topographic Map Gorman-Kern River 66 kV Subtransmission Line Project

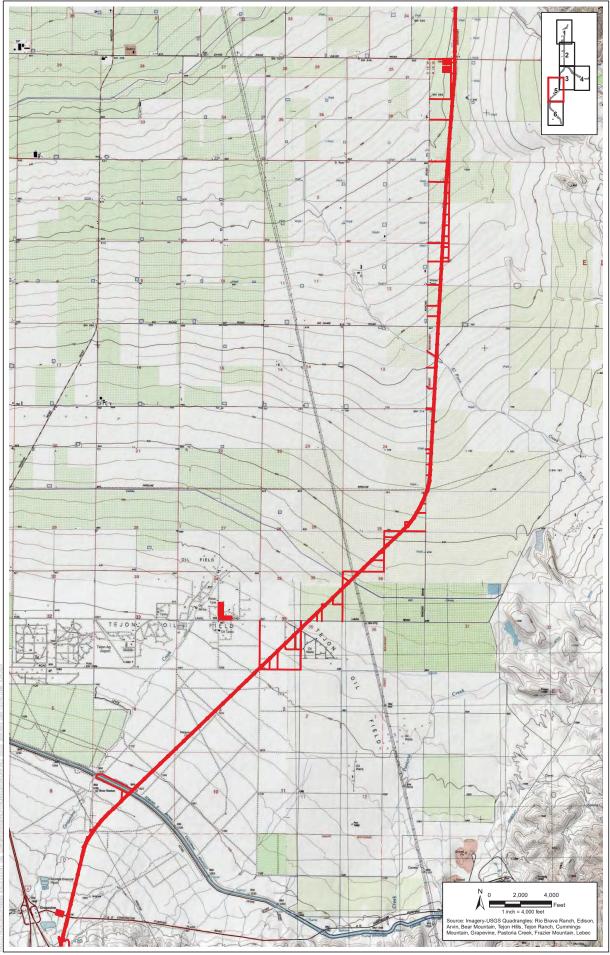




Figure 2 - Sheet 5 USGS Topographic Map Gorman-Kern River 66 kV Subtransmission Line Project

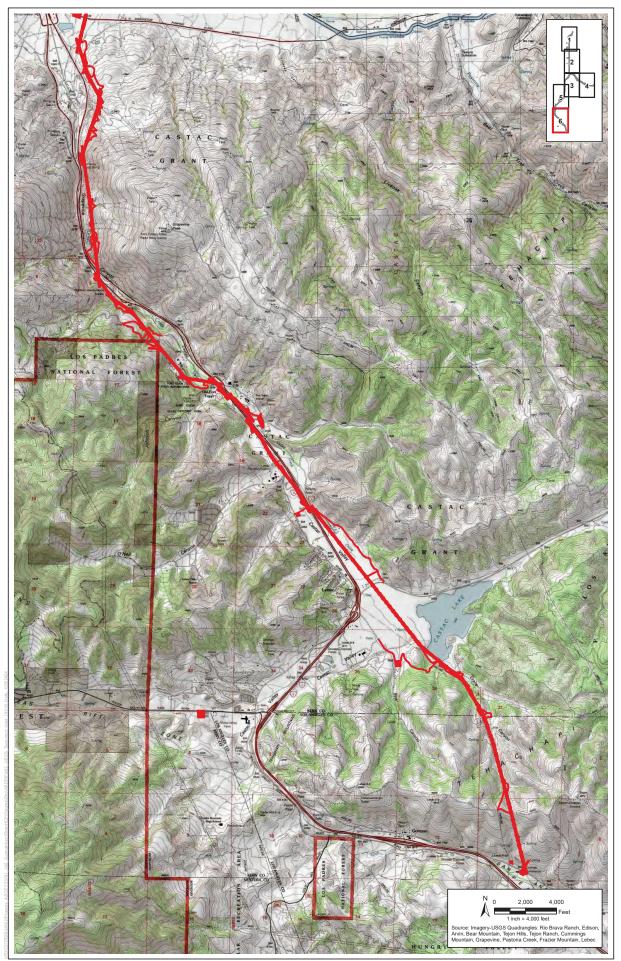
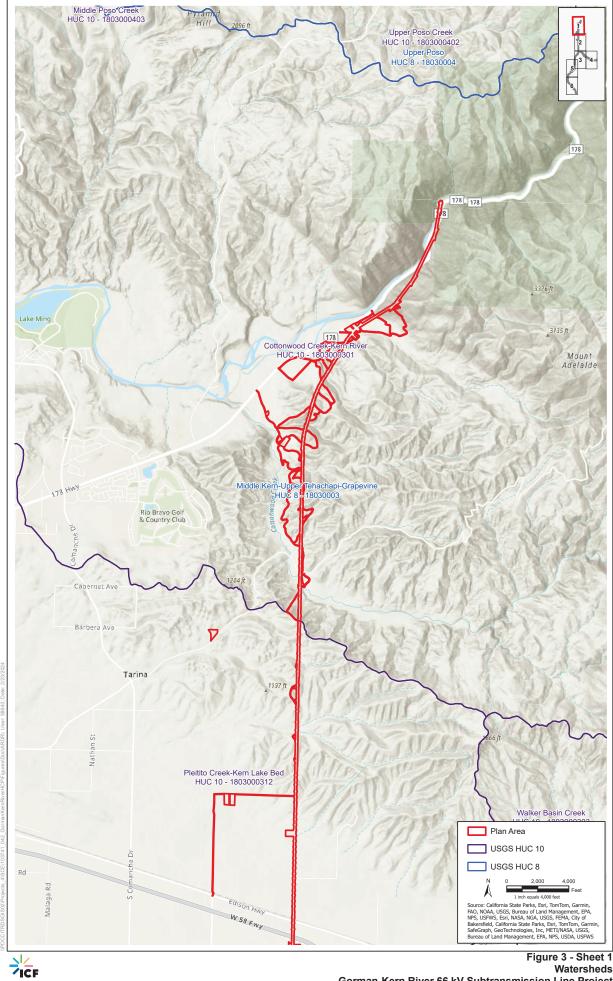
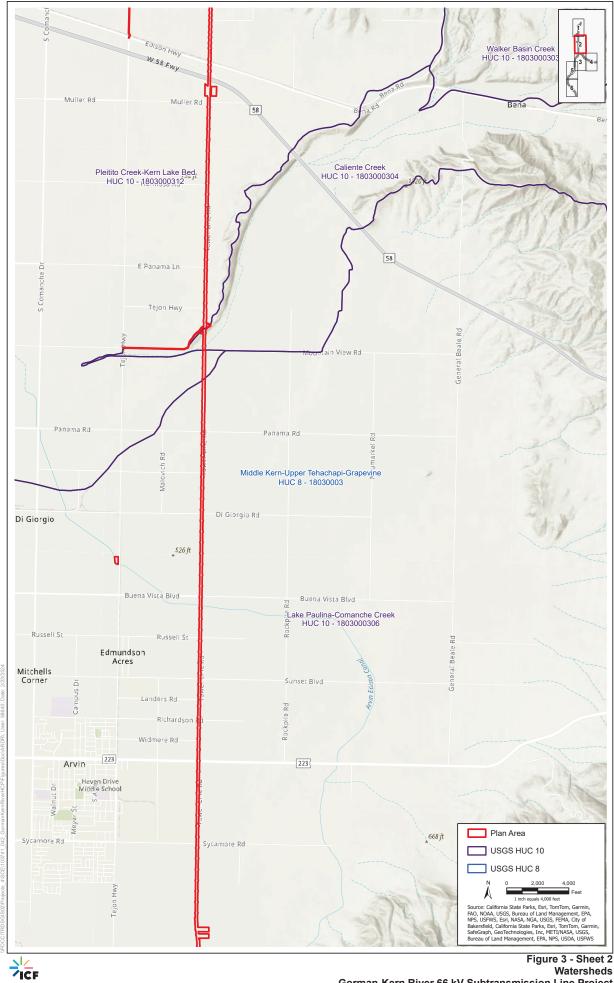




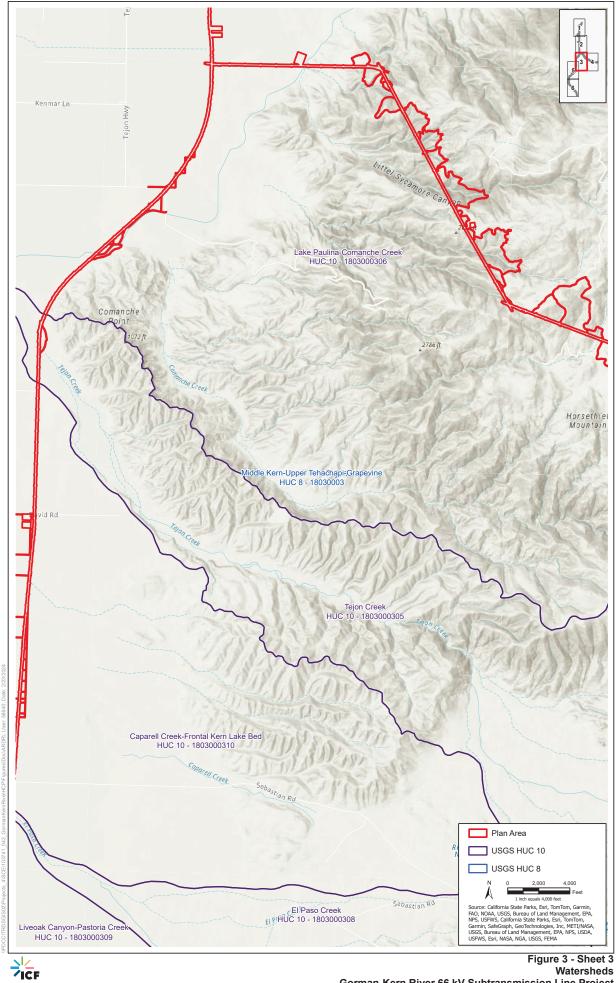
Figure 2 - Sheet 6 USGS Topographic Map Gorman-Kern River 66 kV Subtransmission Line Project



Watersheds Gorman-Kern River 66 kV Subtransmission Line Project



Watersheds Gorman-Kern River 66 kV Subtransmission Line Project



Watersheds Gorman-Kern River 66 kV Subtransmission Line Project

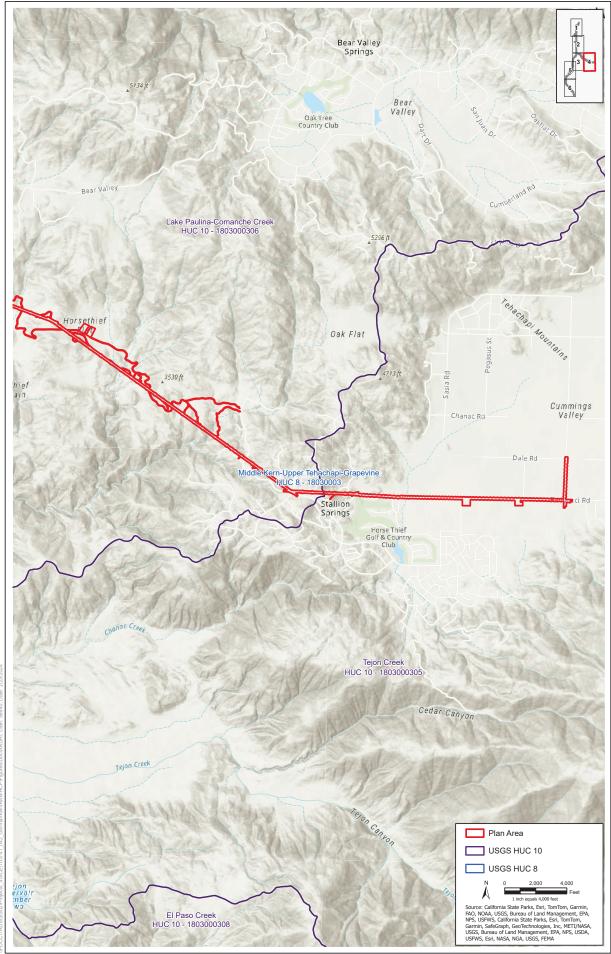
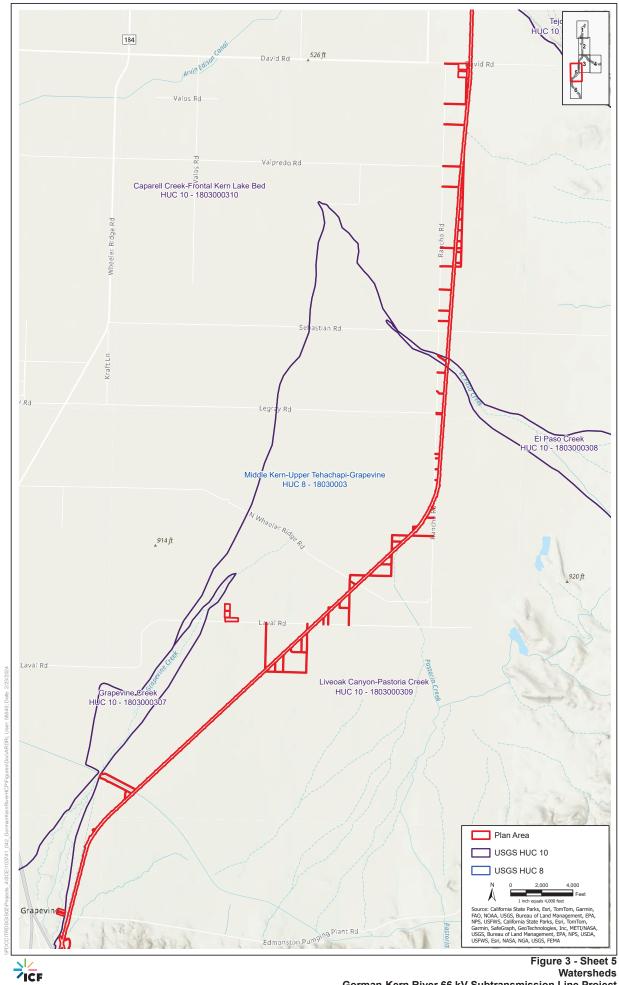




Figure 3 - Sheet 4 Watersheds Gorman-Kern River 66 kV Subtransmission Line Project



Watersheds Gorman-Kern River 66 kV Subtransmission Line Project

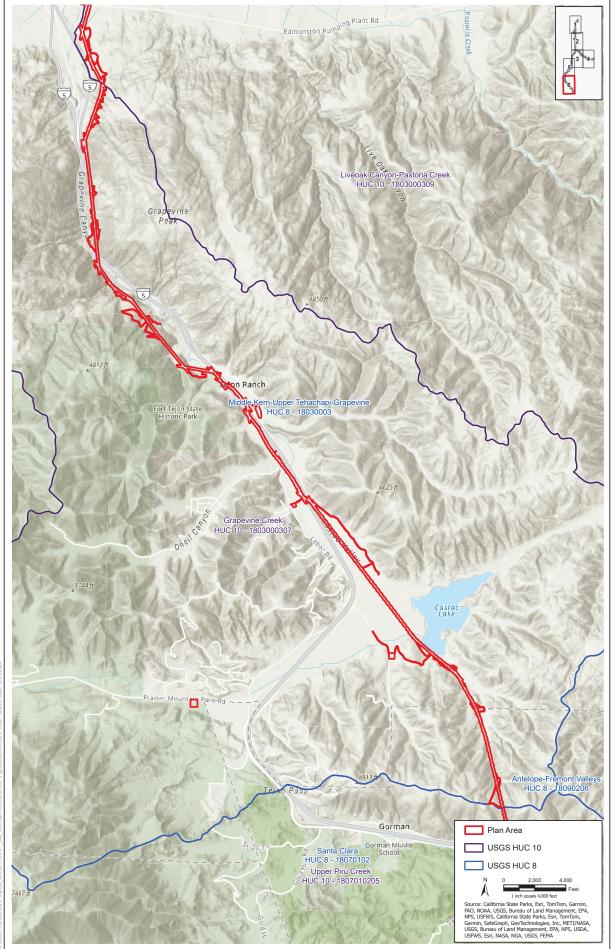
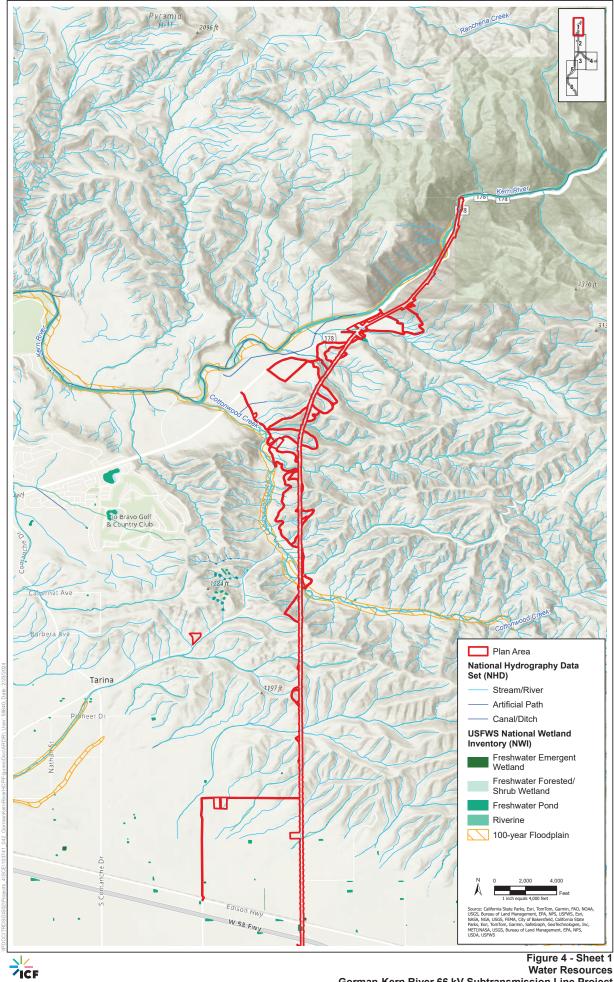




Figure 3 - Sheet 6 Watersheds Gorman-Kern River 66 kV Subtransmission Line Project



Water Resources Gorman-Kern River 66 kV Subtransmission Line Project

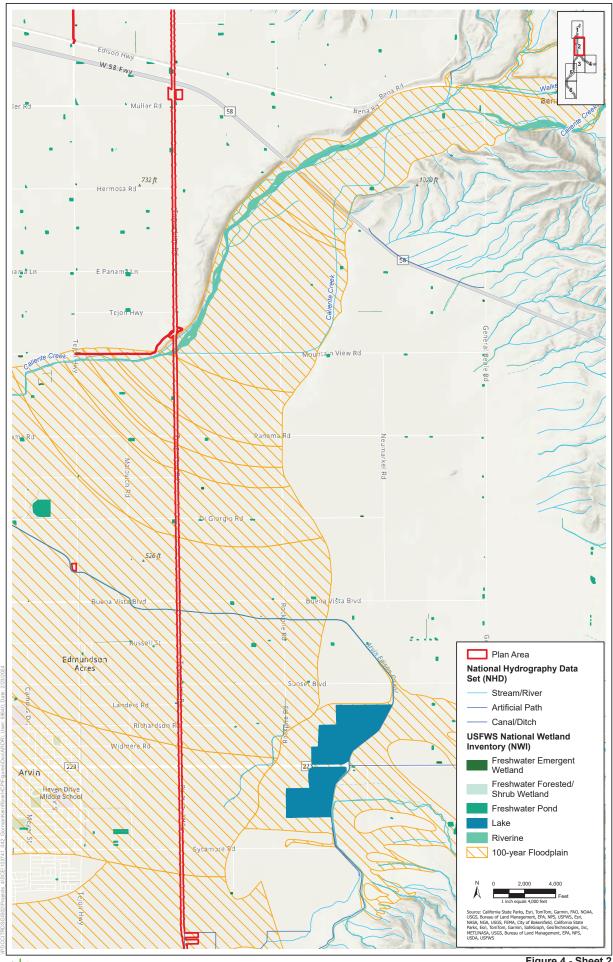
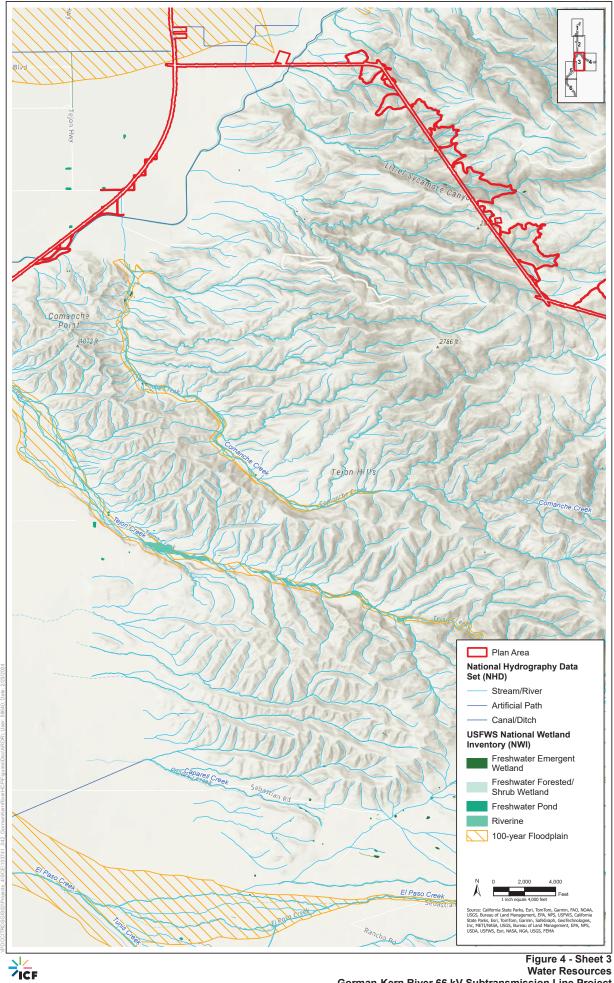




Figure 4 - Sheet 2 Water Resources Gorman-Kern River 66 kV Subtransmission Line Project



Water Resources Gorman-Kern River 66 kV Subtransmission Line Project

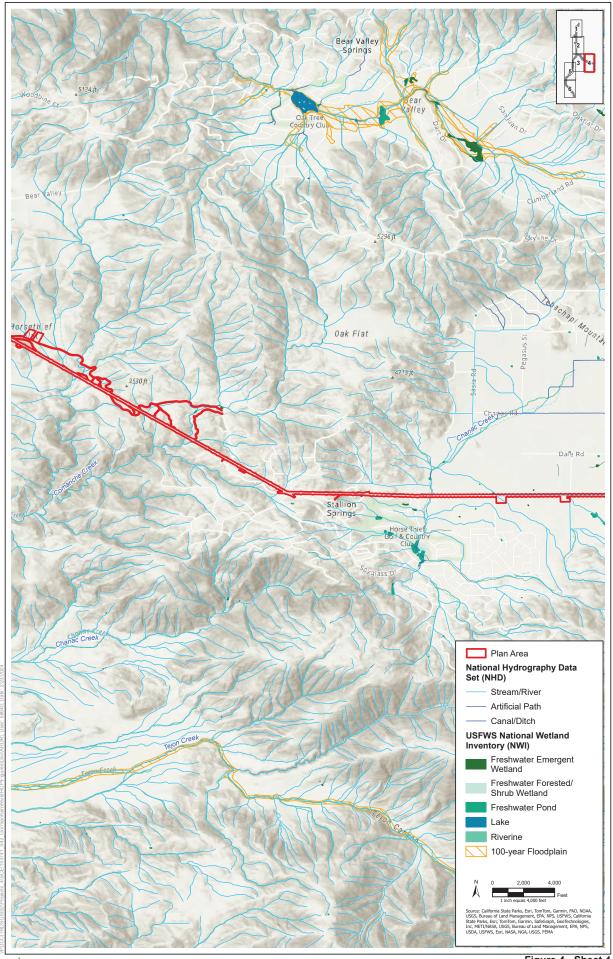
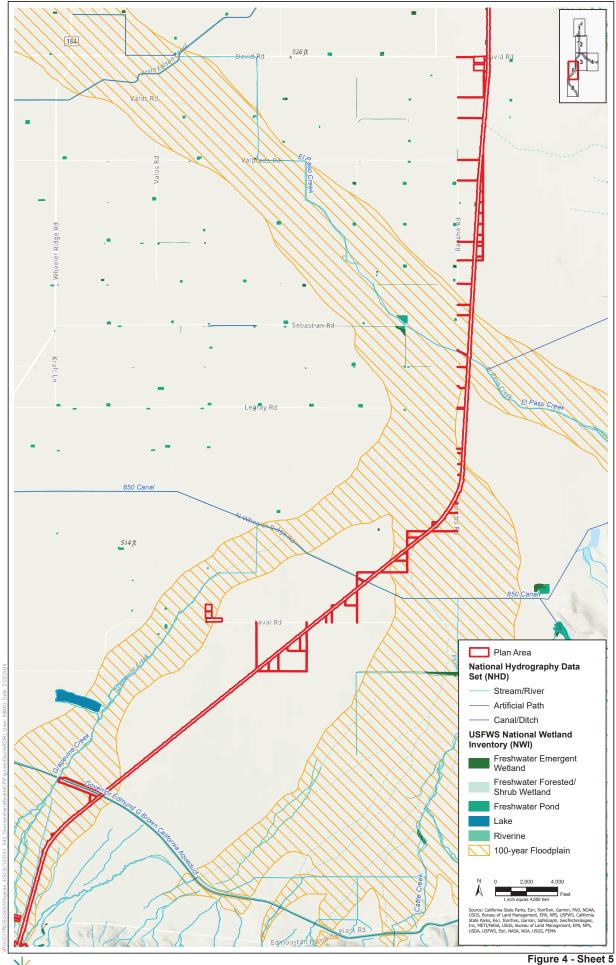




Figure 4 - Sheet 4 Water Resources Gorman-Kern River 66 kV Subtransmission Line Project





Gorman-Kern River 66 kV Subtransmission Line Project

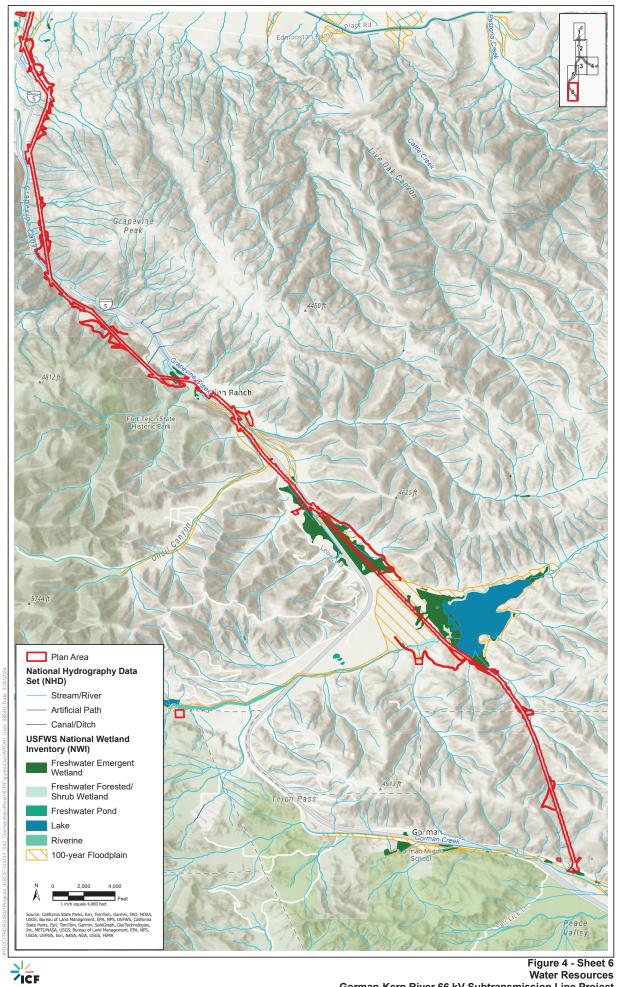


Figure 4 - Sheet 6 Water Resources Gorman-Kern River 66 kV Subtransmission Line Project

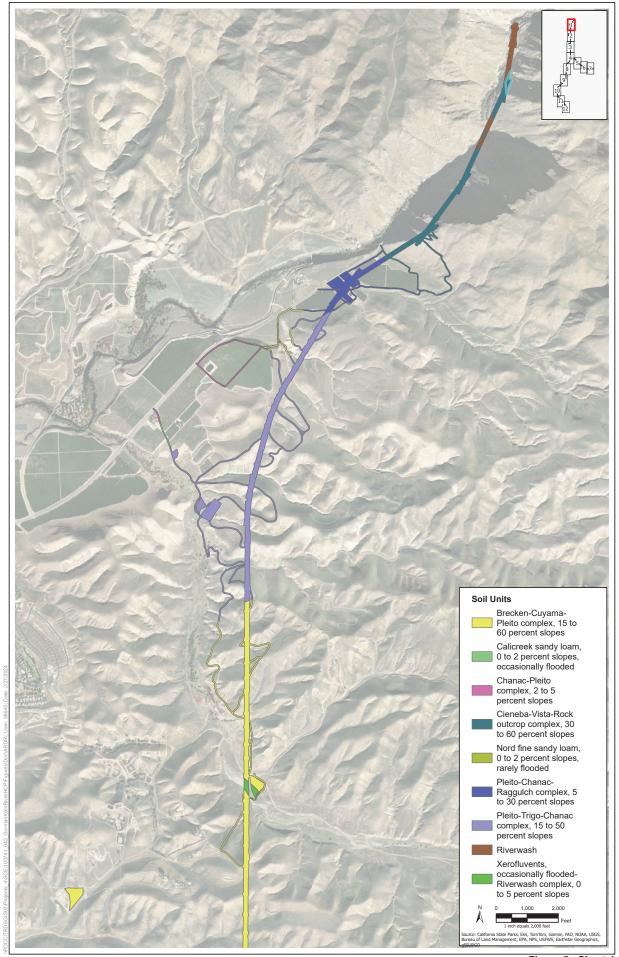
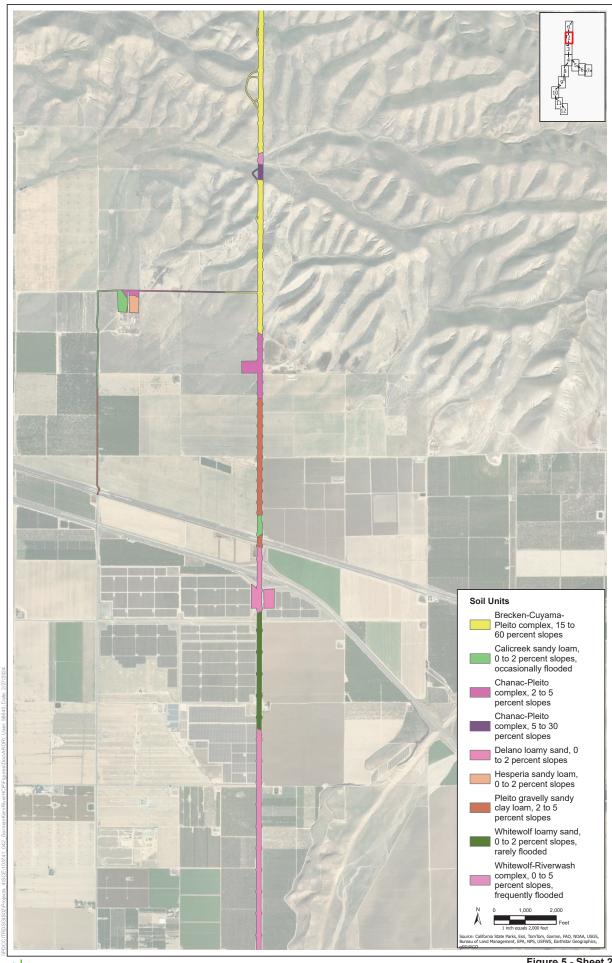




Figure 5 - Sheet 1 Soils Gorman-Kern River 66 kV Subtransmission Line Project



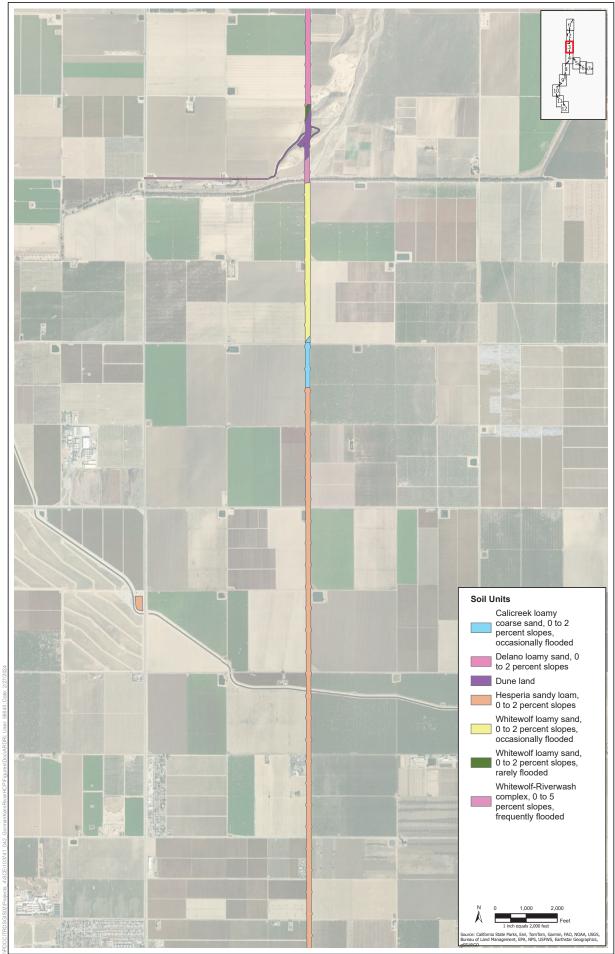
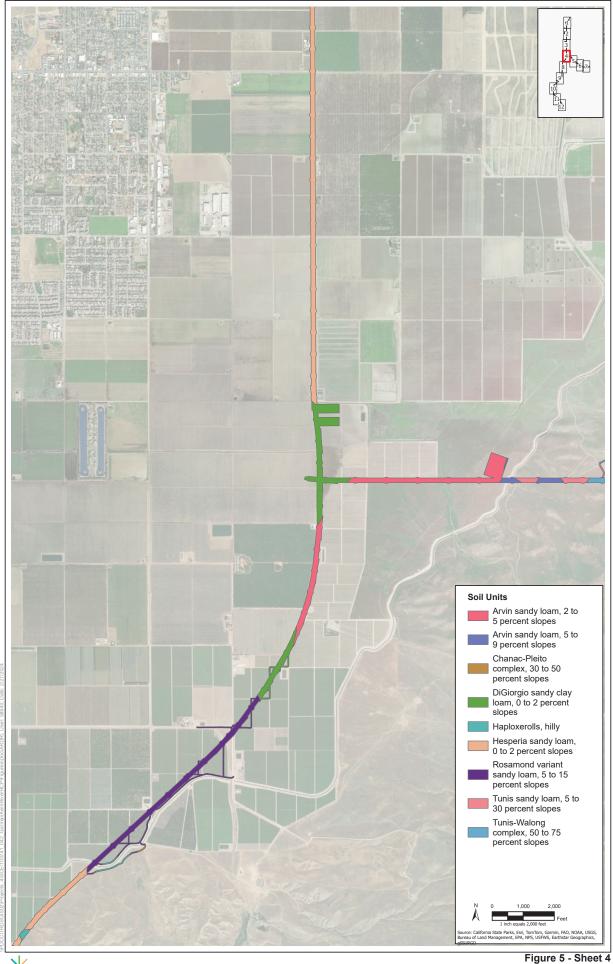


Figure 5 - Sheet 3 Soils Gorman-Kern River 66 kV Subtransmission Line Project





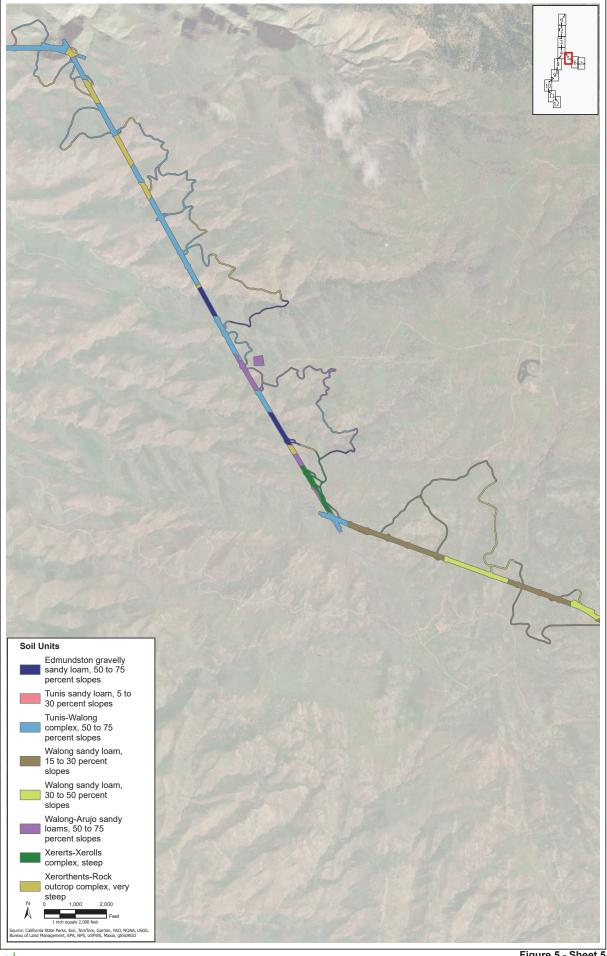


Figure 5 - Sheet 5 Soils Gorman-Kern River 66 kV Subtransmission Line Project

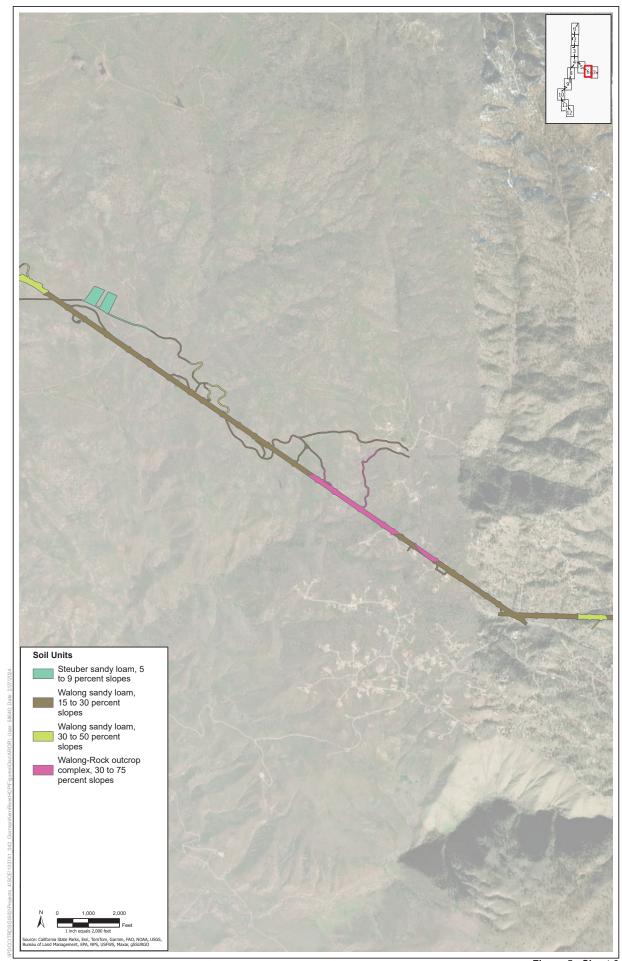




Figure 5 - Sheet 6 Soils Gorman-Kern River 66 kV Subtransmission Line Project





Figure 5 - Sheet 7 Soils Gorman-Kern River 66 kV Subtransmission Line Project

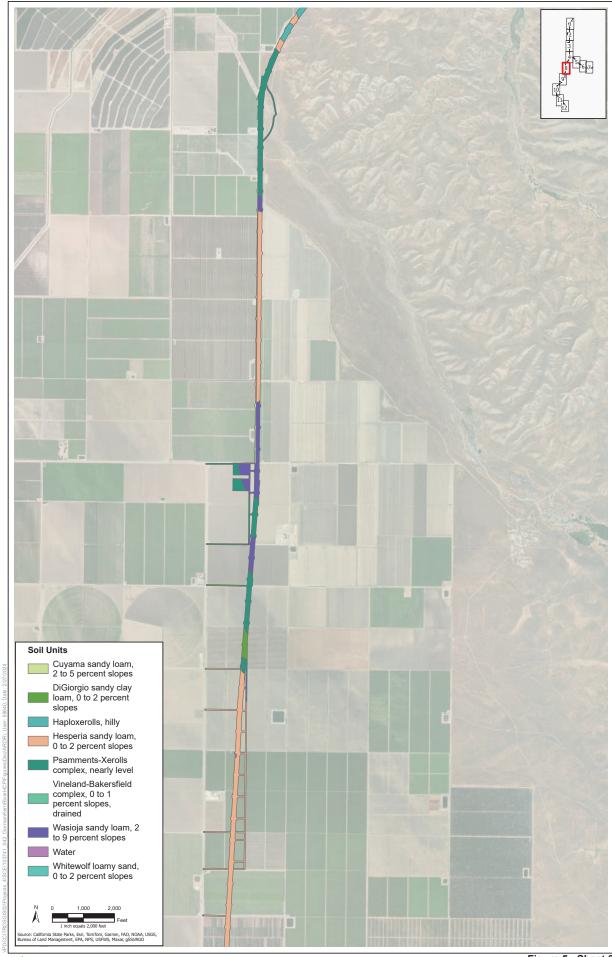


Figure 5 - Sheet 8 Soils Gorman-Kern River 66 kV Subtransmission Line Project

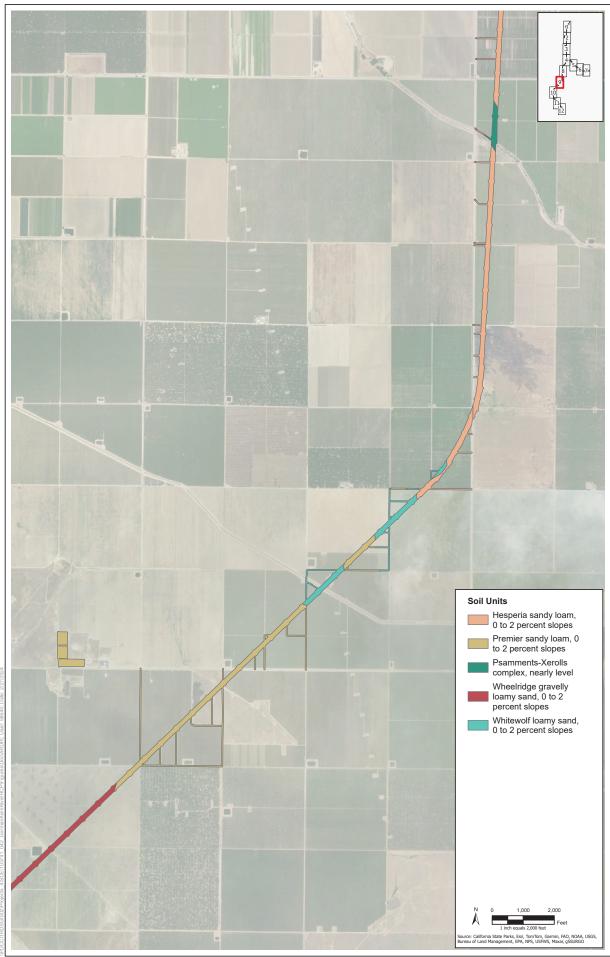




Figure 5 - Sheet 9 Soils Gorman-Kern River 66 kV Subtransmission Line Project

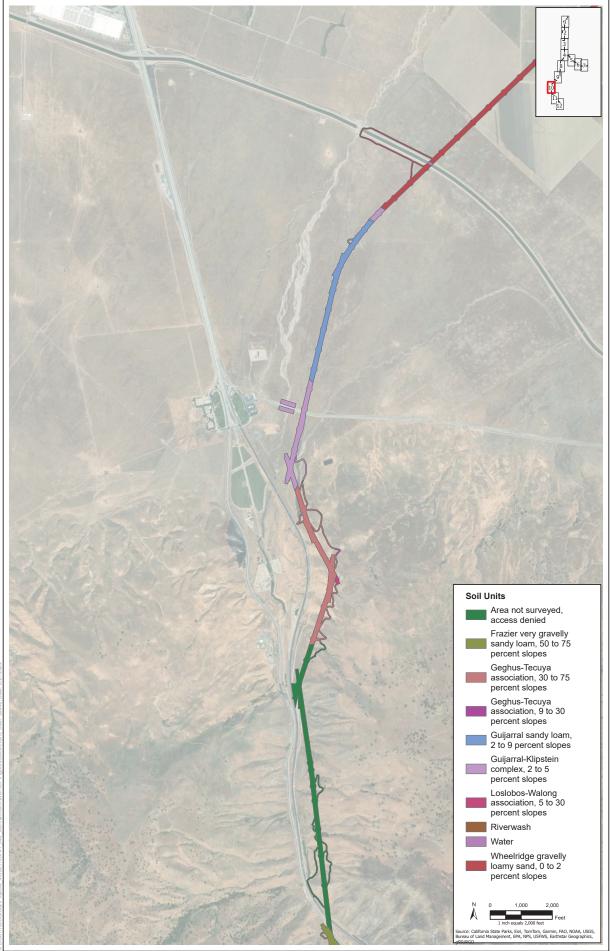


Figure 5 - Sheet 10 Soils Gorman-Kern River 66 kV Subtransmission Line Project



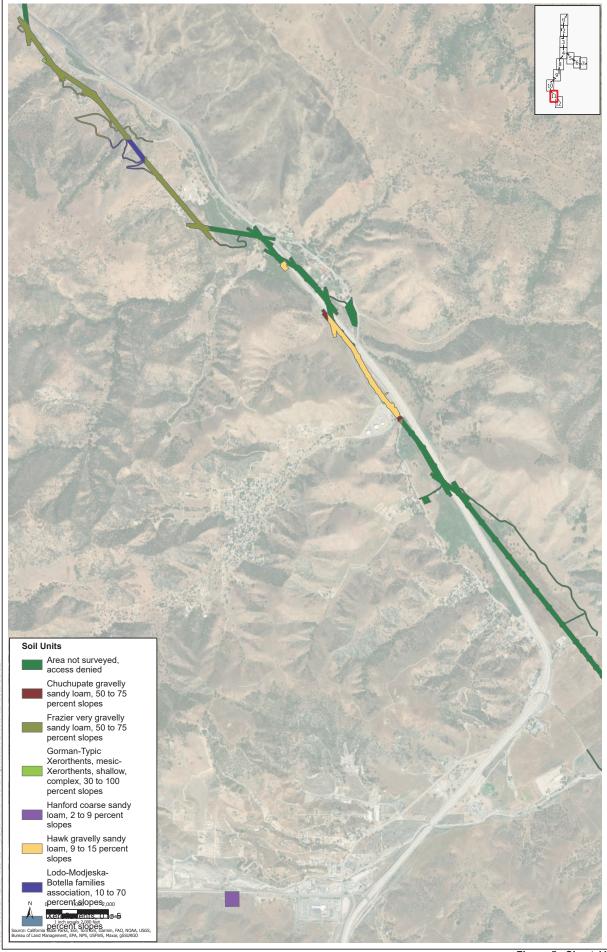




Figure 5 - Sheet 11 Soils Gorman-Kern River 66 kV Subtransmission Line Project

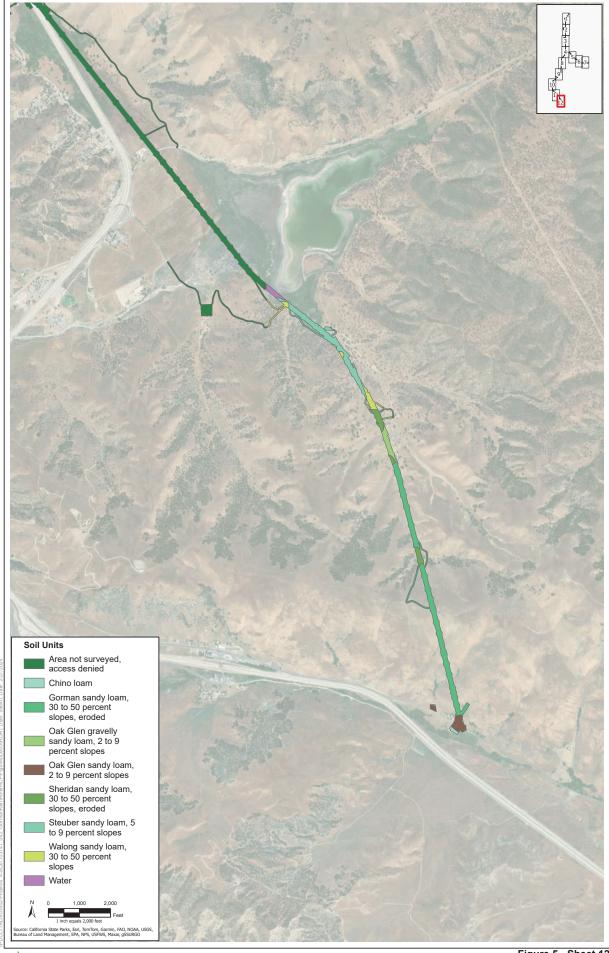
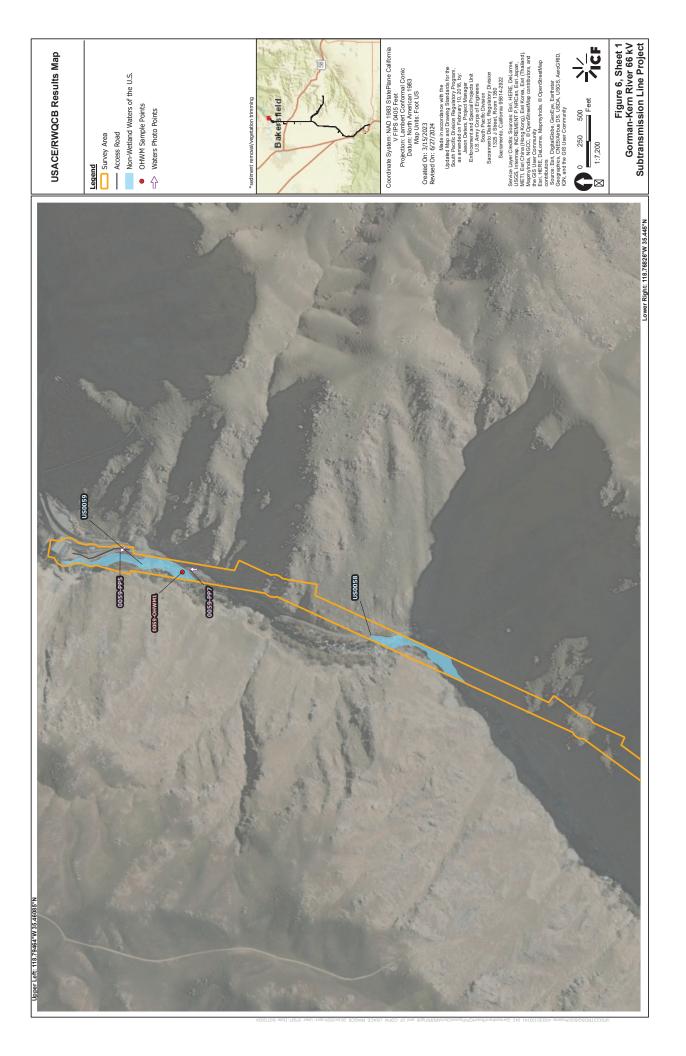
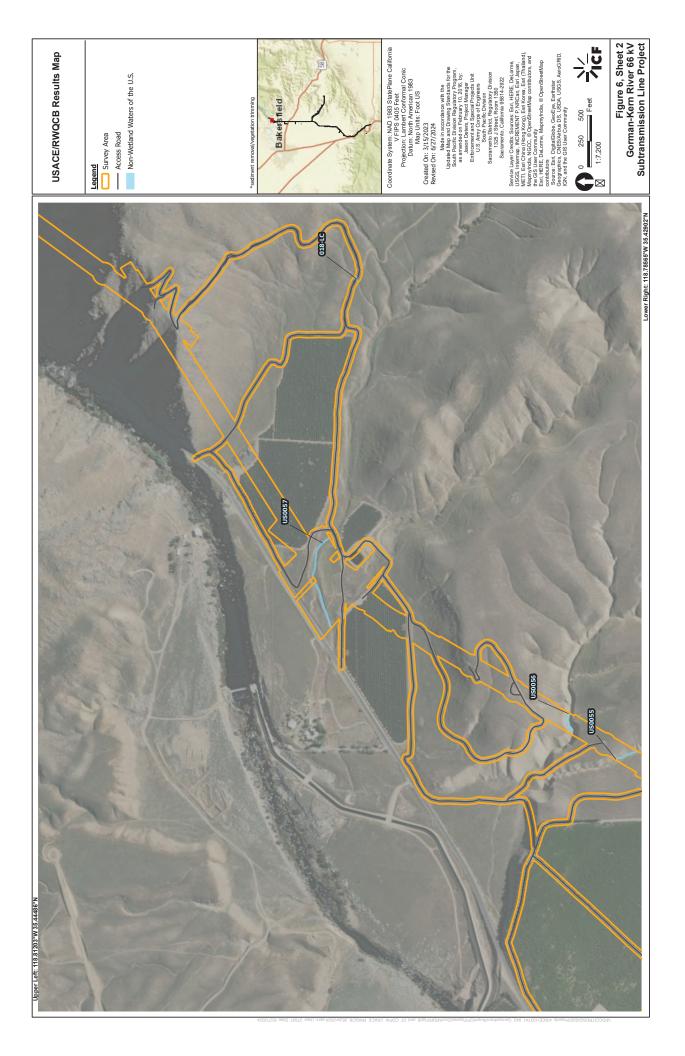
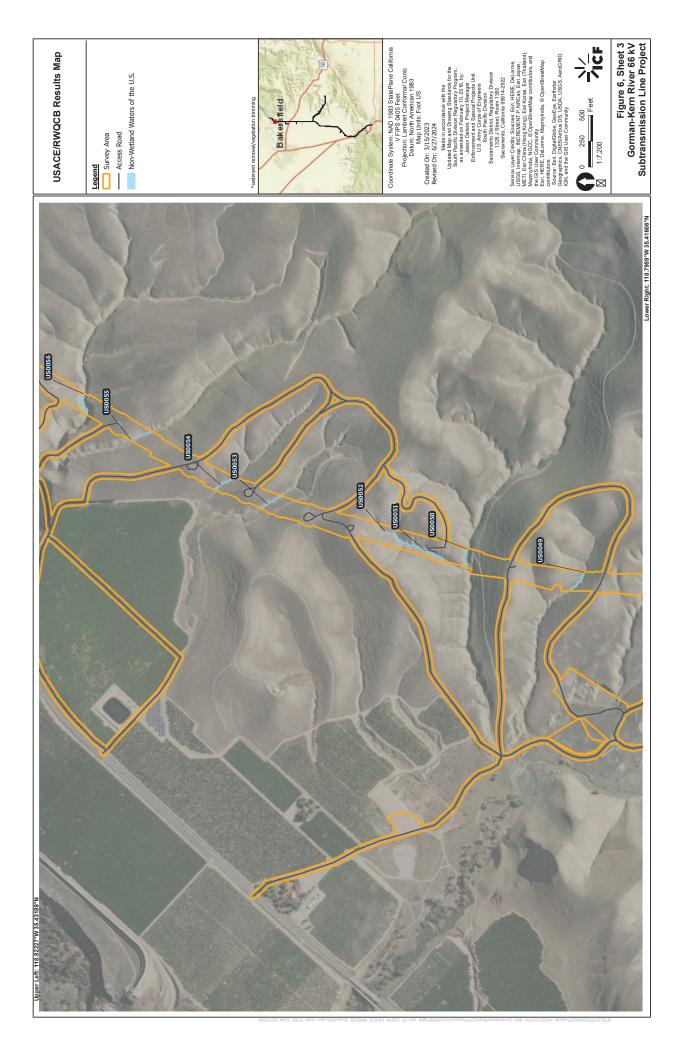
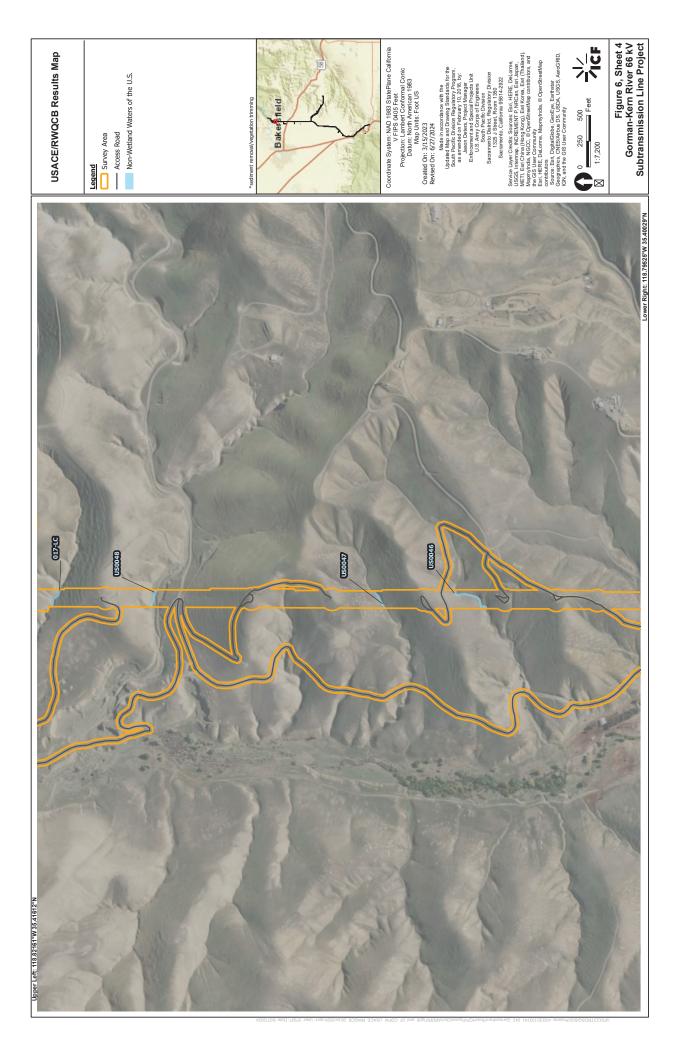


Figure 5 - Sheet 12 Soils Gorman-Kern River 66 kV Subtransmission Line Project

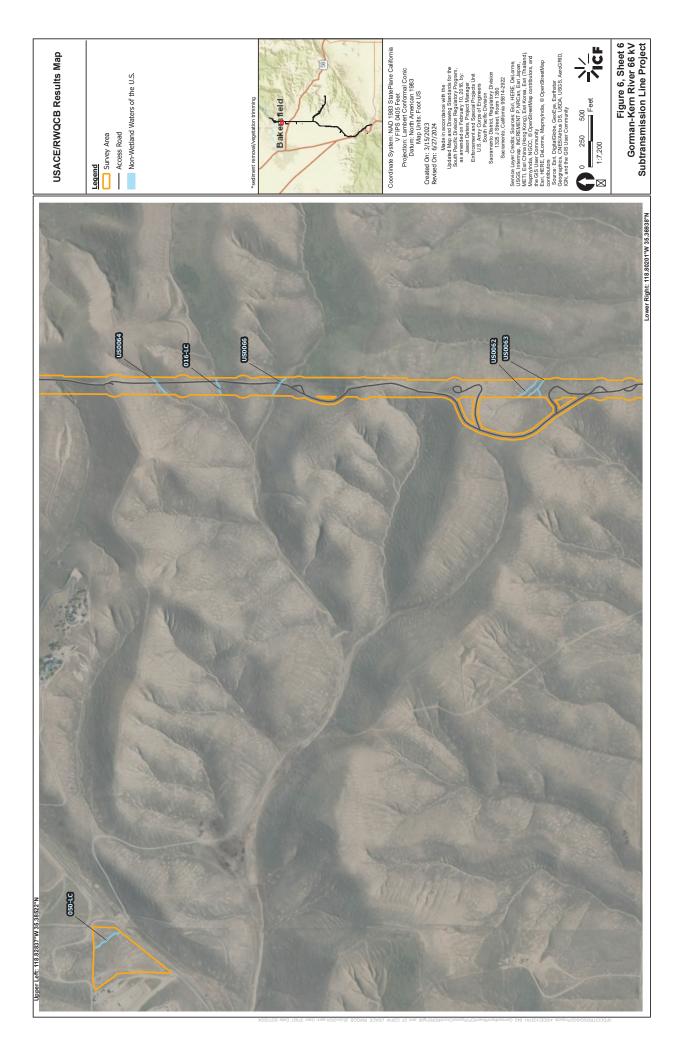










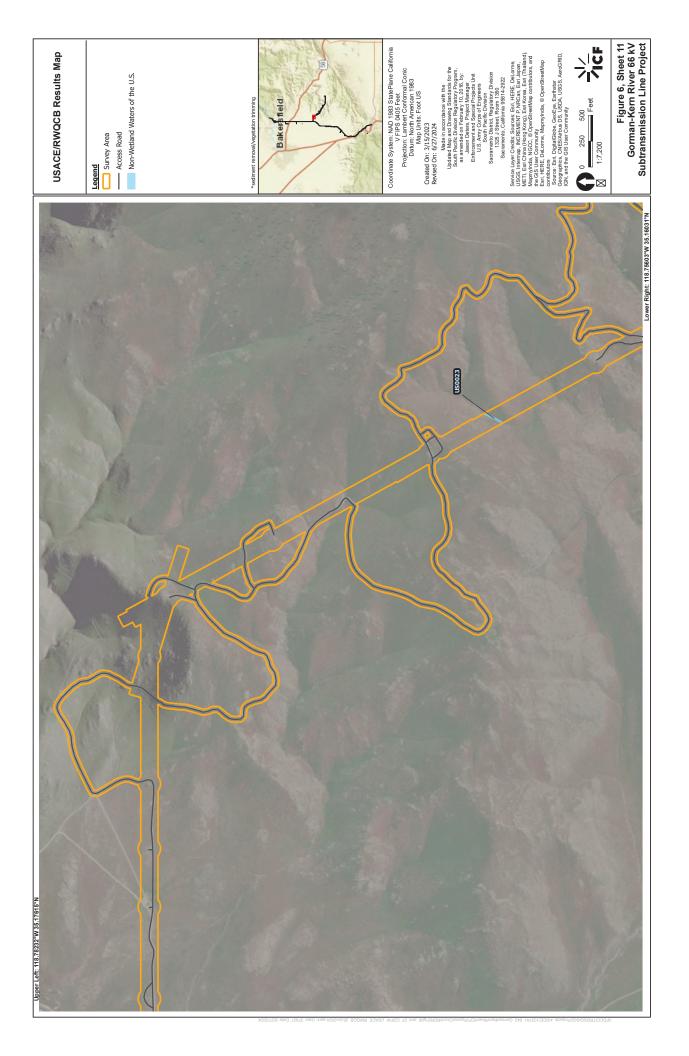


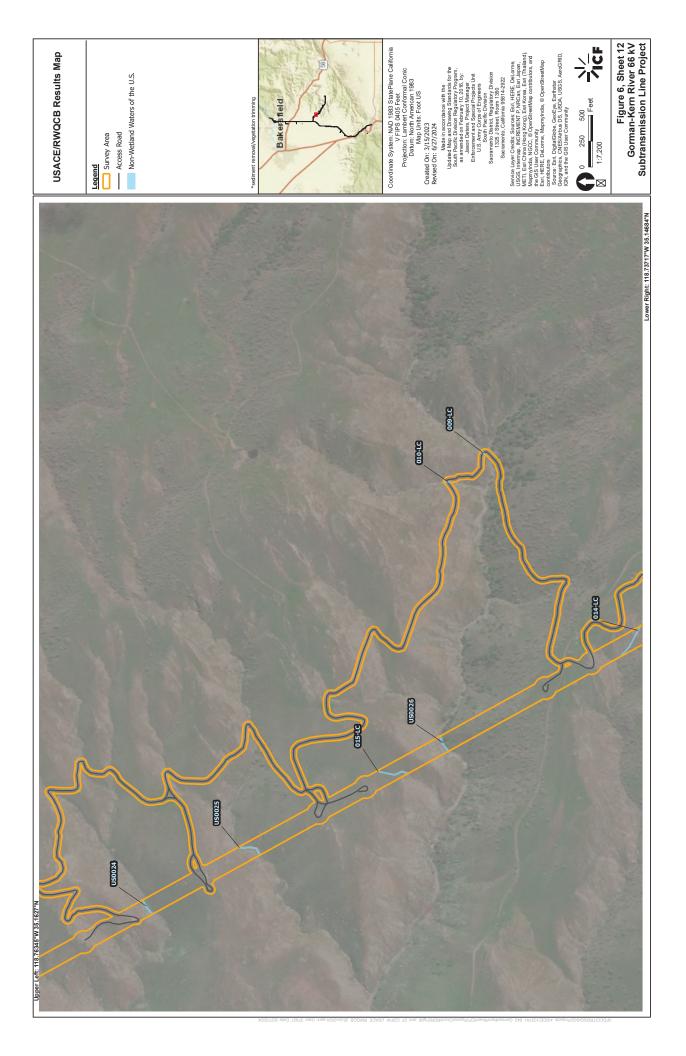


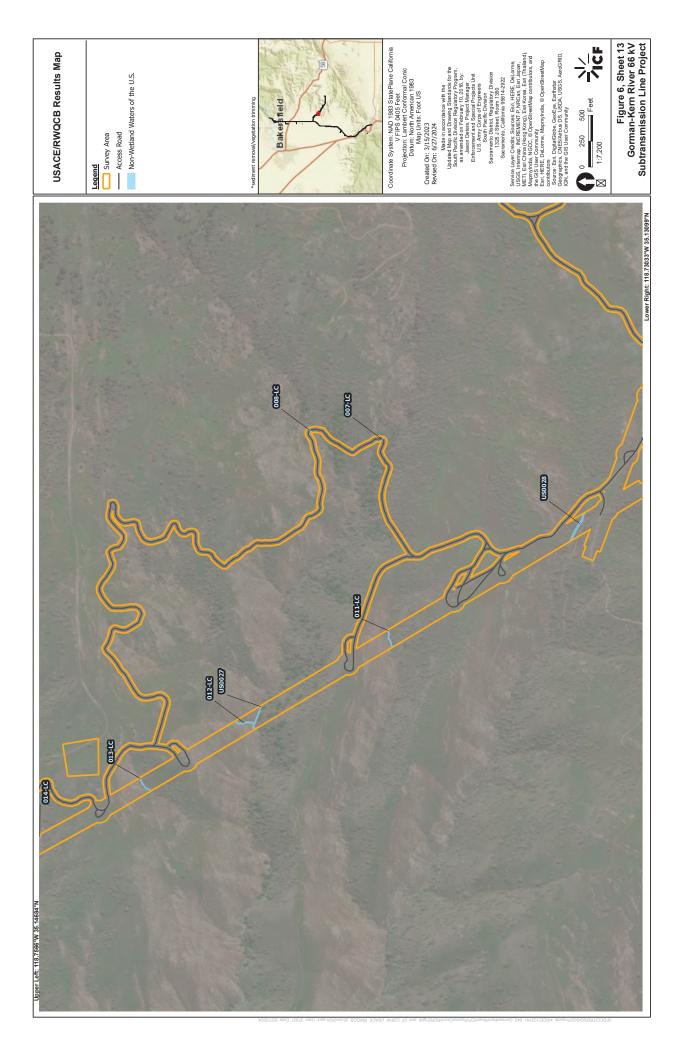


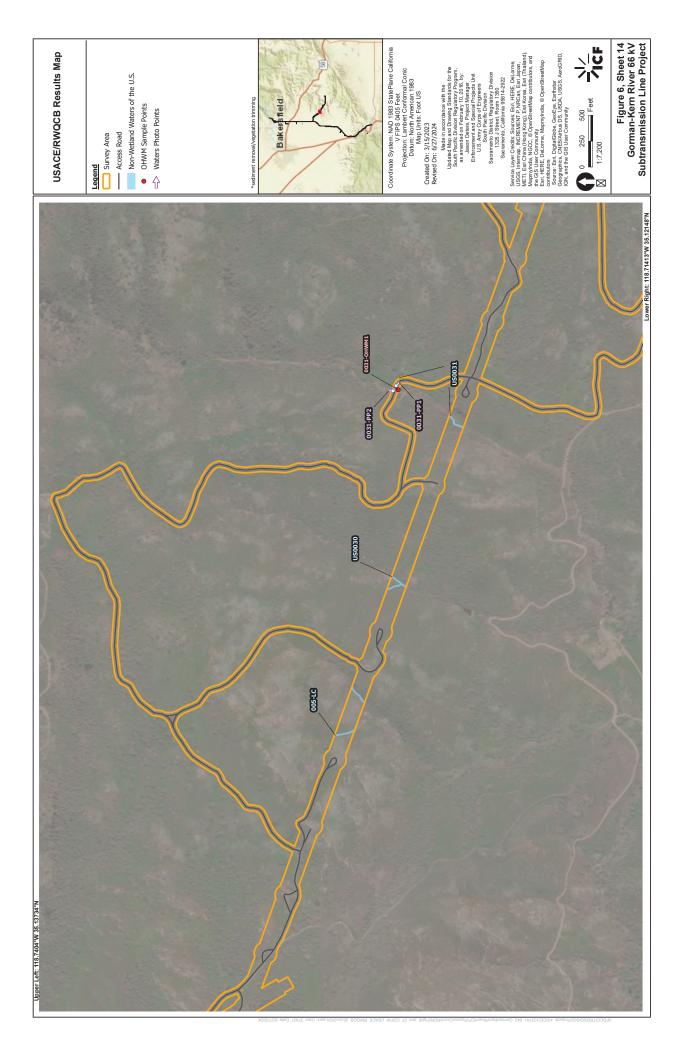


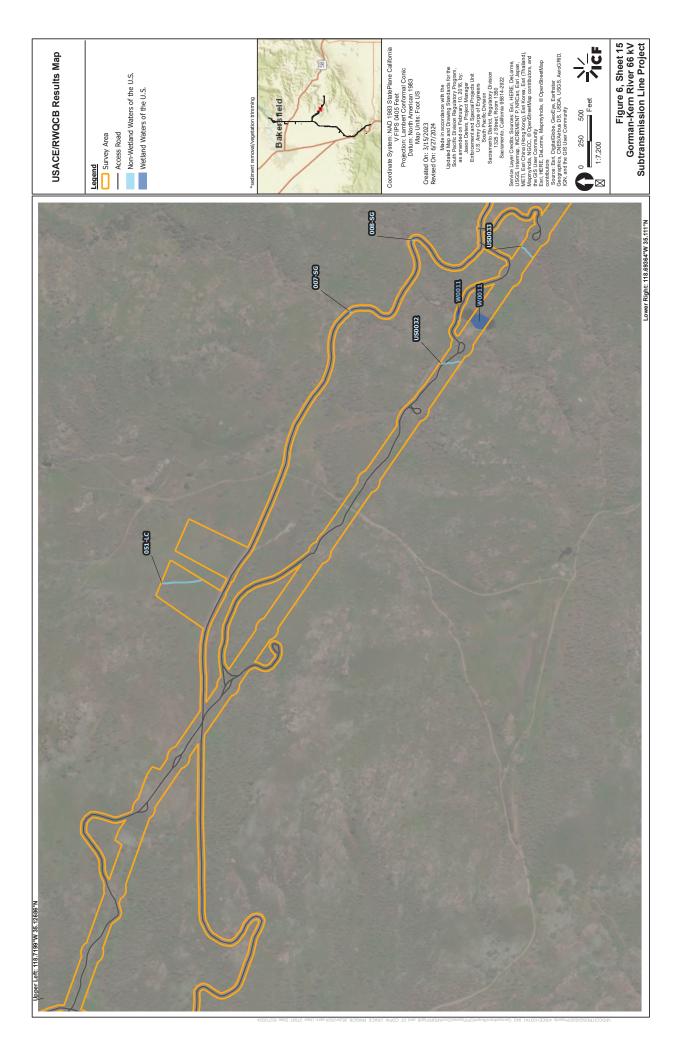


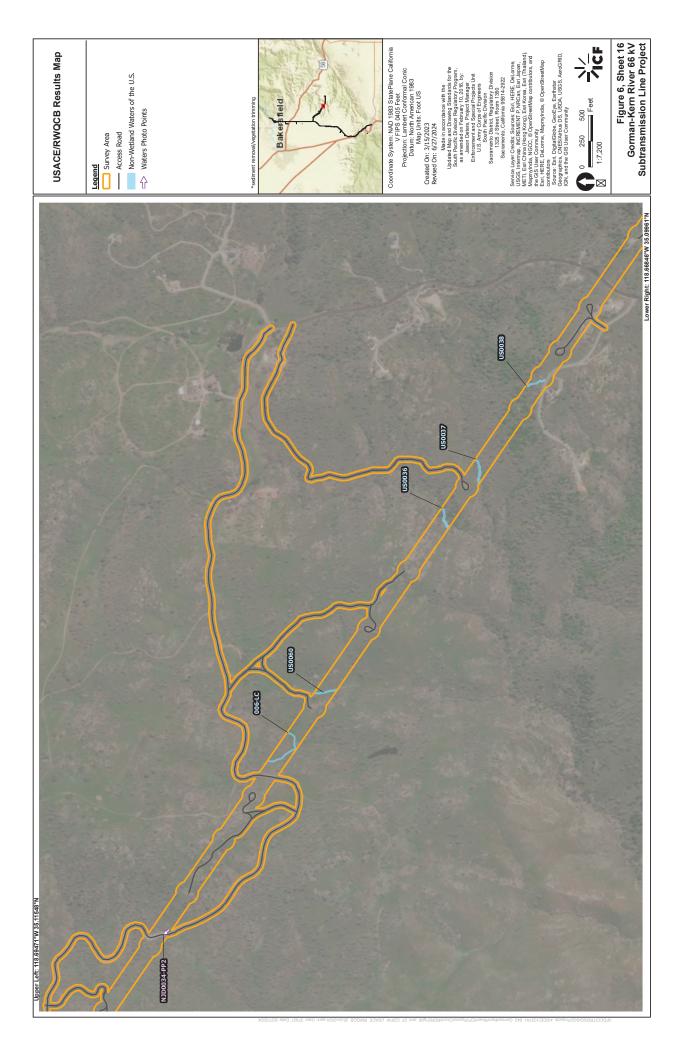


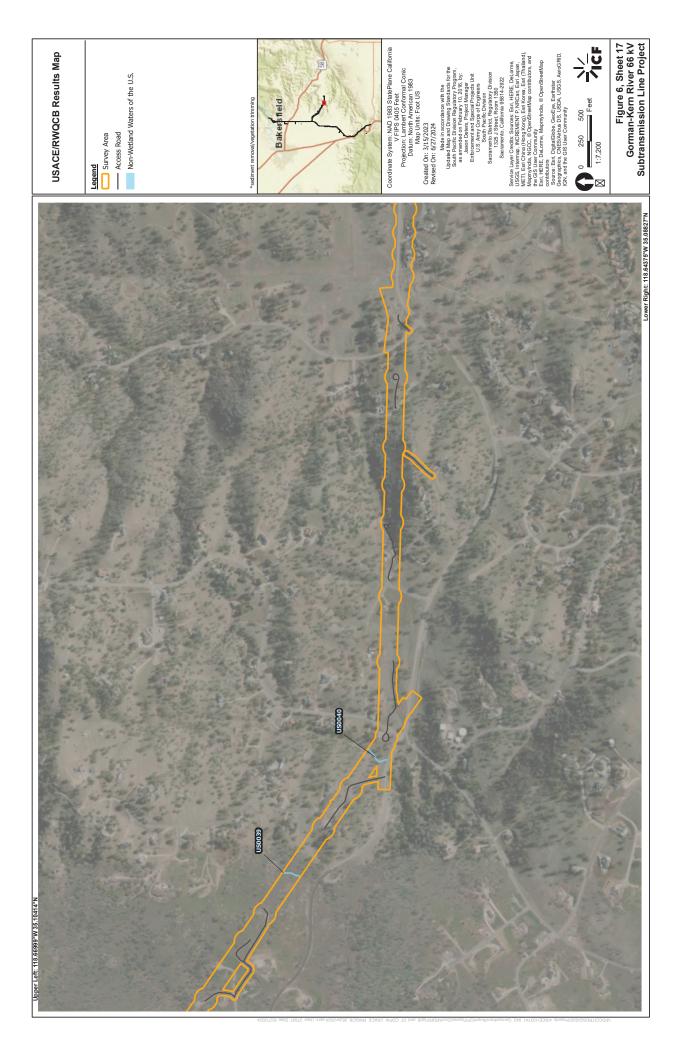


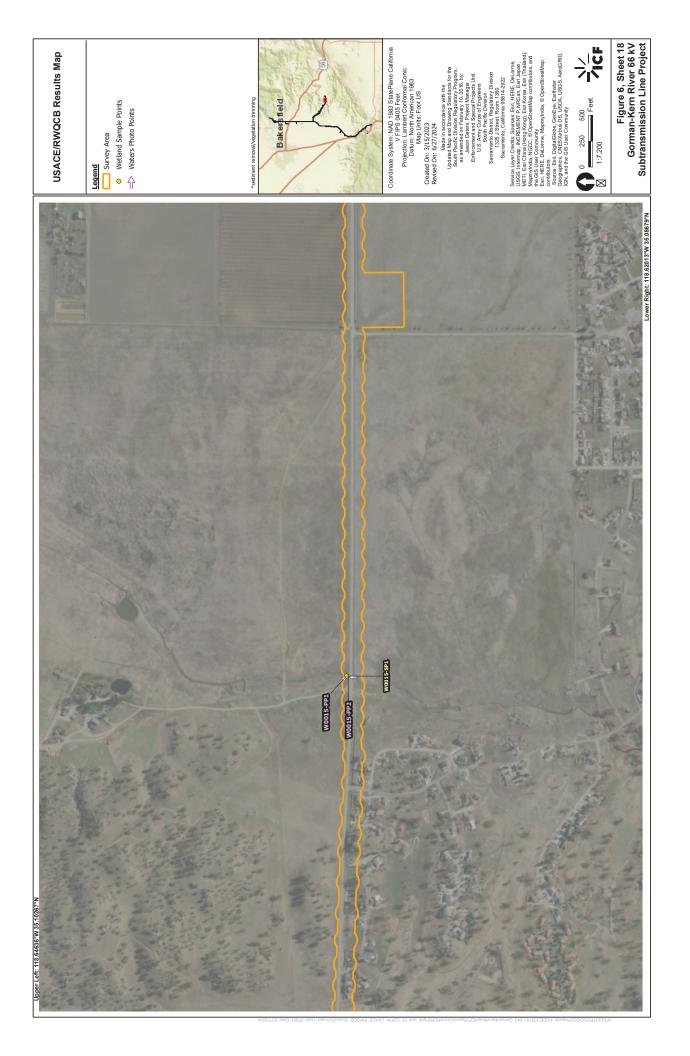


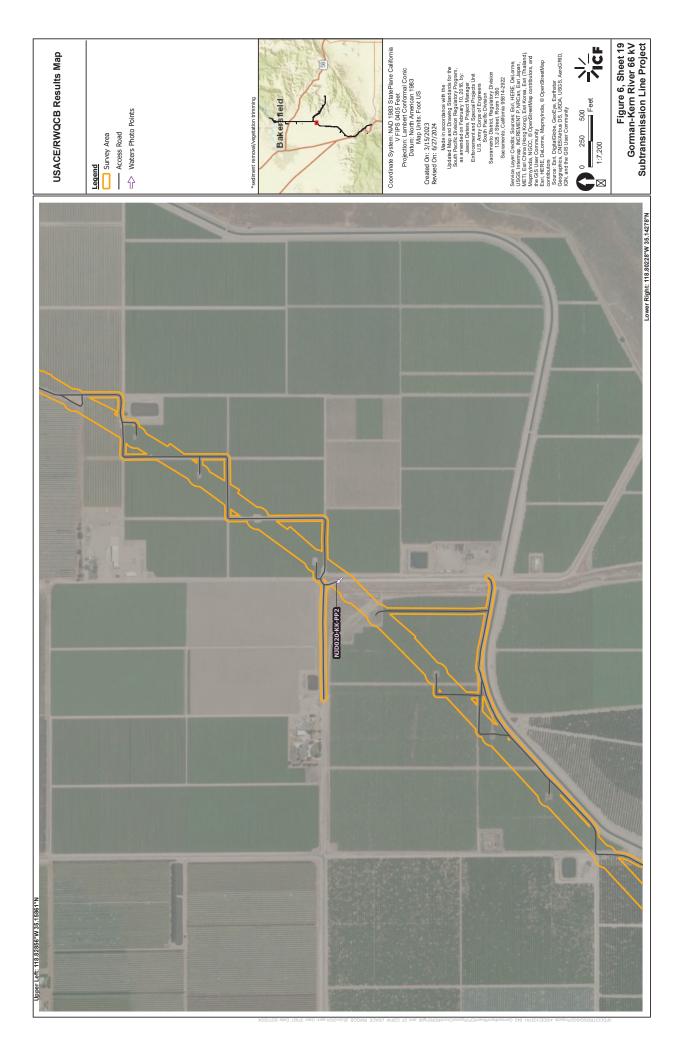


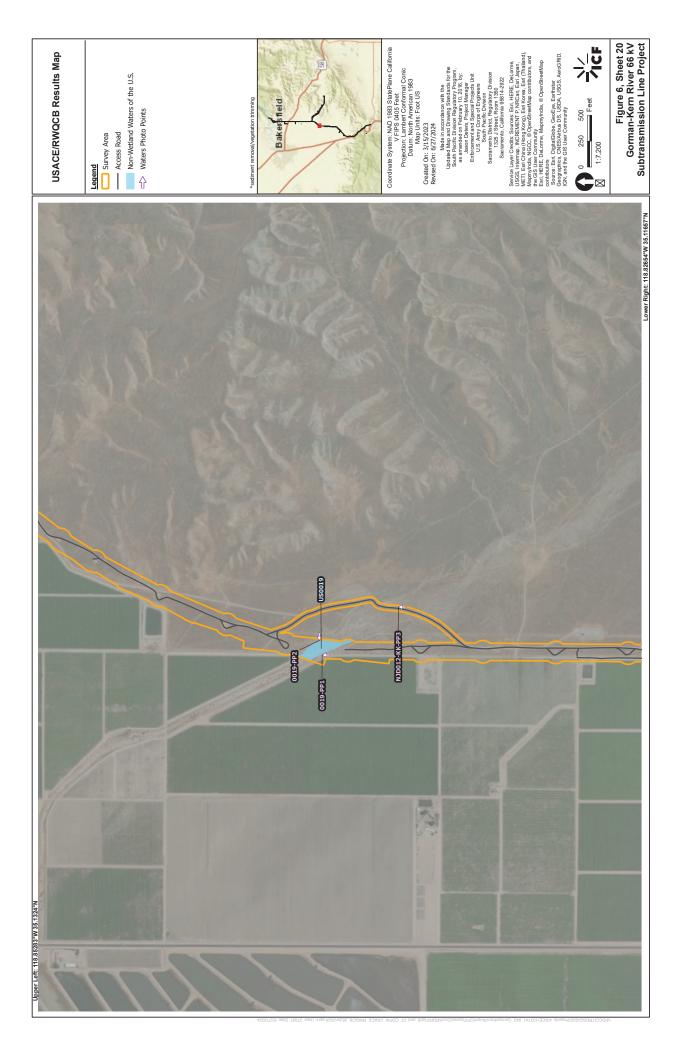






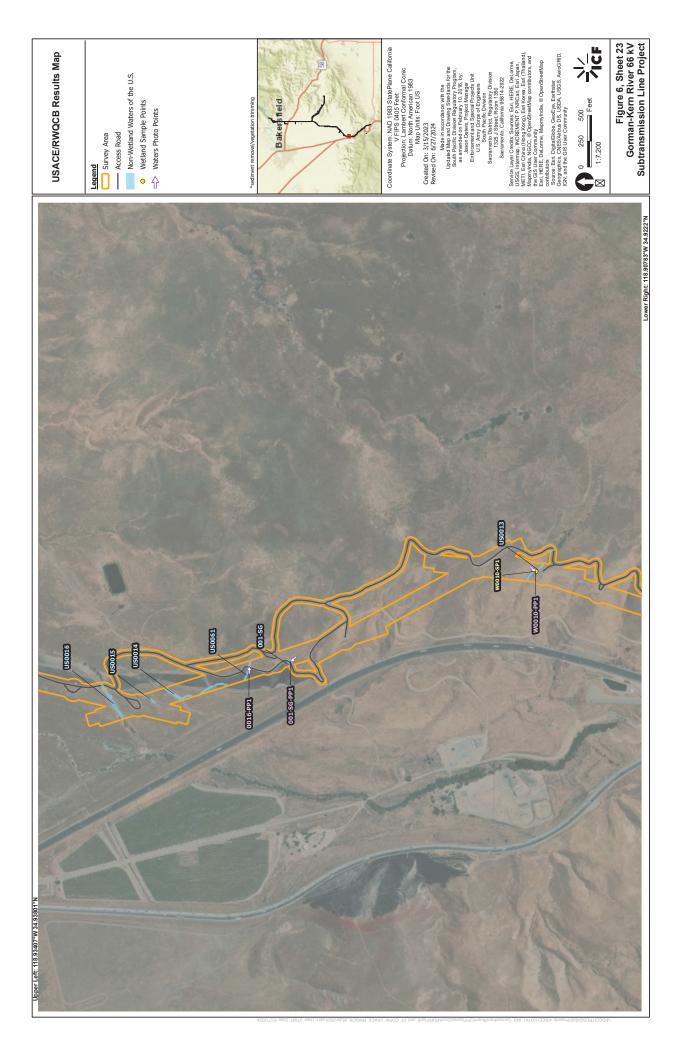


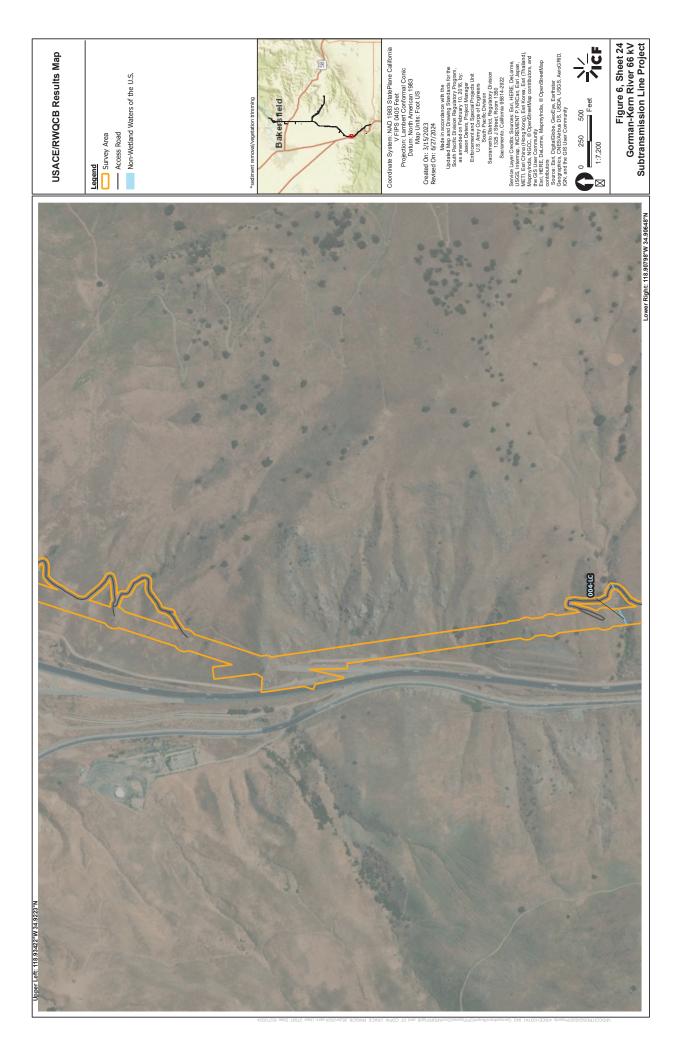




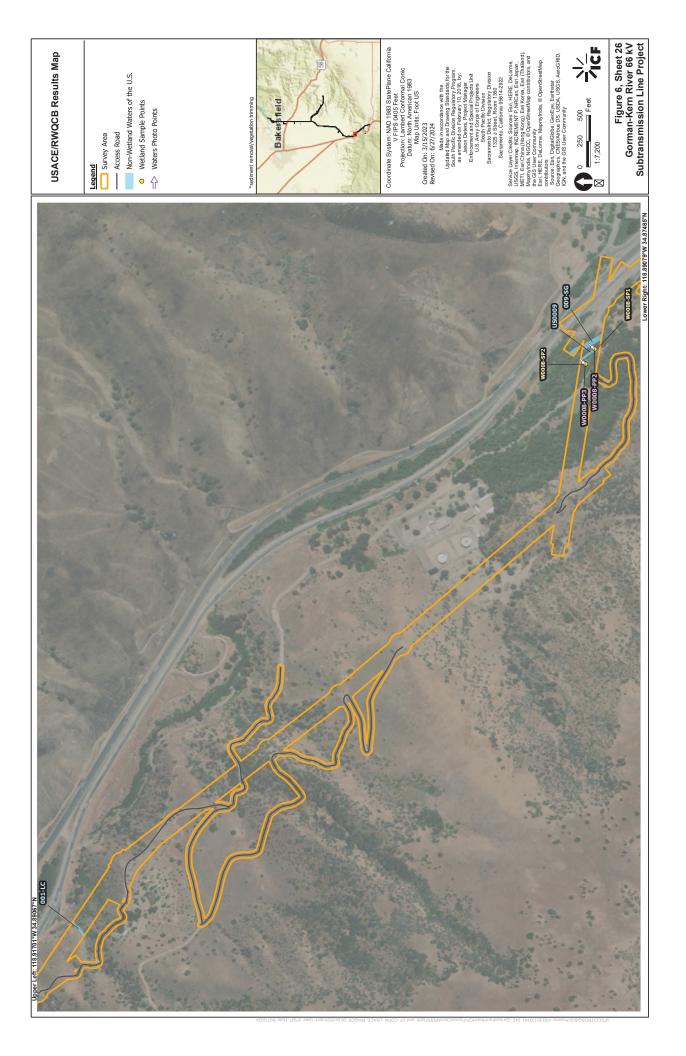


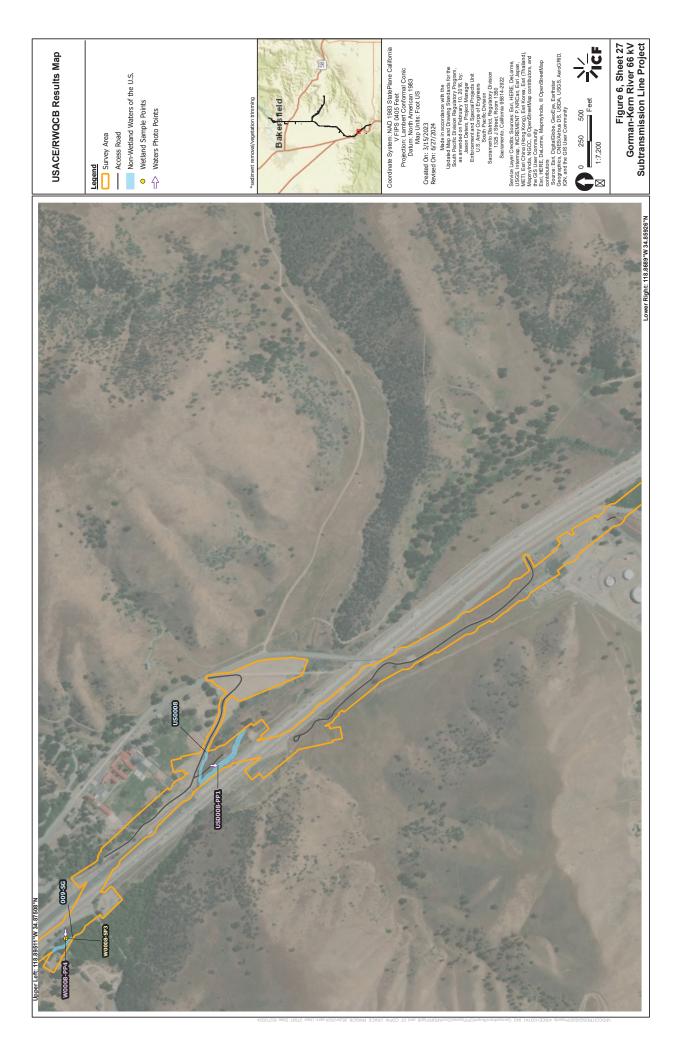


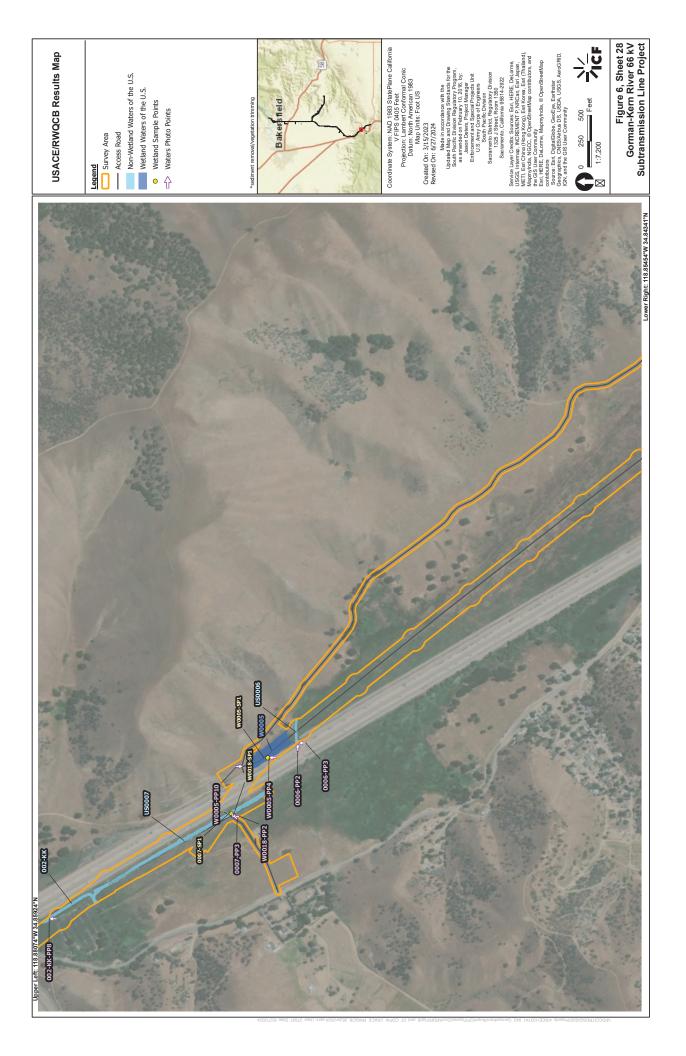


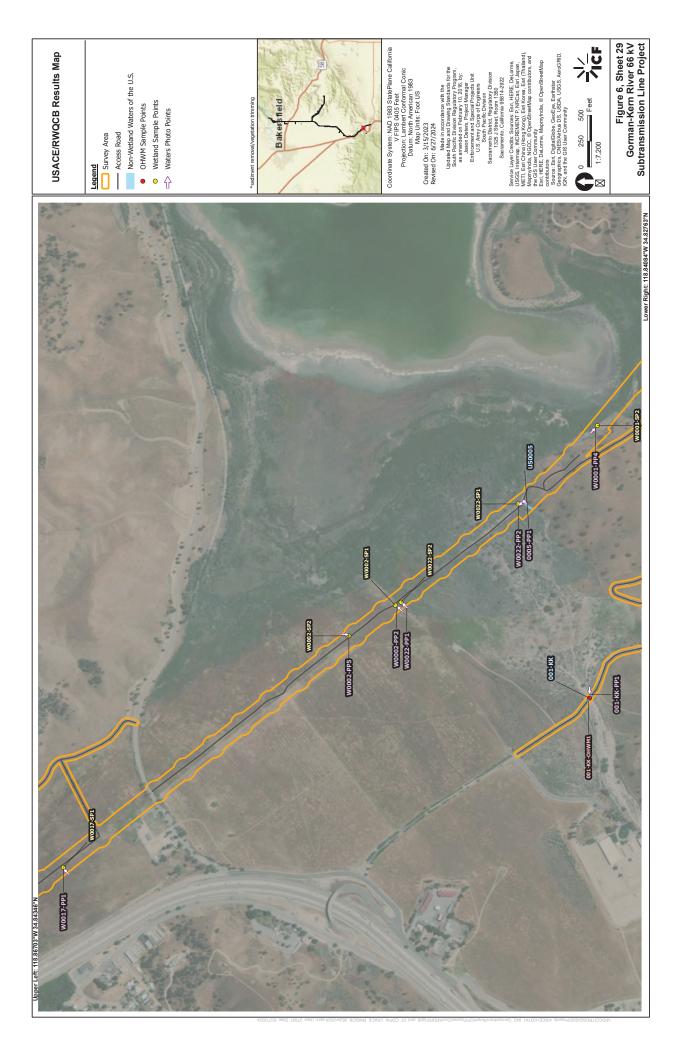


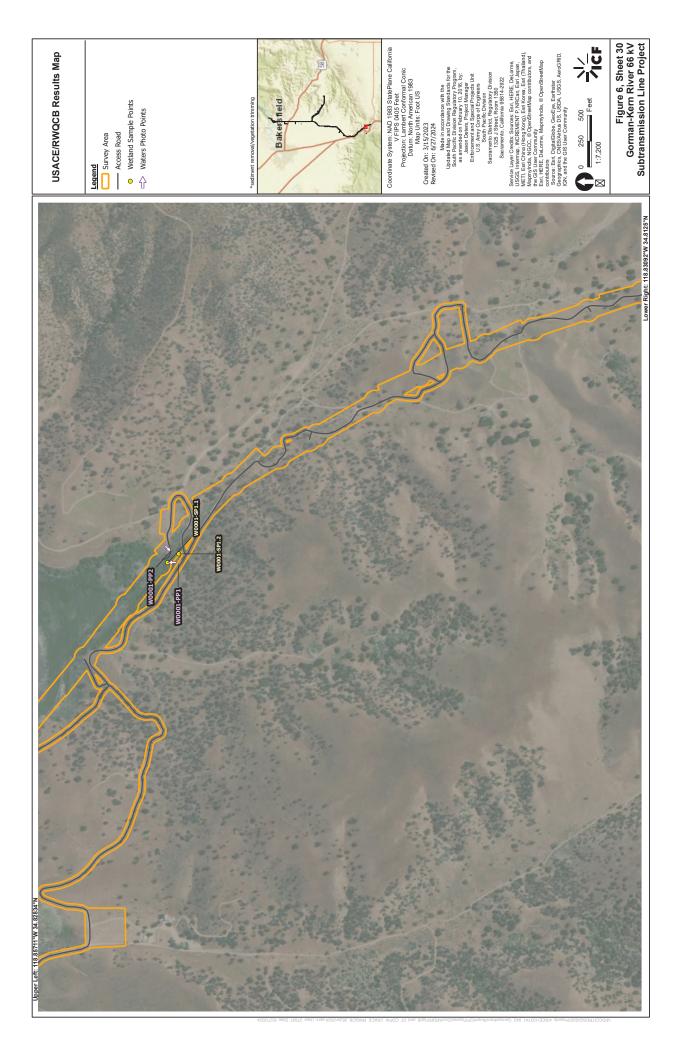


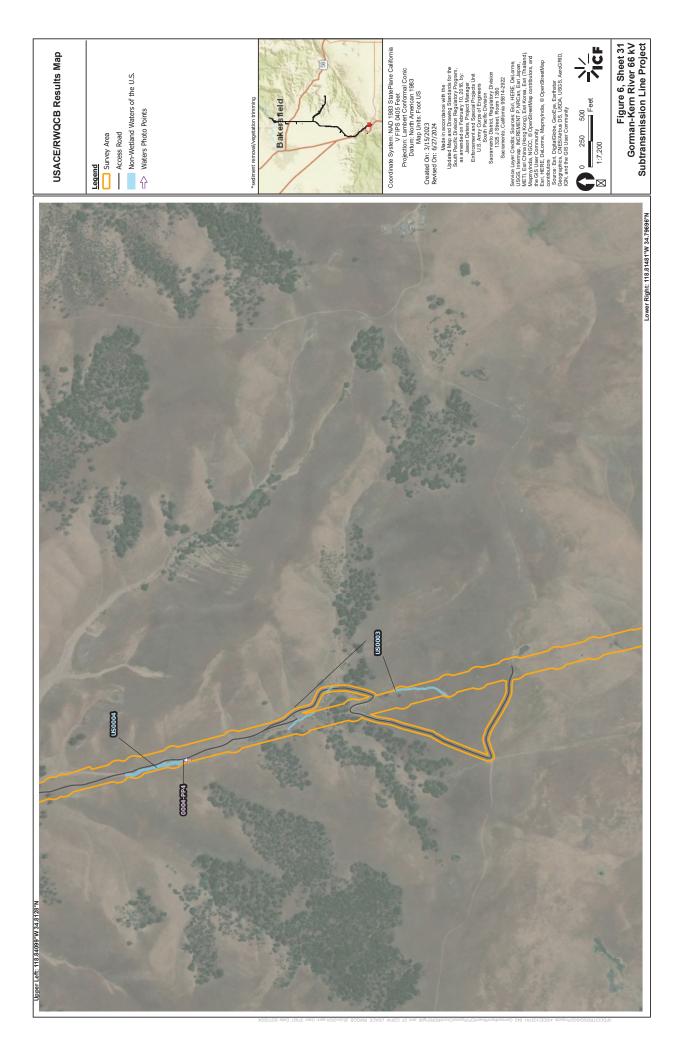


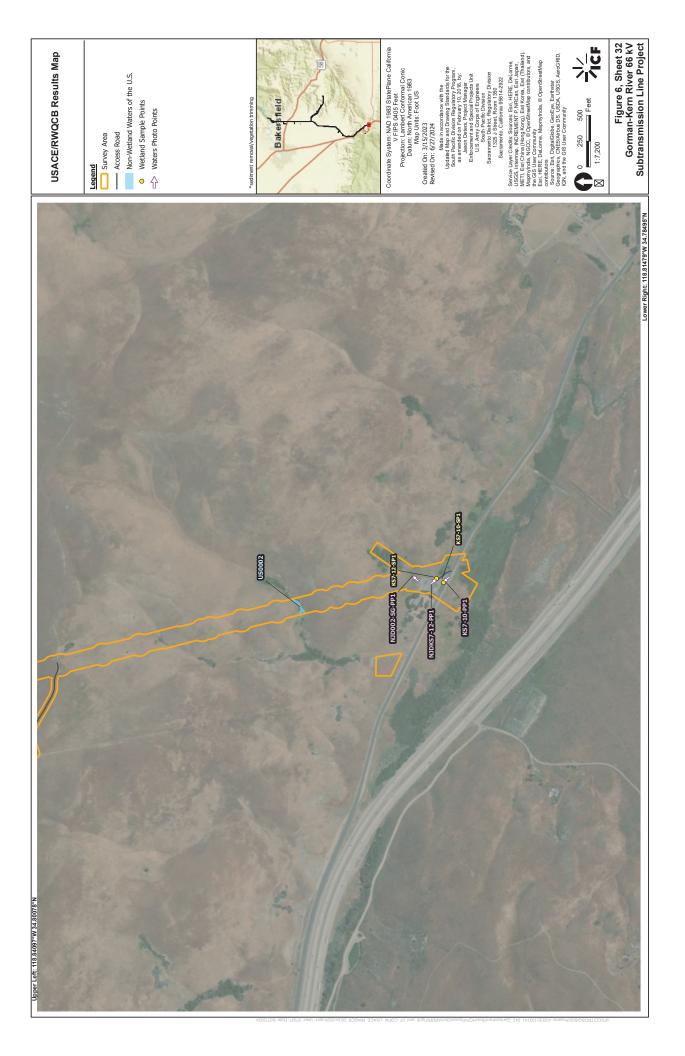


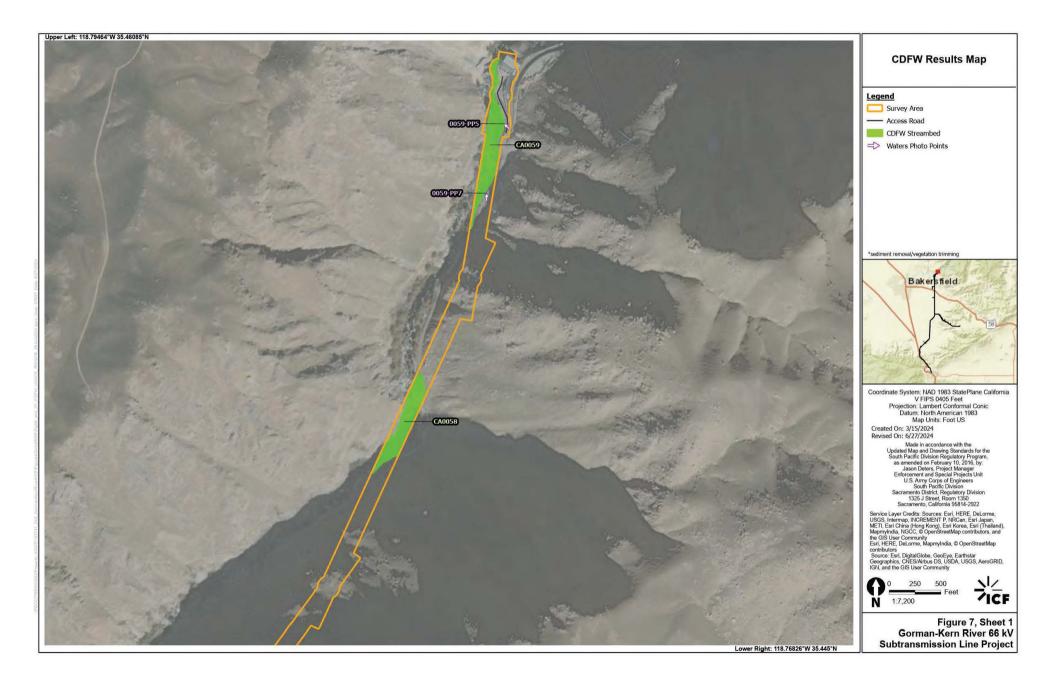


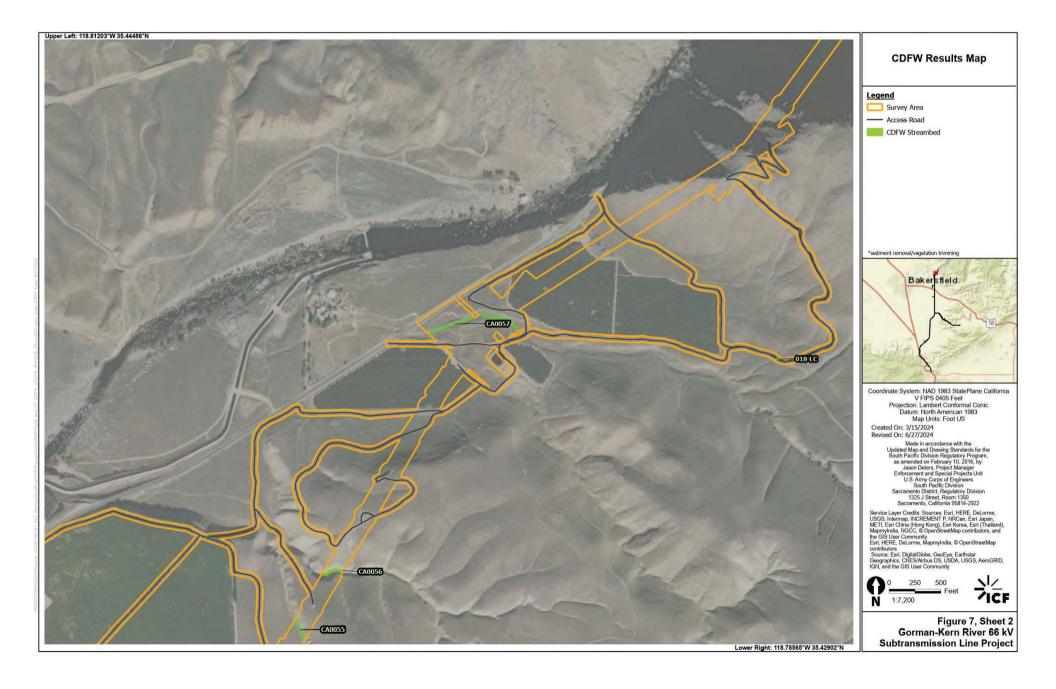




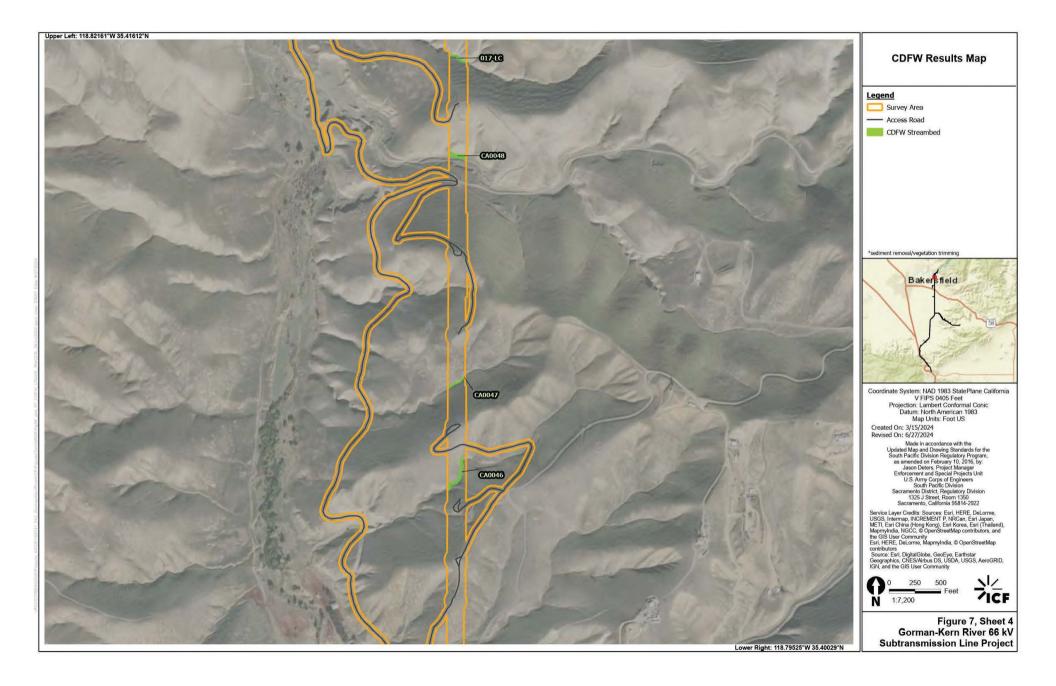














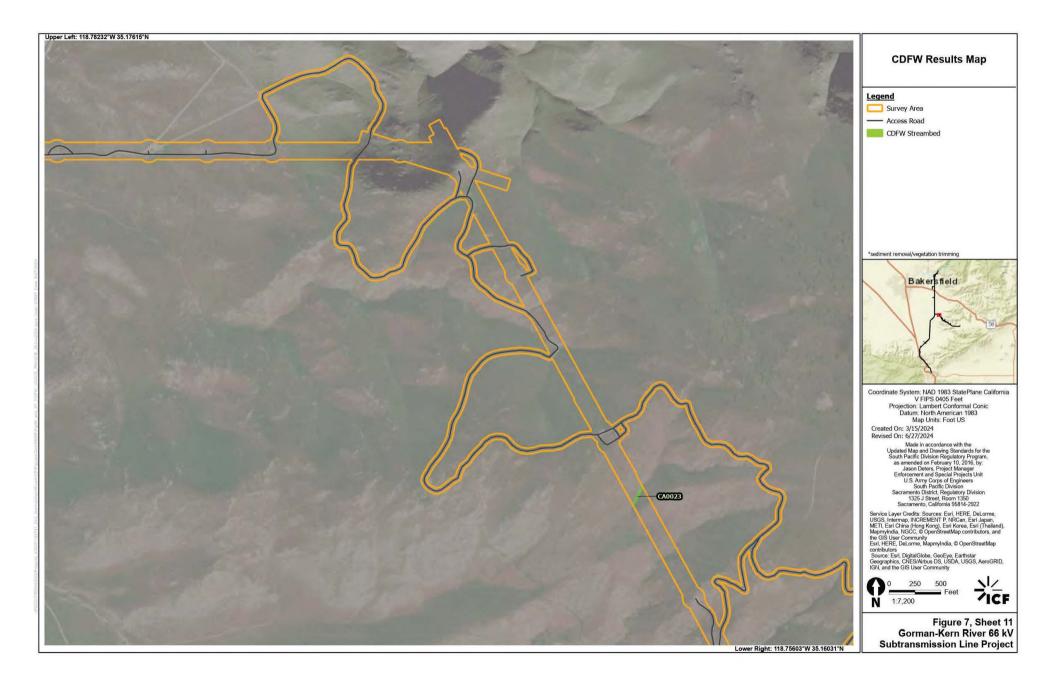




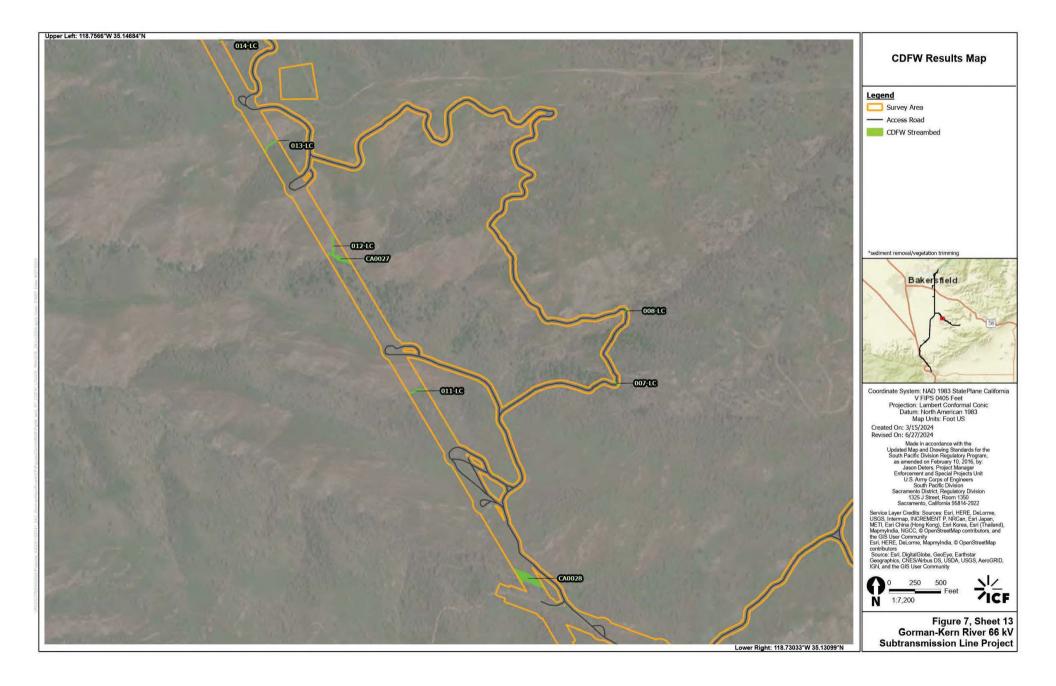




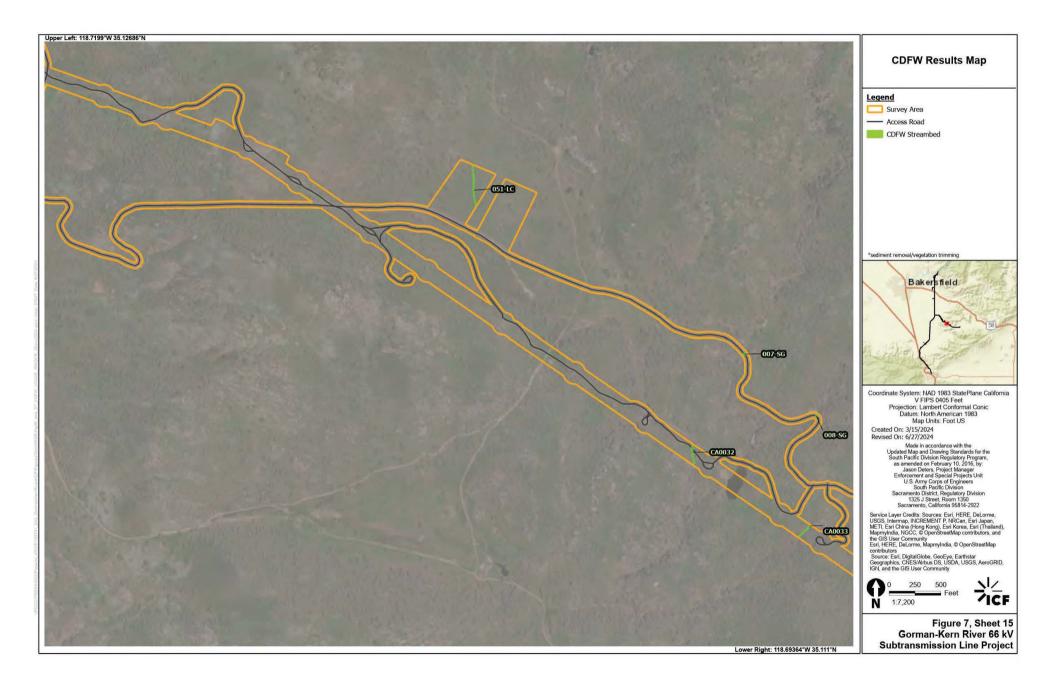


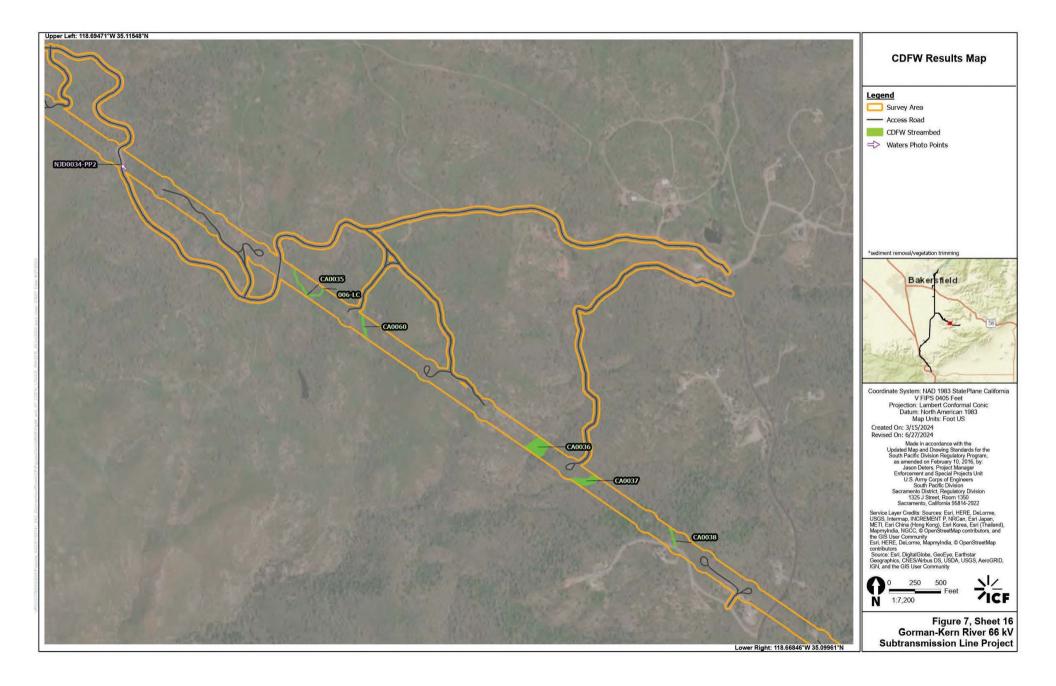


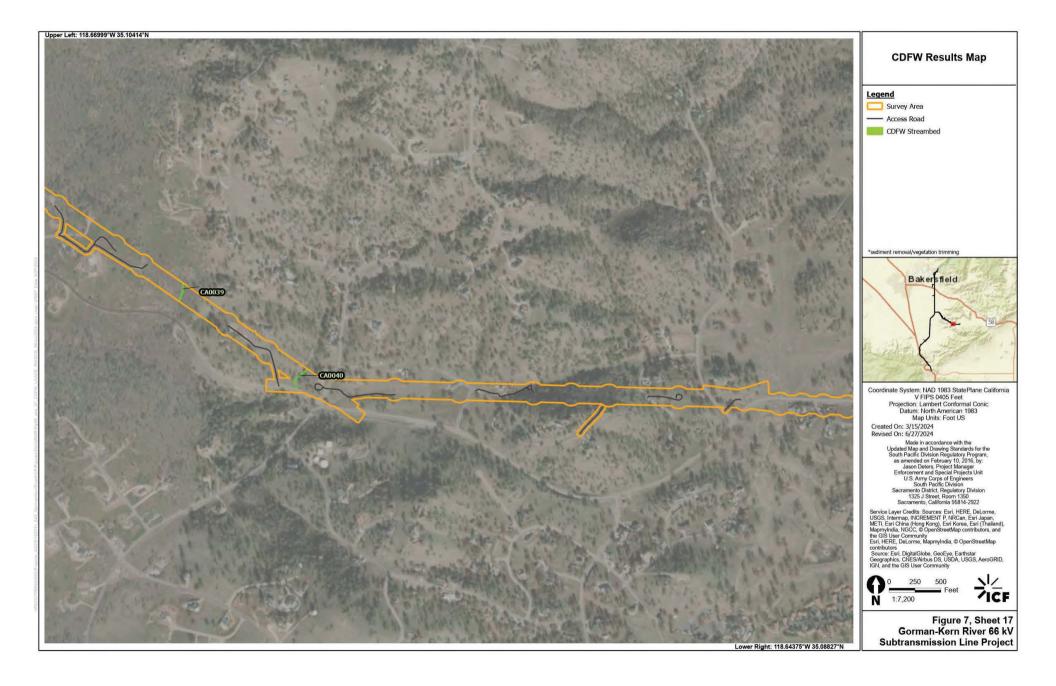








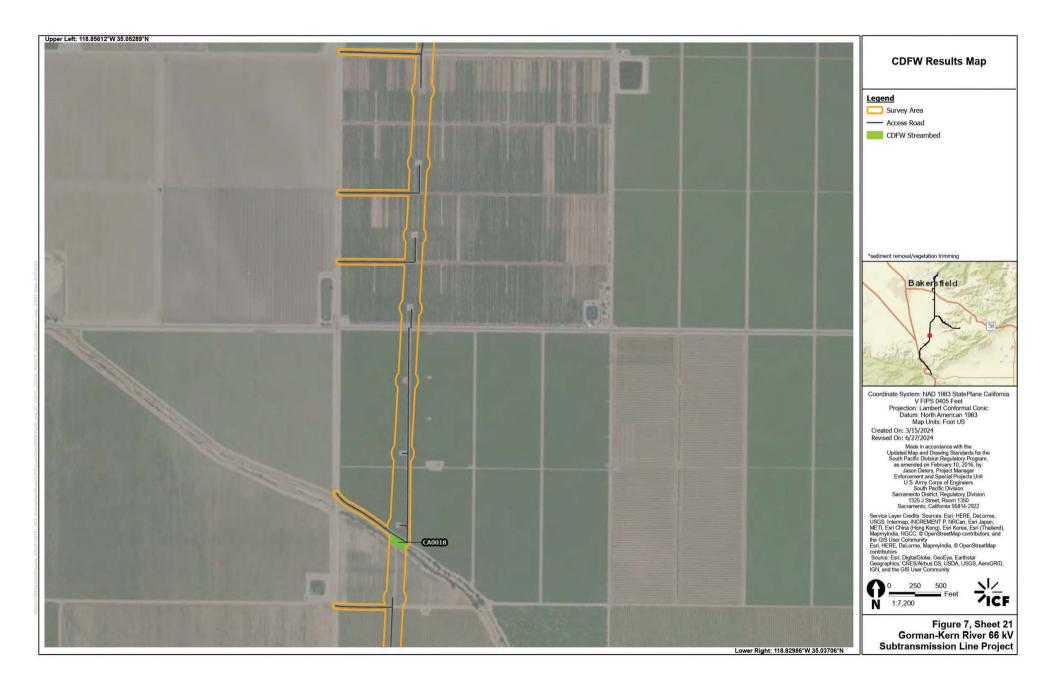




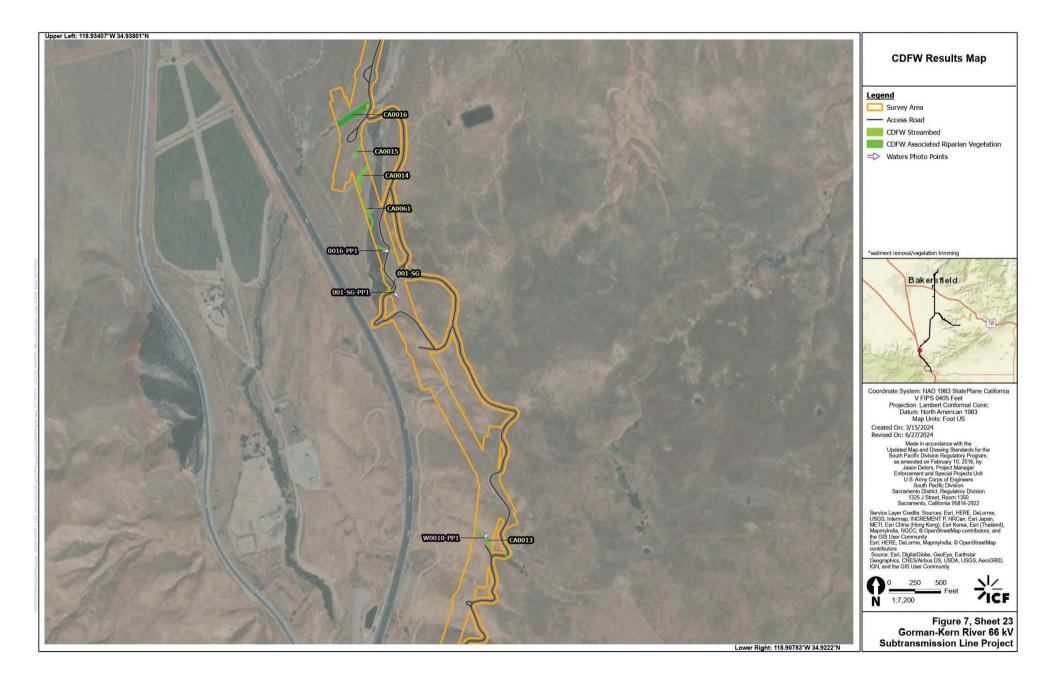






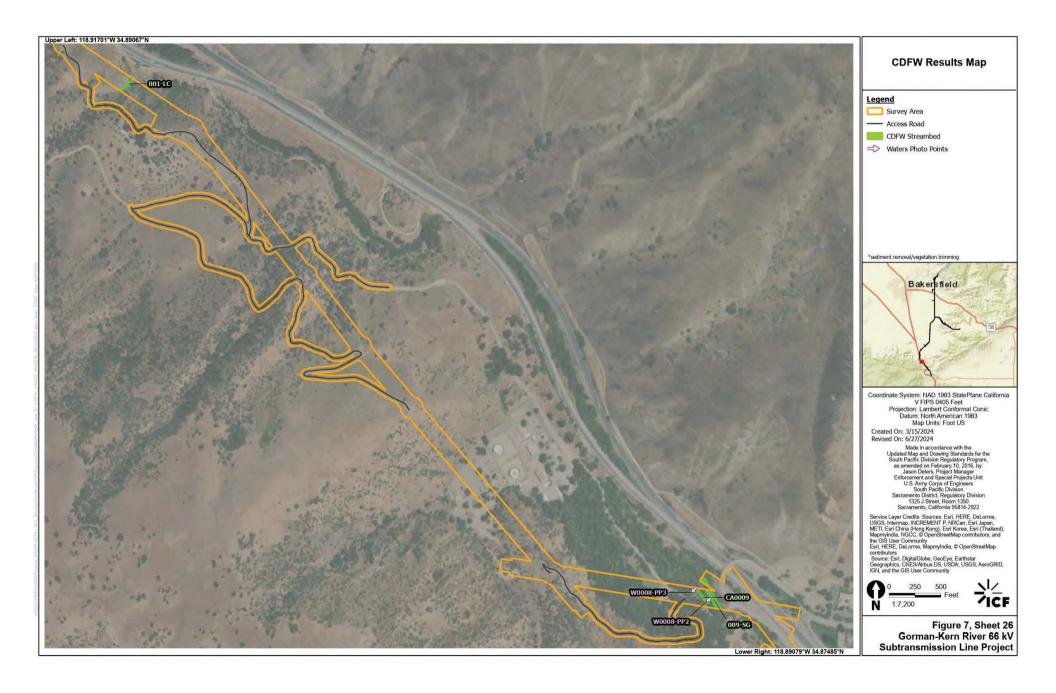
















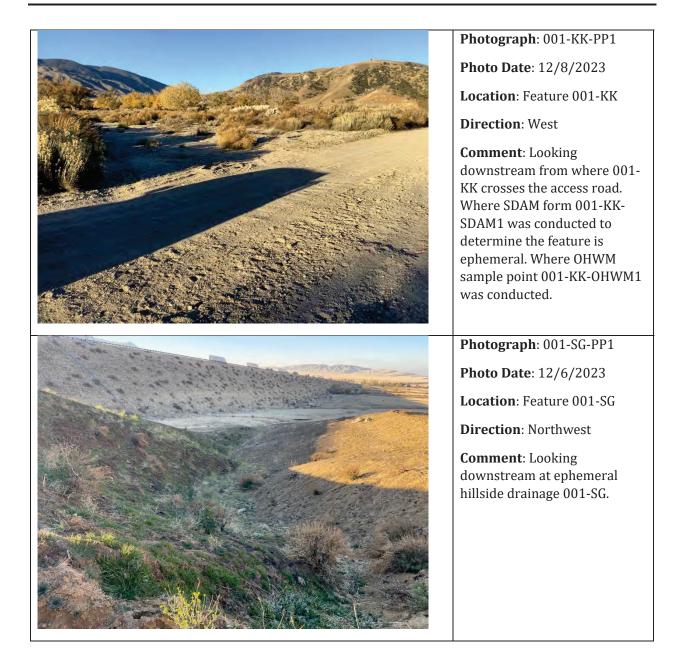








Appendix B Site Photographs



and the	Photograph: 002-KK-PP8
A Star A Star A Star A Star	Photo Date : 12/6/2023
	Location: Feature 002-KK
	Direction: North
	Comment : Looking downstream at intermittent stream 002-KK. The feature exhibited a predominantly unvegetated channel bed with <i>Conium maculatum</i> (FACW), <i>Lepidium latifolium</i> (FAC), and <i>Populus fremontii</i> (FACW) dominating the banks.
	Photograph: 0004-PP4
	Photo Date : 12/6/2023
	Location: Feature 0004
	Direction: North
	Comment : Looking downstream where ephemeral drainage 0004 flows parallel to the access road.

<image/>	Photograph: 0005-PP1 Photo Date: 12/6/2023 Location: Feature 0005 Direction: Northeast Comment: Looking downstream at ephemeral drainage 0005.
<image/>	Photograph: 0006-PP2 Photo Date: 12/8/2023 Location: Feature 006 Direction: East Comment: Looking upstream at ephemeral drainage 0006 from the downstream end where the feature flows under I-5 via a box culvert.

TRUCKS	Photograph: 0006-PP3
	Photo Date : 12/8/2023
	Location: Feature 006
	Direction: North
	Comment : Looking across ephemeral drainage 0006 from the downstream end where the feature flows under I-5 via a box culvert.
	Photograph: 0007-PP3
A A A A A A A A A A A A A A A A A A A	Photo Date : 12/6/2023
	Location: Feature 0007
	Direction: Northeast
	Comment : Looking at wetland sample point 0007-SP1 within intermittent drainage 0007. Channel bed was dominated by <i>Schoenoplectus americanus</i> (OBL).

Photograph: 0008-PP1 Photo Date: 12/8/2023 Location: Feature 0008 Direction: South Comment: Looking downstream at ephemeral drainage 0008 where it flows along I-5.
Photograph: 0016-PP1 Photo Date: 12/6/2023 Location: Feature 0061 Direction: East Comment: Looking upstream at water flowing in intermittent drainage 0061 from where the feature crosses the access road.

and the second second	Photograph: 0019-PP1
T.F.	Photo Date : 12/7/2023
	Location: Feature 0019
	Direction: North
	Comment : Looking across ephemeral wash 0019 where the feature crosses the access road.
	Photograph: 0019-PP2
	Photo Date : 12/7/2023
	Location: Feature 0019
Contraction of the second second second	Direction: West
	Comment : Looking downstream at ephemeral wash 0019 from the top of bank. Where SDAM form 0019- SDAM was conducted to determine the feature is ephemeral.

Photograph: 0031-PP1
Photo Date : 12/7/2023
Location: Feature 0031
Direction: Northwest
Comment : Looking downstream from where ephemeral drainage 0031 crosses the access road. Where SDAM form 0031-SDAM1 was conducted to determine the feature is ephemeral. Where OHWM sample point 0031- OHWM1 was conducted.
Photograph: 0031-PP2
Photo Date : 12/7/2023
Location: Feature 0031
Direction: South
Comment : Looking upstream from where ephemeral
drainage 0031 crosses the
access road. Where SDAM
0
access road. Where SDAM form 0031-SDAM1 was conducted to determine the feature is ephemeral. Where
access road. Where SDAM form 0031-SDAM1 was conducted to determine the

and the second	Photograph: 0042-PP1
and the second s	Photo Date : 12/7/2023
	Location: Feature 0042
	Direction: South
	Comment : Looking downstream at ephemeral feature 0042. Where OHWM sample point 0042-OHWM1 was conducted.
the second s	Photograph: 0042-PP4
	Photo Date : 12/7/2023
	Location: Feature 0042
EUC I T	Direction: North
	Comment : Looking upstream at ephemeral feature 0042. Where OHWM sample point 0042-OHWM1 was conducted.

	Photograph: 0043-PP1
	Photo Date : 12/7/2023
	Location: Non-JD Ditch
	Direction: North
	Comment : Looking upstream from culvert under access road at a non-jurisdictional constructed ditch. This feature appears to be regularly maintained and receives flows from the surrounding agriculture fields.
	Photograph: 0044-PP1
1. Change and the second se	Photo Date : 12/7/2023
A REAL COMPANY AND	Location: Feature 0044
	Location : Feature 0044 Direction : Southeast

the second se	Photograph: 0044-PP3
and the second second	Photo Date : 12/7/2023
	Location: Feature 0044
The second second	Direction: Southeast
	Comment : Looking upstream from the channel bed of 0044. Where SDAM form 0044- SDAM1 was conducted to determine the feature is intermittent. Where OHWM sample point 0044-OHWM1 was conducted.
	Photograph : 0059-PP5
	Photo Date: 12/5/2023
	Location: Feature 0059
	Direction: Northwest
	Comment : Looking upstream at perennial river 0059 (Kern
	River) from the top of bank.
	Where OHWM sample point 0059-OHWM1 was conducted.

<image/>	Photograph: 0059-PP7 Photo Date: 12/5/2023 Location: Feature 0059 Direction: North Comment: Looking upstream at perennial river 0059 (Kern River) from the top of bank. Where OHWM sample point 0059-OHWM1 was conducted.
	Photograph: 0068-PP2 Photo Date: 12/5/2023 Location: Feature 0068 Direction: Southwest Comment: Looking downstream at ephemeral drainage 0068 where a property fence line and access road crosses the feature.

<image/>	 Photograph: KS7-10-PP1 Photo Date: 12/6/2023 Location: Wetland Sample Point KS7-10-SP1 Direction: Northwest Comment: Looking at wetland sample point KS7-10-SP1. The area was determined to not contain wetlands and is not associated with a feature.
	 Photograph: NJD003-KK-PP1 Photo Date: 12/7/2023 Location: Non-jurisdictional agriculture ditch Direction: South Comment: Non-jurisdictional ditch associated with surrounding agriculture. The ditch is vegetated with no signs of flow.

	Photograph: NJD012-KK-PP3
	Photo Date : 12/7/2023
	Location: Access road
	Direction: North
	Comment : Access road through area that appeared to have signs of flow on aerial signature, but was confirmed to be completely in uplands with no signs of flow in the field.
	Photograph: NJD020-KK-PP2
State - Cicles	Photo Date : 12/7/2023
	Location : Non-jurisdictional basin
	Direction: Northwest
	Comment : Non-jurisdictional human-made basin associated with surrounding agriculture. Upland vegetation growing in the basin banks and in the bed.

	Photograph: NJD0034-PP2 Photo Date: 12/7/2023 Location: Non-jurisdictional erosional feature Direction: Northwest Comment: Non-jurisdictional erosional feature along hillside. Created from upland flows off access road.
<image/>	Photograph: NJDKS7-12-PP1 Photo Date: 12/6/2023 Location: Non-jurisdictional concrete ditch Direction: Southeast Comment: Non-jurisdictional concrete V-ditch along roadside.

<image/>	Photograph: W0001-PP1 Photo Date: 12/6/2023 Location: Wetland sample point W0001-SP1.1 Direction: North Comment: Looking at wetland sample point W0001-SP1.1. The area was determined to not contain wetlands and is not associated with a feature.
	 Photograph: W0001-PP2 Photo Date: 12/6/2023 Location: Wetland sample point W0001-SP1.2 Direction: Southwest Comment: Looking area representative of wetland sample point W0001-SP1.2. The area was determined to not contain wetlands and is not associated with a feature.

	Photograph: W0001-PP4
	Photo Date : 12/6/2023
	Location: Feature 0001
	Direction: Southeast
	Comment : Looking at wetland sample point W0001-SP2 taken within the upper banks of feature 0001 (Castaic Lake). The feature was determined to not contain wetlands.
	Photograph: W0002-PP2
	Photo Date : 1/16/2024
	Location : Wetland sample point W0002-SP1
V V	Direction: Northeast
	Comment : Looking at wetland sample point W0002-SP1. The area was determined to not contain wetlands and is not associated with a feature.

and in	Photograph: W0002-PP5
	Photo Date : 1/16/2024
	Location: Wetland sample
	point W0002-SP2
	Direction: South
	Comment : Looking at wetland sample point W0002-SP2. The area was determined to not contain wetlands and is not associated with a feature.
	Photograph: W0005-PP4
	Photo Date : 1/16/2024
	Location: Feature W0005
A MARTIN A A A A A A A A A A A A A A A A A A A	Direction: North
	Comment : Looking at wetland sample point W0005-SP1. The area was determined to be a wetland. Drainage patterns and wetland vegetation are visible in the photo.

1 1770-	Photograph: W0005-PP10
	Photo Date : 1/16/2024
	Location: Feature W0005
	Direction: South
	Comment : Looking across wetland feature W0005 from upland area outside the wetland boundary.
	Photograph: W0008-PP2
	Photo Date : 12/7/2023
	Location: Feature 0009
	Direction: Southwest
	Comment : Looking at wetland
NO TO THE OWNER AND	sample point W0008-SP1 within feature 0009. The area
	was determined to not contain wetlands.
	wettanus.

<image/>	Photograph: W0008-PP3 Photo Date: 12/7/2023 Location: Wetland sample point W0008-SP2 Direction: South Comment: Looking at wetland sample point W0008-SP2 associated with feature 0009. The area was determined to not contain wetlands.
<image/>	Photograph: W0008-PP4 Photo Date: 12/7/2023 Location: Feature 0009-SG Direction: Southwest Comment: Looking at wetland sample point W0008-SP3 associated with feature 0009- SG. The area was determined to not contain wetlands.

Photograph: W0010-PP1
Photo Date : 12/6/2023
Location: Wetland sample
point W0010-SP1
Direction: Southwest
Comment : Looking at wetland sample point W0010-SP1. The area was determined to not contain wetlands and is not associated with a feature.
Photograph: W0015-PP1
Photo Date : 12/7/2023
Location: Wetland sample
point W0015-SP1
Direction: Southeast
Comment : Looking at wetland sample point W0015-SP1. The area was determined to not contain wetlands and is not associated with a feature.

	Photograph: W0015-PP2
	Photo Date : 12/7/2023
	Location: Non-jurisdictional
	swale
TUH A TOUR	Direction: North
A A A A A A A A A A A A A A A A A A A	Comment: Looking at non-
	jurisdictional swale across a
	field from the access road. The swale was vegetated and did
	not contain signs of flow.
	Photograph: W0017-PP1
	Photo Date : 1/16/2024
	Photo Date : 1/16/2024
	Photo Date : 1/16/2024 Location : Wetland sample
	 Photo Date: 1/16/2024 Location: Wetland sample point W0017-SP1 Direction: Northeast Comment: Looking at wetland
	 Photo Date: 1/16/2024 Location: Wetland sample point W0017-SP1 Direction: Northeast Comment: Looking at wetland sample point W0017-SP1. The
	 Photo Date: 1/16/2024 Location: Wetland sample point W0017-SP1 Direction: Northeast Comment: Looking at wetland sample point W0017-SP1. The area was determined to not
	 Photo Date: 1/16/2024 Location: Wetland sample point W0017-SP1 Direction: Northeast Comment: Looking at wetland sample point W0017-SP1. The
	 Photo Date: 1/16/2024 Location: Wetland sample point W0017-SP1 Direction: Northeast Comment: Looking at wetland sample point W0017-SP1. The area was determined to not contain wetlands and is not
	 Photo Date: 1/16/2024 Location: Wetland sample point W0017-SP1 Direction: Northeast Comment: Looking at wetland sample point W0017-SP1. The area was determined to not contain wetlands and is not
	 Photo Date: 1/16/2024 Location: Wetland sample point W0017-SP1 Direction: Northeast Comment: Looking at wetland sample point W0017-SP1. The area was determined to not contain wetlands and is not

	 Photograph: W0018-PP2 Photo Date: 12/6/2023 Location: Wetland sample point W0018-SP1 Direction: North
	Comment : Looking area representative of wetland sample point W0017-SP1 associated with feature 0007. The area was determined to not contain wetlands.
-	Photograph: W0022-PP1
	Photo Date : 1/16/2024 Location : Wetland sample point W0022-SP2
	Direction: Northeast
	Comment : Looking at wetland sample point W0022-SP2. The area was determined to not contain wetlands and is not associated with a feature.



Photograph: W0022-PP2

Photo Date: 12/6/2024

Location: Wetland sample point W0022-SP1

Direction: Northwest

Comment: Looking at area representative of wetland sample point W0022-SP2 associated with feature 0005. The area was determined to not contain wetlands and is not associated with a feature.

Project: SCE Giorman Kern Project Number: 103741.0.046.01 Stream: OOI - KE Investigator(s): K.Klinefelter, A Fowler	Date: 12/8/23 Time: 1305 Town: Leber State: CA Photo begin file#: Photo end file#: OOI-KK-PPI DOI-KK-PPI
Y 🗹 / N 🗌 Do normal circumstances exist on the site	2 Location Details: Road crossing along Crane Carryon Rd
$Y \square / N \checkmark$ Is the site significantly disturbed?	Projection: Lat / Long Datum: Was-84 Coordinates: 34, 828902, -118, 856792
Potential anthropogenic influences on the channel sy A dirt read crosses through the feature with ToB is not defined in that area	in the survey area and the other and
Brief site description: Alluvial wash surrounded by Rubber Rabbitbu appears to connect with feature 0005 down	ish scrub flowing frow SW to NE and netream.
Vegetation maps Rest Soils maps Mos Rainfall/precipitation maps Gage	mber:
	c Floodplain Units
Active Floodplai	OHWM Paleo Channel
Procedure for identifying and characterizing the flo 1. Walk the channel and floodplain within the study are	odplain units to assist in identifying the OHWM: a to get an impression of the geomorphology and el. Draw the cross section and label the floodplain units.

Inches (in)	Millimeters (mm)	Wentworth size class
10.08 — 2.56 — 0.157 —	256 64 4	Boulder Cobble 6
0.079	2.00 1.00 0.50 0.25 0.125	Granule Very coarse sand Coarse sand Medium sand Fine sand Very fine sand
1/8 0.0025 1/16 0.0012 1/32 0.00061 1/64 0.00031 1/126 0.00015	0.0625 0.031 0.0156 0.0078 0.0039	Coarse silt Medium silt Fine silt Very fine silt Clay

ross section drawing:	001-kk-oHwm1 Date: 12/8/2023 Time: 1305
T.E	71
Low Flow	Low Plant How
	· · · · ·
OHWM	
GPS point: 34.828902, -118.856792	
Indicators:	
Change in average sediment texture	Break in bank slope
Change in vegetation species Change in vegetation cover	Other: <u>sediment deposition</u>
Comments:	
the second s	1
. Larger cobbles settled out around OHWM a	
· Larger cobbles settled out around OHWM a · Established Rubber Rabb. Housh Scrub Su	
0	
0	
· Established Rubber Rabb. Housh Jerub tu	rrounding feature above ToB
0	
· Established Rubber Rabb. Housh Jerub tu	rrounding feature above ToB
• Established Rubber Rabb. Housh Jones Ton Floodplain unit: I Low-Flow Channel GPS point: 34.828902, -118.856792	rrounding feature above ToB
• Established Rubber Rabb. Housh Joneb Ton Floodplain unit: I Low-Flow Channel GPS point: 34.525902, -(13.556792 Characteristics of the floodplain unit: Average sediment texture: Medium	Active Floodplain Low Terrace
• Established Rubber Rabb. Hush Jowb Ton Floodplain unit: D Low-Flow Channel GPS point: 34.828902, -118.856792 Characteristics of the floodplain unit: Average sediment texture: <u>Med.um</u> Total veg cover: 0 % Tree: %	rrounding feature above ToB
• Established Rubber Rabb. Losh Joneb Ton Floodplain unit: D Low-Flow Channel GPS point: 34.828902, -118.856792 Characteristics of the floodplain unit: Average sediment texture: <u>Med. on</u> Total veg cover: <u>0</u> % Tree: <u>%</u> Community successional stage:	Active Floodplain Low Terrace Shrub:% Herb:%
• Established Rubber Rabb. Hush Jowb Ton Floodplain unit: D Low-Flow Channel GPS point: 34.828902, -118.856792 Characteristics of the floodplain unit: Average sediment texture: <u>Med.um</u> Total veg cover: 0 % Tree: %	Active Floodplain Low Terrace
• Established Rubber Rabb. Losh Jone To Floodplain unit: D Low-Flow Channel GPS point: 34.828902, -118.856792 Characteristics of the floodplain unit: Average sediment texture: <u>Med.um</u> Total veg cover: <u>0</u> % Tree: <u>%</u> Community successional stage: MA Early (herbaceous & seedlings)	Active Floodplain Low Terrace Shrub:% Herb:% Mid (herbaceous, shrubs, saplings)
• Established Rubber Rabb. Losh Jone To Flood plain unit: I Low-Flow Channel GPS point: 34.528902, -(13.556792 Characteristics of the flood plain unit: Average sediment texture: <u>Med.um</u> Total veg cover: <u>0</u> % Tree: % Community successional stage: J NA	Active Floodplain Low Terrace Shrub:% Herb:% Mid (herbaceous, shrubs, saplings)
 Established Rubber Rabb. Losh Scrub Sou Floodplain unit: Low-Flow Channel GPS point: <u>34.828902, -(12.856792</u> Characteristics of the floodplain unit: Average sediment texture: <u>Med.um</u> Total veg cover: <u>0</u> % Tree: <u>%</u> Community successional stage: MA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples 	Active Floodplain Low Terrace Shrub:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief
• Established Rubber Rabb. Losh Jone for the flood plain unit: I Low-Flow Channel GPS point: 34.528902, -113.556742 Characteristics of the flood plain unit: Average sediment texture: <u>Med.um</u> Total veg cover: <u>0</u> % Tree: <u>%</u> Community successional stage: <u>MA</u> Early (herbaceous & seedlings) Indicators: <u>Mudcracks</u> Ripples Drift and/or debris	Active Floodplain Low Terrace Shrub:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief
 Established Rubber Rabb. Losh Jone for the foodplain unit: Floodplain unit: ☐ Low-Flow Channel GPS point: <u>34.828902, -(18.856792</u> Characteristics of the floodplain unit: Average sediment texture: <u>Med.um</u> Total veg cover: <u>0</u>% Tree: <u>%</u> Community successional stage: MA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank 	Shrub:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: <u>charge in average sedurant size</u>
 Established Rubber Rabb. Losh Jone for the foodplain unit: GPS point: 34.528902, -(12.556792 Characteristics of the floodplain unit: Average sediment texture: <u>Med.um</u> Total veg cover: 0 % Tree: % Community successional stage: MA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches 	Active Floodplain Low Terrace Shrub:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief
 Established Rubber Rabb. Losh Jone for the foodplain unit: Floodplain unit: ☐ Low-Flow Channel GPS point: <u>34.828902, -(18.856792</u> Characteristics of the floodplain unit: Average sediment texture: <u>Med.um</u> Total veg cover: <u>0</u>% Tree: <u>%</u> Community successional stage: MA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank 	Shrub:% Herb:% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: <u>charge in average seducent size</u> Other:

- 5

Floodplain unit: D Low-Flow Channel	Active Floodplain Low Terrace
GPS point: 34.828902, -118.956792	
Characteristics of the floodplain unit: Average sediment texture: <u>Greinvie</u> Total veg cover: <u>3</u> % Tree: <u>0</u> % S Community successional stage:	,
 NA Early (herbaceous & seedlings) 	 Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)
Indicators:	
 Mudcracks Ripples Drift and/or debris 	Soil development Surface relief
Presence of bed and bank Benches	Other: <u>Sediment sorting</u> Other: <u>Change in veg cover</u> Other:
Comments:	
Mix of medaum scool and anthe Heat he	
Scattered Lepidiospartum squamatum; Arten (Rubber Rabbitbush)	us settled on top main and Ericamena nauseosa
Floodplain unit: D Low-Flow Channel	Active Floodplain Low Terrace
Floodplain unit: Low-Flow Channel GPS point: <u>NA</u> Characteristics of the floodplain unit:	
Floodplain unit: Low-Flow Channel GPS point: NA Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % S	Active Floodplain Low Terrace
Floodplain unit: Low-Flow Channel GPS point: NA Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % Tree: % S Community successional stage:	Active Floodplain Low Terrace
Floodplain unit: Low-Flow Channel GPS point: NA Characteristics of the floodplain unit: Average sediment texture: Total veg cover: % Tree: % S	Active Floodplain Low Terrace
Flood plain unit: Low-Flow Channel GPS point: NA Characteristics of the flood plain unit: Average sediment texture: Yotal veg cover: % Tree: % S Community successional stage: NA Early (herbaceous & seedlings) Indicators:	Active Floodplain Low Terrace
Flood plain unit: Flood plain unit: GPS point: NA NA Early (herbaceous & seedlings)	Active Floodplain Low Terrace
Floodplain unit: Eloodplain unit: GPS point: NA Total veg cover: % Tree: % S Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples	Active Floodplain Low Terrace
Flood plain unit: Low-Flow Channel GPS point: NA Characteristics of the flood plain unit: Average sediment texture: Total veg cover: % Tree: % Tree: % S Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank	Active Floodplain Low Terrace Chrub:% Herb:%
Flood plain unit: Elever Rabbirbuck (Second plain unit: GPS point: NA Total veg cover: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris	Active Floodplain Low Terrace
Flood plain unit: Low-Flow Channel GPS point: NA Characteristics of the flood plain unit: Average sediment texture: Total veg cover: % Tree: % Tree: % S Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank	Active Floodplain Low Terrace Chrub:% Herb:%
Flood plain unit: Flood plain unit: GPS point: NA Total veg cover: % Tree: % S Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Active Floodplain Low Terrace Chrub:% Herb:%

'91°

Project: GIKR Project Number: Stream: OO317 OHWM1 Investigator(s): S. Gialindo, S. Gulyas	Date: 12/7/23 Time: 1 pm Town: Staluen SpringsState: CA Photo begin file#: pp1 Photo end file#: pp3		
$Y \boxtimes / N \square$ Do normal circumstances exist on the site?	Location Details: Valley in agricultural area with cattle.		
$Y \square / N \bowtie$ Is the site significantly disturbed?	Projection: 35, 127939, Datum: NAV 83 Coordinates: - 118 720242		
Road crossing, agricultural fiel	tem: d.		
Brief site description: Agy land with road crossing draw	hage.		
Vegetation maps Result Soils maps Most Rainfall/precipitation maps Gage Existing delineation(s) for site most Global positioning system (GPS) GPS	record: by of recent effective discharges ts of flood frequency analysis recent shift-adjusted rating heights for 2-, 5-, 10-, and 25-year events and the recent event exceeding a 5-year event		
Other studies Hydrogeomorphic	Floodplain Units		
Active Floodplain	OHWM Paleo Channel		
Procedure for identifying and characterizing the floor	dplain units to assist in identifying the OHWM: to get an impression of the geomorphology and		

Inche	95 (in)			Mil	limeters (n	nm)	Wentworth size class
	10.08	-	-	-	256	-	Boulder
9.1	2.58	-	-	-	64	-	- Cobble
	0 157	-	_	_	4	_	Pebble
	0 079	_			2 00	-	Granule
	0.039	_	-	-	1 00	_	Very coarse sand
	0.020	-	-	-	0 50	_	Coarse sand
1/2	0.0098	_	-	-	0 25	_	Medium sand
1/4	0 005	_	_	-	0 125	_	Fine sand
1/8 -	0.0025	_		_	0.0625		Very fine sand
1/16	0.0012	-	_	-	0 031	_	Coarse silt
1/32	0.00061	-	-	-	0.0156	_	Medium silt
1/64	0 00031	-	_	-	0.0078		Fine sill
1/128 -	0.00015	-	_	_	0 0039		Very fine silt
1							Clay Dow

Wentworth Size Classes

Cross section drawing:	
DHUM	6 ft.
OHWM	
GPS point:	
Indicators:	
Change in average sediment texture	Break in bank slope
Change in vegetation species Change in vegetation cover	Other: Other:
Comments:	
Slight change in veg.	
1.4	
Floodplain unit: Kow-Flow Channel	Active Floodplain Low Terrace
GPS point:	
Characteristics of the floodplain unit:	
Average sediment texture: Total veg cover:% Tree:% Sh	irub:% Herb:%
Community successional stage:	Mid (herbaceous, shrubs, saplings)
Early (herbaceous & seedlings)	Late (herbaceous, shrubs, mature trees)
Indicators:	
Mudcracks	Soil development
Ripples Drift and/or debris	Surface relief
∇ Presence of bed and bank	Other: Other:
Benches	☐ Other:
Comments:	
Steep bank downstream of	road crassing
	Crossing,
	0

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iect ID: Cross section ID:	Date:	Time:
ject ID: Cross section ID: <u>oodplain unit</u> : Low-Flow Channel	Active Floodplain	Low Terrace
PS point:		
aracteristics of the floodplain unit: Average sediment texture: Total veg cover:% Tree:%	Shoute: % Herb: %	0
Total veg cover:% Tree:%		
□ NA	Mid (herbaceous, shru	bs, saplings)
Early (herbaceous & seedlings)	Late (herbaceous, shru	ibs, mature trees)
ndicators:	Soil development	
□ Ripples	Surface relief	
Drift and/or debris	Other:	
Presence of bed and bank	Other: Other:	
Benches		
Floodplain unit: 🗌 Low-Flow Channel	Active Floodplain	Low Terrace
Floodplain unit: Dow-Flow Channel	I Active Floodplain	Low Terrace
GPS point: Characteristics of the floodplain unit:	I 🗌 Active Floodplain	Low Terrace
GPS point: Characteristics of the floodplain unit: Average sediment texture:		
GPS point: Characteristics of the floodplain unit: Average sediment texture: Total veg cover:% Tree:% Community successional stage:	Shrub:% Herb:	%
GPS point: Characteristics of the floodplain unit: Average sediment texture: Total veg cover:% Tree:% Community successional stage: NA	Shrub:% Herb:	% rubs, saplings)
GPS point: Characteristics of the floodplain unit: Average sediment texture: Total veg cover:% Tree:% Community successional stage: NA Early (herbaceous & seedlings)	Shrub:% Herb:	% rubs, saplings)
GPS point: Characteristics of the floodplain unit: Average sediment texture: Total veg cover:% Tree:% Community successional stage: NA Early (herbaceous & seedlings) Indicators:	Shrub:% Herb:	% rubs, saplings)
GPS point: Characteristics of the floodplain unit: Average sediment texture: Total veg cover:% Tree:% Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks	Shrub:% Herb:	% rubs, saplings)
GPS point: Characteristics of the floodplain unit: Average sediment texture: Total veg cover:% Tree:% Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples	Shrub:% Herb:	% rubs, saplings) rubs, mature trees)
GPS point: Characteristics of the floodplain unit: Average sediment texture: Total veg cover:% Tree:% Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank	Shrub:% Herb:	% rubs, saplings) rubs, mature trees)
GPS point: Characteristics of the floodplain unit: Average sediment texture: Total veg cover:% Tree:% Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris	Shrub:% Herb:	% rubs, saplings) rubs, mature trees)
GPS point: Characteristics of the floodplain unit: Average sediment texture: Total veg cover:% Tree:% Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank	Shrub:% Herb:	% rubs, saplings) rubs, mature trees)
GPS point: Characteristics of the floodplain unit: Average sediment texture: Total veg cover:% Tree:% Community successional stage: NA Early (herbaceous & seedlings) Indicators: Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Shrub:% Herb:	% rubs, saplings) rubs, mature trees)

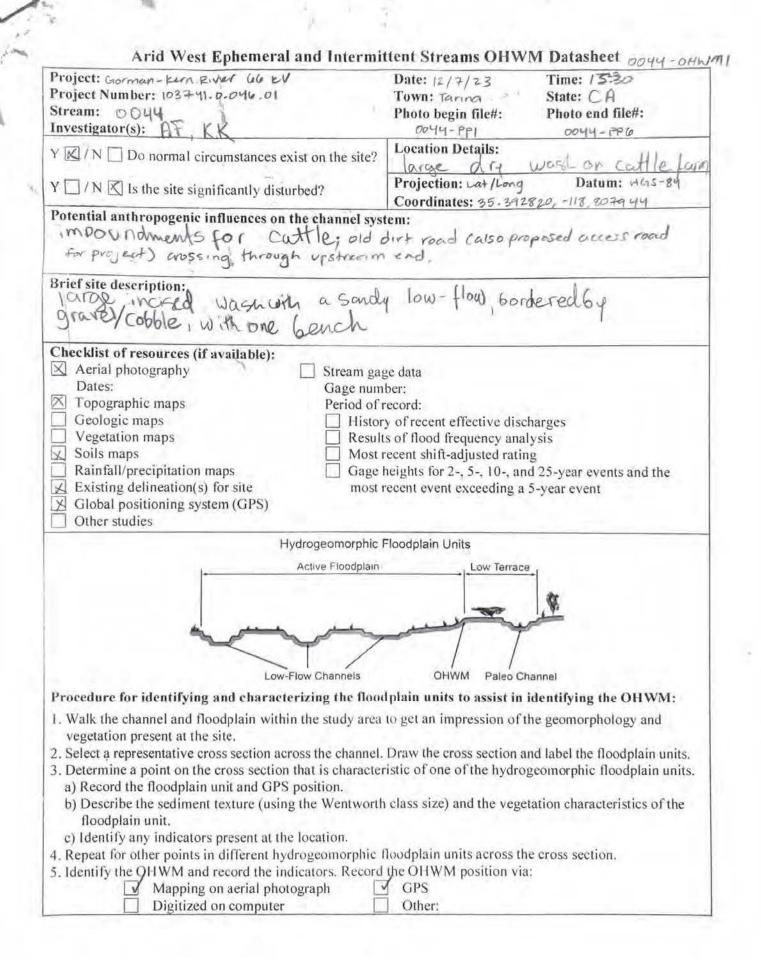
Project: GKR	ttent Streams OHWM Datasheet
Project Number:	Date: 12/7/23 Time: 315 pm
Stream: 0042-0HWML	Town: State: A
Investigator(s): S. Gerlando, S. Gulyas	Photo begin file#: QP1 Photo end file#:
$Y \not > / N \square$ Do normal circumstances exist on the site?	Location Details: A grice Horal valley
$Y \square / N \not\bowtie$ Is the site significantly disturbed?	Projection: 35,282593, Datum: NAD 83 Coordinates: -118,807293
Borms , agricultural.	
Brief site description: Desert wash lies adjacent to berms.	o agricultoral field separated by
Vegetation maps Result Soils maps Most r Rainfall/precipitation maps Gage F	ber:
Hydrogeomorphic F	Floodplain Units
Active Floodplain	, Low Terrace ,
a man	
Low-Flow Channels	OHWM Paleo Channel
Procedure for identifying and characterizing the flood 1. Walk the channel and floodplain within the study area yegetation present at the site.	plain units to assist in identifying the OHWM: to get an impression of the geomorphology and
 Procedure for identifying and characterizing the flood 1. Walk the channel and floodplain within the study area vegetation present at the site. 2. Select a representative cross section across the channel. 3. Determine a point on the cross section that is character a) Record the floodplain unit and GPS position. b) Describe the sediment texture (using the Wentworth) 	Iplain units to assist in identifying the OHWM: to get an impression of the geomorphology and Draw the cross section and label the floodplain units. istic of one of the hydrogeomorphic floodplain units
 Procedure for identifying and characterizing the flood Walk the channel and floodplain within the study area vegetation present at the site. Select a representative cross section across the channel. Determine a point on the cross section that is character a) Record the floodplain unit and GPS position. b) Describe the sediment texture (using the Wentworth floodplain unit. 	Iplain units to assist in identifying the OHWM: to get an impression of the geomorphology and Draw the cross section and label the floodplain units. istic of one of the hydrogeomorphic floodplain units
 Procedure for identifying and characterizing the flood Walk the channel and floodplain within the study area vegetation present at the site. Select a representative cross section across the channel. Determine a point on the cross section that is character a) Record the floodplain unit and GPS position. b) Describe the sediment texture (using the Wentworth floodplain unit. c) Identify any indicators present at the location. 	Iplain units to assist in identifying the OHWM: to get an impression of the geomorphology and Draw the cross section and label the floodplain units. istic of one of the hydrogeomorphic floodplain units class size) and the vegetation characteristics of the
 Procedure for identifying and characterizing the flood Walk the channel and floodplain within the study area vegetation present at the site. Select a representative cross section across the channel. Determine a point on the cross section that is character a) Record the floodplain unit and GPS position. b) Describe the sediment texture (using the Wentworth floodplain unit. c) Identify any indicators present at the location. Repeat for other points in different hydrogeomorphic floodplain 	Iplain units to assist in identifying the OHWM: to get an impression of the geomorphology and Draw the cross section and label the floodplain units. istic of one of the hydrogeomorphic floodplain units class size) and the vegetation characteristics of the loodplain units across the cross section.
 Procedure for identifying and characterizing the flood Walk the channel and floodplain within the study area vegetation present at the site. Select a representative cross section across the channel. Determine a point on the cross section that is character a) Record the floodplain unit and GPS position. b) Describe the sediment texture (using the Wentworth floodplain unit. c) Identify any indicators present at the location. Repeat for other points in different hydrogeomorphic flot. Identify the OHWM and record the indicators. Record 	Iplain units to assist in identifying the OHWM: to get an impression of the geomorphology and Draw the cross section and label the floodplain units. istic of one of the hydrogeomorphic floodplain units class size) and the vegetation characteristics of the loodplain units across the cross section. the OHWM position via:
 Procedure for identifying and characterizing the flood Walk the channel and floodplain within the study area vegetation present at the site. Select a representative cross section across the channel. Determine a point on the cross section that is character a) Record the floodplain unit and GPS position. b) Describe the sediment texture (using the Wentworth floodplain unit. c) Identify any indicators present at the location. 4. Repeat for other points in different hydrogeomorphic floodplain 	Iplain units to assist in identifying the OHWM: to get an impression of the geomorphology and Draw the cross section and label the floodplain units. istic of one of the hydrogeomorphic floodplain units class size) and the vegetation characteristics of the loodplain units across the cross section.

Inches (in)		M	limaters (mm)	Wentworth size class
10.08 2.58 0.157 0.079			256 — — 64 — — 4 — —	Bouider Cobble Pebble Granule
0.039 0.020 1/2 0.0098 1/4 0.005	-		- 1 00 - 0 50 - 0 25 - 0 125	Very coarse sand Coarse sand Medium sand Fine sand Very tine sand
1/8 0.0025 1/16 0.0012 1/32 0.0008 1/54 0.0003 1/128 0.0001		1 1 1	- 0.0625 - 0.031 - 0.0156 - 0.0078 - - 0.0039 -	Coarse silt Medium silt Fine silt Very fine silt
				Clay

Wentworth Size Classes

roject ID:			
Cross section dra	wing:		
			-627
			13 5UZ
		X	IL
1 mars		No	m 12
aver a second	130 - 136V	12 De	3
	ALK I	, Ind.	
	DIWM	Horn hours	
	ыl	gumaz alwan	5
OHWM	and the second		
GPS point:			
or o hourd			
Indicators:			
and the state of the second second	average sediment texture	Break in bank slope	
] Other:	
	vegetation cover	Other:	
C_r shange in		- 13-87/5789/278.2	
-			
Comments:	OHWM. Desert scrub HWM 36ft. Two ne	may abletion	and in findala
NO veg. In	OHWM. Desert Scrub	UNISIDE OHUSIN	and in itouapion
Orlainal O	HUM 36 Ft. TWO NO	w ohm with	nin Hoodban.
Floodplain unit:	Low-Flow Channel	Active Floodplain	Low Terrace
Floodplain unit:	Low-Flow Channel	Active Floodplain	Low Terrace
		Active Floodplain	Low Terrace
Floodplain unit: GPS point:		Active Floodplain	Low Terrace
GPS point:		Active Floodplain	Low Terrace
GPS point:	the floodplain unit:		
GPS point:	the floodplain unit:		
GPS point: Characteristics of t Average sediment Total veg cover: _	the floodplain unit: texture: Sand. % Tree: % Shrub:		
GPS point: Characteristics of (Average sediment Total veg cover: Community succes	the floodplain unit: texture: Sand. % Tree:% Shrub:%	% Herb:%	0
GPS point: Characteristics of t Average sediment Total veg cover: Community succes NA	the floodplain unit: texture: Sand. % Tree:% Shrub:% ssional stage:	% Herb:% A Mid (herbaceous, shru	ó bs, saplings)
GPS point: Characteristics of t Average sediment Total veg cover: Community succes NA	the floodplain unit: texture: Sand. % Tree:% Shrub:%	% Herb:%	ó bs, saplings)
GPS point: Characteristics of t Average sediment Total veg cover: Community succes NA Early (her	the floodplain unit: texture: Sand. % Tree:% Shrub:% ssional stage:	% Herb:% A Mid (herbaceous, shru	ó bs, saplings)
GPS point: Characteristics of (Average sediment Total veg cover: _ Community succe: NA Early (her Indicators:	the floodplain unit: texture: Sond. % Tree:% Shrub:% ssional stage: baceous & seedlings)	% Herb:% Mid (herbaceous, shru Late (herbaceous, shru	ó bs, saplings)
GPS point: Characteristics of t Average sediment Total veg cover: _ Community succes NA Early (her Indicators: Mudcrack	the floodplain unit: texture: Sond. % Tree:% Shrub:% ssional stage: baceous & seedlings)	% Herb:% Mid (herbaceous, shru] Late (herbaceous, shru] Soil development	ó bs, saplings)
GPS point: Characteristics of t Average sediment Total veg cover: Community succes NA Early (her Indicators: Mudcrack Ripples	the floodplain unit: texture: Sond. % Tree: % Shrub: ssional stage: baceous & seedlings)	% Herb:% Mid (herbaceous, shru Late (herbaceous, shru Soil development Surface relief	bs, saplings) bs, mature trees)
GPS point: Characteristics of t Average sediment Total veg cover: Community succes NA Early (her Indicators: Ripples Drift and/	the floodplain unit: texture: Sand. % Tree: % Shrub: ssional stage: baceous & seedlings) s or debris	% Herb:% Mid (herbaceous, shru Late (herbaceous, shru Soil development Surface relief	bs, saplings) bs, mature trees)
GPS point: Characteristics of t Average sediment Total veg cover: _ Community succes NA Early (her Indicators: Mudcrack Ripples Drift and/ Presence	the floodplain unit: texture: Sord. % Tree:% Shrub: ssional stage: baceous & seedlings) s or debris of bed and bank	% Herb:% Mid (herbaceous, shru Late (herbaceous, shru Soil development Surface relief Other: Other:	bs, saplings) bs, mature trees)
GPS point: Characteristics of t Average sediment Total veg cover: _ Community succes NA Early (her Indicators: Mudcrack Ripples Drift and/ Presence	the floodplain unit: texture: Sand. % Tree: % Shrub: ssional stage: baceous & seedlings) s or debris	% Herb:% Mid (herbaceous, shru Late (herbaceous, shru Soil development Surface relief	bs, saplings) bs, mature trees)
GPS point: Characteristics of t Average sediment Total veg cover: Community succes NA Early (her Indicators: Mudcrack Ripples Drift and/ Presence of Benches	the floodplain unit: texture: Sord. % Tree:% Shrub: ssional stage: baceous & seedlings) s or debris of bed and bank	% Herb:% Mid (herbaceous, shru Late (herbaceous, shru Soil development Surface relief Other: Other:	bs, saplings) bs, mature trees)
GPS point: Characteristics of t Average sediment Total veg cover: _ Community succes NA Early (her Indicators: Mudcrack Ripples Drift and/ Presence	the floodplain unit: texture: Sord. % Tree:% Shrub: ssional stage: baceous & seedlings) s or debris of bed and bank	% Herb:% Mid (herbaceous, shru Late (herbaceous, shru Soil development Surface relief Other: Other:	bs, saplings) bs, mature trees)
GPS point: Characteristics of t Average sediment Total veg cover: Community succes NA Early (her Indicators: Mudcrack Ripples Drift and/ Presence of Benches	the floodplain unit: texture: Sord. % Tree:% Shrub: ssional stage: baceous & seedlings) s or debris of bed and bank	% Herb:% Mid (herbaceous, shru Late (herbaceous, shru Soil development Surface relief Other: Other:	bs, saplings) bs, mature trees)
GPS point: Characteristics of t Average sediment Total veg cover: Community succes NA Early (her Indicators: Mudcrack Ripples Drift and/ Presence of Benches	the floodplain unit: texture: Sord. % Tree:% Shrub: ssional stage: baceous & seedlings) s or debris of bed and bank	% Herb:% Mid (herbaceous, shru Late (herbaceous, shru Soil development Surface relief Other: Other:	bs, saplings) bs, mature trees)
GPS point: Characteristics of t Average sediment Total veg cover: Community succes NA Early (her Indicators: Mudcrack Ripples Drift and/ Presence of Benches	the floodplain unit: texture: Sord. % Tree:% Shrub: ssional stage: baceous & seedlings) s or debris of bed and bank	% Herb:% Mid (herbaceous, shru Late (herbaceous, shru Soil development Surface relief Other: Other:	bs, saplings) bs, mature trees)
GPS point: Characteristics of t Average sediment Total veg cover: Community succes NA Early (her Indicators: Mudcrack Ripples Drift and/ Presence of Benches	the floodplain unit: texture: Sond. % Tree:% Shrub: ssional stage: baceous & seedlings) s or debris or debris of bed and bank	% Herb:% Mid (herbaceous, shru Late (herbaceous, shru Soil development Surface relief Other: Other:	bs, saplings) bs, mature trees)
GPS point: Characteristics of t Average sediment Total veg cover: Community succes NA Early (her Indicators: Mudcrack Ripples Drift and/ Presence of Benches	the floodplain unit: texture: Sond. % Tree:% Shrub: ssional stage: baceous & seedlings) s or debris or debris of bed and bank	% Herb:% Mid (herbaceous, shru Late (herbaceous, shru Soil development Surface relief Other: Other:	bs, saplings) bs, mature trees)

roject ID:	Cross section ID:	Date:	Time:
floodplain unit:	Low-Flow Channel	Active Floodplain	Low Terrace
PS point:			
haracteristics of th	e floodplain unit:		
Total veg cover:	% Tree:% SI	nrub:% Herb:%	1
Community success	sional stage:	Mid (herbaceous, shrul	bs, saplings)
	baceous & seedlings)	Late (herbaceous, shru	
indicators:		D C att des alanmant	
Mudcracks	5	Soil development	
Drift and/o		Other:	
Presence of Benches	of bed and bank	Other:	
Comments:		Other:	
	Low-Flow Channel	Active Floodplain	L Low Terrace
	the floodplain unit:		
Average sediment	t texture:	Shrub:% Herb:	
Community succe	essional stage:	Shrub:% Herb:	/0
□ NA		Mid (herbaceous, shr	
Early (he	erbaceous & seedlings)	Late (herbaceous, shr	ubs, mature trees)
Indicators:			
Muderad	cks	Soil development	
Ripples	d/or debris	Surface relief Other:	
And and a second s	e of bed and bank	Other:	
Benches	5	Other:	
Comments:			
L			



Inch	es (m)			MI	limeters (m	(mr	Wentworth size class
	10.08	_	-	-	256	_	Boulder
	2.56	_	-	-	64	_	Pebble
	0 157	-		-	4	_	Pebble de
	0.079	-	_		2 00	_	Granule - 3
	0.039	_	-	-	1 00	-	Very coarse sand
	0.020	-		-	0.50	_	Coarse sand
1/2	0.0098	-	-	-	0 25		Medium sand
1/4	0.005	_	_	-	0 125	_	Fine sand
1/8 -	0.0025	-	_	-	0 0625	-	Very fine sand
1/16	0.0012	_	-	-	0 031	-	Coarse silt
1/32	0.00061	_	-	-	0 0156	_	Medium silt
-1/64	0.00031	-	-	-	0.0078	-	
1/128 —	0 00015	-		-	0 0039		Very fine silt
							Clay P

Wentworth Size Classes

Iow terrace	active floor plane
L	1
1 100 0000	
00000	
	nemer innor
DHWM	
	OHW OHW
GPS point: 35,392820, -118,807944	OHW
ndicators:	
Change in average sediment texture	Break in bank slope
Change in vegetation species	Other:
which's bordered by a cobble/ with some mulefat + scale - 6ro	gravelly bed, sparsely vegetated sm. at the OHWM the texture ye rises to form a Gench
moderately regulated w so	ale rises to forma bench
Floodplain unit: KLow-Flow Channel	Active Floodplain Low Terrace
GPS point: 35.392820, -118.807944	
Characteristics of the floodplain unit:	
Average sediment texture: <u>Coarse Sand</u> Total veg cover: <u>1</u> % Tree: <u>0</u> % Shrub:	<1 % Herb: <1 %
Community successional stage:	
NA Early (herbaceous & seedlings)	 Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)
K woody species 22fthic	M
Indicators.	
Mudcracks	Soil development
Ripples Drift and/or debris	V Other: algal mats
Presence of bed and bank	Other:
Benches	Other:
Comments:	
Comments:	

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Floodplain unit: D Low-Flow Channe	Active Floodplain Low Terrace
GPS point: 35, 392820, -118.807944	
Characteristics of the floodplain unit:	
Average sediment texture: Pebble	Shrub: <u>4</u> % Herb: <u>%</u>
Total veg cover: <u>5</u> % Tree: <u>1</u> % Community successional stage:	Shrub:% Herb: <%
🗋 NA	Kid (herbaceous, shrubs, saplings)
Early (herbaceous & seedlings)	Late (herbaceous, shrubs, mature trees)
Indicators:	
Mudcracks	Soil development
Ripples	Surface relief
Drift and/or debris	Other:
Presence of bed and bank Benches	Other:
Comments:	No. of the second se
scalebroo + some he	black willow, cockleburr mularut,
Floodplain unit: Low-Flow Channe	
Floodplain unit: D Low-Flow Channe GPS point: <u>35,392820, - 118,80 7999</u> Characteristics of the floodplain unit:	Active Floodplain 🖾 Low Terrace
Floodplain unit: Low-Flow Channe GPS point: 35.392820, -118.803944 Characteristics of the floodplain unit: Average sediment texture:	Active Floodplain I Low Terrace
Floodplain unit: Low-Flow Channe GPS point: 35,392820, -118,803944 Characteristics of the floodplain unit: Average sediment texture: <u>mechium</u> Total veg cover: <u>70</u>% Tree: <u>-%</u> 	Active Floodplain 🖾 Low Terrace
Floodplain unit: Low-Flow Channe GPS point: 35.392820, -118.803944 Characteristics of the floodplain unit: Average sediment texture:	Active Floodplain I Low Terrace
Floodplain unit: Low-Flow Channe GPS point: 35.392820, -118.803494 Characteristics of the floodplain unit: Average sediment texture:	Active Floodplain I Low Terrace
Floodplain unit: Low-Flow Channe GPS point: 35.392820, -118.80 3444 Characteristics of the floodplain unit: Average sediment texture: Mod 100 100 100 100 100 100 100 100 100 10	Active Floodplain I Low Terrace Sand Shrub: <u>15</u> % Herb: <u>5</u> % Mid (herbaceous, shrubs, saplings)
Floodplain unit: Low-Flow Channe GPS point: 35.392820, -118.803494 Characteristics of the floodplain unit: Average sediment texture: Average sediment texture: Model unit: Total veg cover: 70 % Tree: Total veg cover: 70 % Tree: Ma Early (herbaceous & seedlings) Indicators: Mudcracks	Active Floodplain I Low Terrace Sand Shrub: <u>5</u> % Herb: <u>5</u> % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development
Floodplain unit: Low-Flow Channe GPS point: 35.392820, -118.8034944 Characteristics of the floodplain unit: Average sediment texture:	Active Floodplain I Low Terrace Sand Shrub: <u>\5</u> % Herb: <u>5</u> % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief
Floodplain unit: Low-Flow Channe GPS point: 35.392820, -118.8034944 Characteristics of the floodplain unit: Average sediment texture: Average sediment texture: Model and	Active Floodplain I Low Terrace Sand Shrub: <u>15</u> % Herb: <u>5</u> % Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other:
Floodplain unit: Low-Flow Channe GPS point: 35.392820, -118.8034444 Characteristics of the floodplain unit: Average sediment texture: Average sediment texture: Model and	Active Floodplain I Low Terrace Sand Shrub: _5_% Herb: _5_% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: Other:
Floodplain unit: Low-Flow Channe GPS point: 35.392820, -118.8034944 Characteristics of the floodplain unit: Average sediment texture: Average sediment texture: Model unit: Total veg cover: 70 % Tree: Total veg cover: 70 % Tree: Ommunity successional stage: % NA Early (herbaceous & seedlings) Indicators: - Mudcracks Ripples Drift and/or debris - Presence of bed and bank - Benches -	A ctive Floodplain I Low Terrace Sand Shrub: _5 % Herb: 5_% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: Other:
Floodplain unit: Low-Flow Channe GPS point: 35.392820, -118.8034944 Characteristics of the floodplain unit: Average sediment texture: Average sediment texture: Model unit: Total veg cover: 70 % Tree: Total veg cover: 70 % Tree: Ommunity successional stage: % NA Early (herbaceous & seedlings) Indicators: - Mudcracks Ripples Drift and/or debris - Presence of bed and bank - Benches -	A ctive Floodplain I Low Terrace Sand Shrub: _5 % Herb: 5_% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: Other:
Floodplain unit: Low-Flow Channe GPS point: 35.392820, -118.8034944 Characteristics of the floodplain unit: Average sediment texture: Average sediment texture: Model unit: Total veg cover: 70 % Tree: Total veg cover: 70 % Tree: Ommunity successional stage: % NA Early (herbaceous & seedlings) Indicators: - Mudcracks Ripples Drift and/or debris - Presence of bed and bank - Benches -	Active Floodplain I Low Terrace Sand Shrub: _5_% Herb: _5_% Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees) Soil development Surface relief Other: Other:

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Project: GKR Project Number:	Date: 12/5/23 Time: 1 Pm Town: Bakersheld State: CA
Stream: 0059-04WM1 Investigator(s): S. Gallado, S. Gulyas	Photo begin file#: PM Photo end file#:
$Y \boxtimes / N \square$ Do normal circumstances exist on the site?	Location Details: Kern River
$Y \square / N \bowtie$ is the site significantly disturbed?	Projection: 35 456786, Datum: MAD 83 Coordinates: -11 8,780248
Potential anthropogenic influences on the channel sys Hydroelectric dam feature, SCE	tem:
Brief site description: East side of kern River offur Dam feature present upstream of	outpm. Perennial river.
Vegetation maps Result Soils maps Most Rainfall/precipitation maps Gage	iber:
Hydrogeomorphic	Floodplain Units
Active Floodplain	OHWM Paleo Channel
Procedure for identifying and characterizing the floo	dplain units to assist in identifying the OHWM:
 Walk the channel and floodplain within the study area vegetation present at the site. Select a representative cross section across the channel. Determine a point on the cross section that is characte a) Record the floodplain unit and GPS position. Describe the sediment texture (using the Wentworth floodplain unit. c) Identify any indicators present at the location. Repeat for other points in different hydrogeomorphic 	Draw the cross section and label the floodplain units. ristic of one of the hydrogeomorphic floodplain units. h class size) and the vegetation characteristics of the floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record Mapping on aerial photograph Digitized on computer	GPS Other:

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

inches	s (in)		1	VIII	meters (m	m)		Wentworth size class
	0.08 2.56 0.157 0.079	111	10 1. 1	1 1 1	256 64 4 2 C0	1 1 1		Boulder Cobble Pebble Gtanule
1/2 1/4	0.039 0.020 0.0098 0.005	1 1 1 1	1 1 1 1	1 1 1 1	1 00 0 50 0 25 0 125	1 1 1 1		Very coarse sand Coarse sand Medium sand Fine sand Very fine sand
1/8 — 1/16 1/32 1/64 1/128 —	0.0025 0.0012 0.0006 0.0003 0.0003	1 —	1 1 1	T D A	0.062 0.031 0.015 0.007 0.003	- 8 -	1 1 1	Coarse silt Medium silt Fine silt Very fine silt
								Clay

Wentworth Size Classes

cross section dra	Cross section ID:	Date:	Time:
	iwing:		
	CANKE A CON	ders onom	J ^e
<u>OHWM</u>			
GPS point:			
Change in	n average sediment texture n vegetation species n vegetation cover	Break in bank slope Other: <u>Water stad</u> Other:	hed boulders
Comments: Course to 1 Extended t flowing wa	boulders. OHUM wilder to previous corrw der present.	than ortginally the Rock State	y mapped. Is from
Floodplain unit:	: 🔀 Low-Flow Channel	Active Floodplain	Low Terrace
Characteristics of	the floodplain unit:		
Characteristics of t Average sediment Total veg cover: _ Community succes	texture: <u>Boulders</u> % Tree: <u>%</u> Shrub: ssional stage:	% Herb:%] Mid (herbaceous, shrub ∄ Late (herbaceous, shrub	os, saplings)
Characteristics of t Average sediment Total veg cover: _ Community succes NA Early (her Indicators: Mudcrack Ripples Drift and/	texture: <u>Boulders</u> % Tree:% Shrub: ssional stage: rbaceous & seedlings)] Mid (herbaceous, shrub	os, saplings) os, mature trees)

	and the second	Date:	Time:
Floodplain unit: 🗌	Low-Flow Channel	Active Floodplain	Low Terrace
GPS point:			
Characteristics of the floo			
Average sediment texture Total veg cover:9	:		
Community successional		rub:% Herb:%	D
🗌 NA		Mid (herbaceous, shru	
Early (herbaceou	s & seedlings)	Late (herbaceous, shru	bs, mature trees)
Indicators:			
Mudcracks		Soil development	
 Ripples Drift and/or debr 	1	Surface relief	
Presence of bed a		Other: Other: Other: Other: Other:	
Benches		Other:	
Comments:			
	Low-Flow Channel	Active Floodplain	Low Terrace
	Low-Flow Channel	Active Floodplain	Low Terrace
GPS point:	dplain unit:		Low Terrace
GPS point: Characteristics of the floo	dplain unit:		Low Terrace
GPS point: Characteristics of the floo Average sediment texture: Total veg cover:% Community successional s	dplain unit:	ıb:% Herb:%	
GPS point: Characteristics of the floo Average sediment texture: Total veg cover:% Community successional s NA	dplain unit: Tree:% Shrustage:	ıb:% Herb:%	, saplíngs)
GPS point: Characteristics of the floo Average sediment texture: Total veg cover:% Community successional s	dplain unit: Tree:% Shrustage:	ıb:% Herb:%	, saplíngs)
GPS point: Characteristics of the floo Average sediment texture: Total veg cover:% Community successional s NA Early (herbaceous ndicators:	dplain unit: Tree:% Shrustage:	ıb:% Herb:% □ Mid (herbaceous, shrubs □ Late (herbaceous, shrubs	, saplíngs)
GPS point: Characteristics of the floo Average sediment texture: Total veg cover:% Community successional s NA Early (herbaceous ndicators: Mudcracks	dplain unit: Tree:% Shrustage:	Ib:% Herb:%	, saplíngs)
GPS point: Characteristics of the floo Average sediment texture: Total veg cover:% Community successional s NA Early (herbaceous ndicators: Muderacks Ripples Drift and/or debri	dplain unit: Tree:% Shrustage: s & seedlings)	Ib:% Herb:% Did (herbaceous, shrubs) Late (herbaceous, shrubs) Soil development Surface relief	, saplíngs) , mature trees)
GPS point: Characteristics of the floo Average sediment texture: Total veg cover:% Community successional s NA Early (herbaceous ndicators: Muderacks Ripples Drift and/or debri Presence of bed a	dplain unit: Tree:% Shrustage: s & seedlings)	Ib:% Herb:% Mid (herbaceous, shrubs Late (herbaceous, shrubs Soil development Surface relief Other: Other:	, saplings) , mature trees)
GPS point: Characteristics of the floo Average sediment texture: Total veg cover:% Community successional s NA Early (herbaceous ndicators: Muderacks Ripples Drift and/or debri	dplain unit: Tree:% Shrustage: s & seedlings)	Ib:% Herb:% Did (herbaceous, shrubs) Late (herbaceous, shrubs) Soil development Surface relief	, saplings) , mature trees)

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Gorman-Kern R	iver 66-El City/County:	Lebec/Kern County_ Samplin	g Date: 12/6/23
Applicant/Owner: SCE			g Point: DOOR -SPL
Investigator(s): K.Klinefelter,	A Fowler Section, Town	nship, Range: Custore Land Gran	
Landform (hillslope, terrace, etc.) _ Char	incloced Local relief (c	concave, convex, none): _ Concave	Slope (%):
Subregion (LRR): <u>C Med</u>	Lat: 34.85416	5 Long: -118,874312	Datum: WGS-84
Soil Map Unit Name Area not Sur	reyed, access denied to 30	NWI classification:	reshwater Emorgent
Are climatic / hydrologic conditions on the	site typical for this time of year? Yes		
Are Vegetation, Soil, or Hy		Are "Normal Circumstances" present?	Yes No
Are Vegetation, Soil, or Hy	drology naturally problematic?	(If needed, explain any answers in Rem	narks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes X	No	Is the Sampled Area within a Wetland?	Yes	No
Wetland Hydrology Present?	Yes _>	No		ie se via	

sample point taken within channel bed where wetland vegetation is growing. SP is representative of 002-kk as it is connected downstream and has similar vegetation and hydrology.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>50</u> ')		Dominant Indicator Species? Status	Dominance Test worksh Number of Dominant Spe	cies
1 <u></u> 23			That Are OBL, FACW, or Total Number of Dominan Species Across All Strata	t 1
4	-		Percent of Dominant Spec	
1. NA			Prevalence Index works	heet:
2			Total % Cover of:	Multiply by:
3			OBL species	
4			FACW species	
5			FAC species	
		= Total Cover	FACU species	the second se
Herb Stratum (Plot size:)			UPL species	
1. RUMEX Crispus	1	N FAC		(A)(B)
2. Artemisia dracunculus		N_ FUCI)		(0)
3. Scurpus americanus	90	Y OBL	Prevalence Index =	B/A =
4. aschedics Thearing	1	W Fac	Hydrophytic Vegetation	Indicators:
5. hirschfeidra incana	1'	-N-WI	Dominance Test is >!	50%
6 CODIUM maculatum	3	-N01-	Prevalence Index is a	3.0 ¹
7			Morphological Adapta	ations ¹ (Provide supporting
8.			data in Remarks o	r on a separate sheet)
Woody Vine Stratum (Plot size: NA)	91	= Total Cover	Problematic Hydroph	ytic Vegetation ¹ (Explain)
1			Indicators of hydric soil a	nd wetland hydrology must
2			be present, unless disturb	ed or problematic.
		= Total Cover	Hydrophytic Vegetation	1
% Bare Ground in Herb Stratum % Cove	r of Biotic C	rust	Present? Yes	V_ No
Remarks:				
Meets for Dominance	Test			
Mars IV Dominance	Lest.			

US Army Corps of Engineers

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Con Section

rpe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: P	Remarks
color (moist) % Color (moist) % Type ¹ Loc ² Texture 10 YR 3/2 100	L=Pore Lining. M=Matrix. blematic Hydric Soils ³ : (LRR C)
2-1 10 YE 2/2 100 Clay -6 10 YE 3/2 100 Loamy Sad -17 10 YE 3/2 100 Indicators: -17 10 YE 3/2 Indicators: Indicators: -17 10 YE 3/2 Indicators: Indicators: -10 Sandy Redox (S5) 1 cm Muck (A9 Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A1 Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic Hydrogen Sulfide (A4) Loamy Gley	L=Pore Lining. M=Matrix. blematic Hydric Soils ³ : (LRR C)
-b 10 yR 3/2 100 Locary Sad -17 10 yR 3/2 100 Indicators -17 -10 yR 3/2 100 Indicators -17 -10 -10 Indicators -10 -10 -10 -10 Indicators for Prot -10 -10 -10 -10 Sandy Redox (S5) _1 1 cm Muck (A9 -11 -10 -10 Sandy Redox (S5) _1 2 cm Muck (A9 <	L=Pore Lining, M=Matrix. blematic Hydric Soils ³ :) (LRR C)
-17 10 yR 3/2 100 Loo Any Sud 2 pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: P dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Prot Histosol (A1)	L=Pore Lining, M=Matrix. blematic Hydric Soils ³ :) (LRR C)
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: P Iric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Prot Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A1) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertice Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Ma Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain 1 cm Muck (A9) (LRR D)	L=Pore Lining, M=Matrix. blematic Hydric Soils ³ :) (LRR C)
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) Histosol (A1) Sandy Redox (S5) 2 cm Muck (A9) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A1) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertice Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Ma Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain)	olematic Hydric Soils ³ :) (LRR C)
ic Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Prot Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9 Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A1 Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Ma Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain I cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain	olematic Hydric Soils ³ :) (LRR C)
ic Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Prot Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9 Histosol (A1) Stripped Matrix (S6) 2 cm Muck (A1 Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Ma Stratfied Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain) cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain)	olematic Hydric Soils ³ :) (LRR C)
c Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Prot listosol (A1)	olematic Hydric Soils ³ :) (LRR C)
Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Protein for	olematic Hydric Soils ³ :) (LRR C)
Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Prot Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A1) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Ma Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain)	olematic Hydric Soils ³ :) (LRR C)
Histosol (A1)) (LRR C)
Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A1) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertice Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Ma Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain)	
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Ma Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Other (Explain	0) (LRR B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Ma Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain 1 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain 1 cm Muck (A9) (LRR D) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	
	in Remarks)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	
	phytic vegetation and
	y must be present.
Sandy Gleyed Matrix (S4) vernal Poils (F9) weight hydrolog unless disturbed	
rictive Layer (if present):	or problemate.
ype:	? Yes No/
Pepth (inches): Hydric Soil Present	r res No
narks:	
No redox, does not meet for any hydric soil indicators.	
ROLOGY	
and Hydrology Indicators:	colors (2 or mars required)
	cators (2 or more required)
	ks (B1) (Riverine)
	Deposits (B2) (Riverine)
	sits (B3) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) 🖄 Drainage F	Patterns (B10)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Seaso	n Water Table (C2)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish B	urrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation	Visible on Aerial Imagery (C9)
nundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Ar	quitard (D3)
· · · · _ /	al Test (D5)
Observations:	
ace Water Present? Yes No 🗸 Depth (inches):	e i panete sin al mithole de
	./
ter Table Present? Yes No Depth (inches):	t? Yes V No
er Table Present? Yes <u>No V</u> Depth (inches): <u>Wetland Hydrology Presen</u>	

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site GKR	_ City/County LODEC/Kern Sampling Date: 12/6/23
Applicant/Owner SCE	State CA Sampling Point KS7-10 SP
Investigator(s) S. Galindo, S. Gulyas	Section, Township, Range: ST, TSN, RISW
Landform (hillslope, terrace, etc.): Hillslove	Local relief (concave, convex, none): None Slope (%); 2
	34,790107 Long: -118,927068 Datum: NAD83
	, 2 to 9 percent slopes NWI classification: WVA
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes 🔀 No (If no, explain in Remarks.)
Are Vegetation Soil, or Hydrology significa	
	y problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ring sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes X No	
Remarks: In a roodside ditch feature	. Adjacent to road and
SAC ACHUHIPS	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size:) 1)		Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2	(A)
2				Total Number of Dominant Species Across All Strata:	(B)
4		= Total Co	over	Percent of Dominant Species That Are OBL, FACW, or FAC:) (A/B)
1. Baccharls Salicifolia.	5	4	FAC	Prevalence Index worksheet: Total % Cover of: Multiply b	
3				OBL species 10 x1 = 10	And in case of the second s
5				FACW species $65 \times 2 = 130$ FAC species $15 \times 3 = 45$	
	5	= Total C	over	FAC species $15 \times 3 = 45$ FACU species $5 \times 4 = 20$	
1_Epiloblum Cillation	10	M	FACU		5 (B)
2. Junciss mericanus 3. Distichuis spicato	50	T	FACU	Prevalence Index = B/A = 2, 21	
4_ BROWNUS FUREAS	5	N	FACU	Hydrophytic Vegetation Indicators:	
5. Stachys cubens	10	M	DBL	∠ Dominance Test is >50%	
6. Polypagion montpellensis	_5_	N	FACED		poorting
8	90	_= Total C	over	data in Remarks or on a separate sh Problematic Hydrophytic Vegetation ¹ (E	ieet) xplain)
2.				be present, unless disturbed or problematic.	ay must
% Bare Ground in Herb Stratum % Cove	r of Biotic C	_ = Total C Crust		Hydrophytic Vegetation Present? Yes <u>No</u>	
Remarks: Meets dominance test	- on	nd pr	evaler	nce index for veg.	

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file Description: (Describe to the depth needed to document the Indicator or confirm the pth $MatrixRedox FeaturesColor (moist)%Color (moist)0-42.5\sqrt{3/2}1001-95\sqrt{2.5}/(100)1-95\sqrt{2.5}/(100)$	Texture Remarks S
$\frac{Color (moist)}{1-9} \frac{Color (moist)}{5\sqrt{12}} \frac{\%}{100} \frac{Color (moist)}{100} \% \frac{Type^{1}}{100} \frac{Loc^{2}}{100}$	
1-9 5412.5/ 100	
1-9 5412.5/ 100	<u>s</u> <u>s</u>
	5
<u>g-10 1048-72 100</u>	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Gra ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	ains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ² :
Histosol (A1) Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
_ Histic Epipedon (A2) Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3) Loamy Mucky Mineral (F1)	Reduced Vertic (I 18)
_ Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	
Thick Dark Surface (A12) Bedox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Vernal Pools (F9)	wetland hydrology must be present.
Sandy Gleyed Matrix (S4)	unless disturbed or problematic.
estrictive Layer (if present):	
Туре:	and a set of all the set of
Depth (inches):	Hydric Soil Present? Yes No X
YDROLOGY	
Netland Hydrology Indicators:	Considerable to a fill
Primary Indicators (minimum of one required, check all that apply)	Secondary Indic tors (2 or more required)
X Surface Water (A1) Salt Crust (B11)	Water Mark. (B1) (Riverine)
High Water Table (A2) Biolic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living R	Drainage Patterns (B10)
	a de la construcción de la constru
	C6) Crayfish Burrows (C8) C6) Saturation Visible on Aerial Imagery (C
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)	Shallow Aquitard (D3) FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): O in.	
Waler Table Present? Yes X No Depth (inches) Sin .	
	etland Hydrology Present? Yes 📉 No
Saturation Present? Yes X No Depth (inches) O '.C. W	
(includes capillary fringe)	
	is), il available:
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	

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WETLAND DETERMINATION DATA FORM - Arid West Region

CUD	County Lebec / Kern Sampling Date: 12-6-2023
Project/Site City/C	County <u>Lebec</u> For Sampling Date: Sampling Point: KS7-12 SP
Applicant/Owner: SCE	
Investigator(s): SGulyas Section	on, Township, Range: 21 $3N$ N N N
Landform (hillslope, terrace, etc.):Local	I relief (concave, convex, none): <u>NUNE</u> Slope (%): <u></u>
	10091 Long:-118.827029 Datum: NA983
Soil Map Unit Name: ObC - Oak Glen sandy loam, 2 to 9 percent s	
Are climatic / hydrologic conditions on the site typical for this lime of year? Ye	
Are Vegetation, Soil, or Hydrology significantly disturb	bed? Are "Normal Circumstances" present? Yes <u>>>></u> No
Are Vegetation, Soil, or Hydrology naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ppling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present?	within a Wetland? Yes <u>No X</u>
Wetland Hydrology Present? Yes No	
Remarks: UST-12	Lite protection
SP-faken on hill slufte adjacent to concrete a	
VEGETATION – Use scientific names of plants.	
2 () Absolute Domi	inant Indicator Dominance Test worksheet:
Tree Stratum (Plot size: <u>\$0</u>) % Cover Spee	Humber of Dominant Species
2	
3	Total Number of Dominant Species Across All Strata: 2 (B)
4.	
= Tota	al Cover Percent of Dominant Species (A/B)
Sapling/Shrub Stratum (Piot size:)	1
1	Tolal % Cover of: Mulliply by:
2	$\frac{1}{\text{OBL species}} \frac{1}{\sqrt{5}} \frac{1}{x_1 = \sqrt{5}}$
4	FACW species $10 \times 2 = 20$
5.	FAC species $35 \times 3 = 105$
= Tota	al Cover FACU species x 4 =
Herb Stratum (Plot size: 10 X 10)	(CALW UPL species x 5 =
1. JUNIUS MEXICANUS (ON	Column Totals: $\underline{\mathbf{Q}} \underline{\mathbf{D}}$ (A) $\underline{170}$ (B)
2. <u>Chemipsis califernia</u> 45 Y 3. lepidium latifolda 20 Y	FAC Prevalence Index = B/A = 1,89
4. disticuitis spicates 1.5 N	FAC Hydrophytic Vegetation Indicators:
5	X Dominance Test is >50%
6	Prevalence Index is ≤3.0 ¹
7	Morphological Adaptations ¹ (Provide supporting
8	data in Remarks or on a separate sheet)
_ <u></u> = Tota	al Cover Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:) 45	¹ Indicators of hydric soil and wetland hydrology must
1	be present, unless disturbed or problematic.
2 = Total	Il Cover Hydrophytic
	Vegetation
% Bare Ground in Herb Stratum % Cover of Biolic Crust	
Remarks: Vegetation posses dominance test	t and prevalence ladex.
vegetation portes and the	Course of the second

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Profile Description: (Describe to the dep Depth Matrix	Redox Features				
(inches) Color (moist) %	Color (moist) % Type	Loc2	Texture	Remarks	
10 7.54R 25/2100			5	Sandy	
					-
			_		_
Type: C=Concentration, D=Depletion, RM	Reduced Matrix, CS=Covered or Coated	Sand Grai	ns. ² Lo	cation: PL=Pore Lining, M=Matr	
lydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)		Indicators	s for Problematic Hydric Solls ³	:
Histosol (A1)	Sandy Redox (S5)		1 cm	Muck (A9) (LRR C)	
Histic Epipedon (A2)	Stripped Matrix (S6)		2 cm	Muck (A10) (LRR B)	
Black Histic (A3)	Loamy Mucky Mineral (F1)		Redu	ced Vertic (F18)	
Hydrogen Sulfide (A4)	Loamy Gleyed Matnx (F2)		Red F	Parent Material (TF2)	
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)		Other	(Explain in Remarks)	
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)				
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Dark Surface (F7)		8.2	distant to the second second	
Sandy Mucky Mineral (S1)	Redox Depressions (F8)			s of hydrophylic vegetation and	
Sandy Gleyed Matrix (S4)	Vernal Pools (F9)			I hydrology must be present. disturbed or problematic.	
Restrictive Layer (if present):			uniess	disturbed or problematic	
Type:		_			
					V
					A
Remarks: NO hydric Solls,			Hydric Sol	il Present? Yes No	<u> </u>
No hydric solls,			Hydric Sol	il Present? Yes No	<u> </u>
NO hydric Solls, YDROLOGY			Hydric Sol	il Present? Yes No	<u> </u>
Remarks: NO hydric Solls, YDROLOGY Wetland Hydrology Indicators:					<u> </u>
Remarks: NO hydric Solls, YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require			<u>Secc</u>	ondary Indicators (2 or more requ	A
Remarks: NO hydric Solls, YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	Salt Crust (B11)		<u>Secc</u>	ondary Indicators (2 or more requ Water Marks (B1) (Riverine)	
Remarks: NO hydric SollS, YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)		<u>Secc</u>	ondary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverin	
Remarks: NO hydric SollS, YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) 		<u>Secc</u>	ondary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)	
Remarks: NO hydric SollS, YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (B11) Since Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)		<u>Secc</u>	ondary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverin Drift Deposits (B3) (Riverine) Drainage Patterns (B10)	
Remarks: NO hydric SollS, YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along	and a second	<u>Secc</u>	ondary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverin Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)	
Remarks: NO hydric SollS, YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4)	1)	<u>Secc</u>	ondary Indicators (2 or more requivater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)	10)
Remarks: NO hydric SollS, YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along	1)	<u>Secc</u>	ondary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverin Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)	10)
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Remarks: NO hydric SollS, YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tiller	1)	<u>Secc</u> 	andary Indicators (2 or more required Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aenal Imag	10)
Remarks: NO hydric SollS, YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Water-Stained Leaves (B9)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4) Recent Iron Reduction in Tiller B7) Thin Muck Surface (C7) 	1)	<u>Secc</u> 	andary Indicators (2 or more required Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imag Shallow Aquitard (D3)	10)
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Remarks: NO hydric SollS, YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Imager (Image	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tiller B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	I) d Soils (C6)	s (C3)	andary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverin Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imag Shallow Aquitard (D3) FAC-Neutral Test (D5)	10)
Remarks: NO hydric Solis, YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Imagery (Imagery Stringe)) Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tiller B7) Thin Muck Surface (C7) Other (Explain in Remarks) 	i) d Soils (C6)	<u>Secc</u> s (C3) 	andary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverin Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imag Shallow Aquitard (D3) FAC-Neutral Test (D5)	gery (CS
Remarks: NO hydric Solis, YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Imagery (Imagery Stringe)) Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tiller B7) Thin Muck Surface (C7) Other (Explain in Remarks) 	i) d Soils (C6)	<u>Secc</u> s (C3) 	andary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverin Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imag Shallow Aquitard (D3) FAC-Neutral Test (D5)	gery (CS
Remarks: NO hydric SollS, YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (I Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Saturation Present? Yes Mater Table Present? Yes Mater Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, marked to the stream gauge, marked t	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tiller B7) Thin Muck Surface (C7) Other (Explain in Remarks) 	i) d Soils (C6)	<u>Secc</u> s (C3) 	andary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverin Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imag Shallow Aquitard (D3) FAC-Neutral Test (D5)	gery (CS
Remarks: NO hydric SollS, Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (I Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Mater Table Present? Yes Saturation Present? Yes Mater Table Present? Yes Saturation Present? Yes Saturation Present? Yes Mater Table Present? Yes Saturation Present? Yes Saturation Present? Yes Mater Table Present? Yes Saturation Present? Yes Mater Table Present? Yes Saturation Present? Yes Mater Table P	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tiller B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches): No Depth (inches): monitoring well, aerial photos, previous ins	() d Soils (C6) Wetla spections), if	s (C3)	andary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverin Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imag Shallow Aquitard (D3) FAC-Neutral Test (D5)	gery (CS
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WETLAND DETERMINATION	DATA FORM - Arid	West Region
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tigator(s) K.Klinefelter, A. Fowle form (hillslope, terrace, etc.): Valley 60 f	On Loca	I relief (concave, con	
egion (LRR): <u>C-Med</u>	Lat: 34 82	5005	ong: -118.842628 Datum: WG5-84
dimatic / hydrologic conditions on the site typical for this /egetation, Soil, or Hydrology s /egetation, Soil, or Hydrology n	time of year?	Yes <u>k</u> No rbed? Are "No natic? (If nee	NWI classification: Fresh water Emerge (If no, explain in Remarks.) Wetland ormal Circumstances" present? Yes <u>Y</u> No ded, explain any answers in Remarks.) cations, transects, important features, etc.
drophytic Vegetation Present? Yes N dric Soil Present? Yes N		Is the Sampled A	Area
	0	within a wetland	
Flow. Located within an ai	rea of shi	Alawn,	. NO EVIDENCE Of levation within the Floodplain of a
GETATION - Use scientific names of pla			dry lakebed.
ree Stratum (Plot size: 30)	Absolute D % Cover S	ominant Indicator pecies? Status	Dominance Test worksheet:
Salix laevigata	30	Y FACW	Number of Dominant Species 4 (A)
_ <u>b</u>			Total Number of Dominant 4 (B)
apling/Shrub Stratum (Plot size: 10)	30	Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Baccharis salicifolia	25%	Y FAC	Prevalence Index worksheet: Total % Cover of: Multiply by:
·			OBL species x1 =
A			FACW species $30 \times 2 = 60$
5			FAC species $7.5 \times 3 = 225$
Herb Stratum (Plot size: 5')	_25_	= Total Cover	FACU species 0 x4 = 0 UPL species 0 x5 = 0
1. Vitica dioica	15	Y FAC	UPL species $0 \times 5 = 0$ Column Totals: 105 (A) 185 (B)
2. Lepidiumi latifolium		-Y FAC	Prevalence Index = B/A = _2.7
3			Hydrophytic Vegetation Indicators:
5.			✓ Dominance Test is >50%
0			/Prevalence Index is ≤3.0'
7			 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation' (Explain)
Woody Vine Stratum (Plot size: NA)	_65_	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2		= Total Cover	Hydrophytic
% Bare Ground in Herb Stratum 30 % C	Cover of Biotic C		Vegetation Present? Yes No
Remarks			
			-1

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rofile Description: (Describe	e to the de				or confirm	n the absence of	indicators.)
Depth Matrix Color (moist)	%	Color (moist)	x Features	Type	Loc ²	Texture	Remarks
(0-2) $(0+2)$ $(0+2)$	100		.70	Type	LOG		
0-2 010 210	0.0	740 11/1		0	at A	Loam	V. Louise + clumbly
2-1 10/K 2/2	- 77	7484/6	1/2	-	111	Sandy bar	1
7-11 104R 3/2	96	7.5 4/6	4%	<u></u>	<u>_M</u>	Loom	More compact
Type: C=Concentration, D=D					ed Sand (tion: PL=Pore Lining. M=Matrix.
lydric Soil Indicators: (App	licable to a			ed.)			or Problematic Hydric Soils ³ :
_ Histosol (A1)		Sandy Red					JCK (A9) (LRR C)
 Histic Epipedon (A2) Black Histic (A3) 		Stripped M Loamy Mu		(E1)			uck (A10) (LRR B) d Vertic (F18)
Hydrogen Sulfide (A4)		Loamy Mu					rent Material (TF2)
Stratified Layers (A5) (LR	RC)	Depleted M		1. 10			Explain in Remarks)
1 cm Muck (A9) (LRR D)		Redox Dar		(F6)			
Depleted Below Dark Sur		Depleted 0		And Address of the Ad		1	
Thick Dark Surface (A12)		Redox De		F8)			f hydrophytic vegetation and
Sandy Mucky Mineral (S1 Sandy Gleyed Matrix (S4	*	Vernal Po	ois (F9)				ydrology must be present. sturbed or problematic.
Restrictive Layer (if present			-			uniess dis	nurbed of problematic.
Type: Hard Pan							
Depth (inches): 10 in						Huddle Soll I	Present? Yes No V
does not r	meet	for Fo	66	eco	ruse	not e	enough
does not r Redox	meet n up	for for for	6 b Jers	e co	auser o	not t	enough nse soils at 10" that
does not r Redox	meet n up	for for for for	8 b Jers	s. La	auser o ould n	hard, de thard, de	enough nse soils at 10" that 1 past.
does hot r Redox IYDROLOGY Wetland Hydrology Indicate		per la	jer	s.L	a USE uyer o ould n	f hard, du of be dug	enough nse soils at 10" that 1 Past.
does not r Redox		per la	jer	s.L	a USE uyer o ould n	f hard, du of be dug	enough nse soils at 10" that 1 Past. dary Indicators (2 or more required)
does hot r Redox IYDROLOGY Wetland Hydrology Indicate		uired, check all that ap	9079 ply) st (B11)	s.L	zUSE zyer o ould n	f hard, du of be chy Secon	nse soils of 10" that 1 past.
OOES NOT IN REJOX IYDROLOGY Wetland Hydrology Indicato Primary Indicators (minimum		uired, check all that ap 	ply) st (B11) rust (B12)	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	uyer o ould n	f hard, du of be dug <u>secon</u> _ W _ Se	dary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine)
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WETLAND DETERMINATION DATA FORM - Arid West Region

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plicant/Owner SCE	N.11-1		State: CA Sampling Point: WODOL - SP. . Range: <u>S 316 Lebec</u> , <u>San Bernarduno TAN</u> , <u>R1</u> . Range: <u>S 316 Lebec</u> , <u>San Bernarduno TAN</u> , <u>R1</u>
estigator(s) <u>A. Fowler</u> , K. K.	netelter	Section, Township	Range 5 3/6 LEBEC, San Dernet Slope (%): 5
inform (millstope; terrace, etc.): Hillstop	pe	Local relief (conca	ave, convex, none): <u>Concave</u> Slope (%): <u>6</u>
Mag (LRR). C-Med	Lat: <u>39</u>	.824708	Long:
			NWI classification: NA
climatic / hydrologic conditions on the site			
			Are "Normal Circumstances" present? Yes No
Vegetation, Soil, or Hydro			(If needed, explain any answers in Remarks.)
IMMARY OF FINDINGS - Attac	h site map showing	sampling poi	nt locations, transects, important features, etc.
Contraction of the second s		Is the Sam	
	es No X	within a W	etland? Yes No X
emarks.	- M.		
ample point located on	itside of prev	iously ma	ored wetlands (WOODI),
Ipslope where upland v	egetation is gr	owing,	pped wetlands (woooi),
	•	U	
GETATION – Use scientific nar	nes of plants.		
ee Stratum (Plot size: 30 f+)	Absolute % Cover	Dominant Indica Species? State	
Salix laevigata	2		Number of Dominant Species
Quercu's lobata	15	V Fa	$\tilde{r}()$
and the second			Total Number of Dominant Species Across All Strata:3(B)
	Och -17	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: O (A/B)
epling/Shrub Stratum (Plot size.)		y 1)	<u></u>
- CVICUMENTE MULVI	au au _15_	TP	Prevalence Index worksheet: Total % Cover of: Multiply by:
			OBL species x1 =
			FACW species $2 \times 2 = 11$
			FAC species $20 \times 3 = 60$
- 6	15	= Total Cover	FACU species $15 \times 4 = 60$
erb Stratum (Plot size			UPL species <u>35</u> x 5 = 175
JUNCUS S.P.	15	N FAI	Column Totals: 72 (A) 275 (B)
BIDNUS Frectorum	35	Y VP	
Urticano dipica		N FF	
Marrubium sp.	4_	N FA	
			Dominance Test is >50% Prevalence Index is ≤3.01
			Morphological Adaptations ¹ (Provide supporting
			data in Remarks or on a separate sheet)
		= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
body Vine Stratum (Plot size: NA			
			Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
		= Total Cover	Hydrophytic
Bare Ground in Herb Stratum	% Cover of Biotic C	crust_O	Vegetation Present? Yes No
marks			
Does not meet Domina	nce Test or 6	Security	
NEDS HAL HERE PRIME			and a Million of the second seco

US Army Corps of Engineers

	cription: (Describe t	o the depth				or confirm	n the abs	ence of inc	licators.)	
Depth (inches)	Color (moist)	%	Color (moist)	ox Features %	Type		T (1)	22		
0-7	10 YE 3/2	100		70	Type	Loc ²	Textu		Remark	s lldl
2-10	10 10 2/2	100					Sind	1	1005	W/ Neur I
~ 10	TO AN AC	100 -					100	m -	duse	1
				-			-			
				-						
	ani.							-		
$d_{ij} = \frac{1}{d} + \frac{1}{d}$										
Type: C=C	oncentration, D=Depl	etion, RM=R	educed Matrix, C	S=Covered	or Coate	ed Sand G	rains.	² Location	PL=Pore Lining	. M=Matrix
lydric Soil	Indicators: (Applica	ble to all LR	Rs, unless othe	erwise note	d.)			ators for P	roblematic Hydr	ric Soils ³ ;
_ Histoso			Sandy Rec				1	cm Muck (A9) (LRR C)	
	pipedon (A2)		Stripped M			14.	60		A10) (LRR B)	
	istic (A3) en Sulfide (A4)			cky Mineral		A.8.		leduced Ve		
	d Layers (A5) (LRR C	3	Depleted M	eyed Matrix (Matrix (F3)	FZ)				Material (TF2) ain in Remarks)	
_ 1 cm M	uck (A9) (LRR D)			rk Surface (F	-6)			the texple	in in remarkay	
_ Deplete	d Below Dark Surface	e (A11)	Depleted D	Dark Surface	e (F7)					
_ Thick D	ark Surface (A12)			pressions (F	8)				drophytic vegetat	
	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Poo	ols (F9)					logy must be pre	
	Layer (if present):						Uni	ess disturb	ed or problemation	6.
	and a second									
Type:										
Depth (in	iches):		-				Hydric	Soil Prese	ant? Yes	No F
Depth (in Remarks:	iches): of meet for	hydra	- soils -	no redo	ox or	rany		Soil Press		
Depth (in Remarks: Does n	of meet for	hydro	- soils -	no redo	o x o	rany				
Depth (in Remarks: Does n YDROLC	ot meet for OGY	- hydria	soils -	no redo	o * o	rany				
Depth (in Remarks: Does n YDROLC	of meet for OGY drology Indicators:			_	× 0*	rany	other	hydr	ic soil ine	dicators.
Depth (in Remarks: Doe S. M YDROLO Vetland Hy Primary Indi	ot meet for OGY			oly)	× 0*	rany	other	hyðr Secondary 1	Indicators (2 or m	dicators.
Depth (in Remarks: Doe S m YDROLO Vetland Hy Primary Indi Surface	of ment for OGY idrology Indicators: cators (minimum of or		check all that app	oly) .t (B11)	× 0*	r any	other	hyðr Secondary I Water M	Indicators (2 or m	dicators nore required) rine)
Depth (in Remarks: Doe S m YDROLO Vetland Hy Primary Indi Surface	of meet for OGY drology indicators: cators (minimum of or Water (A1) ater Table (A2)		check all that app Salt Crus Biotic Cru	oly) .t (B11)		any	other	bydr Secondary I Water M Sedime	Indicators (2 or m Marks (B1) (Rive ent Deposits (B2)	diccators nore required) rine) (Riverine)
Depth (in Remarks: Doe S. M YDROLC Yetland Hy Primary Indi Surface High Wa Saturati	of meet for OGY drology indicators: cators (minimum of or Water (A1) ater Table (A2)	ne required, d	check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger	bly) t (B11) ust (B12) nvertebrates n Sulfide Ode	(B13) or (C1)		other	Secondary I Water M Sedime Drift De	Indicators (2 or m	diccators nore required) rine) (Riverine) arine)
Depth (in Remarks: Doe S. M YDROLC Yetland Hy Primary Indi Surface High Wa Saturati Water M	of meet for OGY Indrology Indicators: <u>cators (minimum of or</u> Water (A1) ater Table (A2) on (A3)	ne required, d	check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger	bly) t (B11) ust (B12) nvertebrates	(B13) or (C1)		other	Secondary I Water M Sedime Drift De Drainag	Indicators (2 or m Marks (B1) (Rive ent Deposits (B2) posits (B3) (Rive	nore required) rine) (Riverine) erine)
Depth (in Remarks: Doe S. M YDROLC YOROLC Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De	of meet for OGY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriveri nt Deposits (B2) (Non posits (B3) (Nonriver	ne required, d ne) riverine)	theck all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	oly) It (B11) ust (B12) nvertebrates a Sulfide Ode Rhizosphere e of Reduced	(B13) or (C1) es along 1 Iron (C	Living Roo	o + 1-e r \$ 	Secondary I Water M Sedime Drift De Drainag Dry-Sea Crayfisl	Indicators (2 or m Marks (B1) (Rive ent Deposits (B2) eposits (B3) (Rive ge Patterns (B10) ason Water Table h Burrows (C8)	nore required) rine) (Riverine) erine)) e (C2)
Depth (in Remarks: Doe S. M YDROLC Yormary Indi Surface High Wa Saturati Water M Sedime Drift De Surface	of meet for OGY drology indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverfi nt Deposits (B2) (Non posits (B3) (Nonriver Soil Cracks (B6)	ne required, (ne) iriverine) ine)	theck all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir	oly) It (B11) ust (B12) nvertebrates a Sulfide Ode Rhizosphere e of Reduced on Reductio	(B13) or (C1) es along 1 Iron (C n in Tille	Living Roo	o + 1-e r \$ 	Secondary I Water M Sedime Drift De Drainag Dry-Sea Crayfisl Saturat	Indicators (2 or m Marks (B1) (Rive ent Deposits (B2) eposits (B3) (Rive ge Patterns (B10) ason Water Table h Burrows (C8) ion Visible on Ae	nore required) rine) (Riverine) erine)
Depth (in Remarks: Doe S m YDROLO Yetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundati	of meet for OGY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriveri nt Deposits (B2) (Non posits (B3) (Nonriver Soil Cracks (B6) ion Visible on Aerial Ir	ne required, (ne) iriverine) ine)	check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	bly) t (B11) ust (B12) nvertebrates n Sulfide Odi Rhizosphere e of Reduced on Reductio k Surface (C	(B13) or (C1) es along 1 Iron (C n in Tille 27)	Living Roo	o + 1-e r \$ 	Secondary I Water M Sedime Drift De Drainag Dry-Sea Crayfisl Saturat Shallow	Indicators (2 or m Marks (B1) (Rive ent Deposits (B2) posits (B3) (Rive ge Patterns (B10) ason Water Table h Burrows (C8) ion Visible on Ae v Aquitard (D3)	nore required) rine) (Riverine) erine)) e (C2)
Depth (in Remarks: Doe S m YDROLO Yetland Hy Primary Indi Surface High Wa Saturati Vater M Sedime Drift De Surface Inundati Water-S	of meet for OGY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriveri nt Deposits (B2) (Non posits (B3) (Nonriver Soil Cracks (B6) ion Visible on Aerial Ir Stained Leaves (B9)	ne required, (ne) iriverine) ine)	check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	oly) It (B11) ust (B12) nvertebrates a Sulfide Ode Rhizosphere e of Reduced on Reductio	(B13) or (C1) es along 1 Iron (C n in Tille 27)	Living Roo	o + 1-e r \$ 	Secondary I Water M Sedime Drift De Drainag Dry-Sea Crayfisl Saturat Shallow	Indicators (2 or m Marks (B1) (Rive ent Deposits (B2) eposits (B3) (Rive ge Patterns (B10) ason Water Table h Burrows (C8) ion Visible on Ae	nore required) rine) (Riverine) erine)) e (C2)
Depth (in Remarks: Doe S m YDROLC Yetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Surface Inundati Water-S field Obser	of meet for OGY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriveri nt Deposits (B2) (Non posits (B3) (Nonriver Soil Cracks (B6) ion Visible on Aerial In stained Leaves (B9) vations:	ne <u>required, (</u> ne) iriverine) ine) nagery (B7)	check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	oly) t (B11) ust (B12) nvertebrates n Sulfide Odi Rhizosphere of Reduced on Reductio k Surface (C splain in Ren	(B13) or (C1) es along 1 Iron (C n in Tille 27)	Living Roo	o + 1-e r \$ 	Secondary I Water M Sedime Drift De Drainag Dry-Sea Crayfisl Saturat Shallow	Indicators (2 or m Marks (B1) (Rive ent Deposits (B2) posits (B3) (Rive ge Patterns (B10) ason Water Table h Burrows (C8) ion Visible on Ae v Aquitard (D3)	nore required) rine) (Riverine) erine)) e (C2)
Depth (in Remarks: Doe s m YDROLC Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S field Obser	of meet for OGY drology indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriveri nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) ion Visible on Aerial Ir Stained Leaves (B9) vations: ter Present? Ye	ne required, (ne) iriverine) ine) nagery (B7) es No	<u>check all that app</u> <u>Salt Crus</u> <u>Biotic Cru</u> <u>Aquatic Ir</u> <u>Hydroger</u> <u>Oxidized</u> <u>Presence</u> <u>Recent Ir</u> <u>Thin Muc</u> <u>Other (Ex</u> <u>L</u>	oly) It (B11) Ist (B12) Invertebrates In Sulfide Ode Rhizosphere In Reduced On Reductio In Reductio Reductio K Surface (C kplain in Rem	(B13) or (C1) es along 1 Iron (C n in Tille 27)	Living Roo	o + 1-e r \$ 	Secondary I Water M Sedime Drift De Drainag Dry-Sea Crayfisl Saturat Shallow	Indicators (2 or m Marks (B1) (Rive ent Deposits (B2) posits (B3) (Rive ge Patterns (B10) ason Water Table h Burrows (C8) ion Visible on Ae v Aquitard (D3)	nore required) rine) (Riverine) erine)) e (C2)
Depth (in Remarks: Doe S m YDROLC Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S field Obser Surface Water Vater Table	of meet for OGY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriveri nt Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) ion Visible on Aerial Ir Stained Leaves (B9) vations: ter Present? Ye Present? Ye	ne required, d ne) iriverine) ine) nagery (B7) es No es No	<u>check all that app</u> <u>Salt Crus</u> <u>Biolic Cru</u> <u>Aquatic Ir</u> <u>Aquatic Ir</u> <u>Crus</u> <u>Aquatic Ir</u> <u>Crus</u> <u>Aquatic Ir</u> <u>Crus</u> <u>Crus</u> <u>Aquatic Ir</u> <u>Crus</u> <u>Aquatic Ir</u> <u>Aquatic Ir</u> <u>Crus</u> <u>Aquatic Ir</u> <u>Aquatic Ir}</u> <u>Aquatic Ir}</u> <u>Aquatic Ir}</u> <u>Aquatic Ir}</u> <u>Aquatic Ir}</u> <u>Aquatic Ir}</u> <u>Aquatic Ir</u> <u>Aquatic Ir</u> <u>Aquatic Ir}</u> <u>Aquatic Ir}</u> <u>Aquatic</u>	oly) It (B11) Ist (B12) Invertebrates In Sulfide Odd Rhizosphere In Reductio Reductio Reductio Reductio K Surface (C cplain in Ren Inches):	(B13) or (C1) es along 1 Iron (C n in Tille 27)	Living Rod 4) d Soils (Cf	o + 1 < r s o + 1 < r o	Secondary I Water M Sedime Drift De Drift De Drainag Dry-Sea Crayfisl Saturat Shallow FAC-Ne	Indicators (2 or m Marks (B1) (Rive ent Deposits (B3) (Rive posits (B3) (Rive ge Patterns (B10) ason Water Table h Burrows (C8) ion Visible on Ae v Aquitard (D3) eutral Test (D5)	nore required) rine) (Riverine) arine)) e (C2) trial Imagery (C9)
Depth (in Remarks: Doe S m YDROLC Yetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Surface Inundati Water-S field Obser Surface Water Surface Surface	of meet for OGY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverfinit nt Deposits (B2) (Nonriverfinit Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) vations: ter Present? Ye Present? Ye pillary fringe)	ne required, d ne) iriverine) ine) nagery (B7) is No is No is No	check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex Depth (ir Depth (ir	oly) It (B11) ust (B12) nvertebrates a Sulfide Odi Rhizosphere of Reducec on Reductio de Surface (C splain in Rem nches): nches): 	(B13) or (C1) es along 1 Iron (C n in Tille 27) marks)	Living Roo 4) d Soils (Ce	o + Le r s ots (C3) b)	Secondary I Water M Sedime Drift De Drift De Drainag Dry-Sea Crayfisl Saturat Shallow FAC-Ne	Indicators (2 or m Marks (B1) (Rive ent Deposits (B3) (Rive posits (B3) (Rive ge Patterns (B10) ason Water Table h Burrows (C8) ion Visible on Ae v Aquitard (D3) eutral Test (D5)	nore required) rine) (Riverine) erine)) e (C2)
Depth (in Remarks: Doe S m YDROLC Yetland Hy Primary Indi Surface High Wa Saturati Water N Sedime Drift De Surface Inundati Water-S field Obser Surface Water Vater Table Saturation P ncludes ca	of meet for OGY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverfinit nt Deposits (B2) (Nonriverfinit Soil Cracks (B6) Ion Visible on Aerial In Stained Leaves (B9) vations: ter Present? Ye Present? Ye resent? Ye	ne required, d ne) iriverine) ine) nagery (B7) is No is No is No	check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex Depth (ir Depth (ir	oly) It (B11) ust (B12) nvertebrates a Sulfide Odi Rhizosphere of Reducec on Reductio de Surface (C splain in Rem nches): nches): 	(B13) or (C1) es along 1 Iron (C n in Tille 27) marks)	Living Roo 4) d Soils (Ce	o + Le r s ots (C3) b)	Secondary I Water M Sedime Drift De Drift De Drainag Dry-Sea Crayfisl Saturat Shallow FAC-Ne	Indicators (2 or m Marks (B1) (Rive ent Deposits (B3) (Rive posits (B3) (Rive ge Patterns (B10) ason Water Table h Burrows (C8) ion Visible on Ae v Aquitard (D3) eutral Test (D5)	nore required) rine) (Riverine) arine)) e (C2) trial Imagery (C9)
Depth (in Remarks: Doe S m YDROLO YUROLO Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S Field Obser Surface Water Surface Water Surface Water Surface Water Surface Water Surface Water Surface Reference Source S	of meet for OGY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverfinit nt Deposits (B2) (Nonriverfinit Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) vations: ter Present? Ye Present? Ye pillary fringe)	ne required, d ne) iriverine) ine) nagery (B7) is No is No is No	check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex Depth (ir Depth (ir	oly) It (B11) ust (B12) nvertebrates a Sulfide Odi Rhizosphere of Reducec on Reductio de Surface (C splain in Rem nches): nches): 	(B13) or (C1) es along 1 Iron (C n in Tille 27) marks)	Living Roo 4) d Soils (Ce	o + Le r s ots (C3) b)	Secondary I Water M Sedime Drift De Drift De Drainag Dry-Sea Crayfisl Saturat Shallow FAC-Ne	Indicators (2 or m Marks (B1) (Rive ent Deposits (B3) (Rive posits (B3) (Rive ge Patterns (B10) ason Water Table h Burrows (C8) ion Visible on Ae v Aquitard (D3) eutral Test (D5)	nore required) rine) (Riverine) arine)) e (C2) trial Imagery (C9)
Depth (in Remarks: Doe S m YDROLC Vetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S field Obser Surface Wat Vater Table Saturation P includes ca Describe Re	of meet for OGY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverfinit nt Deposits (B2) (Nonriverfinit Stained Leaves (B2) (Nonriverfinit Stained Leaves (B2) vations: ter Present? Ye Present? Ye pillary fringe) corded Data (stream)	ne required, d ne) iriverine) ine) nagery (B7) is No is No is No gauge, monit	check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex Depth (ir Depth (ir Depth (ir oring well, aenal	bly) It (B11) ust (B12) nvertebrates a Sulfide Ode Rhizosphere e of Reduced on Reductio k Surface (C cplain in Rem nches): nches): photos, pre	(B13) or (C1) es along 1 Iron (C n in Tille 27) narks) vious ins	Living Rod 4) d Soils (Ce wet) spections),	o + I < r	Secondary I Water M Sedime Drift De Drainag Dry-Sei Crayfisl Saturat Shallow FAC-Ne	Indicators (2 or m Marks (B1) (Rive ent Deposits (B3) (Rive posits (B3) (Rive ge Patterns (B10) ason Water Table h Burrows (C8) ion Visible on Ae v Aquitard (D3) eutral Test (D5)	nore required) rine) (Riverine) arine)) e (C2) trial Imagery (C9)
Depth (in Remarks: Doe S m YDROLC Vetland Hy mary Indi Surface High Wa Saturati Water M Sedime Drift De Surface Inundati Water-S field Obser urface Wat Vater Table aturation P ncludes ca rescribe Re	of meet for OGY drology Indicators: cators (minimum of or Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonriverfinit nt Deposits (B2) (Nonriverfinit Soil Cracks (B6) ion Visible on Aerial In Stained Leaves (B9) vations: ter Present? Ye Present? Ye pillary fringe)	ne required, d ne) iriverine) ine) nagery (B7) is No is No is No gauge, monit	check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex Depth (ir Depth (ir Depth (ir oring well, aenal	bly) It (B11) ust (B12) nvertebrates a Sulfide Ode Rhizosphere e of Reduced on Reductio k Surface (C cplain in Rem nches): nches): photos, pre	(B13) or (C1) es along 1 Iron (C n in Tille 27) narks) vious ins	Living Rod 4) d Soils (Ce wet) spections),	o + I < r	Secondary I Water M Sedime Drift De Drainag Dry-Sei Crayfisl Saturat Shallow FAC-Ne	Indicators (2 or m Marks (B1) (Rive ent Deposits (B3) (Rive posits (B3) (Rive ge Patterns (B10) ason Water Table h Burrows (C8) ion Visible on Ae v Aquitard (D3) eutral Test (D5)	nore required) rine) (Riverine) arine)) e (C2) trial Imagery (C9)

4 ...

Project/Site: Gorman-Kern River Web #V	City/County: Kern County Sampling Date: 12/10/202	3
Applicant/Owner SCE	State CH Sampling Point W0001 - SP	Z
Investigator(s). K. Klinck Her, A. Fowl	er Section, Township, Range: Castac Land Grants, Civil Colonies	
Landform (hillslope, terrace, etc.):hellsloper	Local relief (concave, convex, none): concave Slope (%): 17	
Subarra Da 1	Lat: 34.828757 Long -118.948019 Datum: WE15-84	è
Soil Map Unit Name Area not Surveyed for		
Are climatic / hydrologic conditions on the site lypical for this	time of year? Yes No (If no, explain in Remarks.)	
Are Vegeteller	gnificantly disturbed? Are "Normal Circumstances" present? Yes No	
Are Vegetation, Soil, or Hydrology n	aturally problematic? (If needed, explain any answers in Remarks.)	
SUBMALOV OF SUBMAS		

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophylic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes		Is the Sampled Area within a Wetland?	Yes	No_/	
Remarks: Sample point taken Lake is located to	within an	area pre	viously mapped as	awetland	d. Castaic	-

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>401</u>) 1 Dulix aerigata	Absolute % Cover 25	Dominant Species?	Indicator Status CACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
3				Total Number of Dominant Species Across All Strata (B)
Sapling/Shrub Stratum (Plot size: 10")		= Total Co		Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)
1. Tamanisk SP	50	~	FAC	Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species $0 \times 1 = 0$
4				FACW species 75 $x_2 = 50$ FAC species 55 $x_3 = 115$
5	50	= Total Co	ver	FACU species 0 $x4 = 0$ UPL species 5 $x5 = 25$
2. Hirschfeldig incana	55	1	SAC NE	Column Totals: 135 (A) 190 (B)
3				Prevalence Index = B/A =4 Hydrophytic Vegetation Indicators:
4.				Dominance Test is >50%
5e				Prevalence Index is ≤3.0 ¹
67.		-		Morphological Adaptations' (Provide supporting
8.			_	data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size: NA)	10	= Total Co	over	Problematic Hydrophylic Vegetation' (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				
% Bare Ground in Herb Stratum 49 % Cov	er of Biotic	_ = Total Co Crust	over O	Hydrophytic Vegetation Present? Yes <u>No</u>
Remarks:		-		
Meets for both Dominance Test	and f	prevalen	ice In	dex.

SOIL

Sampling Point

Depth Matrix	Redox Features	
inches) Color (moist) %	Color (moist) % Type ¹	Loc ² Texture Remarks
28 10 YR 4/2		- Clay ban, hit hard larges
		line reats them
	Contraction of the second s	
ype: C=Concentration, D=Depletion, RM ydric Soil Indicators: (Applicable to al	I=Reduced Matrix, CS=Covered or Coated	Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
_ Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
_ 1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	Studiostory of build and the second
 Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 	Redox Depressions (F8) Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present.
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive Layer (if present):		
Type: Hard Pan / dense soul	2	and the second se
Depth (inches): 8'in		Hydric Soil Present? Yes No
Remarks: Hit hard, dunse layer Does not meet for hyp	unable to dig pasti dric soils.	
Hit hard, dense layer Does not meet for hy	unable to dig pasti dric soils.	
Hit hard, dense layer Does not meet for hy YDROLOGY	unable to dig pasti dric soils.	
H.t hard, dense layer Does not meet for hy YDROLOGY Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required)		Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Hit hard, dense layer Does not meet for hy YDROLOGY Wetland Hydrology Indicators:	red; check all that apply)	Water Marks (B1) (Riverine)
Hit hard, dense layer Does not meet for hyp YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	red; check all that apply) Salt Crust (B11)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
H.t hard, dense layer Does not meet for hyp YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	red; check all that apply) Sall Crust (B11) Biotic Crust (B12)	Water Marks (B1) (Riverine)
H.t hard, dense layer Does not meet for hyp YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	red; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
H.+ hard, dense layer Does not meet for hyp YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	red; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) iving Roots (C3) Dry-Season Water Table (C2)
H.t hard, dense layer Does not meet for hyp YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requir 	red; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along L	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) V Drainage Patterns (B10) iving Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
H.+ hard, dense layer Does not meet for hyp YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	red; check all that apply) Sall Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) iving Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
H.+ hard, dense layer Does not meet for hyp YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	red; check all that apply) Sall Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) iving Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9)
H.+ hard, dense layer Does not meet for hyp YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requin 	red; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Urainage Patterns (B10) iving Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
H.+ hard, dense layer Poes not meet for hys YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requir 	red; check all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled (B7) Thin Muck Surface (C7) Other (Explain in Remarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Urainage Patterns (B10) iving Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
H.+ hard, dense layer Poes not meet for hys YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requin 	red; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Uning Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
H.+ hard, dense layer Poes not meet for hys YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	red; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Urainage Patterns (B10) iving Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
H.+ hard, dense layer Poes not meet for hys PDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requin 	red; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drinage Patterns (B10) U Drainage Patterns (D3) FAC-Neutral Test (D5) U Drainage Patterns (D5) U Drainage Pa
H.+ hard, dense layer Poes not meet for hys YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requin 	red; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drinage Patterns (B10) U Drainage Patterns (D3) FAC-Neutral Test (D5) U Drainage Patterns (D5) U Drainage Pa
H.+ hard, dunse layer [20es not meet for hyne] Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Pres	red; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drinage Patterns (B10) U Drainage Patterns (D3) FAC-Neutral Test (D5) U Drainage Patterns (D5) U Drainage Pa
H.+ hard, dunse layer [2015 not meet for hyse] Wetland Hydrology Indicators: Primary Indicators (minimum of one requir 	red; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No pections), if available:
H.+ hard, dense layer Poes not meet for hyp YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requin 	red; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drinage Patterns (B10) U Drainage Patterns (D3) FAC-Neutral Test (D5) U Drainage Patterns (D5) U Drainage Pa
H.+ hard, dense layer Poes not meet for hys YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requir 	red; check all that apply)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No pections), if available:

ubregion (LRR): <u>C-Med</u>	eta	Section, 1 Local reli	Fownship, Rai	convex none) None	rhon of Slop	leber top De (%) 01
e climatic / hydrologic conditions on the site typical for this e Vegetation, Soil, or Hydrologys re Vegetation, Soil, or Hydrologyn	s time of yea ignificantly naturally pro	ar? Yes_ disturbed blematic?	No	(If no, explain in Rem Normal Circumstances" pres eded, explain any answers in	arks) ent? Yes n Remarks)	No
JMMARY OF FINDINGS – Attach site map s Avdrophylic Vegetation Present? Yes <u>X</u> No Avdric Soil Present? Yes No Vetland Hydrology Present? Yes <u>No</u> Remarks:	o	Is	the Sampled	Area		
Sample point is representative on aerial imagery. This area a northwest side of Renaline.	r of a uppears	to be	orthwest grazed	and is less ve	can be d	on
EGETATION – Use scientific names of plan	ts.					
Tree Stratum (Plot size3°')	Absolute % Cover		nt Indicator ? Status	Dominance Test workshe Number of Dominant Spec That Are OBL, FACW, or F	ies o	(A)
	_	_		Total Number of Dominant Species Across All Strata:	3	(B)
Sapling/Shrub Stratum (Plot size)		= Total C	Cover	Percent of Dominant Speci That Are OBL, FACW, or F		.7 (A/B)
NA				Prevalence Index worksh Total % Cover of		chie
		-		OBL species		
· · · · · · · · · · · · · · · · · · ·				FACW species		
		-		FAC species		
		= Total C	Cover	FACU species		
erb Stratum (Plot size: 5)				UPL species		
Lepidium latifolium	15	_Y_	FAC	Column Totals:		
	30	_Y_	FACU	Carl Mark Mark		
		N	PACU	Prevalence Index =		
Brassica nigra	20	_Y	FACH	Hydrophytic Vegetation I		
Brassica nigra Juncus mexicanus						
Brassica nigra Juncus mexicanus			=	— Prevalence Index is ≤ Morphological Adaptation data in Remarks or	3.0' tions' (Provide on a separate	sheet)
Voody Vine Stratum (Plot size)			Cover	Prevalence Index is ≤3 Morphological Adaptal data in Remarks or Problematic Hydrophy	3.0 ¹ tions ¹ (Provide on a separate tic Vegetation ¹	sheet) (Explain)
Brassica nigra Juncus mexicanus	_		Cover	— Prevalence Index is ≤ Morphological Adaptation data in Remarks or	3.0 ¹ tions ¹ (Provide on a separate tic Vegetation ¹ ind wetland hydr	sheet) (Explain) ology must

Sampling Point W0002-5Pl

Profile Description: (Describe to the de Depth Matrix	Redox Features	
(inches) Color (moist) %		oc ² Texture Remarks
0-9 104R4/2 100		clay loan
9-12 10YR 3/2 100		loamy sand
		and Crains
Type: C=Concentration. D=Depletion, RN Hydric Soil Indicators: (Applicable to al	A=Reduced Matrix, CS=Covered or Coated Se ILL RRs, unless otherwise noted)	and Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
 Histosol (A1) Histic Epipedon (A2) 	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	
Thick Dark Surface (A12)	Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	and the second	unless disturbed or problematic
Restrictive Layer (if present):		
Type large cobbles		a second s
Depth (inches) 12 Inches		Hydric Soll Present? Yes No X
Remarks: 0-9 inches soils 9-12 inches looser	are moist and compact r candy soils somewhet zed roots through cample	moist
Remarks: 0-9 Inches soils 9-12 inches loosen fine-medium ci no redox within		moist
Remarks: O-9 Inches soils 9-12 Inches loosen fine-medium ci no redox within YDROLOGY	r sandy soils somewhet	moist
Remarks: O-9 Inches soils 9-12 Inches loosen fine-medium ci no redox within YDROLOGY Wetland Hydrology Indicators:	r candy soils somewhat zed roots through cample i sample, does not meet e	moist e pita ior hydric soils.
Remarks: O-9 Inches soils 9-12 Inches loosen fine-medium ci no redox within YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require	r sandy soils somewhat zed roots through sample sample, does not meet f ed; check all that apply)	moist e pita por hydric soils. Secondary Indicators (2 or more required)
Remarks: 0-9 Inches soils 9-12 Inches loosen fine-medium ci no redox within YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	r sandy soils somewhat zed roots through sample sample, does not meet f ed; check all that apply) Sall Crust (B11)	<u>Secondary Indicators (2 or more required)</u> Water Marks (B1) (Riverine)
Remarks: 0-9 Inches soils 9-12 Inches loosen Fine-medium ci no redox within YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	ed; check all that apply) Biotic Crust (B12)	Moist <u>Secondary Indicators (2 or more required)</u> <u>Water Marks (B1) (Riverine)</u> Sediment Deposits (B2) (Riverine)
Remarks: 0-9 Inches soils 9-12 Inches loosen Fine-medium ci no redox within YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	ed; check all that apply) Salt Crust (B11) Aquatic Invertebrates (B13)	Moist <u>Secondary Indicators (2 or more required)</u> <u>Water Marks (B1) (Riverine)</u> Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Remarks: 0-9 Inches soils 9-12 Inches loosen Fine-medium ci no redox within YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Hydrogen Sulfide Odor (C1)	Moist <u>Secondary Indicators (2 or more required)</u> <u>Water Marks (B1) (Riverine)</u> Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drianage Patterns (B10)
Remarks: 0-9 Inches soils 9-12 Inches soils Fine-medium ci no redox within YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livir	Moist <u>Secondary Indicators (2 or more required)</u> <u>Water Marks (B1) (Riverine)</u> Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drianage Patterns (B10)
Remarks: O-9 Inches soils 9-12 Inches loosen fine-medium ci no redox within WDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Hydrogen Sulfide Odor (C1)	Moist <u>Secondary Indicators (2 or more required)</u> <u>Water Marks (B1) (Riverine)</u> Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drianage Patterns (B10)
Remarks: 0 - 9 (nches soils 9-12 inches soils fine - medium ci no redox within YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Gracks (B6)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So	<u>Secondary Indicators (2 or more required)</u> <u>Water Marks (B1) (Riverine)</u> Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ng Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Remarks: 0 - 9 (nches soils 9-12 inches soils fine - medium ci no redox within YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So	<u>Secondary Indicators (2 or more required)</u> <u>Water Marks (B1) (Riverine)</u> Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Remarks: 0 - 9 (nches soils 9-12 inches soils fine - medium ci no redox within YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Gracks (B6)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So	<u>Secondary Indicators (2 or more required)</u> <u>Water Marks (B1) (Riverine)</u> <u>Sediment Deposits (B2) (Riverine)</u> <u>Drift Deposits (B3) (Riverine)</u> <u>Drainage Patterns (B10)</u> ng Roots (C3) <u>Dry-Season Water Table (C2)</u> <u>Crayfish Burrows (C8)</u> <u>Saturation Visible on Aerial Imagery (C9</u>
Remarks: 0 - 9 Inches solls 9-12 Inches foots Fine - medium ci no redox within YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9)	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So B7) Thin Muck Surface (C7)	Secondary Indicators (2 or more required)
Remarks: 0 - 9 (nches soils 9-12 inches soils fine - medium ci no redox within YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (F Water-Stained Leaves (B9) Field Observations:	ed; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So B7) Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required)
Remarks: 0 - 9 (nches soils 9-12 inches foots fine - medium ci no redox within YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	ed; check all that apply) Sample, does not meet e sample, does not meet e sample, does not meet e adjustion of the sample Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So B7) Thin Muck Surface (C7) Other (Explain in Remarks) No X Depth (inches):	Secondary Indicators (2 or more required)
Remarks: 0 - 9 (nches solls 9-12 inches solls Fine - medium ci no redox withur YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Nater Table Present? Yes	ed; check all that apply) Salt Crust (B11) Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduced Iron (C4) Recent Iron Reduced Iron (C4) Other (Explain in Remarks) No X Depth (inches):	moist Secondary Indicators (2 or more required)
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Contraction of the

Project/Site Gorman-Kern	River lele KV	City/County, Kern County Sampling Date 1/16/29
Applicant/Owner SCE		State CA Sampling Point H0002 SPZ
investigator(s): K. Klinefelte	r, N. Argueta	_ Section, Township, Range Unsectioned portion of Lebec topo
Landform (hillslope, terrace, etc.).	lat plain	Local relief (concave, convex, none) Non-C Slope (%)
Subregion (LRR) <u>C-med</u>	Lat	34.83530408 Long -118.8548558 Datum W 515-84
Soll Map Unit Name Area not s	surveyed - acces	55 deryed NWI classification <10 Ft outside freshwalk
Are climatic / hydrologic conditions on th	0	emergence uner a rio
Are Vegetation, Soil, or	Hydrology significat	ntly disturbed? Are "Normal Circumstances" present? Yes Ves No
Are Vegetation, Soil, or	Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - A	ttach site map showi	ing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No	- Is the Sampled Area
Hydric Soil Present? Wetland Hydrology Present?	Yes No V	within a Wetland? Yes No

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30') 1 NA		Species?	t Indicator Status	Dominance Test w Number of Domina That Are OBL, FAC	int Specie	s	1	_ (A)
2				Total Number of D Species Across All			2	(B)
4		= Total C	over	Percent of Domina That Are OBL, FAC			50-1.	(A/B)
INA	_			Prevalence Index Total % Cover	and a construction		litiply by:	
2			·	OBL species				
3				FACW species	100		201	
5				FAC species				
a	-	= Total C	over	FACU species	19.2		0.0	
Herb Stratum, (Plot size: 51)		- Total Of	0001	UPL species		a server i		
1 Lepidium latifolium	20	4	FAC	Column Totals:				
2			1.	A STATUSTICS AND A STATUSTICS			1. Day	
3 Centaurea solstitialis	5	N	UPL	Prevalence I	ndex = B/	A =	1.4	-
4 Cynodon dactylon	45_	1	UPL	Hydrophytic Veg	atation In	dicators	1	-
5				Dominance To	2525 (11) (12)23			
6				Prevalence In	dex is ≤3.	01		
7				Morphological data in Rei				
	70	= Total C	over	Problematic H	lydrophyti	c Vegeta	tion ¹ (Expla	ain)
Woody Vine Stratum (Plot size: NA)				Indicators of hydr	ic soil and	wetland	hydrology	must
1				be present, unless	disturbed	l or probl	ematic.	mast
2		= Total C		Hydrophytic Vegetation			1	
% Bare Ground in Herb Stratum % Cov	er of Biotic C	rust <u>C</u>		Present?	Yes	N	• <u>v</u>	
Remarks:								
Does not meet for Dominance	Teal			en + les				
Los net more for perinance	iest o	r pre	valent	e indik.				

Sampling Point WOODL - SP2

and the second se				
Depth Matri (inches) Color (moist)		Redox Features Color (moist) % Type	Loc [*] Texture Rer	marks
0-8 104R 2/2	100	in the	Dam	
8-10 104R 3/2			sandy learn	
	and a second second second			
10-14 104R 3/	1_100_		clay loam	
Trans C-Consentation Del	Depision DM-Da	durand Materia CC-Courses of an Constant	Sand Grains. ² Location: PL=Pore Li	ning M-Matrix
		duced Matrix, CS=Covered or Coated : Rs, unless otherwise noted.)	Indicators for Problematic F	Hydric Soils ³ :
Histosol (A1)	producto to un Liti	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)	
Histic Epipedon (A2)		Stripped Matrix (S6)	2 cm Muck (A10) (LRR B	
Black Histic (A3)		Loamy Mucky Mineral (F1)	Reduced Vertic (F18)	
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix (F2)	Red Parent Material (TF2	2)
Stratified Layers (A5) (LF	RR C)	Depleted Matrix (F3)	Other (Explain in Remark	
1 cm Muck (A9) (LRR D)		Redox Dark Surface (F6)		
Depleted Below Dark Su		Depleted Dark Surface (F7)		
Thick Dark Surface (A12)		Redox Depressions (F8)	³ Indicators of hydrophytic veg	etation and
Sandy Mucky Mineral (S	1)	Vernal Pools (F9)	wetland hydrology must be	
Sandy Gleyed Matrix (S4	and the second se		unless disturbed or problem	natic
Restrictive Layer (if present	t):			
Туре		- 10	and a second second	
Depth (inches):		-	Hydric Soil Present? Yes _	No X
10-14, compact	- and fine	nil. soils		
	and finer	soils within samp	les dues not meet for	hydric soils
HYDROLOGY	and fine	soils within samp	les dues not meet for	hydric soils
HYDROLOGY Wetland Hydrology Indicato	and finer	, soils within samp		
HYDROLOGY Wetland Hydrology Indicato Primary Indicators (minimum	and finer	No redox within samp	Secondary Indicators (2 of	or more required)
HYDROLOGY Wetland Hydrology Indicato Primary Indicators (minimum Surface Water (A1)	and finer	eck all that apply) Sall Crust (B11)	Secondary Indicators (2 c Water Marks (B1) (R	or more required)
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WETLAND	DETERMINATION	DATA FORM -	- Arid Wes	st Region
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Project/Site _ Gorman-Kern River 66	KV.	City/County Kern L	State CA Sampling Point 10005-5F
nvestigatories K KLIDEFELTER N Acou	Note.		nge. Unsectioned portion of Lebec topo
andform (hillstern the Children the Children (hillstern the Children t	12[4	Section, Township, Ra	nge Underficie portion Slope (%)
Subspice (199)		Local relief (concave,	convex, none): <u>concave</u> Slope (%) <u>17</u>
	_ Lat: 30	8531999	Long: -118, 8725743 Datum WGS-81
		1	NWI classification
Are climatic / hydrologic conditions on the site typical for this	s time of ye	ar? Yes 🗸 No _	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologys	ignificantly	disturbed? Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology n	aturally pro	blematic? (If ne	eeded, explain any answers in Remarks)
SUMMARY OF FINDINGS - Attach site map	showing	sampling point l	ocations, transects, important features, etc.
Hydric Soil Present? Yes N	o o	is the Sampled within a Wetlan	
Remarks Sample point takin in area of lower Area generally slopes NE to SW.	er elivi	ation between	n hillside and Freeway.
VEGETATION – Use scientific names of plan	ts.		
Tree Stratum (Plot size: 30')	Absolute		Dominance Test worksheet:
1 (Piot size:)	% Cover	Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC
2		·	
1		·	Total Number of Dominant Species Across All Strata: 3 (B)
4			Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size [0')		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 64.7% (A/B)
1			Prevalence Index worksheet:
2			Total % Cover of:Multiply by:
3.			OBL species x 1 =
4			FACW species $10 \times 2 = 20$
5			FAC species x3 =45
Herb Stratum (Plot size: 5)	-	= Total Cover	FACU species x 4 =
1 JUNCUS MEKICANUS	10	N FACW	UPL species x.5 =
2. Cursum Vulgare	2	N UPL	Column Totals: <u>87</u> (A) <u>295</u> (B)
3. Leymus Friticuides	20	Y FAC	Prevalence Index = $B/A = 3.39$
4. Lipidium latifulium	35	Y FAC	Hydrophytic Vegetation Indicators:
5 Cynodon dachilon	20	Y UPL	Dominance Test is >50%
6 7			Prevalence Index is ≤3.0 ¹
7			Morphological Adaptations' (Provide supporting
8			data in Remarks or on a separate sheet)
	87	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: NA)			
1			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		- Total Oc	
% Bare Ground in Herb Stratum O % Cover	of Biotic C	= Total Cover	Hydrophytic Vegetation Present? Yes No
Remarks			
Muts for Dominance Test but , wetland plants within general	not F area	revalence Inc	lux. Mix of upland and

Sampling Point W2005-SPI

Profile Description: (Describe to the dept Depth Matrix		Features				
(inches) Color (moist) %	Color (moist)	%	Type	Loc ²	Texture	Remarks
0-8 104R 2/2 100					Loam	See notes
8-11 JOYR 4/2 90	7.54R 4/6	10	C	M	sand	See notes
						Section Section 199
Type: C=Concentration, D=Depletion, RM=I				d Sand G		cation PL=Pore Lining, M=Matrix
lydric Soil Indicators: (Applicable to all L			ed.)			for Problematic Hydric Solls ³
_ Histosol (A1) _ Histic Epipedon (A2)	Sandy Redo					Muck (A9) (LRR C)
Black Histic (A3)	Stripped Mail Loamy Muck		(E1)			Muck (A10) (LRR B) ced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleye	18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				arent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Ma		(/		A CONTRACT OF A	(Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark		F6)			
Depleted Below Dark Surface (A11)	Depleted Da	rk Surface	e (F7)			
_ Thick Dark Surface (A12)	Redox Depre		-8)			of hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)	Vernal Pools	i (F9)				hydrology must be present.
_ Sandy Gleyed Matrix (S4) estrictive Layer (if present):			_		uniess c	listurbed or problematic
Type Dense soils						
Depth (inches)					Hudria Sail	Present? Yes No
	_					
8-11 in - Sandrer Soils,	swith red sils too du	wx. nse/	5 th Piffi comp	cult act Loui	to dig	sample any duper
· Soils are assumed to m	swith red swith red sils too du seet All ind	wx. nsel lication	s the Diffi icomposition	colf colf coult coul	d not a	sample any duper lig dup enough to co
* Soils are assumed to m (DROLOGY	s with red sils too du neet All ind	vost lox. licato	s th Piffi comp but	colf colf colf coul	d not a	sample any duper lig dup enough to co
 Soils are assumed to m /DROLOGY /etland Hydrology Indicators: 	seet All ind	urati	s th Piffi i comp or but	colf colf colf coult coul	0 10+ 2	sample any duper lig dup enough to co ndary Indicators (2 or more required)
* Soils are assumed to m YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one required;	seet All ind	u catu	s th Diffi comp but	colf colf coult coul	<u>0 10+ 2</u>	ug dup enough to a
* Soils are assumed to m (DROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required;	check all that apply) B11)	s th Piffi comp ar but	colf colf coult coul	<u>Secon</u>	ndary Indicators (2 or more required)
* Soils are assumed to m YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; Surface Water (A1)	check all that apply) B11) (B12)	or Do4	colf colf colf coul	<u>Secon</u> V S	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine)
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Soils are assumed to m DROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	check all that apply) B11) (B12) ertebrates sulfide Od hizosphere f Reduced	s (B13) or (C1) es along l d Iron (C4	Living Roc	<u>Secon</u> V S C ots (C3) C C	Adary Indicators (2 or more required) Vater Marks (B1) (Riverine) Rediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Prainage Patterns (B10) Pry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
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Souls are assumed to m PROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) eld Observations: urface Water Present? Yes No fater Table Present? Yes No aturation Present? Yes No aturation Present? Yes No Surface Soil Cracks (B6)	check all that apply 	B11) (B12) ertebrates sulfide Od nizosphere f Reduced Reductio Surface (C ain in Rer nes): nes):	s (B13) or (C1) es along I d Iron (C4 on in Tilled C7) marks)	Living Roc) Soils (CE		Adding and a constraint of the second of the
Soils are assumed to m PROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required; Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Vater-Stained Leaves (B9) Vater Table Present? Yes No Nater Table Present? Yes No Autor Table Present? Yes No Autor Table Present? Yes No Surface Corded Data (stream gauge, monited	check all that apply 	B11) (B12) ertebrates sulfide Od nizosphere f Reduced Reductio Surface (C ain in Rer nes): nes):	s (B13) or (C1) es along I d Iron (C4 on in Tilled C7) marks)	Living Roc) Soils (CE		Adding and a constraint of the second of the
Soils are assumed to m PROLOGY Vetland Hydrology Indicators: Immary Indicators (minimum of one required; Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) eld Observations: urface Water Present? Yes No ater Table Present? Yes No ater Table Present? Yes No surface Soil Cracks (B6) Inundation Present? Yes No ater Table Present? Yes No	check all that apply 	(B12) (B12) ertebrates sulfide Od nizosphere f Reduced Reductio Surface (C ain in Rer nes): nes): nes): notos, pre	s (B13) or (C1) es along I d Iron (C4 on in Tilled C7) marks)	iving Roc) Soils (CE 	<u>Secon</u> <u>V</u> <u>Secon</u> <u>V</u> <u>Secon</u> <u>V</u> <u>Secon</u> <u>V</u> <u>Secon</u> <u>V</u> <u>Secon</u> <u>Secon</u> <u>V</u> <u>Secon</u> <u></u>	Adding and a constraint of the second of the
Soils are assumed to massive of the second distance of the s	check all that apply) B11) (B12) ertebrates Sulfide Od hizosphere f Reduced Reductio Surface (C ain in Rer hes): hes): hotos, pre	s (B13) or (C1) es along I d Iron (C4 on in Tilled C7) marks)	iving Roc) Soils (CE 	<u>Secon</u> <u>V</u> <u>Secon</u> <u>V</u> <u>Secon</u> <u>V</u> <u>Secon</u> <u>V</u> <u>Secon</u> <u>V</u> <u>Secon</u> <u>Secon</u> <u>V</u> <u>Secon</u> <u></u>	Adding and a constraint of the second of the
Soils are assumed to maintend for the second sec	check all that apply) B11) (B12) ertebrates Sulfide Od hizosphere f Reduced Reductio Surface (C ain in Rer hes): hes): hotos, pre	s (B13) or (C1) es along l d Iron (C4 on in Tilled 27) marks) vious insp	Living Roc) Soils (CE 	<u>Secon</u> <u>Secon</u> <u>Secon</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u>	Mary Indicators (2 or more required) Vater Marks (B1) (Riverine) rediment Deposits (B2) (Riverine) print Deposits (B3) (Riverine) print Deposits (Riverine) print Deposits (Riverine) pr
Soils are assumed to m DROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) eld Observations: urface Water Present? Yes No ater Table Present? Yes No ater Table Present? Yes No ater Table Present? Yes No surface capillary fringe) secribe Recorded Data (stream gauge, moni-	check all that apply 	B11) (B12) ertebrates sulfide Od nizosphere f Reduced Reductio Surface (C ain in Rer nes): nes): nes): notos, pre	s (B13) or (C1) es along l d Iron (C4 on in Tilled C7) marks) wious insp wious insp wious insp	Living Roc) Soils (CE 	<u>Secon</u> <u>Secon</u> <u>Secon</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u>	Mary Indicators (2 or more required) Vater Marks (B1) (Riverine) rediment Deposits (B2) (Riverine) print Deposits (B3) (Riverine) print Deposits (Riverine) print Deposits (Riverine) pr

US Army Corps of Engineers

Arid West - Version 2.0

Project/Site: <u>GKR</u>	City/Cor		Kecn_ Samplin	
SCE		s	tate: <u>CA</u> Samplin	g Point <u>MD008-581</u>
Investigator(s): S. Galindo, S. Gubyo	Section	i, Township, Range: 🔀	O, TAN, RIAL	<u>)</u>
Landform (hillslope, terrace, etc.): Flood date	Local	relief (concave, convex,	none): On Case	Slope (%): 0
Subregion (LRR):				
Soll Map Unit Name: Area not surveyed, access denied			NWI classification: _	V/A
Are climatic / hydrologic conditions on the site typical for			If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology		ed? Are "Normal	Circumstances" present?	Yes 🖄 No
Are Vegetation, Soil, or Hydrology	naturally problema	tic? (If needed, e	explain any answers in Re	marks.)
SUMMARY OF FINDINGS - Attach site ma	ap showing sam	pling point location	ons, transects, impo	ortant features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No	Is the Sampled Area within a Wetland?	Yes N	10 ×
Remarks:				
Sample point taken within drainage where hydrophyt	ic vegetation is presen	nt		

VEGETATION – Use scientific names of plants.

	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1. NA			Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant Species Across All Strata: 2 (B)
4			Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)		_=Total Cover	That Are OBL, FACW, or FAC: (A/B)
1. <u>N A</u>			Prevalence index worksheet:
2			Total % Cover of: Multiply by:
3			OBL species x 1 =
4			FACW species x 2 =
5.			FAC species $4 \times 3 = \sqrt{8}$
	_	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 5+)	4.		UPL species $10 \times 5 = 50$
1. Leymos tritteoides	- 2	Y FAC	Column Totals: (A) (A) (B)
2. Urtica diolog 3. Bronus diandrus	10	<u>N</u> FAC	Prevalence Index = $B/A = -4,725$
4			Hydrophytic Vegetation Indicators:
5			Dominance Test is >50%
6			Prevalence Index is ≤3.0 ¹
7			 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8		= Total Cover	Problematic Hydrophytic Vegetation ¹ (Exp!ain)
Woody Vine Stratum (Plot size:) 1			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2			Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Co	over of Bioti	c Crust	Present? Yes <u>No X</u>
Remarks:			
Does not meet for Dominance Test or Prevalence Ir	idex.		
			Arid Most Nomina 2.0

Sampling Point: W0008-SP1

Depth Matrix Redox Features	confirm the absence of indicators.)
Depth Matrix Redux realities (inches) Color (moist) % Type ¹	Loc ² Texture
0-14 7,548312 100	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	
	Indicators for Problematic Hydric Solls ³ :
Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6)	1 cm Muck (A9) (LRR C)
Black Histic (A3)	2 cm Muck (A10) (LRR B)
Hydrogen Sunde (A4)	Reduced Vertic (F18)
Stratiled Layers (AS) (LRR C) Depleted Matrix (E3)	Red Parent Material (TF2)
Redox Dark Surface (F6)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Dark Surface (E11)	
Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4)	wetland hydrology must be present.
Restrictive Layer (if present):	unless disturbed or problematic.
Type:	a providente.
Depth (inches):	
Remarks:	Hydric Soil Present? Yes No X
	A.:
YDROLOGY	
Wetland Hydrology Indicators:	
Netland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (P10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2) (Cavifish Burrows (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4 Surface Soil Cracks (B6) Recent Iron Reduction in Tilled	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4 Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4 Surface Soil Cracks (B6) Recent Iron Reduction in Tiller Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2) 4) Crayfish Burrows (C8) d Soils (C6) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4 Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Living Roots (C3) Dry-Season Water Table (C2) 4) Crayfish Burrows (C8) d Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4 Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Fleid Observations: Yes No Depth (inches):	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4 Surface Soil Cracks (B6) Recent Iron Reduction in Tiller Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface Water Present? Surface Water Present? Yes No Depth (inches); Water Table Present? Yes No Depth (inches);	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4 Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Fleid Observations: Surface Water Present? Surface Water Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches):	Secondary Indicators (2 or more required)
High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4 Surface Soil Cracks (B6) Recent Iron Reduction in Tiller Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)

Project/Site: GKR	_ City/County: Groechine Kern sampling Date: 121 8123
Applicant/Owner: SCE. Investigator(s): S. Galtado, S. Gulya3	
Landform (hillslope, terrace, etc.): Flood plasm	Local relief (concave, convex, none): <u>None</u> Slope (%): <u>O</u> 34.876/50 Long: <u>118.8916088</u> Datum: <u>NAD83</u>
Soll Map Unit Name: <u>Area not surveyed</u> , access denied Are climatic / hydrologic conditions on the site typical for this time o Are Vegetation, Soil, or Hydrology significa Are Vegetation, Soil, or Hydrology naturally	f year? Yes No (If no, explain in Remarks.) nlly disturbed? Are "Normal Circumstances" present? Yes No
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Remarks: Outside of drainage in floods	plain to verify veg. and hydrology.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30ft) 1. OWERCUS LODATA	Absolute % Cover		t Indicator Status FRCU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant Species Across All Strata: (B)
4		_ = Total (Percent of Dominant Species 50% (A/B)
1. Toxlcodendran diversitation	_	4	FACU	Prevalence Index worksheet: Total % Cover of: Multiply by:
3.		-		OBL species x1 =
4				FACW species x2 =
5				FAC species $\frac{4}{30}$ x 3 = $\frac{240}{120}$
Herb Stratum (Plot size: 5.94,) 1. Leymus triticoides	82	_= Total	Eover FAC.	FACU species $3D$ $x 4 = 120$ UPL species $x5 =$ Column Totals: 112 (A) 366 (B)
2		-		Prevalence Index = $B/A = 3.26$
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50% Prevalence Index is ≤3.0 ¹
6				Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
	87	= Tot	al Cover	
Woody Vine Stratum (Plot size:) 1				³ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2			al Cover	Hydrophytic Vegetation Present? Yes No K
% Bare Ground in Herb Stratum %	Cover of Bio	tic Crust _		Present? Yes No No
Remarks:				
Does not meet for Dominance Test	or Preva	lence Ir	ndex.	

Profile Description: (Describe to the depth ne	eded to document the indicator or confir	m the sta	Sampling Point W0008-SP
Depth Matrix	Redox Features	n the absence of indi	cators.)
	olor (moist) % Type ¹ Loc ²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Red			
ydric Soil Indicators: (Applicable to all LRR	S. unless otherwise acted a		PL=Pore Lining, M=Matrix.
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	S, diffess otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9)	I cm Muck (/ 2 cm Muck (/ 2 cm Muck (/ Reduced Ve Red Parent I Other (Expla 3Indicators of hyde	roblematic Hydric Soils ³ : A9) (LRR C) A10) (LRR B)
Restrictive Layer (if present):		unless disturb	ed or problematic.
Type: Depth (inches):			1
Remarks:	-	Hydric Soil Pres	ent? YesNo X
YDROLOGY Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required; c			
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) 	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Other (Explain in Remarks)	C6) Shallon	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9 w Aquitard (D3) leutral Test (D5)
Field Observations:			
111 · · · · · · · · · · · · · · · · · ·	Depth (inches):		

 Water Table Present?
 Yes _____ No ____ Depth (inches): ______

 Saturation Present?
 Yes _____ No ____ Depth (inches): ______

 (includes capillary fringe)
 Wetland Hydrology Present? Yes _____ No X___

 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

 Remarks:

 No
 Moleculogic

 No
 Assumed

 No
 Floodplain

Project/Site: CIKR	City/County: Gradewine / Kern Sampling Date: 12/8/23
Applicant/Owner: SCE	State: CA Sampling PointWOOD8-SP3
Investigator(s): S. Gallado, S. Gulyag	Section, Township, Range So, TON, RIGW
Landform (hillslope, terrace, etc.) Floodplain	Local relief (concave, convex, none): None Slope (%): 0
Subregion (LRR): C.	1,914595 Long: -113,99560 Datum: NAV83
Soil Map Unit Name: Area not surveyed, access denied	NWI classification: <u>RY58C</u>
Are climatic / hydrologic conditions on the site typical for this time of y	
Are Vegetation, Soil, or Hydrology significantly	/ disturbed? Are "Normal Circumstances" present? Yes 📐 No
Are Vegetation, Soll, or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area

Wetland Hydrology Present?	Yes No X	within a Wetland? Yes No
Remarks: Continued finding hydrology,	is from SPZ, Similar	veg, assumed no soils or

VEGETATION - Use scientific names of plants.

<u>Tree Stratum</u> (Plot size:) 1)	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksh Number of Dominant Spec That Are OBL, FACW, or I	cies	A)
2 3 4			Total Number of Dominan Species Across All Strata:		В)
Sapling/Shrub Stratum (Plot size:		= Total Cover	Percent of Dominant Spec That Are OBL, FACW, or	FAC: (A	A/B)
1			Prevalence Index works	1911	
2			Total % Cover of.		
3			OBL species	x 1 =	
4			FACW species	x 2 =	
5		the second second	FAC species	x 3 =	
		= Total Cover	FACU species	x 4 =	
Herb Stratum (Plot size:)			UPL species	x 5 =	
1			Column Totals:		(B)
2			and the second second	B/A =	
4 5 6 7 8		$\equiv \equiv$	data in Remarks o	50% 3.0 ¹ Itions ¹ (Provide supporting r on a separate sheet)	9
Woody Vine Stratum (Plot size:) 1 2			Problematic Hydrophy ¹ Indicators of hydric soil at be present, unless disturb	rtic Vegetation ¹ (Explain) nd wetland hydrology mus ed or problematic.	st
% Bare Ground in Herb Stratum		= Total Cover	Hydrophytic Vegetation Present? Yes	No X	
Remarks: Same as other SP. (

Sampling Point W0008-SP3

Profile Description: (Describe to the depth needed to document	
Depth <u>Matrix Redox Fe</u> (inches) Color (moist) % Color (moist)	atures
	70 Type Loc Texture Tornerto
· · · · · · ·_	
	overed or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Co	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise	
_ Histosol (A1) Sandy Redox (S	
Histic Epipedon (A2) Stripped Matrix	
_ Black Histic (A3) Loamy Mucky M	
Hydrogen Sulfide (A4) Loamy Gleyed M	
Stratified Layers (A5) (LRR C) Depleted Matrix	(F3) Other (Explain in Remarks)
_ 1 cm Muck (A9) (LRR D) Redox Dark Sur	face (F6)
Depleted Below Dark Surface (A11) Depleted Dark S	Surface (F7)
Thick Dark Surface (A12) Redox Depressi	ions (F8) ³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Vernal Pools (F1	9) wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	unless disturbed or problematic.
Restrictive Layer (if present):	
Туре:	
and the second	Hydric Soil Present? Yes No X
Depth (inches):	Hydric Soil Present? Yes No /
Same os other SP. (W0008-SP2)	
Same as other SP, (W0008-SP2)	
Same os other SP, (W0008-SP2)	
Same of other SP, (W0008-SP2) YDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Same as other SP, (W0008-SP2) YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	
Same os other SP, (W0008-SP2) YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1) Water Marks (B1) (Riverine)
Same os other SP, (W0008-SP2) YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1) Water Marks (B1) (Riverine) (12) Sediment Deposits (B2) (Riverine)
Same as other SP, (W0008-SP2) YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1) Water Marks (B1) (Riverine) (12) Sediment Deposits (B2) (Riverine) ebrates (B13) Drift Deposits (B3) (Riverine)
Same os other SP, (W0008-SP2) YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1) Water Marks (B1) (Riverine) (12) Sediment Deposits (B2) (Riverine) ebrates (B13) Drift Deposits (B3) (Riverine) ide Odor (C1) Drainage Patterns (B10)
Same os other SP, (W0008-SP2) YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1) Water Marks (B1) (Riverine) (H12) Sediment Deposits (B2) (Riverine) ebrates (B13) Drift Deposits (B3) (Riverine) ide Odor (C1) Drainage Patterns (B10) ospheres along Living Roots (C3) Dry-Season Water Table (C2)
Same os other SP, (W0008-SP2) YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1) Water Marks (B1) (Riverine) (12) Sediment Deposits (B2) (Riverine) ebrates (B13) Drift Deposits (B3) (Riverine) ide Odor (C1) Drainage Patterns (B10) ospheres along Living Roots (C3) Dry-Season Water Table (C2) educed Iron (C4) Crayfish Burrows (C8)
Same os other SP, (W0008-SP2) YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1) Water Marks (B1) (Riverine) (H12) Sediment Deposits (B2) (Riverine) ebrates (B13) Drift Deposits (B3) (Riverine) ide Odor (C1) Drainage Patterns (B10) ospheres along Living Roots (C3) Dry-Season Water Table (C2)
Same os other SP, (W0008-SP2) YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1) Water Marks (B1) (Riverine) (12) Sediment Deposits (B2) (Riverine) abrates (B13) Drift Deposits (B3) (Riverine) ide Odor (C1) Drainage Patterns (B10) ospheres along Living Roots (C3) Dry-Season Water Table (C2) reduced Iron (C4) Crayfish Burrows (C8) eduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C3)
Same os office SR, (W0008-SP2) YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1) Water Marks (B1) (Riverine) (12) Sediment Deposits (B2) (Riverine) ebrates (B13) Drift Deposits (B3) (Riverine) fide Odor (C1) Drainage Patterns (B10) ospheres along Living Roots (C3) Dry-Season Water Table (C2) reduced Iron (C4) Crayfish Burrows (C8) eduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C3) rface (C7) Shallow Aquitard (D3)
Same os office SR, (W0008-SP2) YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1) Water Marks (B1) (Riverine) (12) Sediment Deposits (B2) (Riverine) abrates (B13) Drift Deposits (B3) (Riverine) ide Odor (C1) Drainage Patterns (B10) ospheres along Living Roots (C3) Dry-Season Water Table (C2) ideduced Iron (C4) Crayfish Burrows (C8) eduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C3) rface (C7) Shallow Aquitard (D3)
Sound: OS Other SR. (W0008-SP2) YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1)
Same os office SR, (W0008-SP2) YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1)
Sound: OS OHNER SR, (W0008-SP2) YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1)
Sound: OS OHNER SR, (W0008-SP2) YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1)
Source OS Other SP, (W0008-SP2) YDROLOGY Vetland Hydrology Indicators: 'rimary Indicators (minimum of one required; check all that apply)	1)
Source OS Other SP, (W0008-SP2) YDROLOGY Vetland Hydrology Indicators: 'rimary Indicators (minimum of one required; check all that apply)	1)
Same os other SP, (W0008-SP2) YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1)
Same as other SP, (W0008-SP2) YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1)
Same as a the SR, (W0008-SP2) YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B1 High Water Table (A2) Biotic Crust (B Saturation (A3) Aquatic Inverted Water Marks (B1) (Nonriverine) Hydrogen Sulf Sediment Deposits (B2) (Nonriverine) Oxidized Rhize Drift Deposits (B3) (Nonriverine) Presence of R Surface Soil Cracks (B6) Recent Iron R Inundation Visible on Aerial Imagery (B7) Thin Muck Surfer (Explain Field Observations: Surface Water Present? Yes Surface Water Present? Yes No Depth (inchestion (inchestion)) Saturation Present? Yes No Depth (inchestion) Burdace Corded Data (stream gauge, monitoring well, aerial pho Remarks:	1)
Same os other SP, (W0008-SP2) YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1)
Same os other SP, (W0008-SP2) YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	1)

Project/Site: SIKR	City/County Gr	orpenine I kern sampli	ing Date: 12/6/23
Applicant/Owner SCF.		State: CA Sampli	ng Point: W0010-5P1
Investigator(s): S. Gallindo, S.C.	Section, Township		
Landform (hillslope, terrace, etc.): Hillslope			
Subregion (LRR): C	Lat 34,924918	Long: -118,919754	Datum: NAD83
Soil Map Unit Name 461 - Geghus-Tecuya	association, 30 to 75 perc	ent slopes NWI classification.	24SBC
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes X	lo (If no, explain in Remarks.)
And the second		Are "Normal Circumstances" present?	
Are Vegetation, Soil, or Hydrology		If needed, explain any answers in Rer	
SUMMARY OF FINDINGS - Attach site r		nt locations, transects, impo	rtant features, etc.
Hydrophylic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No X Is the Sam		~~
Demarke		unage area.	
VEGETATION – Use scientific names of	plants.		
Tree Stratum (Plot size:) 1)	Absolute Dominant Indicat % Cover Species? Statu:	and the second sec	(A)
2			

1,		That Are OBL, FACW, or FAC: (A)
3		Total Number of Dominant Species Across All Strata(B)
4	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)
1 Bacchais Salicifolia	TO Y FAC	Prevalence Index worksheet: Total % Cover of. Multiply by:
3		OBL species x1 = FACW species x2 = FAC species 10 x3 = 210
5. Herb Stratum (Plot size: 5 ft.) 1. Hirschfeldia incana 2. Manubium vulgare 3.	= Total Cover 5 7 UPL 3 7 FACU	FAC species 10 $x_3 = 10$ FACU species 3 $x_4 = 12$ UPL species 5 $x_5 = 25$ Column Totals 18 (A) 241 (B) Prevalence Index = $B/A = 3117$
4 5 6 7		Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0 ¹ Morphological Adaptations ¹ (Provide supporting
8 (Plot size:)	5 = Total Cover	dala in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
12		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum % Cove	= Total Cover	Hydrophytic Vegetation Present? Yes No
Remarks Vegetation within 40%		

epth Matrix	Redox Features		f indicators.)
nches) Color (moist) %	<u>Color (moist) % Type¹ L</u>	oc ² <u>Texture</u>	Remarks
	A=Reduced Matrix, CS=Covered or Coated S		ation: PL=Pore Lining, M=Matrix.
ydric Soil Indicators: (Applicable to al			for Problematic Hydric Soils ³ :
 Histosol (A1) Histic Epipedon (A2) 	Sandy Redox (S5) Stripped Matrix (S6)		luck (A9) (LRR C) luck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)		ed Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		arent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)		Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)		
_ Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		
_ Thick Dark Surface (A12)	Redox Depressions (F8)		of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Vernal Pools (F9)		hydrology must be present.
Restrictive Layer (if present):		Diffessio	isturbed or problematic.
Type:			
Depth (inches):		and the second second	1
Based on veg, no dramage in steep	> hydrologic indication (40) hittslopes, we	tors, and can assu	Fresent? Yes No X First-order equilibrian
Based on veg, no dramage in steep solls and no	(402) hittslopes, we wetland condition	tors, and can assu	first-order equaner
Based on veg, no Based on veg, no dramage in step soils and no YDROLOGY	(40) HIMSLOPES, we	tors, and can assu	first-order equaner
Remarks: Based on veg, no dramage in steep Solls and no YDROLOGY Wetland Hydrology Indicators:	(405) hittslopes, we wetland condition	iors, and can assums.	first-order ephaner sime no hydric
Remarks: Based on Veg. no Jramage in Seep Solls and no YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi	ired; check all that apply)	iors, and can assums. seco	first-order ephener ame no hydric
Remarks: Based on Veg. no Jramage in Seep Solls and no YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	ired, check all that apply) Sall Crust (B11)	iors, and can assums. <u>seco</u>	first-order ephener ome no hydric ndary Indicators (2 or more required) Nater Marks (B1) (Riverine)
Remarks: Based on Veg. no Gramage in Steep Solls and no YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2)	ired; check all that apply)	nors, and can assume mg. <u>Seco</u>	first-order equilibrian ome no hydric ndary Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Remarks: Based on Veg. no Jramage in Seep Solls and no YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	ired, check all that apply) Salt Crust (B11) Biotic Crust (B12)	Nors, and can assume mg. <u>Seco</u>	first-order ephener ome no hydric ndary Indicators (2 or more required) Nater Marks (B1) (Riverine)
Remarks: Based on Veg. no Gramage in Step Solls and no YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3)	ired, check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Nors, and can assume mg. 	first-order equipment ome no hydric ndary Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Remarks: Based on Veg. In Grandge in Step Solls and no YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	ired, check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	iving Roots (C3)	Arch-order equipment and any Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Remarks: Based on Vegen Solls and No YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	ired, check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dividized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	iving Roots (C3)	Arch-order equipment and any Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Remarks: Based on Vegen Solls and No YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery	ired, check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dividized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled y (B7)Thin Muck Surface (C7)	Nors, and can assume mg. Second Second Solis (C3) Solis (C6)	First - or der ephenon and no hydric Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Onft Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aenal Imagery (C9 Shallow Aquitard (D3)
Remarks: Based on Vegena Solls and No YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9)	ired, check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dividized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	Nors, and can assume mg. Second Second Solis (C3) Solis (C6)	First-order ephenon and no hydric ndary Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aenal Imagery (C9
Remarks: Based on Vegen Solls and Negen Solls and Negen YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations:	ired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Aquatic Invertebra	Nors, and can assume mg. Second Second Solis (C3) Solis (C6)	First - or der ephenen ome no h-(dric Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Onft Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aenal Imagery (C9 Shallow Aquitard (D3)
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Remarks: O Video Area Based on Vegen (Area Solls and No YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one reques Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes	ired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled y (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	ving Roots (C3)	First - or der ephenon and no hydric Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Onft Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aenal Imagery (C9 Shallow Aquitard (D3)
Remarks: O Video Area Based on Vegen (Area Solls and No YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one reques Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes	ired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Aquatic Invertebrates	ving Roots (C3)	Arch-order equipment and any Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aenal Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Remarks: Based of Vegen (A) Based of Vegen (A) Primary Indicators: Primary Indicators (minimum of one requence) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturatio	ired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled r (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): a, monitoring well, aerial photos, previous insp	Vetland Hydrolo	Architecture and an architecture and any Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aenal Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Remarks: Based of Vegen (A) Based of Vegen (A) Primary Indicators: Primary Indicators (minimum of one requence) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturatio	ired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled r (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): a, monitoring well, aerial photos, previous insp	Vetland Hydrolo	Architecture and an architecture and any Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aenal Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Remarks: Based of Vegen (A) Solid and (A) Primary Indicators (minimum of one requence) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Saturation	ired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Aquatic Invertebrates	Vetland Hydrolo	figh-order equipment andary Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Onift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aenal Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) gy Present? Yes No X

ProjecuSite: GKR	City/County: Stalloon	Sampling Date: 1217/23
SIG		State: CA Sampling Point. WDD15-591
Investigator(s) S. Galindo, S. Gulya	Section, Township, Range	534, T325, B31E
andform (hillslope terrace, etc.): Valler	Local relief (concave, con	vex, none): Concave Slope (%); D
Subregion (LRR):	Lat: 35.094526	ong:-118.635489 Datum: <u>NAP83</u>
Soil Map Unit Name: 140 - Havala sandy loam, 0 to		
Are climatic / hydrologic conditions on the site typical for this	s time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology s		prmal Circumstances" present? Yes <u>></u> No
Are Vegetation, Soil, or Hydrology r		led, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map		
Hydrophytic Vegetation Present? Yes Yes	Is the Sampled A	
	within a wetland	? Yes No 🔀
Wetland Hydrology Present? Yes X Remarks: Adjacent to Banducci R Valley with cattle, agricu	2 pad and ranche	5. Located in a flat
valley with cattle, agrico	(toral activities,	
VEGETATION – Use scientific names of pla		
	Absolute Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1	<u>% Cover Species?</u> <u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW, or FAC: (A/B)
1		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3		OBL species x 1 =
4		FACW species $25 \times 2 = 50$
5		FAC species $2 \times 3 = 6$
C F L	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 5 ft.)	2 N FAC	UPL species $10 \times 5 = 50$
1 ASCIEDIAS Pascicularis	2 N FAC	
2. Juncis mexicanus		Prevalence Index = $B/A = \frac{2 \cdot 8 \cdot 6}{2 \cdot 8 \cdot 6}$
3. Stipa pulchra		Hydrophytic Vegetation Indicators:
5		Dominance Test is >50%
6		F Prevalence Index is $\leq 3.0^{1}$
7		 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8	31 = Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		
12.		 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
L.	= Total Cover	Hydrophytic
% Bare Ground in Herb Stratum %		Vegetation Present? Yes No
Remarks:		
Veg, present. mects f	or dominance too	t and prevalence index.
5		

S

1

OIL		Sampling Point.	
rofile Description: (Describe to the de	pth needed to document the Indicator or con	firm the absence of Indicators.)	
Depth Matrix	Redox Features		
nches) Color (moist) %	<u>Color (moist) % Type' Loc</u>		
-4 104R 3/2 100		LC	
1-8 548 31, 100		LC, growel	
5-14 104B3/1 99	-2,54R 3/6 1 C M	LC Prominent redox.	
	M=Reduced Matrix, CS=Covered or Coated Sar		
lydric Soli Indicators: (Applicable to a		Indicators for Problematic Hydric Soils ³ :	
_ Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)	
_ Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)	
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2)	Reduced Vertic (F18)	
Stratified Layers (A5) (LRR C)	Depleted Matrix (F2)	Red Parent Material (TF2) Other (Explain in Remarks)	
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)		
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		
Thick Dark Surface (A12)	Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and	
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,	
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.	
Restrictive Layer (if present):			
Туре:			
Depth (inches):		Hydric Soil Present? Yes No	X-
-	dicators. Redax (mm)	,	
YDROLOGY			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of one reg	uired, check all that apply)	Secondary Indicators (2 or more requ	uired)
🔏 Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)	
High Water Table (A2)	Biotic Crust (B12)	Sediment Deposits (B2) (Riverin	ıe)
Saturation (A3)	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)	
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)	
Sediment Deposits (B2) (Nonriver	ine) Oxidized Rhizospheres along Liv	ing Roots (C3) Dry-Season Water Table (C2)	
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)	
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled S	colls (C6) Saturation Visible on Aerial Imag	gery (C9
Inundation Visible on Aerial Image	ry (B7) Thin Muck Surface (C7)	Shallow Aquitard (D3)	
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present? Yes 🗡	No Depth (inches):		
Water Table Present? Yes	No Depth (inches):		
(includes capillary fringe)	No Depth (inches): ge, monitoring well, aerial photos, previous inspe		o
Describe recorded both (offerin gaug			
Remarks: Standing water	domestream of pH	at mouth of culvert	

Gorman-Kern River Lelex	V City/County Kern Lounty Sampling Date 111624
Londrant/Owner SLE	State CA Sampling Point: W0017-SPI
Investigator(s) K-Klinefeller, N. Arque	
Landform (hillslope, terrace, etc.) Flat plain	Local relief (concave, convex, none): rone Slope (%).
Sublegion (LRR) C-med	Lat 34.84282893 Long -118.8623853 Datum W65-84
Sull Map Unit Name Area not surveyed -	access denied NWI classification Freshwater emergen
	ime of year? Yes V No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology sig	nificantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology na	turally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	howing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	is the Sampled Area
Wetland Hydrology Present? Yes No	within a Wetland? Yes No 3
Remarks:	
Sample point representative of Plie	Id with consistent veg. Appears grazed with

Jal austarbance	and	COW	pies.	RUNS	paratel	+0 -	1-5	Freway.	
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VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size30)	a depend of the second s	Dominant Species?	t Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC	1	(A)
2			_	Total Number of Dominant Species Across All Strata:	2	(B)
4	-	= Total Co	over	Percent of Dominant Species That Are OBL, FACW, or FAC:	50	(A/B)
1				Prevalence Index worksheet:		
2		-			ultiply by	_
3.					0	_
4		-		FACW species O x 2 =	20	
5				FAC species 30 x 3=	90	20
		= Total C	over		120	_
Herb Stratum (Plot size: 5')		-		UPL species 30 x 5=	150	
1 Juncus mexicanus	10	N	FACW	0.0	380	(8)
: Erodium botrus	30	4	FACM			
3 Legmus triticoides	30.	X	FAC	Prevalence Index = B/A =	3,80	-
4 Bramus diandrus	15	N	UPL	Hydrophytic Vegetation Indicators		
5 Brassica marg	5	N	UPL	Dominance Test is >50%		
6 Bronnys madritensis	10	N	UPL	Prevalence Index is ≤3.0 ¹		
				Morphological Adaptations ¹ (Pro	ovide suppo	rting
1	-			data in Remarks or on a sep	arate sheet)
8		= Total C		Problematic Hydrophytic Vegeta	ation ¹ (Expla	ain)
Woody Vine Stratum (Plot sizeA)		101410	over	and a set that the set		
1				Indicators of hydric soil and wetland	d hydrology	must
2	_	0.		be present, unless disturbed or prob	ematic.	
		= Total C	over	Hydrophytic		
% Bare Ground in Herb Stratum % Cov	er of Biotic (Vegetation Present? Yes	No X	
Remarks:		count	ania	index.		
Did not pass dominance test	ana	prevai	enter I	nour.		

Sampling Point WOOIT SPI

Profile Description: (Describe to the dep Depth Matrix		ox Feature				
(inches) Color (moist) %	Color (moist)	%	Type	Loc ²	Texture	Remarks
0-310 10yr 2/2 100					loam	See notes
3-10in 1048 2/1 100					loam	See notes
10-12in 104 3/2 93	7.545 4/6	7	C	M	10am	Redox
				_		
Type C=Concentration, D=Depletion, RM Hydric Soil Indicators: (Applicable to all	LRRs, unless othe	rwise not	d or Coate	d Sand G	Indicators	cation: PL=Pore Lining, M=Matnx. for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Red					Muck (A9) (LRR C)
Black Histic (A3)	tic Epipedon (A2) Stripped Matrix (S6) ck Histic (A3) Loamy Mucky Mineral (F1)					Muck (A10) (LRR B) ed Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gle					arent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted M	atrix (F3)				(Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dari					
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted D Redox Dep				3 Indiantar	of hudron hudro un horizont
Sandy Mucky Mineral (S1)	Vernal Poo		F0)			of hydrophytic vegetation and hydrology must be present.
Sandy Gleyed Matrix (S4)						isturbed or problematic.
Restrictive Layer (if present):			1			
Type:					1	
11					the second second	1
Depth (inches)		ots "	Layer (must	with start 1	Hydric Soil redox do Rin from S	Present? Yes No V es not start high enou- urface) to meut Fle
Depth (inches) Remarks: D-Bins layer is dense with B-10in: Some routs present 10-12in: Contrin redox		ots ·	Layer (must	- with start 1		
Depth (inches) Remarks: D-Bin-layer is dense wit B-10in: Some routs present		ots ·	Layer (must	- with shart 1		
Depth (inches) Remarks: D-Jins layer is dense with 3-10ins Same roots present 10-2ins Contrain redox	but no redax		Layer (must	with start 1	redox do Rin from S	
Depth (inches) Remarks: D-Jins layer is dense with 3-10ins Same routs present 10-2ins Contain redox IYDROLOGY Wotland Hydrology Indicators:	but no redax	v)	Layer (must	with start 1	redox do Rin From S Secon	es not short high enoug urlase) to meut Fle
Depth (inches) Remarks: D-Jin-layer is dense with 3-10in: Same roots present 10-2in: Contrin redox IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required	d: check all that appl Salt Crust Biotic Crust	y) (B11) st (B12)		- with start 1	redox do Rin From S <u>Secon</u> W	es not start high enou urface) to ment Fle dary Indicators (2 or more required)
Depth (inches) Remarks: D-Jin: Layer is dense with 3-10in: Same roots present 10-2 in Contrum redox IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	d; check all that appl Salt Crust Biotic Crust Aquatic Inv	v) (B11) st (B12) vertebrate:	s (B13)	- with start 1	redox do Rin Arom S Secon W Si D	dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Depth (inches) Remarks: D-3inslayer is dense with 3-10ins Same roots present 10-2 in Contain redox IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	d; check all that appl Salt Crust Biotic Crus Aquatic Int Hydrogen	y) (B11) st (B12) vertebrates Sulfide Oc	s (B13) lor (C1)		redox do Rin Arom S 	dary Indicators (2 or more required) dary Indicators (2 or more required) dater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Depth (inches)	d: check all that appl Salt Crust Biotic Crus Aquatic Int Hydrogen Oxidized F	y) (B11) st (B12) vertebrate: Sulfide Oc thizospher	s (B13) lor (C1) res along l	_iving Roo	redox do Rin Arom S Secon W Si D D D D	dary Indicators (2 or more required) /ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Depth (inches) Remarks: D-3in: Layer is dense with 3-10in: Same roots present 10-2 in: Contain redox IVDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	d: check all that appl Salt Crust Biotic Crust Aquatic Im Hydrogen Oxidized F Presence	y) (B11) st (B12) vertebrate: Sulfide Oc thizospher of Reduce	s (B13) lor (C1) res along l d Iron (C4	_iving Roo	redox do lin From S <u>Secon</u> <u>W</u> Si D Si C Si C Si C Si C Si C Si C Si C Si C Si C Si C Si C Si C Si C Si C Si C Si C Si C Si C Si Si Si Si Si Si Si Si Si Si	dary Indicators (2 or more required) (dary Indicators (2
Depth (inches)	d: check all that appl Salt Crust Salt Crust Aquatic Im Hydrogen Oxidized F Presence Recent Iro	(B11) (B12) vertebrate: Sulfide Oc thizospher of Reduce n Reductio	s (B13) lor (C1) res along l d Iron (C4 on in Tilled	_iving Roo	redox do Rin From S Secon W Si Di	dary Indicators (2 or more required) (dary Indicators (2
Depth (inches)	d: check all that appl Salt Crust Salt Crust Aquatic Im Hydrogen Oxidized F Presence Recent Iro	(B11) (B11) st (B12) vertebrates Sulfide Oc thizospher of Réduce n Reductio Surface (s (B13) lor (C1) es along l d Iron (C4 on in Tilled C7)	_iving Roo	redox do redox do Rin From S Secon W Secon	dary Indicators (2 or more required) // dary Indicators (2 or more required) // der Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Depth (inches)	d: check all that appl Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro 7) Thin Muck Other (Exp	y) (B11) st (B12) vertebrates Sulfide Oo thizospher of Réduce n Reductio Surface (surface (s (B13) ior (C1) res along l d Iron (C4 on in Tilled C7) marks)	_iving Roo) I Soils (C6	redox do redox do Rin From S Secon W Secon	dary Indicators (2 or more required) // dary Indicators (2 or more required) // der Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Depth (inches)	d: check all that appl Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro 7) Thin Muck Other (Exp No Depth (ino	y) (B11) st (B12) vertebrate: Sulfide Oc thizospher of Reduce n Reductio Surface (Surface (Iain in Re	s (B13) lor (C1) res along l d Iron (C4 on in Tilled C7) marks)	_iving Roo) I Solis (C6	redox do redox do Rin From S Secon W Secon	dary Indicators (2 or more required) // dary Indicators (2 or more required) // der Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Depth (inches)	d; check all that appl 	(B11) (B11) st (B12) vertebrate: Sulfide Oc thizospher of Reduce n Reductio Surface (blain in Rei ches): ches):	s (B13) lor (C1) res along l d Iron (C4 on in Tilled C7) marks)	Living Roo) I Soils (C6	redox do redox do lin From S Secon W D S D D S D S D D S D S D D S D D D S D S D S D S D S D S D S	dary Indicators (2 or more required) (dary Indicators (2 or more required) (required) (dary Indicators (2 or more required) (required) (dary Indicators (2 or more required) (Riverine) (required) (dary Indicators (2 or more required) (required) (dary Indicators (2 or more required) (required) (required) (dary Indicators (2 or more required) (requir
Depth (inches)	di check all that appl Salt Crust Salt Crust Aquatic Im Hydrogen Oxidized F Presence of Recent Iro 7) Thin Muck Other (Exp No Depth (ino No Depth (ino	(B11) (B11) (B12) vertebrate: Sulfide Oc thizospher of Reduce n Reductio Surface (i clain in Rei ches): ches):	s (B13) lor (C1) res along I d Iron (C4 on in Tilled C7) marks)	Living Roo) I Solis (C6	redox do redox do redox do Secon 	dary Indicators (2 or more required) Vater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3)
Depth (inches) Remarks: D-3inslager is dense with 3-10ins Same roots present i0-2 in Contain redax IVDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B3) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Includes capillary fringe) Describe Recorded Data (stream gauge, model)	di check all that appl Salt Crust Salt Crust Aquatic Im Hydrogen Oxidized F Presence of Recent Iro 7) Thin Muck Other (Exp No Depth (ino No Depth (ino	(B11) (B11) (B12) vertebrate: Sulfide Oc thizospher of Reduce n Reductio Surface (i clain in Rei ches): ches):	s (B13) lor (C1) res along I d Iron (C4 on in Tilled C7) marks)	Living Roo) I Solis (C6	redox do redox do redox do Secon 	dary Indicators (2 or more required) (dary Indicators (2 or more required) (required) (dary Indicators (2 or more required) (required) (dary Indicators (2 or more required) (Riverine) (required) (dary Indicators (2 or more required) (required) (dary Indicators (2 or more required) (required) (required) (dary Indicators (2 or more required) (requir
Depth (inches) Remarks: D-3in: Larger is dense with 3-10in: Some roots present i0-2 in: Contain redax IVDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B2) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Mater Table Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, mode) Remarks: Stream Sauge, mode)	d; check all that appl 	(B11) (B11) (B12) vertebrate: Sulfide Oct thizospher of Reduce n Reduction Surface (for ches): ches): ches): ches):	s (B13) lor (C1) res along I d Iron (C4 on in Tilled C7) marks) evious Insp	-iving Roo) I Solls (C6 	redox do Cedox do Sin From S	dary Indicators (2 or more required) (dary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5) Present? Yes <u>No</u>
Depth (inches) Remarks: D-3inslager is dense with 3-10ins Same routs present io-2 in Contain redax IVDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B2) Water Table Present? Yes Surface Water Present? Yes Saturation Present? Water Table Present? Yes Satu	d; check all that appl 	(B11) (B11) (B12) vertebrate: Sulfide Oct thizospher of Reduce n Reduction Surface (for ches): ches): ches): ches):	s (B13) lor (C1) res along I d Iron (C4 on in Tilled C7) marks) evious Insp	-iving Roo) I Solls (C6 	redox do Cedox do Sin From S	dary Indicators (2 or more required) (dary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5) Present? Yes No
Depth (inches) Remarks: D-3ins larger is dense with 3-10ins Some roots present i0-0 in Contain redax IVDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B2) Water Table Present? Yes Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Includes capillary fringe) Describe Recorded Data (stream gauge, mode) Remarks:	d; check all that appl 	(B11) (B11) (B12) vertebrate: Sulfide Oct thizospher of Reduce n Reduction Surface (for ches): ches): ches): ches):	s (B13) lor (C1) res along I d Iron (C4 on in Tilled C7) marks) evious Insp	-iving Roo) I Solls (C6 	redox do Cedox do Sin From S	dary Indicators (2 or more required) (dary Indicators (2 or more required) (ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) hallow Aquitard (D3) AC-Neutral Test (D5) Present? Yes <u>No</u>

Project/Site Forman - Karn River 6	LEV City/County Lebec/	Kern Laucha Comple	g Date 12-6-23
Applicant/Owner SCE			g Point WD018 - SP1
Investigator(s) K. Klinefelfer, A Fowl	Section, Township, Rar	nge: custac Land Grants	
Landform (hillslope, terrace, etc.) Texra re-		convex, none): None	Slope (%). 1
Subregion (LRR): C-Med	Lat: 34.854105	Long: - 118 . 874388	
Soil Map Unit Name: Area not surveyed - ac	cess denied to SMU		reshwater Emergent
Are climatic / hydrologic conditions on the sile typical for	r this time of year? Yes / No	(If no, explain in Remarks.)	1 Dear A
Are Vegetation, Soil, or Hydrology		Normal Circumstances" present?	/
Are Vegetation, Soil, or Hydrology		eded, explain any answers in Ren	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	NO X NO X	Is the Sampled Area within a Wetland?	Yes	_ No_X_
Remarks:	2 march				

Sample point taken in an open field previously mapped as a welland. The area is adjacent to JD feature 0007.

VEGETATION - Use scientific names of plants.

Tree Stratum (Piot size: 30 Ft) 1. NA		Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
2 3 4			Total Number of Dominant Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size: 10 F4)		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1_NA			Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3			OBL species x 1 =
4			FACW species O x 2 = O
5			FAC species 3/0 x3= /08
5.		= Total Cover	FACU species 10 x4= 40
Herb Stratum (Plot size: 5 Ft)		_ = Total Cover	UPL species $240 \times 5 = 130$
1 Centavrece solstitialis	1	N UR	
2 BIORUS madritensis	25	Y UPL	Column Totals. $\underline{+2}$ (A) $\underline{-278}$ (B)
3. Leymus Triticoides	35	Y FAC	Prevalence Index = B/A = 3.86
3 Leymus II, Trailey			
+ Leymus condensations	10	N FACO	
5 Lepidium latifolium		N FAC	Dominance Test is >50%
6	_		Prevalence Index is ≤3.0 ¹
7			Morphological Adaptations ¹ (Provide supporting
8.			data in Remarks or on a separate sheet)
and the second	72	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: NA)			¹ Indicators of hydric soil and wetland hydrology must
1/			be present, unless disturbed or problematic.
2	-		-
		_ = Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Co	over of Biotic	Crust 0	Present? Yes No /
Remarks: Poes not meet for D.	ominan	ce Test or i	Prevalence Index.
			Arid Mast - Version 2.0

soli

3

inches) Color (moist) %		
$\frac{\text{Color (moist)}}{2} = \frac{10 \text{ y} \text{ R} \frac{3}{12}}{100}$	Color (moist) % Type ¹ Loc ²	Loourn Roofs + Looser in ta
		Loam Roots + looser in to
pe: C=Concentration, D=Depletion, RM= dric Soil Indicators: (Applicable to all L Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Reduced Matrix, CS=Covered or Coated Sand RRs, unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9)	Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present.
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
estrictive Layer (if present):		AND A TO PROVIDE AND
Туре:		
Depth (inches):	es not mulet any hydric s	Hydric Soil Present? Yes <u>No V</u>
Depth (inches): emarks: No redox or layers - do	es not mulet any hydric s	
Depth (inches): emarks: No redox or layers - dou DROLOGY	es not meet any hydric s	
Depth (inches): emarks: No redox or layers - doo /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one required:	, check all that apply)	
Depth (inches): emarks: No redox or layers - doo /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one required) 	<u>check all that apply)</u> Salt Crust (B11)Biotic Crust (B12)Aquatic Invertebrates (B13)Hydrogen Sulfide Odor (C1)Oxidized Rhizospheres along Living RPresence of Reduced Iron (C4)Recent Iron Reduction in Tilled Soils ()Thin Muck Surface (C7)	Secondary Indicators (2 or more required)
Depth (inches): emarks: No redox or layers - doo /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one required) - Surface Water (A1) - High Water Table (A2) - Saturation (A3) - Water Marks (B1) (Nonriverine) - Sediment Deposits (B2) (Nonriverine) - Drift Deposits (B3) (Nonriverine) - Surface Soil Cracks (B6) - Inundation Visible on Aerial Imagery (B7) - Water-Stained Leaves (B9)	<u>check all that apply</u> Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Secondary Indicators (2 or more required)
Depth (inches): emarks: No redox or layers - dou 'DROLOGY fettand Hydrology Indicators: fimary Indicators (minimum of one required; Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) eld Observations:	<u>check all that apply)</u> Salt Crust (B11)Biotic Crust (B12)Aquatic Invertebrates (B13)Hydrogen Sulfide Odor (C1)Oxidized Rhizospheres along Living RPresence of Reduced Iron (C4)Recent Iron Reduction in Tilled Soils ()Thin Muck Surface (C7)	Secondary Indicators (2 or more required)
Depth (inches): emarks: No redox or byers - dou 'DROLOGY fettand Hydrology Indicators: fimary Indicators (minimum of one required) 	<u>check all that apply</u> Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (2 or more required)
Depth (inches): emarks: No redox or layers - doo //DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one required) 	<u>check all that apply</u> <u>Salt Crust (B11) </u> Biotic Crust (B12) <u>Aquatic Invertebrates (B13) </u> Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Recent Iron Reduction in Tilled Soils (Thin Muck Surface (C7) Cher (Explain in Remarks)	Secondary Indicators (2 or more required)
Depth (inches): emarks: No redox or by ers - dou //DROLOGY //DROLOGY //Etland Hydrology Indicators: rimary Indicators (minimum of one required; 	<u>check all that apply</u> <u>Salt Crust (B11) </u> Biotic Crust (B12) <u>Aquatic Invertebrates (B13) </u> Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Recent Iron Reduction in Tilled Soils (Thin Muck Surface (C7) Cher (Explain in Remarks)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) costs (C3) Dry-Season Water Table (C2) C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): emarks: No redox or bayers - doo //DROLOGY //deland Hydrology Indicators: nimary Indicators (minimum of one required) 		Secondary Indicators (2 or more required)

Citie -

Project/Site: Gorman - Kern River 66 KV	City/County: Kern	Countra	Sampling Date: [2] 6/23
Applicant/Owner: SCE		State: C/A	Sampling Point: WOUZZ-SEI
Investigator(s): K.Klinefelter, A Fowler	Section, Township, Ra	and the second se	Firants, Civil Colonics
Landform (hillslope, terrace, etc.): terrace		convex, none): None	
Subregion (LRR): Lat	34.830845	Long: -118, 8505	and the first sector of the se
Soil Map Unit Name: Avea not Surveyed - Access	denied for smu		cation: Freshwater Forested
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes / No	(If no, explain in F	Sherile Isle I a
Are Vegetation, Soil, or Hydrology signific		"Normal Circumstances"	1
Are Vegetation Pail	o - 174	needed, explain any answe	d construction of the second
SUMMARY OF FINDINGS	•••••	A DESCRIPTION OF THE OWNER OF THE OWNER OF THE	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>V</u> Yes <u> </u>		Is the Sampled Area within a Wetland?	Yes	No
Remarks: Sample point taken	neur c	ucess roo	ad and Feature 1	2005 IN a	area that

represents what was previously mapped as wetland.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30) 1. Salix Laevigata 2 3 4			Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Z (A) Total Number of Dominant Species Across All Strata: 3 (B)
Sapling/Shrub Stratum (Plot size: 15) 1. Salix laevigata		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:
2 3 4 5			Total % Cover of: Multiply by: OBL species x1 = FACW species 5 x2 = FAC species ZS x3 =
Herb Stratum (Plot size:) 1 Ademisia dracune vlus 2 Lepidium latifolium 3 Hirschfeleia incana	25	= Total Cover Facu Fac NL	FACU species 2.5 $x = 100$ UPL species $x = 5$ Column Totals: (A) (B) Prevalence Index = $B/A = 3.63$
4 5 6 7			Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8		_ = Total Cover	- Problematic Hydrophytic Vegetation' (Explain) - 'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
115	er of Biotic (_ = Total Cover +	Hydrophytic Vegetation Present? Yes No
Remarks: Meuts for Dominance Test 6	ut not	- Provedence	Index.

SOIL		Sampling Point
Profile Description: (Describe to the dep	th needed to document the indicator or c	onfirm the absence of indicators.)
$\begin{array}{c c} \text{Depth} & \underline{\text{Matrix}} \\ \hline \text{(inches)} & \underline{\text{Color}(\text{moist})} & \underline{\%} \\ \hline 0 - g & \underline{10} \ y \ S \ 2 \\ \hline - 14 & \underline{10} \ y \ S \ 2 \\ \hline \end{array}$	Redox Features	oc ² Texture Remarks Sandy barn five graved free Sandylaam finer textur
¹ Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all Histosol (A1) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)		and Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer (if present): Type: Depth (inches):	_	Hydric Soll Present? Yes No
Remarks: No redox - does not i	nucl for any hydric soil	indicators.
YDROLOGY		
Wetland Hydrology Indicators:		

Primary Indicators (minimum of one required; ch	eck all that apply)	Secondary Indicators (2 or more required)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) 	 Sall Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Other (Explain in Remarks) 	Crayfish Burrows (C8)
Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitor)	Depth (inches):	Wetland Hydrology Present? Yes No
Remarks: Does not meet the FAL-	Neutral test	

Project/Site Gorman-Kern River 66 =	
Applicant/Owner SCE	State Sampling Point: W0022 - 5P2
Investigator(s) K Klinefelter, N. Argueta	Section, Township, Range: Unsectional portion of Lebec topp
Landform (hillslope, terrace, etc.) Flat plain	Local relief (concave, convex, none) None Slope (%) OL
Subregion (LRR). C-Med	Lat: 34.83392549 Long -118.8537618 Datum WGS-P4
Soil Map Unit Name: Area not surveyed - acci	
Are climatic / hydrologic conditions on the site typical for this ti Are Vegetation, Soil, or Hydrology sign	
Are Vegetation, Soil, or Hydrology national statements and the second statement of t	urally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sh	owing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No_ Hydric Soil Present? Yes No_ Wetland Hydrology Present? Yes No_	Is the Sampled Area vithin a Wetland?

Remarks:

sample pit taken southeast side of fencing and is representative of larger plain dominated by Lepidium and Tamaxisk.

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size) 1NA		Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
2 3				Total Number of Dominant Species Across All Strata:3(B)
4		= Total Co	over	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1 Tamarisk aphylla	_10	_ 1	FAC	Prevalence Index worksheet:
2				Total % Cover of:Multiply by:
3				OBL species x 1 =
4				FACW species x 2 =
5				FAC species x 3 =
51	10	= Total Co	over	FACU species x 4 =
Herb Stratum (Plot size: 5')			FAL	UPL species x 5 =
1 Lepidium latitalium	30	1	FAC	Column Totals: (A) (B)
	40	-1-	FACU	Developer lader a D/A
3 Bromus diandrus	15_	_N	UPL	Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5				Dominance Test is >50%
6				Prevalence Index is ≤3.0 ¹
8				 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size: NA)	85	= Total Co	over	Problematic Hydrophytic Vegetation' (Explain)
				¹ Indicators of hydric soil and welland hydrology must
12				be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum 0 % Cover		= Total Co		Hydrophytic Vegetation Present? Yes No
Remarks:	ST DIOTO OI			
Ground fully covered in Veg or Le	af liff	eri		

Sampling Point WOO22-5P2

Profile Description: (Describe to the depth needed to document the indicator or	confirm the absence of indicators.)
Depth Matrix Redox Features	
21	Loc ² Texture Remarks
	clay loam
9-13 10YB 4/2 100	10amy sand
	· · · · · · · · · · · · · · · · ·
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated	
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2) Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3) Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4) Loarny Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	Red Parent Material (TF2)
	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	
Thick Dark Surface (A12) Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	unless disturbed or problematic.
Restrictive Layer (if present):	
Type NA-	
	Hudda Call December Van
Depth (inches)	nyaric soil Present? Yes No V
Depth (inches); Remarks;	Hydric Soil Present? Yes No
Remarks:	
Remarks. 0-9" - soils moist, more compact	
Remarks. 0-9" - soils moist, more compact 9-13" - looser, sandier soils. contains roots but no	redox.
Remarks. 0-9" - soils moist, more compact 9-13" - looser, sandier soils. contains roots but no No redax in sample, does not meet for hydric :	redox.
Remarks. 0-9" - soils moist, more compact 9-13" - looser, sandier soils. contains roots but no No redox in sample, does not meet for hydric : IYDROLOGY	redox.
Remarks: 0-9" - soils moist, more compact 9-13" - looser, sandier soils. contains roots but no No redox in sample, does not meet for hydric : HYDROLOGY Wetland Hydrology Indicators:	redox. Sails.
Remarks: 0-9" - soils moist, more compact 9-13" - looser, sandier soils. contains roots but no No redax in sample, does not meet for hydric s IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	redox.
Remarks: 0-9" - soils moist, more compact 9-13" - looser, sandier soils. contains roots but no No redox in sample, does not meet for hydric s IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) 	Souls. Souls. Souls. Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Remarks: 0-9" - soils moist, more compact 9-13" - looser, sandier soils. contains roots but no No redox in sample, does not meet for hydric : IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)	redox. Soils. Secondary Indicators (2 or more required)
Remarks: 0-9" - soils moist, more compact 9-13" - looser, sandier soils. contains roots but no No redox in sample, does not meet for hydric : HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)Salt Crust (B11) High Water Table (A2)Biotic Crust (B12) Saturation (A3)Aquatic Invertebrates (B13)	Souls. Souls. Souls. Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Remarks: 0-9" - Soils moist, more compact 9-13" - Looser, Sandier Soils. Contains roots but no No redox in sample, does not meet for hydric : IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Remarks: 0-9" - Soils moist, more compact 9-13" - Looser, Sandier Soils. Contains roots but no No redox in sample, does not meet for hydric : NYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)Salt Crust (B11) Biotic Crust (B12) Saturation (A3)Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drianage Patterns (B10)
Remarks: 0-9" - soils moist, more compact 9-13" - looser, sandier soils. contains roots but no No redex in sample, does not meet for hydric s IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)Salt Crust (B11) High Water Table (A2)Biotic Crust (B12) Saturation (A3)Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine)Hydrogen Sulfide Odor (C1)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drianage Patterns (B10)
Remarks: 0-9" - Soils moist, more compact 9-13" - Looser, Sandier Soils, contains roots but no No redex in sample, does not meet for hydric s IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)Salt Crust (B11) High Water Table (A2)Biotic Crust (B12) Saturation (A3)Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine)Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine)Oxidized Rhizospheres along Liv	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ing Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Remarks: 0-9" - Soils moist, more compact 9-13" - Looser, Sandier Soils. contains roots but no No redex in sample, does not meet for hydric s IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)Salt Crust (B11) High Water Table (A2)Biotic Crust (B12) Saturation (A3)Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine)Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine)Oxidized Rhizospheres along Liv Drift Deposits (B3) (Nonriverine)Presence of Reduced Iron (C4)	Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drinange Patterns (B10) Ing Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Remarks: 0-9" - Soils moist, more compact 9-13" - Looser, Sandier Soils. Contains roots but no No redox in sample, does not meet for hydric s IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) 	Secondary Indicators (2 or more required)
Remarks: 0-9" - Soils moist, more compact 9-13" - Losser, Sandier Soils. Contains roots but no No redex in sample, does not meet for hydric s IVDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Remarks: 0-9" - Soils moist, more compact 9-13" - Looser, Sandier Soils, contains roots but no No redex in sample, does not meet for hydric s IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)	Secondary Indicators (2 or more required)
Remarks: 0-9" - Soils moist, more compact 9-13" - Looser, Sandier Soils. contains roots but no No redex in sample, does not meet for hydric s IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Remarks: 0-9" - Soils moist, more compact 9-13" - Looser, Sandier Soils. contains roots but no No redex in sample, does not meet for hydric s HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Remarks: 0-9" - Soils moist, more compact 9-13" - Looser, Sandier Soils, contains roots but no No redex in sample, does not meet for hydric s IVDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Prisence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water Table Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches):	Secondary Indicators (2 or more required)
Remarks: 0-9" - Soils moist, more compact 9-13" - Looser, Sandier Soils, contains roots but no No redax in sample, does not meet for hydric s IVDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Remarks: 0-9" - Soils moist, more compact 9-13" - Looser, Sandier Soils. contains roots but no No redex in sample, does not meet for hydric s IVDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Remarks. 0-9" - soils moist, more compact 9-13" - looser, sandier soils. contains roots but no No redex in sample, does not meet for hydric s HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Remarks: 0-9" - Soils moist, more compact 9-13" - looser, Sandier Soils. contains roots but no No redex in Sample, does not meet for hydric s IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	redox. Soils.
Remarks. 0-9" - soils moist, more compact 9-13" - looser, sandier soils. contains roots but no No redex in sample, does not meet for hydric s HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	redox. Soils.
Remarks: 0-q" - Soils moist, more compact 9-13" - Looser, Sandier Soils. contains roots but no No redex in sample, does not meet for hydric s INDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	redox. Soils.

Beta Arid West Streamflow Duration Assessment Method

General site information

Project name or number: AKR Site code or identifier: Assessor(s): SIG Galinda Visit date Waterway name: SDAM] O1 -KK-Coordinates at downstream end Current weather conditions (check one) Notes on current or recent weather (decimal degrees): conditions (e.g., precipitation in previous Storm/heavy rain Lat (N):34, 828987 T Steady rain week): C Intermittent rain Rain on 12/7/23 Long (W): - 118,856725 Snowing mornino Cloudy (% cover) Datum: NA083 × Clear/Sunny Surrounding land-use within 100 m (check one or two): Describe reach boundaries: Cottonwood tree dowstream. Urban/industrial/residential Agricultural (farmland, crops, vineyards, pasture) Rabbillonsh wash, chain -link Developed open-space (e.g., golf course) fence 10ft from road down and Soft Forested upstream of road. A Other natural Why Other: Enter photo ID, or check if completed Mean channel width (m) Reach length (m): Top down: 00-KK-PP1 Mid down: 40x width, min 40 m, max 200 m 16 m Bottom up: Mid up: 200m Notes on disturbances or difficult site conditions: Disturbed or difficult conditions (check all that apply): C Recent flood or debris flow Stream modifications (e.g., channelization) Diversions □ Discharges Drought 11 Vegetation removal/limitations St Other (explain in notes) Road D None Observed hydrology: Comments on observed hydrology: O % of reach with surface flow NO hydrolad ○ % of reach with sub-surface or surface flow # of isolated pools
 # & chain-link fence. Site sketch: road Car 12h (8)

Page 2 of 4

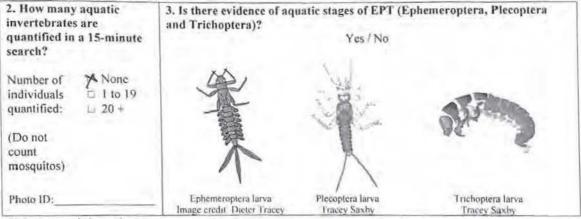
1. Hydrophytic plant species

Record up to 5 hydrophytic plant species (FACW or OBL in the Arid West regional wetland plant list) within the assessment area: within the channel or up to one half-channel width. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable:	No vegetation in assessment area	No hydrophytes in as	sessment area
	Odd		Photo
Species	distribution?	Notes	1D

Notes on hydrophytic vegetation:

2 and 3. Aquatic invertebrates



Notes on aquatic invertebrates:

4. Algal Cover

Are algae found on the streambed?	Not detected □ Yes, < 10% cover	Notes on algae cover:	Photo 1D:
Check if all observed algae appear to be deposited from an upstream source.	□ Ycs _i ≥ 10% (check Yes in single indicator below)		

5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	🗆 Yes		
	No, no fish		
	No, only non-native mosqui	tofish	
Algae cover ≥ 10	⁰ / _o □ Yes		
I sold the second second	KNO		
	/		

Page 3 of 4

Supplemental information E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc:

Photo log

Indicate if any other photos taken during the assessment

Photo ID Description

PPI Upstream from edge of road PPZ Downstream from center

Additional notes about the assessment:

(ephemeral) with rabbitbosh scrub. wash

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Classification:					
1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	 5. Single indicators a fish present algae cover ≥ 10% 	Classification
		-	(1)	Absent	Ephemeral
	0	(Absent)	Absent	Present	At least intermittent
	None	Absent	Present	Absent	Need more information
			Tresent	Present	At least intermittent
			Absent	Absent	Need more information
		Absent		Present	At least intermittent
	Few (1-19)		Present	Absent	Need more information
1	1.00 (1-13)			Present	At least intermittent
None		Present			At least intermittent
			Alexand	Absent	Need more information
		A ROOMAN	Absent	Present	At least intermittent
	Color and	Absent		Absent	Need more information
	Many (20+)		Present	Present	At least intermittent
		Present			At least intermittent
	-			Absent	Need more information
	None	Absent	Absent	Present	At least intermittent
			Present		At least intermittent
			Absent		Intermittent
	F	Absent	Present		At least intermittent
Few (1-2)	Few (1-19)	Present			At least intermittent
			Absent		Intermittent
		Absent	Present		At least intermittent
	Many (20+)		Absent		At least intermittent
		Present	Present		Intermittent
			Absent	Absent	Need more information
	None	Absent	Absent	Present	At least intermittent
			Present		At least intermittent
		Absent			At least intermittent
Many (3+)	Few (1-19)	Present			Perennial
		Absent			At least intermittent
	Many (20+)				

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.

Beta Arid West Streamflow Duration Assessment Method

General site information

	ALB		
Site code or identifier:	Assessor	(s): C C	. 5 6
Watani		J.Galind	o, S. Gulyas
Waterway name:	1+ SDAM1		Visit date:
Current weather conditions (c Storm/heavy rain Steady rain Intermittent rain Snowing Cloudy (20 % cover) Clear/Sunny	heck one) Notes on curren	nt or recent weather , precipitation in previous	Coordinates at downstream end (decimal degrees): Lat (N): 35, 127 940 Long (W): -118,720240 Datum: NA 983
Surrounding land-use within Urban/industrial/residentia Agricultural (farmland, cro Developed open-space (e.g Forested Other natural Other:	l pps, vineyards, pasture)	Describe reach bounda Chain-IInK ID A. from m w/ croded low vegetation	ries: ience up/downstream bad crossing stream o flow and minor
Mean channel width (m) 2 m	Reach length (m): 40x width, min 40 m, max 200 m	Top down:	r photo ID, or check if completed Mid down:0031-PP2 V 0031-PP1 Bottom up:
the second of the second se			HOW UP BOWNSHEED
Drought Vegetation removal/limitat Other (explain in notes) None Observed hydrology: None Nore Nore Nore with surfact Nore with surfact Nore Nore with sub-second statements	ce flow	NO CO	
Vegetation removal/limitat Other (explain in notes) None Observed hydrology: % of reach with surface % of reach with sub-s	ce flow		flow up/downstreen werts.
Vegetation removal/limitat Other (explain in notes) None Observed hydrology: None No of reach with surface	ce flow		

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E

1. Hydrophytic plant species

Record up to 5 hydrophytic plant species (FACW or OBL in the Arid West regional wetland plant list) within the assessment area: within the channel or up to one half-channel width. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable:	No vegetation in assessment area	>No hydrophytes in ass	sessment area
	Odd		Photo
Species	distribution?	Notes	ID

Notes on hydrophytic vegetation:

2 and 3. Aquatic invertebrates

2. How many invertebrates	are	3. Is there evidence of aqua and Trichoptera)?	tic stages of EPT (Ep	ohemeroptera, Plecoptera
quantified in : search?	a 15-minute		Yes / No	
Number of individuals quantified: (Do not	>None 1 to 19 20 +	X	No.	0777
count mosquitos) Photo 1D:		Ephemeroptera larva	Plecoptera larva	Trichoptera farva
		Image credit: Dieter Tracey	Tracey Saxby	Tracey Saxby

Notes on aquatic invertebrates:

4. Algal Cover

Are algae found on the streambed?	X Not detected	Notes on algae cover:	Photo ID:
Check if <u>all</u> observed algae appear to be deposited from an upstream source.	□ Yes, ≥ 10% (check. Yes in single indicator below)		

5. Are single indicators observed?

Indicator	Present	Notes	Photo ID
Fish	🗆 Yes		
	≯No, no fish	20	
	No, only non-native mosquit	ofish	
Algae cover≥ 10%	T Yes		
	1 No		

Page 3 of 4

Supplemental information E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

Photo log

Indicate if any other photos taken during the assessment

Photo ID	Description	
199	From cast	up/downstream
PP2	an road	up/downstream
663	west of	road

Additional notes about the assessment:

No water present. Haply proded low flow channel.

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Classification:

1. Hydrophytie plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover ≥ 10%	Classification
				(Absent)	Ephemoral
	None	Absent	Absent)	Present	At least intermittent
			Present	Absent	Need more information
				Present	At least intermittent
		Absent	Absent	Absent	Need more information
				Present	At least intermittent
	Few (1-19)		Present	Absent	Need more information
	1.cm (1-13)			Present	At least intermittent
None		Present			At least intermittent
				Absent	Need more information
		10000	Absent	Present	At least intermittent
		Absent		Absent	Need more information
	Many (20+)		Present	Present	At least intermittent
		Present			At least intermittent
	None	Absent	Absent	Absent	Need more information
				Present	At least intermittent
			Present		At least intermittent
	Few (1-19)	Absent	Absent		Intermittent
			Present		At least intermittent
Few (1-2)		Present			At least intermittent
	Many (20+)	Absent	Absent		Intermittent
		Aosent	Present		At least intermittent
			Absent		At least intermittent
		Present	Present		Intermittent
			Absent	Absent	Need more information
	None	Absent	1	Present	At least intermittent
Many (3+)			Present		At least intermittent
	Few (1-19)	Absent			At least intermittent
		Present			Perennial
	Many (20+)	Absent			At least intermittent
		Present			Perennial

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.

Page 1 of 4

Beta Arid West Streamflow Duration Assessment Method

General site information Project name or number: SLE Gorman-Kern River 66 KU. Subtransmission Site code or identifier: Assessor(s): 0019 K, Klinefelter A. Fowler, Waterway name: Visit date: 17 0019 12 Current weather conditions (check one) Coordinates at downstream end Notes on current or recent weather Storm/heavy rain (decimal degrees): conditions (e.g., precipitation in previous □ Steady rain Lat (N): 35.125406 week): Intermittent rain none Long (W): - 118, 84 13 75 Snowing A Cloudy (95% cover) Datum: WGS-84 Clear/Sunny Surrounding land-use within 100 m (check one or two): Describe reach boundaries: Urban/industrial/residential To South Agricultural (farmland, crops, vineyards, pasture) Feature Developed open-space (e.g., golf course) meanderin low areas Forested . hanneled lined - rap G X Other natural Cillal at TUrns arti C Other: config Mean channel width (m) Reach length (m): Enter photo ID, or check if completed ax 200 m Top down: Mid down: 0019-PP1 Mid up: Bottom up: 200 m Disturbed or difficult conditions (check all that apply): Notes on disturbances or difficult site conditions: Recent flood or debris flow after undisturbed section Stream modifications (e.g., channelization) There 15 large Diversions rap a long then a road Discharges Drought ter which it an earthen ditch aft Vegetation removal/limitations becomes ✓ Other (explain in notes) □ None Comments on observed hydrology: Observed hydrology: Pry wash with lots of residual O % of reach with surface flow Plaint Matter from 2023 growing Sedson O % of reach with sub-surface or surface flow no evidence # of isolated pools Site sketch: erosion 200 earthen Difch .scale S Sector

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Page 2 of 4

1. Hydrophytic plant species

Record up to 5 hydrophytic plant species (FACW or OBL in the Arid West regional wetland plant list) within the assessment area: within the channel or up to one half-channel width. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by scedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Check if applicable:	No vegetation in assessment area	No hydrophytes in as	sessment area
	Odd		Photo
Species	distribution?	Notes	ID

Notes on hydrophytic vegetation:

2 and 3. Aquatic invertebrates

2. How many invertebrate		3. Is there evidence of aq and Trichoptera)?	uatic stages of EPT (I	Ephemeroptera, Plecoptera
quantified in search?	a 15-minute		Yes / No	
Number of individuals quantified:	K None □ 1 to 19 □ 20 +	坐	No.	177 A
(Do not count mosquitos)		R.	X	15. 5
Photo ID:		Ephemeroptera larva Image credit Dieter Tracey	Plecoptera larva Tracey Saxby	Trichoptera larva Tracey Saxby

Notes on aquatic invertebrates:

4. Algal Cover

Are algae found on the streambed?	Not detected Ves, < 10% cover	Notes on algae cover:	Photo ID:
Check if <u>all</u> observed algae appear to be deposited from an upstream source.	□ Yes, ≥ 10% (check Yes in single indicator below)		

5. Are single indicators observed?

Present	Notes	Photo ID
□ Yes		r noto to
🗶 No, no fish		
No, only non-native mosqu	itofish	
No		
	 □ Yes ∞ No, no fish □ No, only non-native mosqu □ Yes 	 □ Yes ≈ No, no fish □ No, only non-native mosquitofish □ Yes

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Supplemental information E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

No other animals/ aqualics present

1.1

Photo log

Indicate if any other photos taken during the assessment

Photo ID Description

see JD confirmation

Additional notes about the assessment:

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1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	 5. Single indicators fish present algae cover ≥ 10% 	Classification	
	None	Absent	Absent	Absent Present Absent Present	Ephemeral At least intermittent Need more information At least intermittent	
	F (114)	Absent	Absent	Absent Present Absent	Need more information At least intermittent Need more information	
None	Few (1-19)	Present	Present	Present	At least intermittent	
\bigcirc		1. 1. 1994 (State State)	Absent	Absent	Need more information	
	Many (20+)	Absent	Present	Present Absent Present	At least intermittent Need more information At least intermittent	
		Present			At least intermittent	
	None	Absent	Absent	Absent Present	Need more information At least intermittent	-
	Few (1-19)	Absent	Present Absent Present		At least intermittent Intermittent At least intermittent	
Few (1-2)		Present			At least intermittent	
	Many (20+)	Absent	Absent Present		Intermittent At least intermittent	
	Wally (201)	Present	Absent Present		At least intermittent Intermittent	
	None	Absent	Absent	Absent Present	Need more information At least intermittent	_
		Absent	Present		At least intermittent At least intermittent	
Many (3+)	Few (1-19)	Present			Perennial	
		Absent			At least intermittent	
	Many (20+)				Perennial	

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.

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Beta Arid West Streamflow Duration Assessment Method

General site information

Project name or number: SUE	Gorman-Kern 1	River 66 KV So	obtransmission
Site code or identifier:	Assessor	(s): K. Klinefetter	, A. Fowler
Waterway name: 0044			Visit date: 12/7/33
Current weather conditions (che Storm/heavy rain Steady rain Intermittent rain Snowing Cloudy (<u>%</u> % cover) Clear/Sunny	conditions (e.g. week): No precip	nt or recent weather ., precipitation in previous ortation in S week	Coordinates af downstream end (decimal degrees): Lat (N): 35.393089 Long (W): - (18,808379 Datum: WGS-89
Surrounding land-use within 10 Urban/industrial/residential Agricultural (farmland, crop Developed open-space (e.g., Forested Other natural Other:	s, vineyards, pasture)	bench + oc	es: 1000 flow med Channel with co on w Side presence casionally two along ly one occasional
Mean channel width (m) 9 m	Reach length (m): 40x width; min 40 m, max 200 m		hoto ID, or check if completed Mid down: 4-PP1 Bottom up: 0044-PP3
 Diversions Discharges Drought Vegetation removal/limitatic Other (explain in notes) None 	ons	UPSHEALTIC ER	uns across the d of the feature.
Observed hydrology:		Comments on observed	hydrology:
0 % of reach with surface	flow	Dry sandy w	ash concard he
% of reach with sub-su # of isolated pools		steep banks is	upstream and fans
Site sketch:	0.0.0	nch	
	Low I	Coules	
		OW	

Steep Store

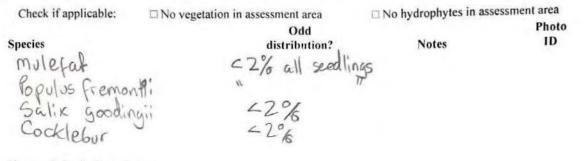
1. Hydrophytic plant species

Record up to 5 hydrophytic plant species (FACW or OBL in the Arid West regional wetland plant list) within the assessment area: within the channel or up to one half-channel width. Explain in notes if species has an odd distribution (e.g., covers less than 2% of assessment area, long-lived species solely represented by seedlings, or long-lived species solely represented by specimens in decline), or if there is uncertainty about the identification. Enter photo ID, or check if photo is taken.

Page 2 of 4

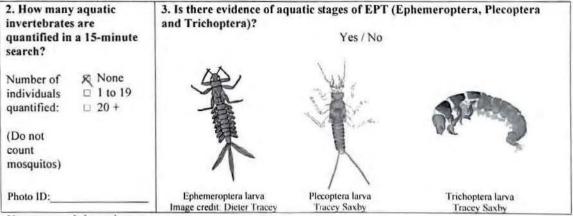
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Notes on hydrophytic vegetation:

2 and 3. Aquatic invertebrates



Notes on aquatic invertebrates:

4. Algal Cover

Are algae found on the streambed?	 Not detected Yes, < 10% cover 	Notes on algae cover: avied out + white	in mats	Photo ID:
Check if <u>all</u> observed algae appear to be deposited from an upstream source.	☐ Yes, ≥ 10% (check Yes in single indicator below)			

5. Are single indicators observed?

Present	Notes	Photo ID
□ Yes		
X No, no fish		
No, only non-native mosqu	iitofish	
🗆 Yes		
X No		
	 Yes No, no fish No, only non-native mosqu Yes 	 Yes No, no fish No, only non-native mosquitofish Yes

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Supplemental information E.g., aquatic or semi-aquatic amphibians, snakes, or turtles; iron-oxidizing bacteria and fungi; etc.

Photo log

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Indicate if any other photos taken during the assessment

Photo ID Description

See JDR

Additional notes about the assessment:

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lassification:			1 30		÷)(
1. Hydrophytic plant species	2. Aquatic invertebrates	3. EPT taxa	4. Algae	5. Single indicators • fish present • algae cover ≥ 10%	Classification	
	None	Absent	Absent	Absent Present	Ephemeral At least intermittent	-
			Present	Absent Present	Need more information At least intermittent	Y.
		Absent	Absent	Absent Present	Need more information At least intermittent	8
None	Few (1-19)		Present	Absent Present	Need more information At least intermittent	
tone		Present			At least intermittent	
			Absent	Absent Present	Need more information At least intermittent	
	Many (20+)	Absent	Present	Absent Present	Need more information At least intermittent	
		Present			At least intermittent	
	None	Absent	Absent	Absent Present	Need more information At least intermittent	-
		Ausent	Present	resent	At least intermittent	
	Few (1-19)	Absent	Absent Present		Intermittent At least intermittent	
few (1-2)	10(1-1)	Present			At least intermittent	
		Absent	Absent Present		Intermittent At least intermittent	
	Many (20+)	Present	Absent Present		At least intermittent Intermittent	
	None	Absent	Absent	Absent Present	Need more information At least intermittent At least intermittent	
	C	Absent			At least intermittent	
Many (3+)	rew (1-19)	Present			Perennial	
	Manu (20 ·)	Absent			At least intermittent	
	Many (20+)	Present			Perennial	
tany (3+)	None Few (1-19) Many (20+)	Absent Present Absent			At least intermittent At least intermittent Perennial At least intermittent	

Shading provided to enhance readability by increasing the contrast between neighboring cells; empty cells indicate the classification will not change with additional information however it is recommended that all five indicators be measured and recorded during every assessment.

Jurisdictional Delineation Results by Feature Type

							0.00M				1	
I	I		i	:	Nov. world	Non motiond Wotors		Motland Matare	Ctroombod		Dincri	nci
Feature Number	Feature Tvne	Center Coordinates (Lat/Long)	Figures 6 & 7 Sheet No. (Appendix A) ¹	Site Photos – Photo No. (Appendix B)	Acres ²	Linear Feet ²						
0001	Intermittent	34.82837165, -118.8473776	Sheet 31 (Figure 7)	W0001-PP4	I	1	:	1	1.592	885	:	1
0002	Ephemeral	34.79391544, -118.8278779	Sheet 34		0.028	176	:	:	0.144	202	I	:
0003	Ephemeral	34.80273161, -118.8305294	Sheet 33		0.049	545	ł	1	0.730	784	I	;
0004	Ephemeral	34.80973829, -118.8305382	Sheet 33	0004-PP4	0.234	1,046	1	;	0.260	1,055	:	:
0005	Ephemeral	34.83059711, -118.8506053	Sheet 31	0005-PP1	0.013	120	1	:	0.194	252	;	:
0006	Ephemeral	34.85245417, -118.8716387	Sheet 30	0006-PP2, 0006-PP3	0.039	224	ł	1	0.126	247	;	:
0007	Ephemeral	34.85545718, -118.8752278	Sheet 30	0007-PP3	0.848	2,115	1	:	1.090	2,120	;	:
0008	Ephemeral	34.87065846, -118.8866304	Sheet 29	0008-PP1	0.526	1,117	;	;	0.728	1,147	;	:
6000	Ephemeral	34.87618629, -118.8956567	Sheet 28	W0008-PP2, W0008-PP3	0.022	185	1	:	0.067	193	:	:
0010	Ephemeral	34.89146986, -118.9171779	Sheet 27		0.023	335	ł	ł	0.155	343	I	:
0011	Ephemeral	35.1158537, -118.6972945	Sheet 27		0.499	535	ł	1	0.023	205	;	:
0012	Ephemeral	34.90171824, -118.9205597	Sheet 27		0.005	203	1	:	0.014	208	I	:
0013	Ephemeral	34.92487138, -118.9190475	Sheet 25	W0010-PP1	0.016	274	ł	1	0.034	278	;	:
0014	Ephemeral	34.93447333, -118.9238193	Sheet 25		0.062	207	1	1	0.106	214	I	:
0015	Ephemeral	34.93514245, -118.9239604	Sheet 25		0.003	129	1	:	0.009	131	I	:
0016	Ephemeral	34.93639404, -118.9235389	Sheet 25		0.114	404	1	:			0.372	432
0018	Ephemeral	35.03972091, -118.8445917	Sheet 23		0.077	177	1	:	0.230	219	I	:
0019	Ephemeral	35.12496089, -118.8410214	Sheet 22	0019-PP1, 0019-PP2	0.831	538	ł	1	1.133	580	;	:
001-KK	Ephemeral	34.82889732, -118.8567952	Sheet 31	001-KK-PP1	0.042	82	1	;	0.045	85	:	:
001-LC	Ephemeral	34.88959621, -118.9143294	Sheet 28		0.025	185	ł	ł	0.037	189	1	ł
001-SG	Ephemeral	34.93146061, -118.9228064	Sheet 25	001-SG-PP1	0.002	25	1	1	0.004	27	I	1
0023	Ephemeral	35.16421845, -118.7630275	Sheet 13		0.025	187	1	1	0.025	187	I	:
0024	Ephemeral	35.1598557, -118.7600603	Sheet 14		0.014	153	ł	ł	0.014	153	1	ł
0025	Ephemeral	35.15711392, -118.7581401	Sheet 14		0.016	231	1	1	0.021	232	I	ł
0026	Ephemeral	35.1520198, -118.754711	Sheet 14		0.010	152	ł	ł	0.164	168	1	ł
0027	Ephemeral	35.14112872, -118.7470591	Sheet 15		0.005	233	1	1	0.080	256	I	1
0028	Ephemeral	35.13265367, -118.7408203	Sheet 15		0.051	289	1	1	0.314	340	I	:
0029	Ephemeral	35.12894328, -118.7300996	Sheet 16		0.004	182	ł	ł	0.012	184	I	:
002-KK	Intermittent	34.85846421, -118.8773571	Sheet 30	002-KK-PP8	0.155	574	1	;	0.232	579	0.273	679
002-LC	Ephemeral	34.90303472, -118.9207384	Sheet 27		0.004	153	1	:	0.011	155	0.088	135
0030	Ephemeral	35.1279303, -118.7265069	Sheet 16		0.007	303	1	;	0.021	305	:	:
0031	Ephemeral	35.1263938, -118.7212954	Sheet 16	0031-PP1, 0031-PP2	0.012	181	ł	ł	0.042	221	:	:
0032	Ephemeral	35.1160437, -118.6988569	Sheet 17		0.002	27	ł	ł	0.005	203	1	ł
0033	Ephemeral	35.11403531, -118.6952445	Sheet 17		0.004	203	1	ł	0.007	160	I	1
0035	Ephemeral	35.1090764, -118.6864161	Sheet 18		0.007	395	-	-	0.021	307	1	1
Aquatic Resources Delineation Report	Aquatic Resources Delineation Report Corman-Korn Diver 66 VV Subtransmission Line Project	a Liss Droiget			B-1							June 2024
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Southern California Edison

						USACE/RWQCB	WQCB			CDFW	N	
Feature	Feature		Figures 6 & 7 Sheet	Site Photos – Photo No.	Non-wetl	Non-wetland Waters	Wetlan	Wetland Waters	Strea	Streambed	Ripa	Riparian
Number	Type	Center Coordinates (Lat/Long)			Acres ²	Linear Feet ²						
0036	Ephemeral	35.10479915, -118.6787323	Sheet 18		0.051	305	:	:	0.501	246		:
0037	Ephemeral	35.1039064, -118.6771948	Sheet 18		0.054	208	:	:	0.254	265	:	:
0038	Ephemeral	35.10241422, -118.6743026	Sheet 18		0.022	240	;	:	0.035	199	1	:
0039	Ephemeral	35.09743995, -118.6654924	Sheet 19		0.004	196	1	;	0.008	164	I	:
003-LC	Ephemeral	34.90390251, -118.9208735	Sheet 27		0.005	205	;	:	0.014	206	0.046	63
0040	Ephemeral	35.09521144, -118.6616941	Sheet 19		0.005	221	;	;	0.005	221	I	;
0042	Ephemeral	35.2823982, -118.8074189	Sheet 11	0042-PP1, 0042-PP4	0.281	671	;	1	0.973	393	1	:
0044	Intermittent	35.39286099, -118.8076646	Sheet 5	0044-PP1, 0044-PP3	0.364	626	1	:	1.425	736	1	:
0045	Ephemeral	35.39457931, -118.8080208	Sheet 5		0.032	291	;	;	0.045	292	I	;
0046	Ephemeral	35.40467746, -118.8081156	Sheet 4		0.027	395	;	:	0.110	403	1	:
0047	Ephemeral	35.40712728, -118.8081651	Sheet 4		0.004	183	1	;	0.013	185	-	:
0048	Ephemeral	35.41313398, -118.8081937	Sheet 4		0.019	169	:	:	0.076	185	1	:
0049	Ephemeral	35.41767262, -118.808194	Sheet 3		0.005	229	;	:	0.032	233	1	:
004-LC	Ephemeral	34.90714622, -118.9203476	Sheet 26		0.010	218	1	;	0.025	223	0.043	51
0050	Ephemeral	35.42066031, -118.8074461	Sheet 3		0.004	180	1	:	0.050	189	I	:
0051	Ephemeral	35.42148875, -118.8073768	Sheet 3		0.005	206	1	1	0.014	208	I	1
0052	Ephemeral	35.42228435, -118.8069291	Sheet 3		0.012	514	1	1	0.058	513	I	1
0053	Ephemeral	35.42584367, -118.805688	Sheet 3		0.005	221	1	:	0.025	225	I	:
0054	Ephemeral	35.42708251, -118.8050844	Sheet 3		0.005	219	1	1	0.020	221	I	1
0055	Ephemeral	35.42930863, -118.803578	Sheets 2 and 3		0.005	219	1	:	0.030	224	I	:
0056	Ephemeral	35.43082547, -118.8025673	Sheets 2 and 3		0.020	219	1	1	0.060	226	I	1
0057	Ephemeral	35.43753457, -118.7971784	Sheet 2		0.061	882	1	1	0.162	886	I	1
0058	Intermittent	35.45075792, -118.7829039	Sheet 1		1.495	1,074	1	:	2.600	1,093	1	:
0059	Ephemeral	35.4581632, -118.7801158	Sheet 1	0059-PP5, 0059-PP7	1.809	1,344	ł	:	3.185	1,709	1	:
005-LC	Ephemeral	35.1292869, -118.7313448	Sheet 16		0.004	185	1	:	0.013	185	1	:
0900	Ephemeral	35.10794048, -118.684331	Sheet 18		0.019	206	1	1	0.047	209	I	1
0061	Ephemeral	34.93329819, -118.9234582	Sheet 25	0016-PP1	0.038	509	1	1	0.077	524	ł	1
0062	Ephemeral	35.37237007, -118.8080753	Sheet 6		0.015	251	ł	1	0.023	252	ł	1
0063	Ephemeral	35.37213296, -118.8080982	Sheet 6		0.009	308	1	:	0.018	309	ł	:
0064	Ephemeral	35.38216264, -118.8080693	Sheet 6		0.013	219	:	:	0.020	220	-	:
0065	Ephemeral	35.36676528, -118.8080261	Sheet 7		0.248	201	1	:	0.275	239	1	:
0066	Ephemeral	35.37899408, -118.8080442	Sheet 6		0.015	209	ł	:	0.015	209	ł	:
0067	Ephemeral	35.35964749, -118.8079728	Sheet 7		0.034	456	1	1	0.034	456	I	1
0068	Ephemeral	35.34781336, -118.8076964	Sheet 8	0068-PP2	0.022	283	1	1	0.044	290	1	1
006-LC	Ephemeral	35.10878535, -118.6858668	Sheet 18		0.004	195	1	1	0.013	196	1	:
007-LC	Ephemeral	35.13785702, -118.738032	Sheet 15		0.001	46	ł	1	0.002	47	1	1
007-SG	Ephemeral	35.11872781, -118.6972196	Sheet 17		0.006	40	ł	:	0.009	40	ł	:
008-LC	Ephemeral	35.13976954, -118.7377602	Sheet 15		0.001	42	1	1	0.002	41	ł	1
008-SG	Ephemeral	35.11709432, -118.6948918	Sheet 17		0.002	40	1	1	0.007	40	I	1
009-LC	Ephemeral	35.15102073, -118.7452904	Sheet 14		0.001	40	1	1	0.003	41	1	:

Aquatic Resources Delineation Report Gorman-Kern River 66 kV Subtransmission Line Project

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Southern California Edison

						USACE/RWQCB	WQCB			CDFW	W	
Feature	Feature		Figures 6 & 7 Sheet	Site Photos – Photo No.	Non-wetl	Non-wetland Waters	Wetlan	Wetland Waters	Strea	Streambed	Rip	Riparian
Number	Type	Center Coordinates (Lat/Long)	No. (Appendix A) ¹	(Appendix B)	Acres ²	Linear Feet ²						
009-SG	Intermittent	34.87658574, -118.8929713	Sheets 28 and 29	W0008-PP4	0.256	577	:	:	0.373	621	:	:
010-LC	Ephemeral	35.15197664, -118.7462334	Sheet 14		0.001	51	:	:	0.003	52	:	:
011-LC	Ephemeral	35.13761824, -118.7444709	Sheet 15		0.008	163	;	;	0.015	163	;	:
012-LC	Ephemeral	35.14144251, -118.7472222	Sheet 15		0.009	188	1	;	0.017	188	;	1
013-LC	Ephemeral	35.14409729, -118.7492631	Sheet 15		0.004	160	;	;	0.011	161	;	:
014-LC	Ephemeral	35.14705089, -118.7513565	Sheet 14 and 15		0.007	323	:	;	0.022	328	;	:
015-LC	Ephemeral	35.15336461, -118.7556575	Sheet 14		0.007	293	:	:	0.020	295	:	:
016-LC	Ephemeral	35.38059422, -118.8080666	Sheet 6		0.015	167	:	:	0.015	167	;	:
017-LC	Ephemeral	35.41572382, -118.8082042	Sheet 4		0.008	176	1	;	0.024	175	;	1
018-LC	Ephemeral	35.43655964, -118.7881996	Sheet 2		0.002	53	:	:	0.006	56	;	:
050-LC	Ephemeral	35.38342898, -118.826032	Sheet 6		0.004	297	:	;	0.027	297	;	:
051-LC	Ephemeral	35.12313441, -118.7060056	Sheet 17		0.027	387	;	:	0.018	387	;	:
052-LC	Ephemeral	34.94119509, -118.9244128	Sheet 24		0.079	165	:	:	0.079	165	;	:
053-LC	Ephemeral	34.94061653, -118.9245713	Sheet 24		0.062	139	1	;	0.062	139	;	1
W0005	Wetland	34.85310906, -118.8722604	Sheet 30 (Figure 6)	W0005-PP4, W0005-PP10	1	ı	1.224	537	:	I	I	ł
W0011	Wetland	35.11527724, -118.6975111	Sheet 17 (Figure 6)		1	I	0.494	333	1	1	I	ł
				Totals	9.015	27,424	1.718	870	18.706	28,755	0.822	1,361
1 Choot mumber	ac conducto hoth Fig		1									

¹ Sheet numbers apply to both Figures 6 (USACE/RWQCB) and 7 (CDFW) unless otherwise noted. ² ".." is indicative of no value applicable.