Yolo 80 Corridor Improvements Project



Aquatic Resources Delineation Report

Sacramento, Yolo, and Solano Counties, California 04-SOL-80-PM 40.7/R44.7; 03-YOL-80-PM 0.00/R11.72; 03-YOL-50-PM 0.00/3.12; 03-SAC-50-PM 0.00/L0.617; 03-SAC-80-PM M0.00/M1.36 EA: 03-3H900 / EFIS: 0318000085

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STATE OF CALIFORNIA Department of Transportation

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Table of Contents

Chapt	er 1	Introduction	1
Chapt	er 2	Project Description	3
Chapt	er 3	Environmental Setting	5
3.1	Proje	ct Location and Setting	5
3.2	Topog	graphy and Hydrology	5
3.3	Soils		6
3.4	Vege	tation Communities	11
Chapt	er 4	Methodology	13
4.1	Deskt	top Review	13
4.2	Field	Assessment	13
4.3	Prelin	ninary Jurisdictional Assessment	16
Chapte	er 5	Results	21
5.1	Wetla	ands	22
5.2	Drain	ages and Other Waters	24
Chapt	er 6	Conclusions	29
Chapt	er 7	References	31
		List of Tables	
Table 1	. Hyc	drologic Units within the ESL	6
Table 2	. Soil	I Map Units Within the ESL	7
Table 3	. Sur	nmary of Aquatic Resources within the ESL	21
Table 4	l. Sur	mmary of Potential Jurisdiction of Aquatic Resources within ESL	22
		Appendices	
Appen	dix A	A Figures	

Appelluix A	i iguies
Appendix B	Aquatic Resource Survey Results
Appendix C	Representative Photographs
Appendix D	Sample Point and OHWM Datasheets
Appendix E	Plant Species Observed



List of Abbreviated Terms

Abbreviation	Description
°F	degrees Fahrenheit
AJD	Approved Jurisdictional Determination
ESL	Environmental Study Limits
Caltrans	California Department of Transportation
CDFW	California Department of Fish and Wildlife
FGC	California Fish and Game Code
HU	hydrologic unit
I-80	Interstate 80
MLRA	Major Land Resource Area
NWPR	2020 Navigable Waters Protection Rule
OHWM	ordinary high water mark
PJD	Preliminary Jurisdictional Determination
project	Yolo 80 Corridor Improvement Project
report	Aquatic Resources Delineation Report
RWQCB	Regional Water Quality Control Board
Stantec	Stantec Consulting Services Inc.
TNW	traditional navigable waters
ТОВ	top-of-bank
US-50	U.S. Route 50
USACE	U.S. Army Corps of Engineers
USGS	U.S. Geological Survey



Chapter 1 Introduction

This Aquatic Resources Delineation Report (report) has been prepared to document the assessment of potentially jurisdictional aquatic features subject to agency jurisdiction within the environmental study limits (ESL) for the 03-3H900 Yolo 80 Corridor Improvement Project (project). The California Department of Transportation (Caltrans) proposes to construct improvements along Interstate 80 (I-80) and U.S. Route 50 (US-50) from Kidwell Road near the eastern Solano County boundary (near Dixon), through Yolo County, and to West El Camino Avenue on I-80 and Interstate 5 (I-5) on US-50 in Sacramento County. The purpose of the project is to increase mobility in these I-80 and US-50 corridors.

Stantec Consulting Services Inc. (Stantec) conducted an aquatic resources survey in the ESL which covers 1,147.38 acres. This report is intended to inform project design and support future permitting efforts for aquatic resources that may be regulated by the following:

- The U.S. Army Corps of Engineers, using the Rapanos/Carabell guidance (USEPA 2008, 2022)
- The Central Valley Regional Water Quality Control Board, pursuant to the State's Porter-Cologne Water Quality Control Act (California Water Code, Chapter 2, Section 13050) and/or Section 401 of the Clean Water Act
- The California Department of Fish and Wildlife pursuant to Section 1600 of the California Fish and Game Code

Stantec advises all parties to treat the information contained herein as preliminary until the U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and California Department of Fish and Wildlife (CDFW) provide verification of jurisdictional assessments.



Chapter 2 Project Description

Caltrans proposes to construct improvements consisting of managed lanes, pedestrian and bicycle facilities, and Intelligent Transportation System elements along I-80 and US-50 from Kidwell Road near the eastern Solano County boundary (near Dixon), through Yolo County, and to West El Camino Avenue on I-80 and I-5 on US-50 in Sacramento County (Appendix A, Figure 1). Caltrans is both the lead agency under the National Environmental Policy Act (as assigned by the Federal Highway Administration) and the California Environmental Quality Act for the project.

The purpose of this project is to improve multimodal mobility on the I-80 and US-50 corridors in Solano, Yolo, and Sacramento Counties. The project would decrease congestion through the corridor and the effects of congestion on transit and freight. It would improve transit headway times, reliability, access, and viability through the corridor. The project would also increase people throughput by increasing transit, bicycle and pedestrian, and carpool use. Furthermore, the project would address non-recurrent congestion caused by incidents, including collisions, by improving incident detection, verification, response, and clearing.



Chapter 3 Environmental Setting

3.1 Project Location and Setting

The ESL is in the U.S. Geological Survey (USGS) *Dixon, Merritt, Davis,* and *Sacramento West, California* 7.5-minute topographic quadrangles. The ESL is centered on segments of I-80 and US-50 and is confined to the Caltrans right-of-way which ranges from around 300 feet to 800 feet wide, depending on location. The ESL starts in the southwest on I-80 at Pedrick Road (Exit 67) and continues 15 miles northwest to where I-80 and US-50 diverge. From there, the ESL follows I-80 to the north, terminating just past El Camino Avenue, and US-50 to the east, terminating at the 5th Street Exit. The ESL crosses through developed lands, agricultural lands, Davis, and West Sacramento.

The ESL is in California's Central Valley, which is a large river-fed basin bounded by the Cascade Range to the north, Sierra Nevada Mountains to the east, Tehachapi Mountains to the south, and the Coast Range and San Francisco Bay to the west. Within the Central Valley itself, the ESL is in the southern Sacramento Valley and northern Sacramento-San Joaquin Delta. The Sacramento-San Joaquin Delta is where the two valleys and their associated rivers combine before draining to the San Francisco Bay and subsequently to the ocean.

The regional climate is typical of the Central Valley and is characterized by a Mediterranean climate with cool, wet winters and hot, dry summers. Precipitation in the region primarily occurs as rain. The average annual rainfall is approximately 34 inches and typically occurs between November 1 and April 30. The climate of the ESL typically exhibits a 9-month growing season from February 26 through November 25. Most herbaceous growth occurs during spring and ceases as soil moisture depletes in early summer. Air temperatures range from an average January high of 53 degrees Fahrenheit (°F) to an average July high of 93°F. The annual average high temperature is 74°F (Western Regional Climate Center 2021).

3.2 Topography and Hydrology

Within the ESL, overall topography is extremely low-gradient with elevations ranging from about 5 to 80 feet above mean sea level. In order to determine the drainage area, in this case termed a "hydrologic unit (HU)," that the ESL goes through, the National Hydrography Dataset (USGS 2020) was reviewed, and details on HUs are provided in Table 1. Eighty percent of the ESL is in the Lower Sacramento subbasin HU, with 15 percent and 4 percent in the Upper Putah and Upper Coon-Upper Auburn subbasins, respectively.

Table 1. Hydrologic Units within the ESL

Unit Level	Hydrologic Unit Code	Name
Region (Hydrologic Unit [HU] 2)	18	California Region
Subregion (HU 4)	1802	Sacramento
Basin (HU 6)	180201	Lower Sacramento
Subbasin (HU 8)	18020161 18020162 18020163	Upper Coon-Upper Auburn Upper Putah Lower Sacramento
Watershed (HU 10)	1802016104 1802016205 1802016303 1802016306 1802016307	Curry Creek-Sacramento River Lower Putah Creek Knights Landing Ridge Cut-Tule Canal Cache Slough Sherman Lake-Sacramento River
Subwatershed (HU 12)	180201610402 180201620504 180201630302 180201630601 180201630602 180201630606 180201630701	Natomas Main Drainage Canal-Sacramento River Putah Creek-South Fork Putah Creek Tule Canal-Toe Drain Tremont Cemetery Tremont School Toe Drain-Cache Slough Lake Greenhaven-Sacramento River

Source: U.S. Geological Survey. 2020. National Hydrography Dataset Plus V2.

In general, the drainages near and between the cities of Dixon and Davis are associated with the Upper Putah subbasin. As the ESL continues east, it enters the Lower Sacramento subbasin until the easternmost termination of the ESL in the city of Sacramento. The portion of the ESL associated with the Upper Coon-Upper Auburn subbasin starts in the City of West Sacramento and is associated with the northernmost Sacramento River crossing. All three of these subbasins are hydrologically connected to the Sacramento River, which empties into the Sacramento San Joaquin Delta, then Suisun Bay, then San Francisco Bay, and ultimately into the Pacific Ocean.

The main hydrologic features within the ESL are the South Fork Putah Creek, Putah Creek, Yolo Bypass (a diversion of the Sacramento River), Prospect Slough, and the Sacramento River. Several unnamed agricultural and roadside ditches are also present throughout the ESL.

3.3 Soils

The ESL is located within the Great Valley Geomorphic Province and contains 34 soil map units designated by the U.S. Department of Agriculture Natural Resources Conservation Service (NRCS 2021). These are described below in Table 2 and can be viewed in Appendix A, Figure 2. Twenty-three of the soil map units are rated as hydric/containing hydric components.

Table 2. Soil Map Units Within the ESL

Map Unit		Hydric		Major Compon	nt Attributes	Major Component Attributes	
Symbol	Map Unit Name	Component(s)	Landform	Drainage Class	Depth to Restrictive Feature	of ESL	
		Sacran	nento County				
127	Cosumnes silt loam, partially drained, 0–2% slopes	Yes	Floodplains	Somewhat poorly drained	>80 inches (in)	3	
206	Sailboat silt loam, partially drained, 0–2% slopes	Yes	Floodplains on natural levees	Somewhat poorly drained	>80 in	<1	
227	Urban land	No	Not applicable	Not applicable	Not applicable	1	
247	Water	Not applicable	Not applicable	Not applicable	Not applicable	1	
		Sola	no County				
BrA	Brentwood clay loam, 0–2% slopes	No	Alluvial fans	Well drained	>80 in	<1	
Са	Capay silty clay loam, 0% slopes, major land resource area (MLRA) 17	No	Alluvial fans	Moderately well drained	>80 in	8	
Сс	Capay clay, 0% slopes, MLRA 17	Yes	Basin floors	Moderately well drained	>80 in	2	
Ra	Reiff fine sandy loam	No	Alluvial fans	Well drained	>80 in	1	
Rw	Riverwash	Yes	Channels	Excessively drained	Not applicable	<1	
Ss	Sycamore silty clay loam, drained, 0–2% slopes,	No	Alluvial fans	Somewhat poorly drained	>80 in	<1	
W	Water	Not applicable	Not applicable	Not applicable	Not applicable	<1	
Yo	Yolo loam, 0–4%	No	Alluvial fans	Well drained	>80 in	15	

Map Unit Symbol		I leaded a		Major Compone	nt Attributes	Percent of ESL
	Map Unit Name	Hydric Component(s)	Landform	Drainage Class	Depth to Restrictive Feature	
Ys	Yolo silty clay loam, 0–2% slopes, MLRA 17	No	Alluvial fans	Well drained	>80 in	1
		Yol	o County			
Са	Capy silty clay, 0% slopes, MLRA 17	Yes	Basin floors	Moderately well drained	>80 in	7
La	Lang sandy loam	Yes	Alluvial fans	Somewhat poorly drained	>80 in	2
Lb	Lang sandy loam, deep	Yes	Alluvial fans	Somewhat poorly drained	>80 in	5
Ма	Made land	Yes	Basin floors	Not applicable	Not applicable	1
Mf	Marvin silty clay loam	Yes	Rims on basin floors	Somewhat poorly drained	>80 in	<1
Ms	Myers clay, 0–1%	Yes	Basin floors, alluvial fans	Moderately well drained	>80 in	2
Ra	Reiff very fine sandy loam	Yes	Alluvial fans	Well drained	>80 in	<1
Rg	Rincon silty clay loam	No	Alluvial fans	Well drained	>80 in	1
Rn	Riz loam, flooded	Yes	Terraces	Poorly drained	>80 in	<1
Sa2	Sacramento silty clay loam, 0–2% slopes,	Yes	Basin floors	Poorly drained	>80 in	9
Sb	Sacramento silty clay loam, drained	Yes	Basin floors	Poorly drained	>80 in	4
Sd	Sacramento clay, drained	Yes	Basin floors	Poorly drained	>80 in	2
Sg	Sacramento soils, flooded	Yes	Basin floors	Poorly drained	>80 in	12

Map Unit Symbol		Hydric		Major Compone	nt Attributes	Percent of ESL
	Map Unit Name	Component(s)	Landform	Drainage Class	Depth to Restrictive Feature	
So	Sycamore silt loam, 0–1% slopes, MLRA 17	Yes	Natural levees, floodplain splays	Somewhat poorly drained	>80 in	1
Sp	Sycamore silt loam, drained, 0% slopes, MLRA 17	Yes	Natural levees, alluvial fans	Somewhat poorly drained	>80 in	8
Ss	Sycamore silty clay loam, 0–1% slopes, MLRA 17	Yes	Natural levees	Somewhat poorly drained	>80 in	2
Sv	Sycamore complex, drained	Yes	Alluvial fans	Somewhat poorly drained	>80 in	2
Тс	Tyndall very fine sandy loam, drained	Yes	Alluvial fans	Somewhat poorly drained	>80 in	2
Vb	Valdez silt loam, clay substratum, partially drained, 0–2% slopes	Yes	Deltas	Poorly drained	>80 in	5
Wg	Willows soils, overwash, 0% slopes, frequently flooded, MLRA 17	Yes	Basin floors	Poorly drained	>80 in	<1
W	Water	Not applicable	Not applicable	Not applicable	Not applicable	2

Symbols: > = greater than, < = less than, % = percent Source: NRCS 2021



3.4 Vegetation Communities

Vegetation communities throughout much of California have been mapped by various organizations, including CDFW which hosts a number of these vegetation datasets. Vegetation communities within the ESL is included in two of these datasets: Delta Vegetation and Land Use and Great Valley Ecoregion (Vegetation Classification and Mapping Program 2011, Schwenkler and Hickson 2018). The classification follows the Federal Geographic Data Committee and National Vegetation Classification Standards, which are compatible with the Manual of California Vegetation, Online Edition (California Native Plant Society 2020). This vegetation data is accurate at a coarse scale due to the minimum mapping unit ranging from 1 to 10 acres within and across the datasets; this level of accuracy for mapping communities is defined as being mapped to the macrogroup level.

More than 60 percent of the ESL is classified as either barren, urban, agricultural/cropland, or water, with urban accounting for the highest acreage (652.57 acres). All vegetation communities mapped by CDFW (Vegetation Classification and Mapping Program 2011, Schwenkler and Hickson 2018) within the ESL are described below.

3.4.1 California Annual and Perennial Grassland

Of the five natural/semi-natural macrogroups, California Annual and Perennial Grassland accounts for the highest acreage (i.e., about 84 percent) in the ESL and is composed of predominantly non-native grass species such as rye grass (*Festuca perennis*) and wild oats (*Avena* spp.). This macrogroup generally occurs on the roadside of the highway corridor and between intersections throughout the ESL.

3.4.2 Californian Forest and Woodland

Californian Forest and Woodland macrogroup accounts for approximately 4 percent of the ESL and is composed of woodlands and forests dominated by warm-temperate oak and conifer species, with a sparse herbaceous stratum. Dominant species observed within the ESL include coast live oak (*Quercus agrifolia*), valley oak (*Quercus lobata*), and interior live oak (*Quercus wislizeni*). This community occurs sporadically along the highway in the general Davis area, as well as on the upper terraces of the Sacramento River.

3.4.3 Introduced North American Mediterranean Woodland and Forest

Introduced North American Mediterranean macrogroup accounts for about 8 percent of the ESL and is composed of woodlands and forests dominated by non-native and ornamental tree

species, with a sparse herbaceous stratum. Within the ESL, stands are planted as windbreaks near agriculture, as well as ornamental landscaping in the more urban areas of the ESL. Stands observed include eucalyptus species (*Eucalyptus* spp.), Lombardy poplar (*Populus nigra*), English walnut (*Juglans regia*), and Peruvian pepper tree (*Schinus molle*).

3.4.4 Southwestern North American Riparian Flooded and Swamp Forest

Southwestern North American Riparian Flooded and Swamp macrogroup accounts for approximately 4 percent of the ESL and is composed of riparian and floodplain woodlands and forests dominated by deciduous and/or evergreen tree species, with a sparse herbaceous stratum. Within the ESL, this macrogroup occurs along riparian corridors dominated by species such as Goodding's willow (*Salix goodingii*), California sycamore (*Platanus racemosa*), and Fremont cottonwood (*Populus fremontii*). Within the ESL, this macrogroup occurs in the vicinity of Putah Creek, the Yolo Bypass, and along the Sacramento River at both crossings.

3.4.5 Western North American Freshwater Marsh

Western North American Freshwater Marsh macrogroup accounts for less than 1 percent of the ESL and is composed of a dense herbaceous layer with low diversity, with structure varying from barely-emergent forbs to meters-tall graminoids. Within the ESL, this macrogroup is dominated by hardstem bulrush (*Schoenoplectus acutus*) and broadleaf cattail (*Typha latifolia*). This macrogroup is generally found in the ESL in the Yolo Bypass area.

Chapter 4 Methodology

4.1 Desktop Review

Prior to conducting fieldwork, Stantec reviewed the following map resources:

- U.S. Fish and Wildlife Service National Wetland Inventory (USFWS 2020)
- Google Earth color aerial imagery dating back to 1985
- U.S. Geological Survey (USGS) 7.5-minute topographic maps dating back to 1905
- USGS National Hydrography Dataset Plus (USGS 2020)

These resources were used in combination to identify potential aquatic resource features, based on changes in vegetation, topographic changes, and/or visible drainage patterns. Prior to field surveys, Stantec digitized potential features into a working field map that was used during field surveys.

4.2 Field Assessment

The aquatic resources field assessment was conducted by a team of two Stantec biologists on December 18, 21–22, and 28–29, 2020 and February 19, 20–24, 2021. In addition, supplemental surveys were conducted on July 21, 2022. The team consisted of biologists John Holson (task lead, Certified Professional Wetland Scientist) and Sheryl Creer (botanist and wetland scientist). The ESL was surveyed on foot where accessible and safe to do so, and all aquatic resources found were mapped and documented (Appendix A. Figure 3 and Appendix B).

The field team visited locations of features mapped in the USGS National Hydrography Dataset Plus and/or National Wetlands Inventory databases and documented the presence or absence of those features. Data was collected to a sufficient level of detail to inform the jurisdictional assessment for each relevant agency on a feature-by-feature basis (see Tables 3 and 4 in Chapter 5). The biologists recorded plant species observed during field surveys using botanical nomenclature following the Jepson eFlora (Jepson Flora Project 2021).

Prior to the start of the December 2020 field assessments, 0.27 inch of rain fell on December 17 as recorded by the National Oceanic and Atmospheric Administration's Davis 2 WSW EXP FARM, CA weather station. Prior to the February 2021 field assessments, 0.50 inch of rain fell on February 12 (NOAA 2020). No other rainfall was recorded for the duration of the

field assessments. Detailed information on resources mapped and jurisdictional assessment methods are provided below. Representative photographs of features within the ESL can be seen in Appendix C.

4.2.1 Wetlands

The definition of a "wetland" varies between the agencies. As such, biologists collected a variety of data during the field assessment to establish adequate documentation using the various agency guidelines. The definition of a "wetland" summarized by agency is as follows:

- U.S. Army Corps of Engineers (USACE): Wetland delineation per USACE guidance followed the routine determination method given in the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the revised procedures in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (USACE 2008a). This methodology entails examination of specific sample points in both wetlands and uplands (i.e., paired points) to determine the boundaries of wetland features. Sample points are examined for hydrophytic vegetation, hydric soils, and wetland hydrology. In most cases, by the federal definition, all three parameters must be present for an area to be considered a wetland. Problematic situations, in which only two parameters are met, do occur in the Arid West (outlined in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region*) (USACE 2008a), especially in areas that have been altered by human activity. The standard USACE Wetland Determination Data Form for the arid west was used to document each sample point (Appendix D).
- Regional Water Quality Control Board (RWQCB): Wetland determination, as defined and adopted on April 2, 2019, by the RWQCB follows the USACE three-parameter requirement as outlined above, including problematic situations that may require two-parameters.
- California Department of Fish and Wildlife (CDFW): Previous guidance by CDFW considers riparian canopy and riparian wetlands under the jurisdiction of CDFW when a wetland, shrub, or forest community associated with a drainage feature or "stream" passes the USACE criterion for hydrophytic vegetation.

Twenty-four wetland determination sample points were established within the ESL and described in corresponding USACE wetland determination data forms (Appendix D). Vegetation and local indicators of wetland hydrology were recorded in the immediate

vicinity for each sample point. Wetland indicator status for plant species was confirmed using The National Wetland Plant List (USACE 2018), and the "50/20 Rule" or "Prevalence Index" was applied to determine plant dominance (USACE 2008a). Test pits were excavated to a depth of 16 inches or to shovel refusal to record soil characteristics and to check for hydric soil indicators as well as indicators of hydrology. Stantec evaluated soils for positive indicators of hydric soils in the field following the criteria outlined in *Field Indicators of Hydric Soils in the United States* (Vasilas et al. 2018). Soil colors were determined using a Munsell soil color chart. The hydric status of each soil map unit occurring in the ESL was reviewed using the Web Soil Survey (NRCS 2021).

Features were assigned a feature type based on overall vegetation and hydrology within each delineated feature. Detailed descriptions applicable at the aquatic resource survey level (i.e., vegetation for each delineated feature) are provided in Chapter 5. A list of plant species observed is provided in Appendix E.

4.2.2 Other Waters

Other waters that do not fall within the "wetland" category but do potentially fall under the jurisdiction of USACE, RWQCB, or CDFW were also mapped within the ESL. As with wetlands, the definition of a "drainage" or "other waters" varies between the agencies. As such, the field teams collected a variety of data to establish adequate documentation using the various agency guidelines. The criteria used to determine what constitutes a drainage or other water are summarized below by agency:

- U.S. Army Corps of Engineers (USACE): Drainages or "other waters" were delineated based on indicators of an ordinary high water mark (OHWM). The OHWM was determined using the approach outlined in *A Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the United States* (USACE 2008b). The following attributes were collected or measured for each mapped drainage: average OHWM width and depth, hydrologic regime, OHWM indicators, and substrate below OHWM. All potentially jurisdictional drainages with primary or secondary indicators of OHWM were mapped. A digital OHWM documentation form was completed for representative features.
- Regional Water Quality Control Board (RWQCB): The RWQCB follows the USACE methods to determine the presence of a drainage, following previously listed guidance and methods based on presence of an OHWM.

• California Department of Fish and Wildlife (CDFW): CDFW defines drainages, or "streams" under Title 14, California Code of Regulations Section 1.72, as "a body of water that follows at least periodically or intermittently through a bed or channel having banks and that supports fish and other aquatic life." Average top-of-bank width and depth measurements were noted for each drainage or stream and recorded along with OHWM data. In addition, CDFW Section 1600 applies to more than just streams and includes open water features such as lakes and ponds.

In summary, other waters were mapped following ordinary high water mark (OHWM) lines and/or top-of-bank (TOB) using the presence of indicators such as changes in vegetation and break in slope. The average widths and depths of these attributes were collected and documented for each feature. Spatial data mapping was the same as outlined above for wetlands: using a sub-meter global positioning system unit paired with Collector. All spatial data were collected in the World Geodetic System datum. Representative photographs were taken of these features and are provided in Appendix C, and OHWM forms are provided in Appendix D. All potentially jurisdictional drainages and other waters with primary or secondary indicators of OHWM were mapped.

4.3 Preliminary Jurisdictional Assessment

Stantec conducted a preliminary jurisdictional assessment for each delineated feature after completion of field work and preparation of an aquatic resource map. The assessment includes an analysis of each feature and the applicable resource agency(ies) jurisdiction (i.e., USACE, RWQCB, and CDFW) the feature may be subject to. Agency jurisdiction over each of the delineated features is based on the regulations described below. All jurisdictional assessments in this report should be considered preliminary until the USACE, RWQCB, and CDFW provide verification.

4.3.1 U.S. Army Corps of Engineers

On August 30, 2021, the U.S. District Court for the District of Arizona vacated and remanded the Navigable Waters Protection Rule (NWPR). Federal agencies have halted implementation of the NWPR and are currently interpreting the definition of waters of the United States with the pre-2015 regime, which follows guidance established after the 2008 Rapanos and Carabell U.S. Supreme Court Decisions. All mapped features within the project area were assessed for potential USACE jurisdiction using the Rapanos/Carabell guidance, which states that the USACE will take jurisdiction over the following (USEPA 2008):

- Traditional navigable waters (TNW)
- Wetlands adjacent to TNWs
- Non-navigable tributaries of TNWs that are relatively permanent waters (i.e., not ephemeral)
- Wetlands that directly abut tributaries listed above

Two determination processes are available for approval by the USACE: the Approved Jurisdictional Determination (AJD) process and the Preliminary Jurisdictional Determination (PJD) process. In the AJD process, the USACE will decide jurisdiction of features on a case-by-case analysis to determine presence of a significant nexus with a traditional navigable waters as follows:

- Non-navigable tributaries that are not relatively permanent waters (i.e., ephemeral drainages)
- Wetlands adjacent to non-relatively permanent waters (i.e., seasonal wetlands adjacent to ephemeral drainages)
- Wetlands adjacent, but not directly abutting, a relatively permanent water that is a nonnavigable tributary

In the PJD process, all wetlands and other waters observed in the project area are assumed jurisdictional regardless of hydrologic connection to a TNW.

It is assumed for this project that the AJD process will be used. Each non-wetland water within the ESL was assessed for jurisdiction based on hydrological regime (i.e., ephemeral, intermittent, or perennial) and connectivity in a typical year, following guidance included in the USACE (2008b) guide. Stantec observed only non-permanent waters and did not observe wetlands within the project; therefore, the aquatic resources identified are likely not under USACE jurisdiction. A review by the USACE will be required to make the final determination of jurisdiction.

4.3.2 Regional Water Quality Control Board

Stantec assessed all mapped features for potential RWQCB jurisdiction using the following regulations and guidance:

Wetlands

Under the broad Porter-Cologne Water Quality Control Act definition of waters of the state, all waters defined as "wetlands" under the USACE three-parameter requirement, including isolated features, would likely be considered RWQCB jurisdictional. Therefore, all wetlands that meet the three-parameter wetland criterion (or two in the case of problematic situations) are considered potentially jurisdictional.

Other Waters

The RWQCB takes jurisdiction over waters defined as "drainages" based upon the presence of OHWM and/or bed-and-bank; connectivity is not a consideration. In addition, isolated open waters or impoundments are also generally considered under the jurisdiction of the RWQCB. Therefore, all drainages or other non-wetland waters on-site are considered potentially jurisdictional under the RWQCB.

4.3.3 California Department of Fish and Wildlife

Wetlands

Shrubby and forested wetlands fall under the jurisdiction of CDFW when they are adjacent to or associated with a drainage feature or "stream". Features that exhibited a dominance of hydrophytic vegetation and were associated with a drainage feature, regardless of regime, were considered potentially jurisdictional.

Other Waters

CDFW generally takes jurisdiction over all waters with a defined bed-and-bank up to TOB measurements; connectivity is not considered. In addition, isolated open waters or impoundments are also generally considered under the jurisdiction of CDFW. Therefore, all drainages or other non-wetland waters on-site are considered potentially jurisdictional.

4.3.4 Summary of U.S. Army Corps of Engineers, Regional Water Quality Control Board, and California Department of Fish and Wildlife Methods

In summary, potential jurisdiction of wetlands under each agency was assessed and generally assigned as follows: all three-parameter wetlands adjacent to (a)(1)–(a)(3) Waters of the U.S. were considered potentially USACE jurisdictional; all three-parameter wetlands within the ESL were considered potentially RWQCB jurisdictional; all features with a dominance of hydrophytic vegetation and associated with a drainage feature were considered potentially CDFW jurisdictional. Assessment of each mapped resource was on a case-by-case basis; additional details on each case are included in the results section.

All drainages mapped within the ESL were considered potentially CDFW- and RWQCB-jurisdictional by definition. All features exhibiting OHWM were then assessed for potential USACE jurisdiction based upon regime and connectivity. Further assessment of each mapped resource was on a case-by-case basis.



Chapter 5 Results

This chapter summarizes the results of the Aquatic Resources Delineation within the ESL; Table 3 summarizes the number of features under each agency jurisdiction while Table 4 summarizes the acreage and linear feet. Each feature identified during the survey efforts is also further characterized/described below.

Table 3. Summary of Aquatic Resources within the ESL

Feature Type	Total Number of Features	USACE/RWQCB Potentially Jurisdictional Features	CDFW Potentially Jurisdictional Features
Fresh Emergent Marsh	3	3	0
Seasonal Wetlands	6	6	0
Vegetated Ditches	6	Potentially Jurisdictional Features 3 0	
Woody Riparian Wetlands	11	11	7
Subtotal	26	26	13
	Other Waters		
Ephemeral Drainages	2	2	2
Intermittent Drainages	3	3	3
Perennial Drainages	4	4	4
Canals	8	8	8
Ponds	3	3	3
Subtotal	20	20	20
Total	46	46	33

Key: USACE = U.S. Army Corps of Engineers, RWQCB = Regional Water Quality Control Board, CDFW = California Department of Fish and Wildlife

Table 4. Summary of Potential Jurisdiction of Aquatic Resources within the ESL

Footure Time	USACE	/RWQCB	CI	DFW			
Feature Type	Acres	Linear Feet	Acres	Linear Feet			
Wetlands							
Fresh Emergent Marsh	0.399	405.42	0.000	0.00			
Seasonal Wetlands	4.002	1057.22	0.000	0.00			
Vegetated Ditches	7.553	16,495.97	7.553	16,495.97			
Woody Riparian Wetlands	5.060	3,983.02	1.957	1,727.77			
Subtotal Wetlands	17.014	21,941.63	9.510	18,223.74			
	Oth	er Waters					
Ephemeral Drainages	0.230	1,654.61	0.461	1,654.61			
Intermittent Drainages	0.369	2,734.89	0.741	2,734.89			
Perennial Drainages	5.692	1,148.01	5.692	1,148.01			
Canals	1.523	3,134.36	1.523	3,134.36			
Ponds	3.584	1,524.82	3.584	1,524.82			
Subtotals Other Waters	11.398	10,196.69	12.001	10,196.69			
Total	28.412	32,138.32	21.51	28,420.43			

Key: USACE = U.S. Army Corps of Engineers, RWQCB = Regional Water Quality Control Board, CDFW = California Department of Fish and Wildlife

5.1 Wetlands

Twenty-six wetlands were mapped within the ESL (Appendix B). Twenty-six are potentially under the jurisdiction of the USACE (17.014 acres), 26 are under the jurisdiction of the RWQCB (17.014 acres), and 13 are potentially under the jurisdiction of the CDFW (9.510 acres). Mapped wetlands fell into four categories which are further described below: fresh emergent marsh wetlands, woody riparian wetlands, seasonal wetlands, and vegetated ditches. In total, 3 fresh emergent marsh wetlands, 11 woody riparian wetlands, 6 seasonal wetlands, and 6 vegetated ditches were observed in the ESL.

5.1.1 Fresh Emergent Marsh Wetlands

Three fresh emergent marsh wetlands were mapped within the Yolo Bypass portion of the ESL. Vegetation was dominated by obligate perennial species such as water primrose (*Ludwigia* sp.), broad-leaved cattail, and tule (*Schoenoplectus acutus* var. *occidentalis*). Hydric soil indicators observed include redox dark surface (F6) and redox depressions (F8).

Positive field indicators of being frequently ponded and/or flooded for long-duration or very long-duration during the growing season included water marks (B1), drift deposits (B3), and sediment deposits (B2). Based on the Rapanos/Carabell guidance (USEPA 2008), all of these features would be potentially jurisdictional under the USACE. In addition, all features would be considered waters of the state and regulated as such under the Porter-Cologne Water Quality Control Act by the RWQCB. None of these features would potentially be under the jurisdiction of the CDFW.

5.1.2 Woody Riparian Wetlands

Eleven woody riparian wetlands were mapped intermittently throughout the ESL, in particular in the Yolo Bypass along the Sacramento River. Features in this category exhibited positive field indicators of frequent ponding and/or flooding for long-duration or very long-duration during the growing season. Woody riparian wetlands were dominated by woody deciduous shrubs and trees, including dominant species such as Fremont's cottonwood, black willow (*Salix gooddingii*), and narrow-leaved willow (*Salix exigua*). Hydric soil indicators observed include sandy redox (S5), redox dark surface (F6) and redox depressions (F8). Wetland indicators observed include water marks, drift lines, and fine sediment deposits.

Based on the Rapanos/Carabell guidance (USEPA 2008) all 11 woody riparian wetlands would be potentially jurisdictional under the USACE. In addition, all 11 features would be potentially considered waters of the state and regulated as such under the Porter-Cologne Water Quality Control Act by the RWQCB. Seven of these features would be potentially subject to CDFW jurisdiction under Fish and Game Code (FGC) Section 1600 given the presence vegetation adjacent to a bed, bank, and channel.

5.1.3 Seasonal Wetlands

Six seasonal wetlands were mapped in the western portion of the ESL, starting in the Yolo Bypass area and intermittently occurring west towards the City of Dixon. Features in this category exhibited positive field indicators of long-duration saturation during the growing season, as well as hydrophytic vegetation characteristic of this wetland type. Dominant species observed in seasonal wetlands include umbrella sedge (*Cyperus eragrostis*), dallis grass (*Paspalum dilatatum*) and perennial ryegrass (*Lolium perenne*). Hydric soil indicators observed include redox dark surface (F6) and redox depressions (F8). Wetland indicators include saturation and oxidized root channels within the upper 12 inches of the soil profile, and localized sediment deposits from ponding.

Based on the Rapanos/Carabell guidance (USEPA 2008), all six of these seasonal wetlands would be potentially jurisdictional under the USACE. In addition, all six features would be potentially considered waters of the state and regulated as such under the Porter-Cologne Water Quality Control Act by the RWQCB. None of these features would be under the potential jurisdiction of the CDFW.

5.1.4 Vegetated Ditches

Six vegetated ditches were mapped throughout the ESL. Vegetated ditches generally consisted of constructed drainage ditches that exhibit positive indicators for all three wetland parameters. For the purposes of developing the aquatic resources maps as well as future permitting and/or mitigation, vegetated ditches are treated as wetlands based on the vegetation, soils, and functional characteristics. Dominant species observed in vegetated ditches include broad-leaved cattail, tule, and saltgrass (*Distichlis spicata*). Hydric soil indicators observed include redox dark surface (F6) and redox depressions (F8). Wetland indicators include riverine sediment deposits (B2), drainage patterns (B10), and saturation visible on aerial imagery (C9).

Based on the Rapanos/Carabell guidance (USEPA 2008), all six of the vegetated ditches would be potentially jurisdictional under the USACE. This is based on the hydrology of these features. Of the six vegetated ditch features, four are in the Yolo Bypass area and drain into Prospect Slough, which then drains into the Sacramento Bypass. Contributing hydrology includes agricultural sources originating from the Sacramento River as well as rainfall and surface runoff. One of the two remaining vegetated ditches, occurring adjacent to Pedrick Road, has a source from Putah Creek that eventually drains, through a series of agricultural drains and ditches, into the Yolo Bypass and subsequent Sacramento River. And finally, the sixth feature occurs in proximity to the Sacramento River, on the west edge of West Sacramento, and drains into Prospect Slough from the east. In addition, all six features would be potentially considered waters of the state and regulated as such under the Porter-Cologne Water Quality Control Act by the RWQCB. All six of these features would also be potentially subject to CDFW under FGC Section 1600 given the presence vegetation adjacent to a bed, bank, and channel.

5.2 Drainages and Other Waters

Twenty other waters potentially under the jurisdiction of the USACE (11.398 acres), RWQCB (11.398 acres), and/or CDFW (12.001 acres) were mapped within the ESL (Appendix B). All 20 features are under the potential jurisdiction of USACE, RWQCB, and CDFW. Based on topography, all drainages mapped are assumed to eventually drain into the

Sacramento-San Joaquin Delta. Putah Creek is a tributary to the Yolo Bypass, which connects directly to the Sacramento-San Joaquin Delta and, ultimately, to the Pacific Ocean. Two ephemeral drainages, three intermittent drainages, four perennial drainages, eight canals, and three ponds were examined within the ESL. Note that CDFW acreages are greater for some of the drainage features based on the CDFW jurisdiction being based on TOB measurements which are inclusive of bed, bank, and channel, versus OHWM measurements for USACE and RWQCB.

5.2.1 Ephemeral Drainages

Two ephemeral drainages and drainage segments were mapped in the ESL, with both occurring in the urban sections near the Sacramento River. Both drainages are subject to flow from rainfall, are seasonally inundated, and are connected through storm drains to the Sacramento River. OHWM measurements on ephemeral drainages were based on drift/wrack lines, sediment deposits, and the presence of a bed and bank.

Based on the Rapanos/Carabell guidance (USEPA 2008), both of these ephemeral features would be considered under USACE jurisdiction. In addition, these features would be potentially considered waters of the state and regulated as such under the Porter-Cologne Water Quality Control Act by the RWQCB. These features would also be potentially subject to CDFW under FGC Section 1600 given the presence of a bed, bank, and channel.

5.2.2 Intermittent Drainages

Three intermittent drainages and drainage segments were mapped in the ESL, in the more urban sections of West Sacramento. All of three of the drainage/drainage segments are hydrologically connected to the Yolo Bypass Toe Drain, either directly or indirectly with a culverted connection. OHWM mark measurements on intermittent drainages were based on water marks, drift/wrack lines, sediment deposits, and the presence of a bed and bank.

Based on the Rapanos/Carabell guidance (USEPA 2008), these three intermittent drainage features would be potentially jurisdictional under the USACE. In addition, these features would potentially be considered waters of the state and regulated as such under the Porter-Cologne Water Quality Control Act by the RWQCB. These features would also be potentially subject to CDFW under FGC Section 1600 given the presence of a bed, bank, and channel.

5.2.3 Perennial Drainages

Four perennial drainages in the ESL occur as part of the Sacramento River, which is present in the ESL in two locations. The remaining two perennial drainages are at Prospect Slough as part of the Yolo Bypass, in addition to one segment of South Putah Creek. OHWM measurements on the Sacramento River were based on water marks, drift/wrack lines, cut banks, and the presence of rip-rap (i.e., rip-rap is typically installed to prevent scour of the levees). Both of the Sacramento River segments support riparian vegetation. The Sacramento River originates outside the ESL and is fed by the intermittent and ephemeral drainages mapped within the ESL before draining into the Sacramento-San Joaquin Delta. South Putah Creek originates at Lake Berryessa outside the ESL flowing east before draining into the Yolo Bypass and subsequently the Sacramento River.

Based on the Rapanos/Carabell guidance (USEPA 2008), all four segments of perennial drainage would be potentially jurisdictional under the USACE. In addition, these features would potentially be considered waters of the state and regulated as such under the Porter-Cologne Water Quality Control Act by the RWQCB. These features would also be potentially subject to CDFW under FGC Section 1600 given the presence of a bed, bank, and channel.

5.2.4 Canals

Eight segments of canals were mapped within the ESL. Canal segments are human-made drainages that generally have steep sides. The limits of jurisdiction between USACE, RWQCB, and CDFW are the same (i.e., OHWM and TOB are the same). In this case, the canals move water away from the City of West Sacramento, and the water may be used to irrigate croplands and/or flood control. All of these canals were constructed in uplands; however, they do end up draining to either the Sacramento River or the Yolo Bypass. OHWM measurements were based on water marks, drift/wrack lines, and the presence of a bed and bank.

Based on the Rapanos/Carabell guidance (USEPA 2008), all eight segments of these canals would be under the potential jurisdiction of the USACE, and all eight segments would be considered potential waters of the state and regulated as such under the Porter-Cologne Water Quality Control Act by the RWQCB. These features would potentially also be subject to CDFW under FGC Section 1600 given the presence of a bed, bank, and channel.

5.2.5 Ponds

Three ponds with open water were mapped within the ESL. Two ponds are on the north side of the Yolo Bypass and connect via culvert to a vegetated ditch within the bypass. The third is connected to Feature 31, a canal feature mapped as an other waters, and is on the south side of I-80. These perennial ponds are open water features that are part of the tributary system connected to the Yolo Bypass.

Based on the Rapanos/Carabell guidance (USEPA 2008), these three ponds would be potentially jurisdictional under the USACE. In addition, these features would be potentially considered waters of the state and regulated as such under the Porter-Cologne Water Quality Control Act by the RWQCB. These features would also be potentially subject to CDFW under FGC Section 1600.



Chapter 6 Conclusions

Forty-six aquatic features were mapped within the ESL and were assessed to determine the applicable agency jurisdiction. The 46 features included 3 fresh emergent marsh wetlands, 11 woody riparian wetlands, 6 seasonal wetlands, 6 vegetated ditches, 2 ephemeral drainages, 3 intermittent drainages, 4 perennial drainages, 8 canals, and 3 ponds.

Based on the definitions, regulations, and guidance listed in Section 4.3, Preliminary Jurisdictional Assessment, 46 features (26 wetland and 20 other waters) are expected to potentially fall under the jurisdiction of the USACE. Specifically, a total of 17.010 acres of potentially jurisdictional wetlands was delineated within the ESL. A total of 11.398 acres of jurisdictional other waters of the United States was delineated within the ESL. All jurisdictional assessments in this report should be considered preliminary until verified by the USACE.



Chapter 7 References

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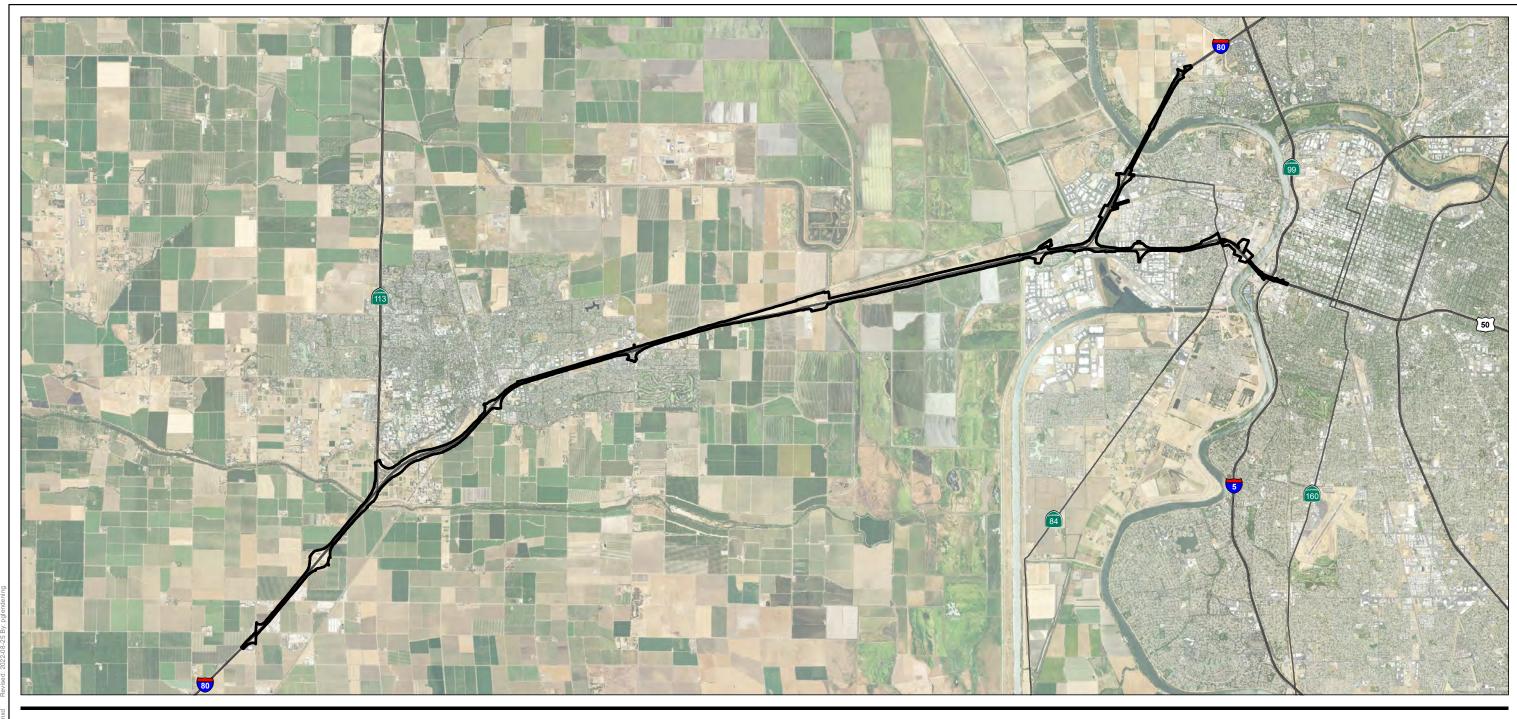
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Appendix A Figures

Figure 1. Project Location

Figure 2. Mapped Soil Units

Figure 3. Mapped Potential Aquatic Resources





Environmental Study Limits (ESL) (1,147.38 acres)

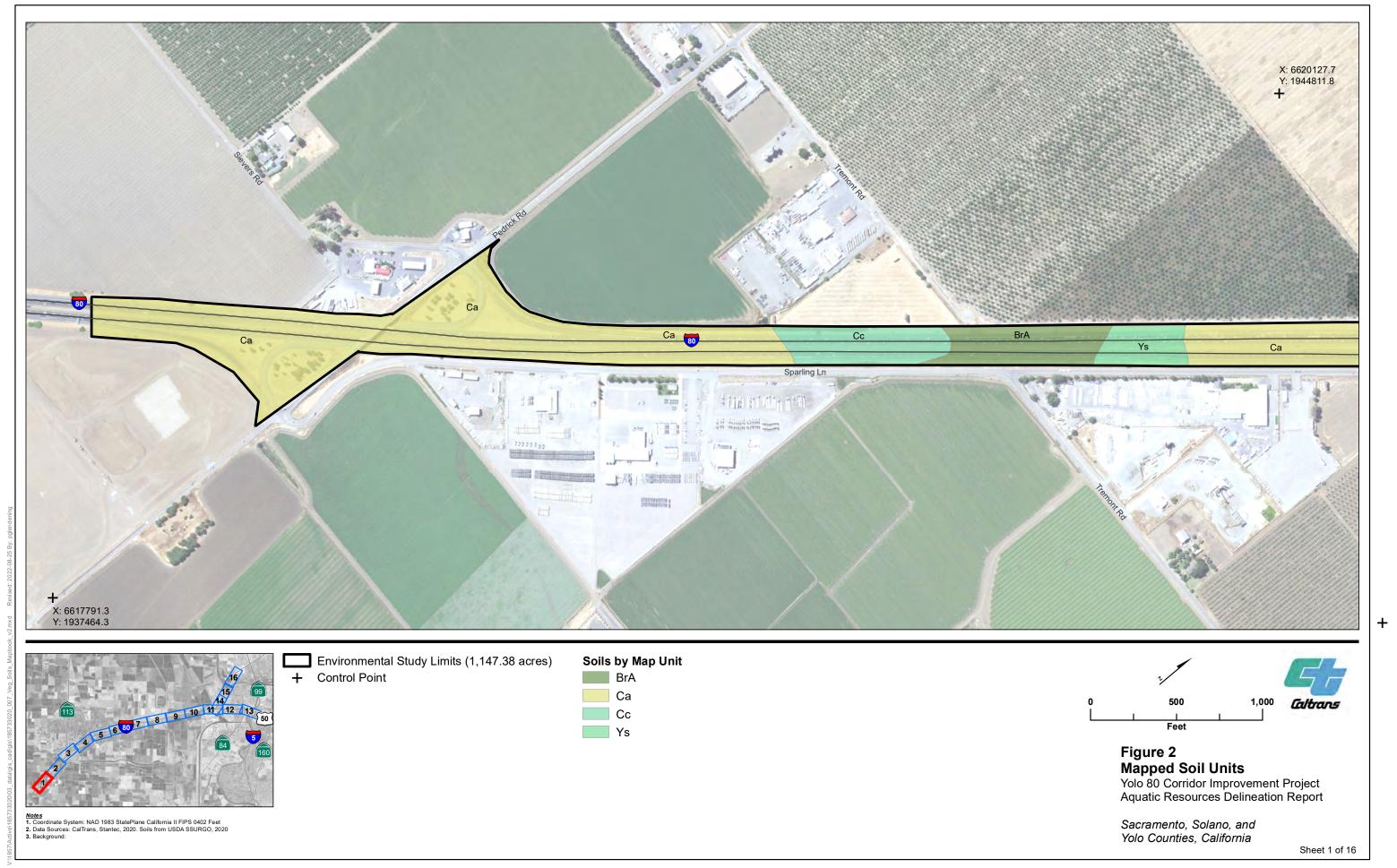
USGS 7.5' 1:24,000 Quadrangles: Davis (1992), Dixon (1981), Merritt (1992), and Sacramento West (1992)

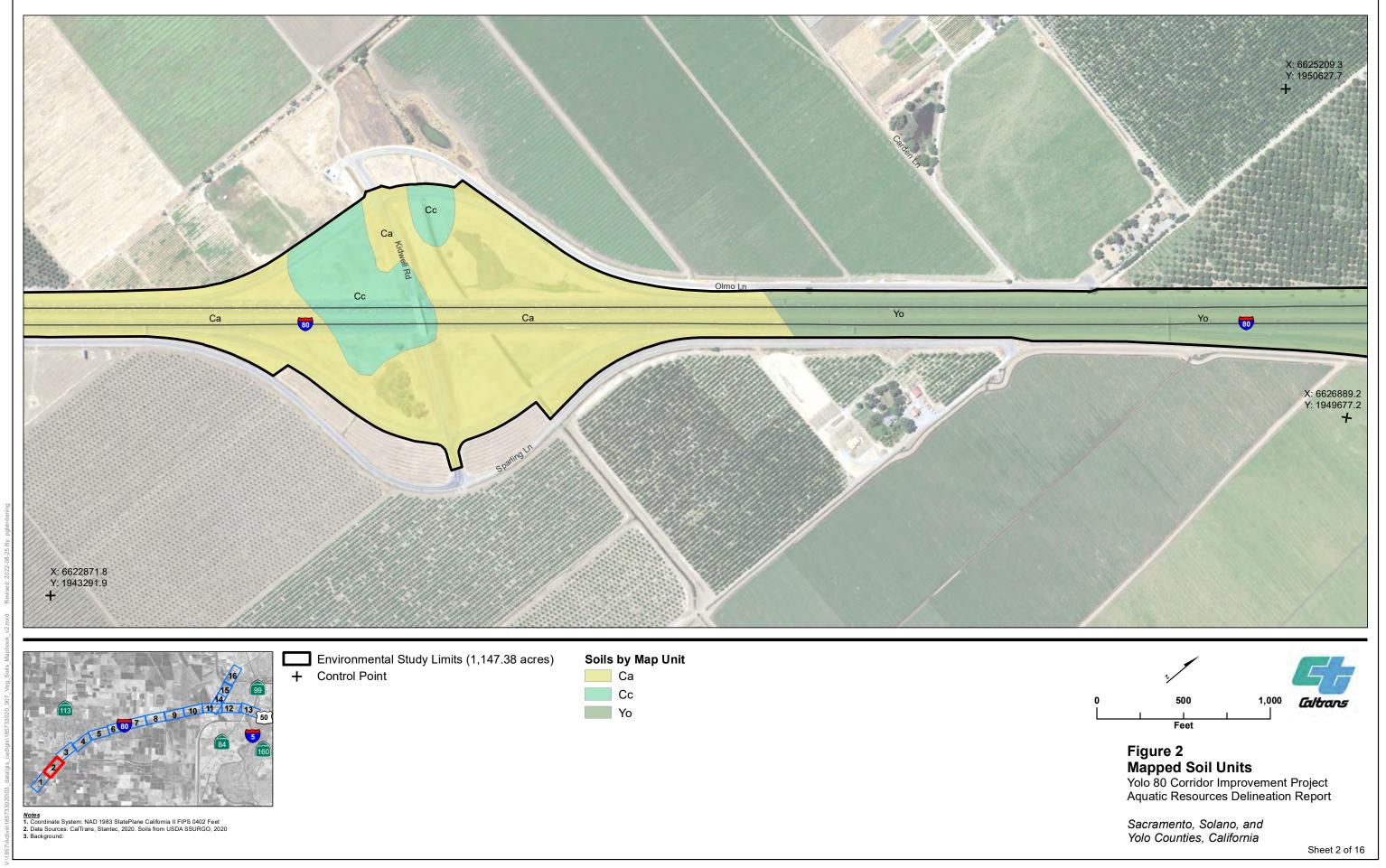
Figure 1 **Project Location** Yolo 80 Corridor Improvement Project Aquatic Resources Delineation Report

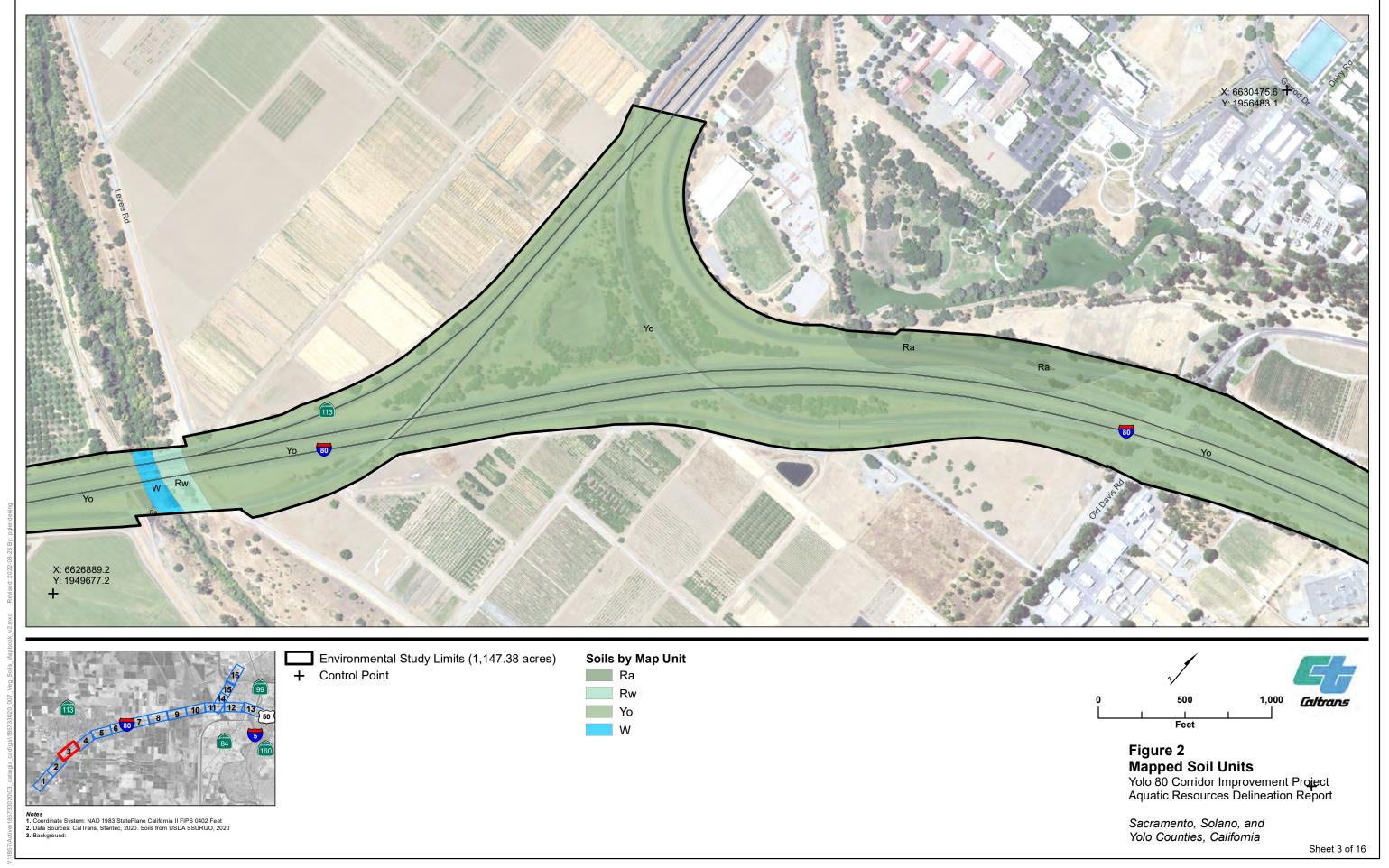
Sacramento, Solano, and Yolo Counties, California

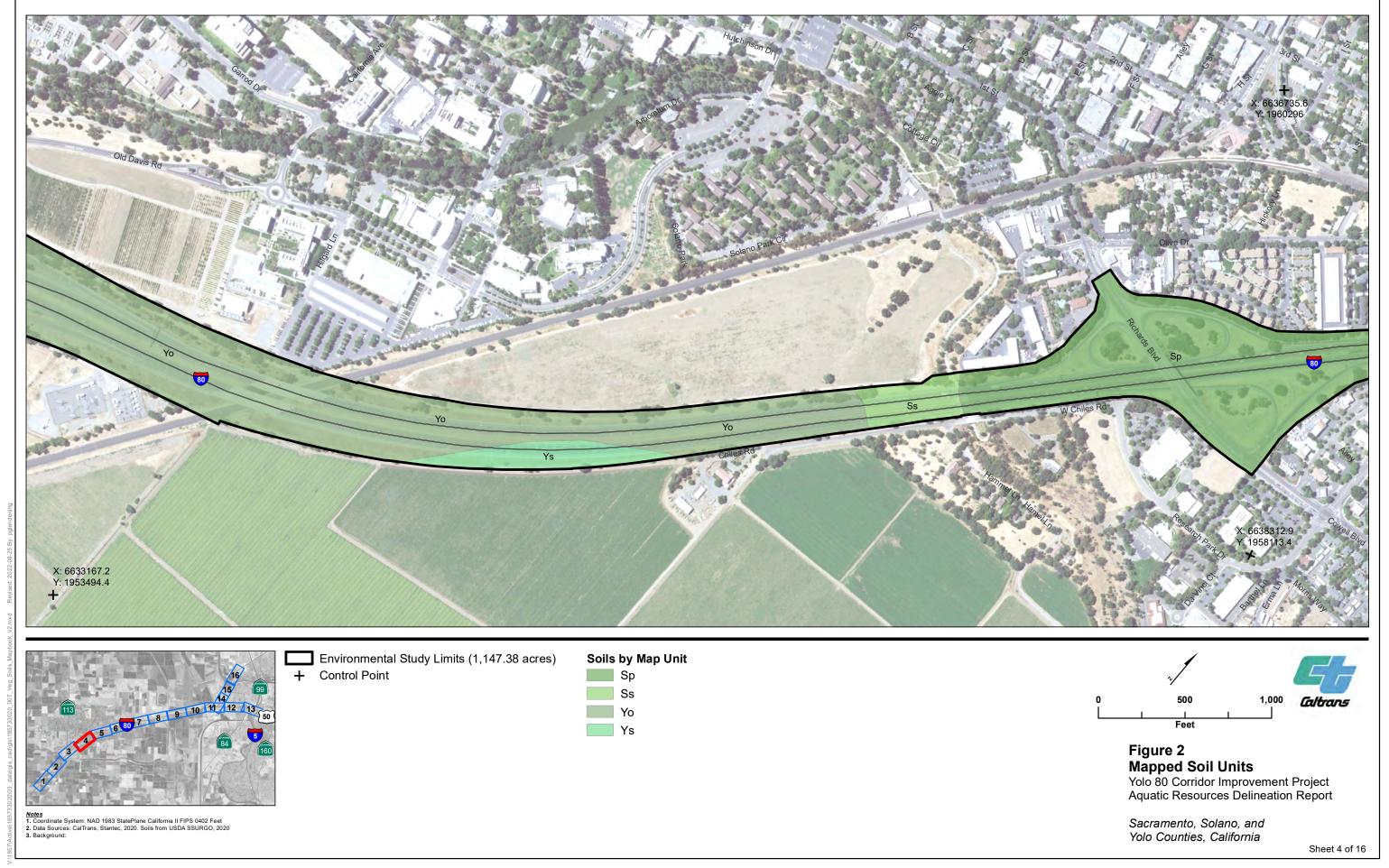
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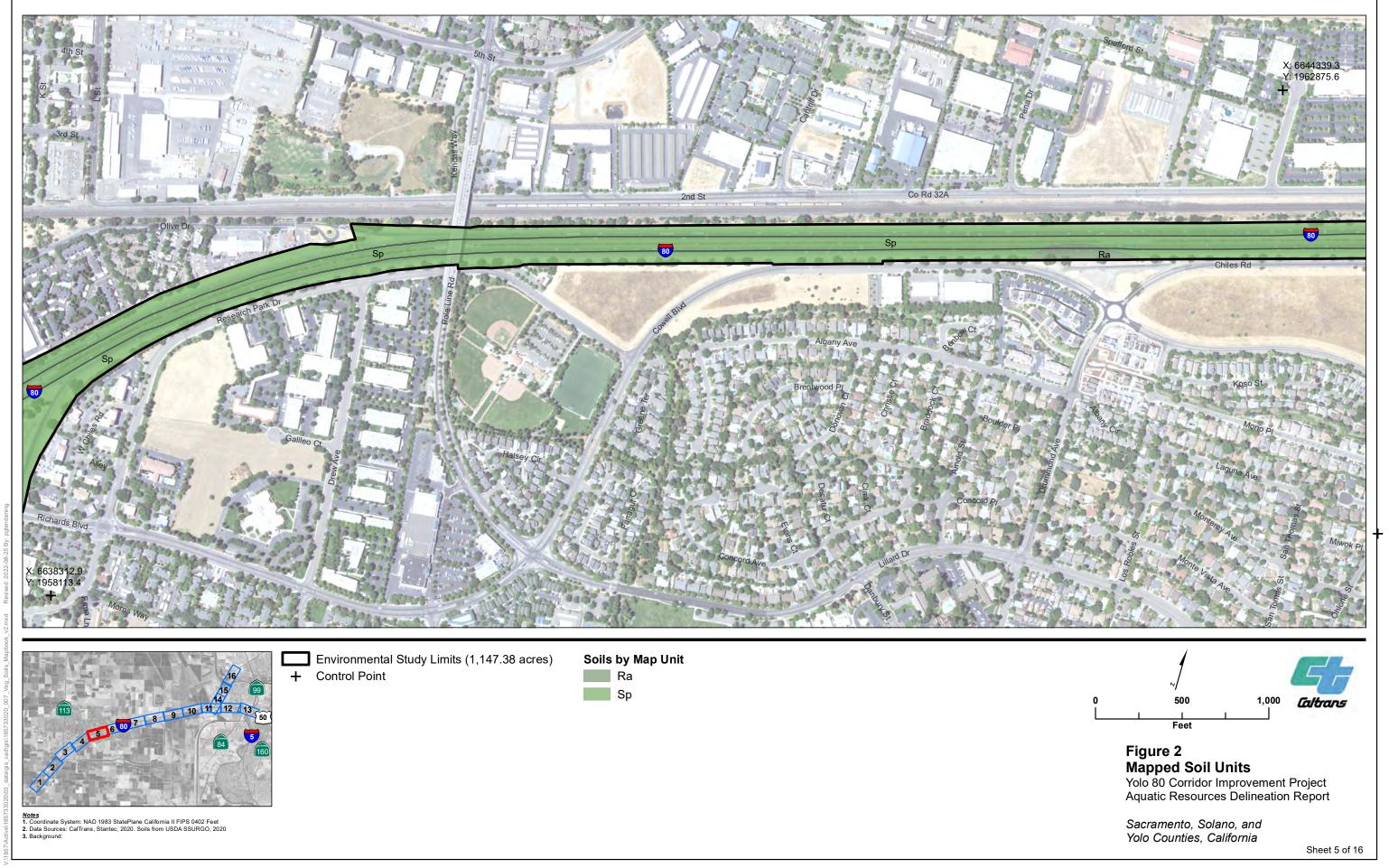
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2. Data Sources: CalTrans, Stantec, 2020
3. Background: USDA NAIP 2020.



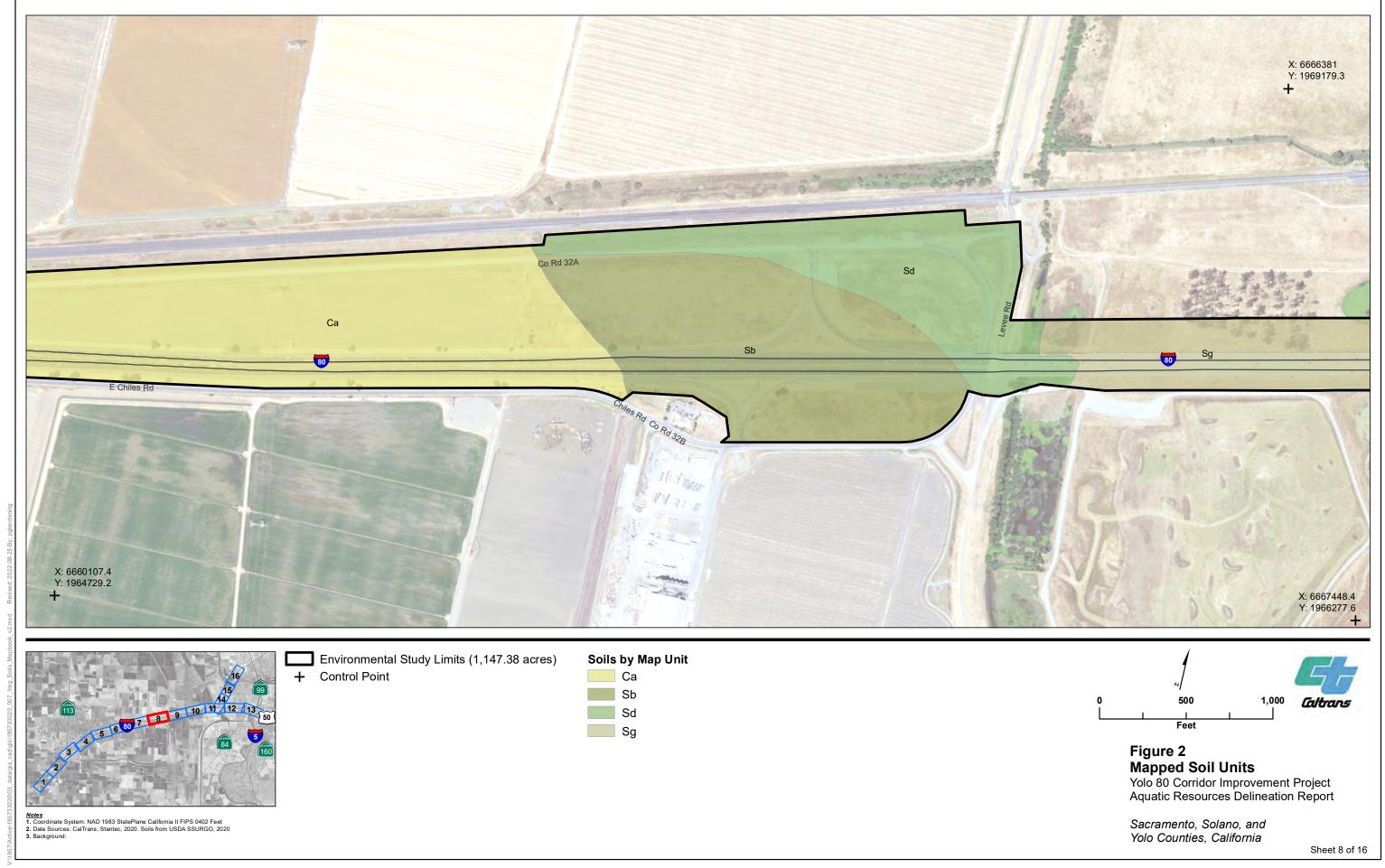


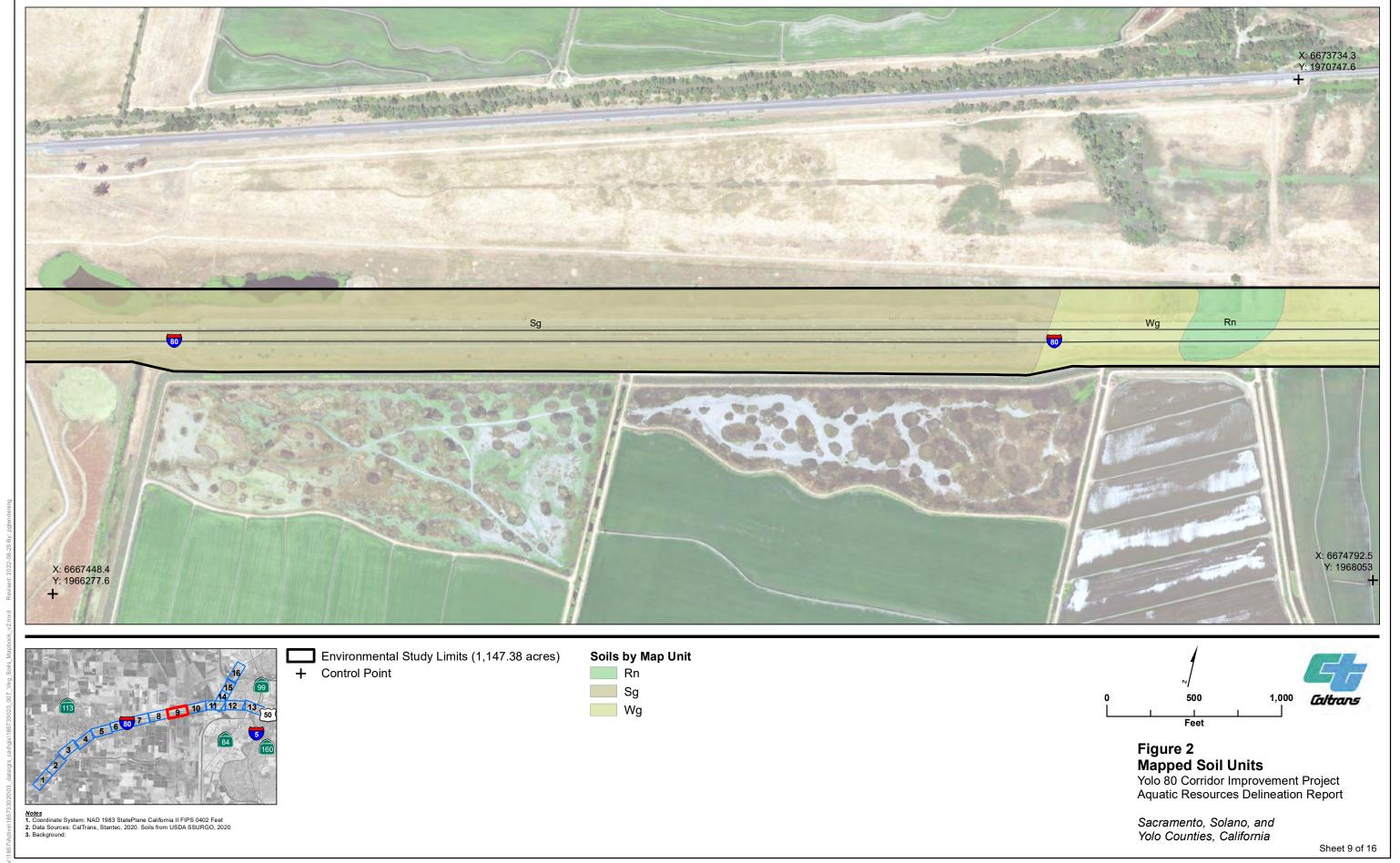


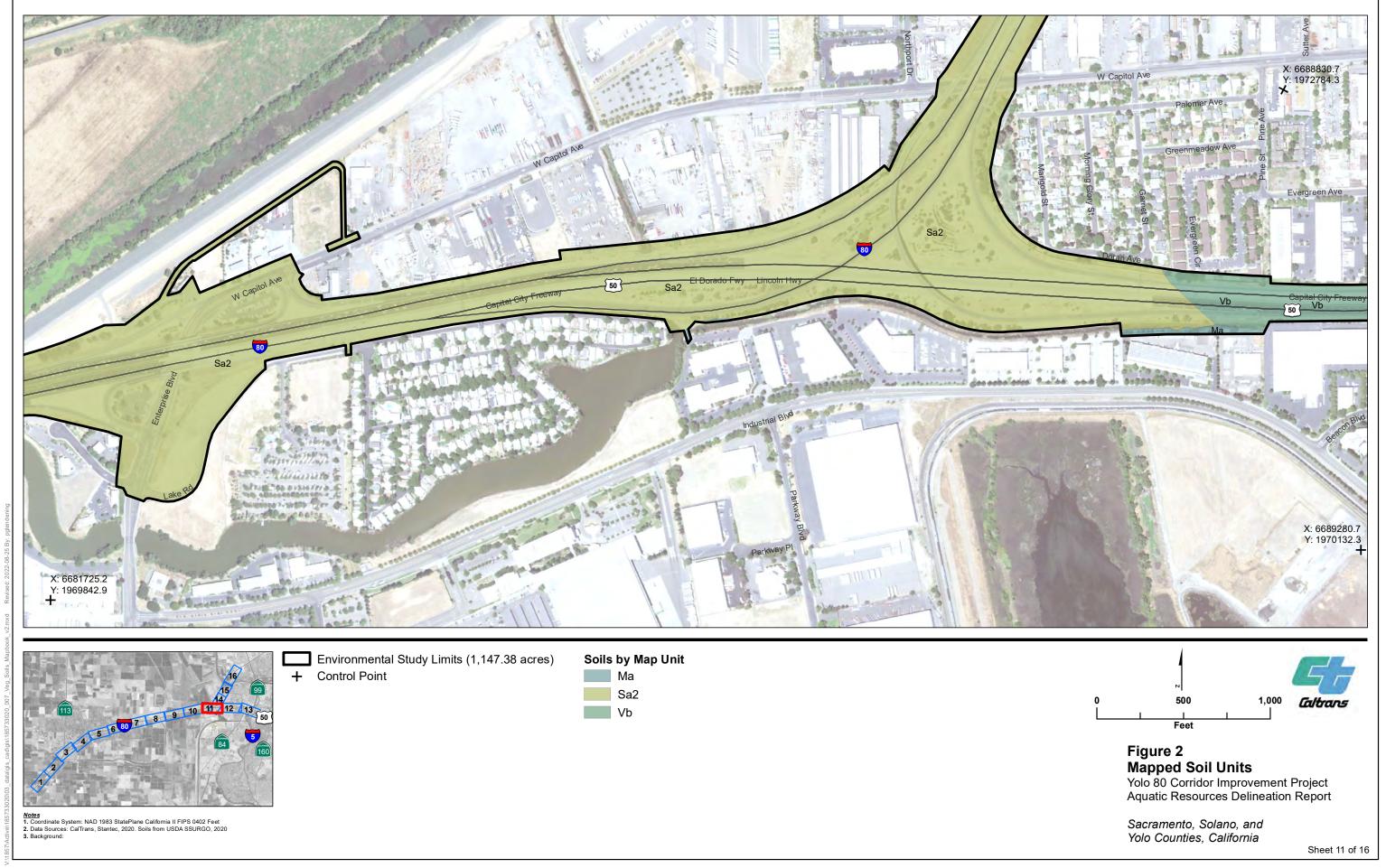






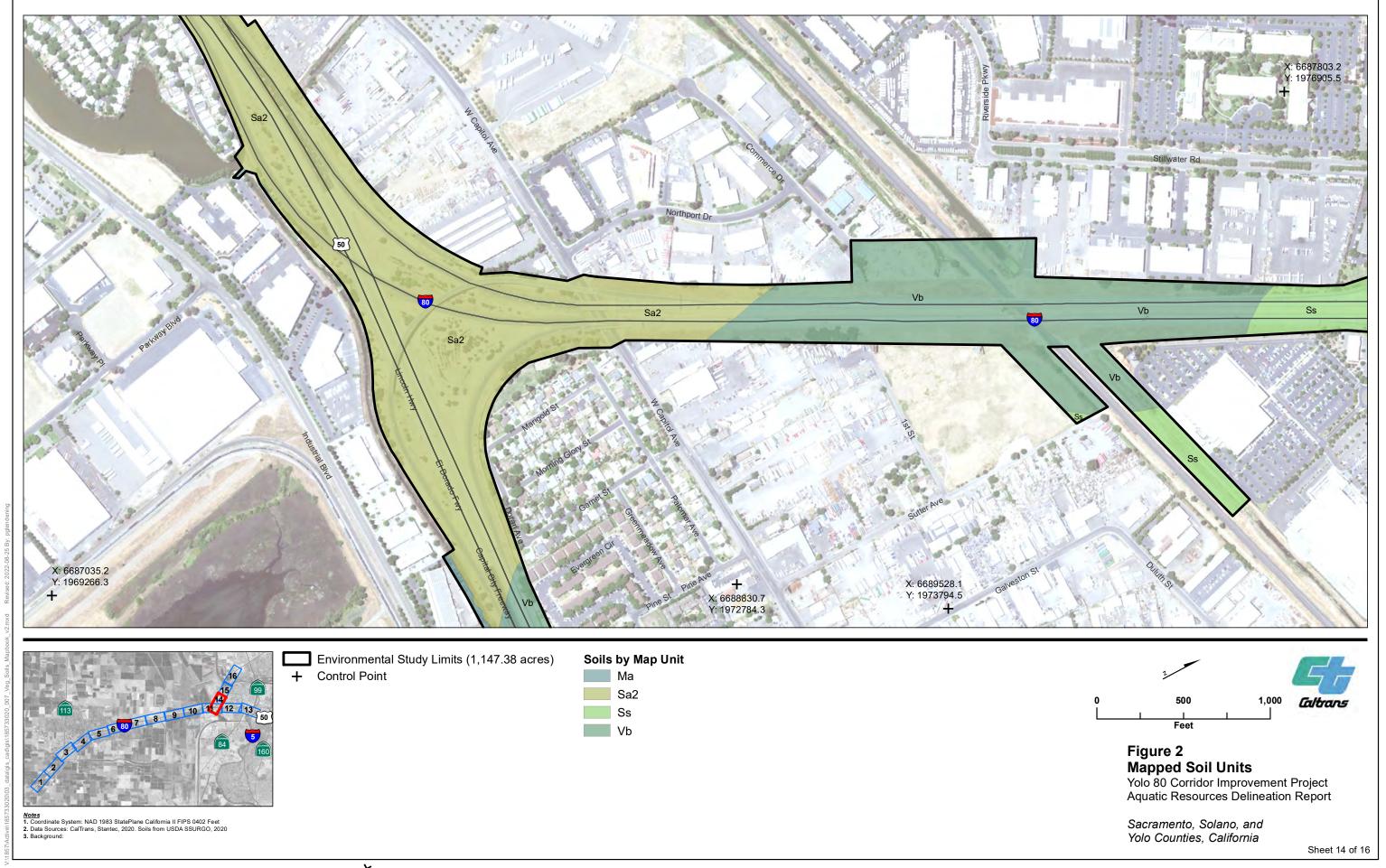


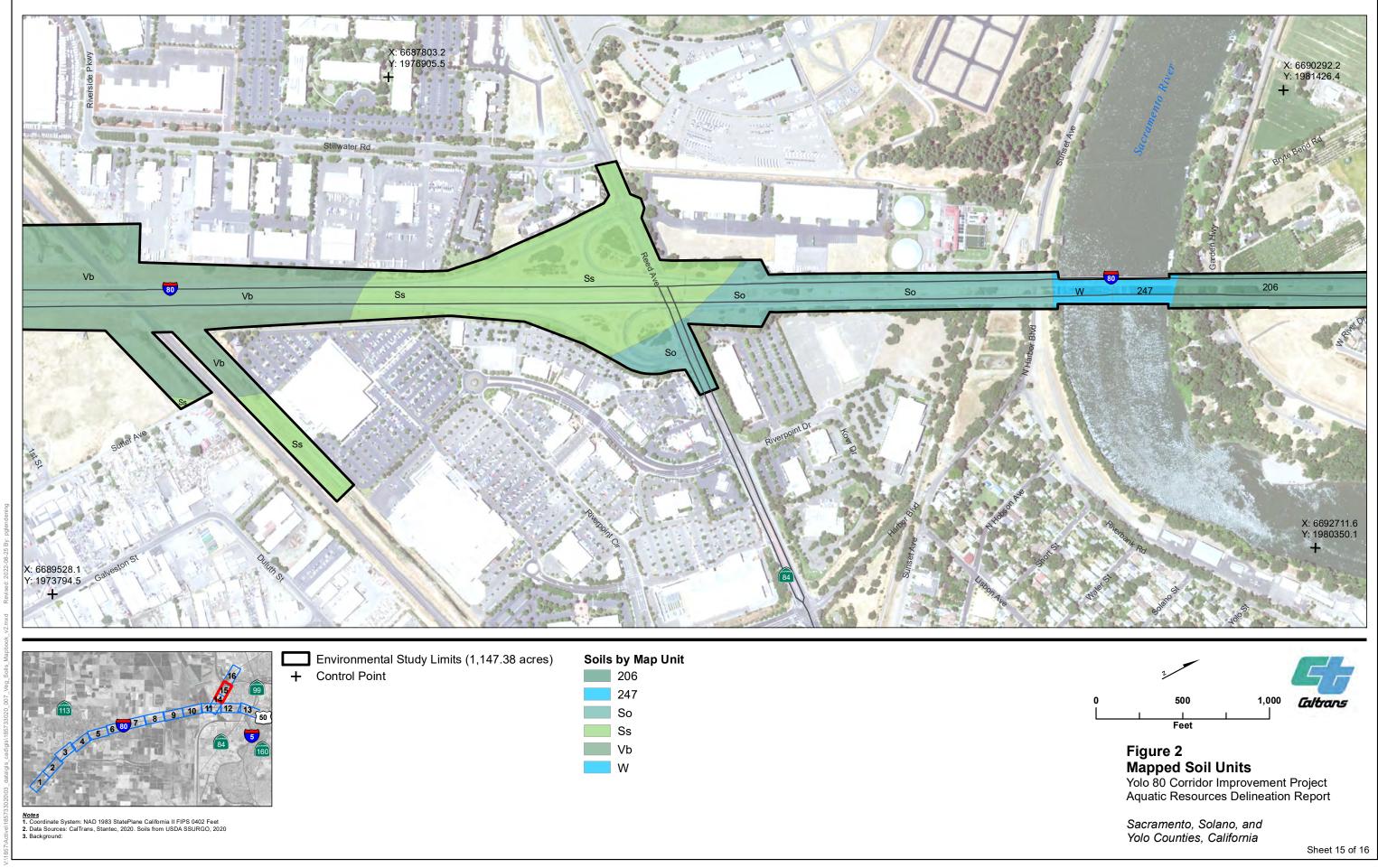




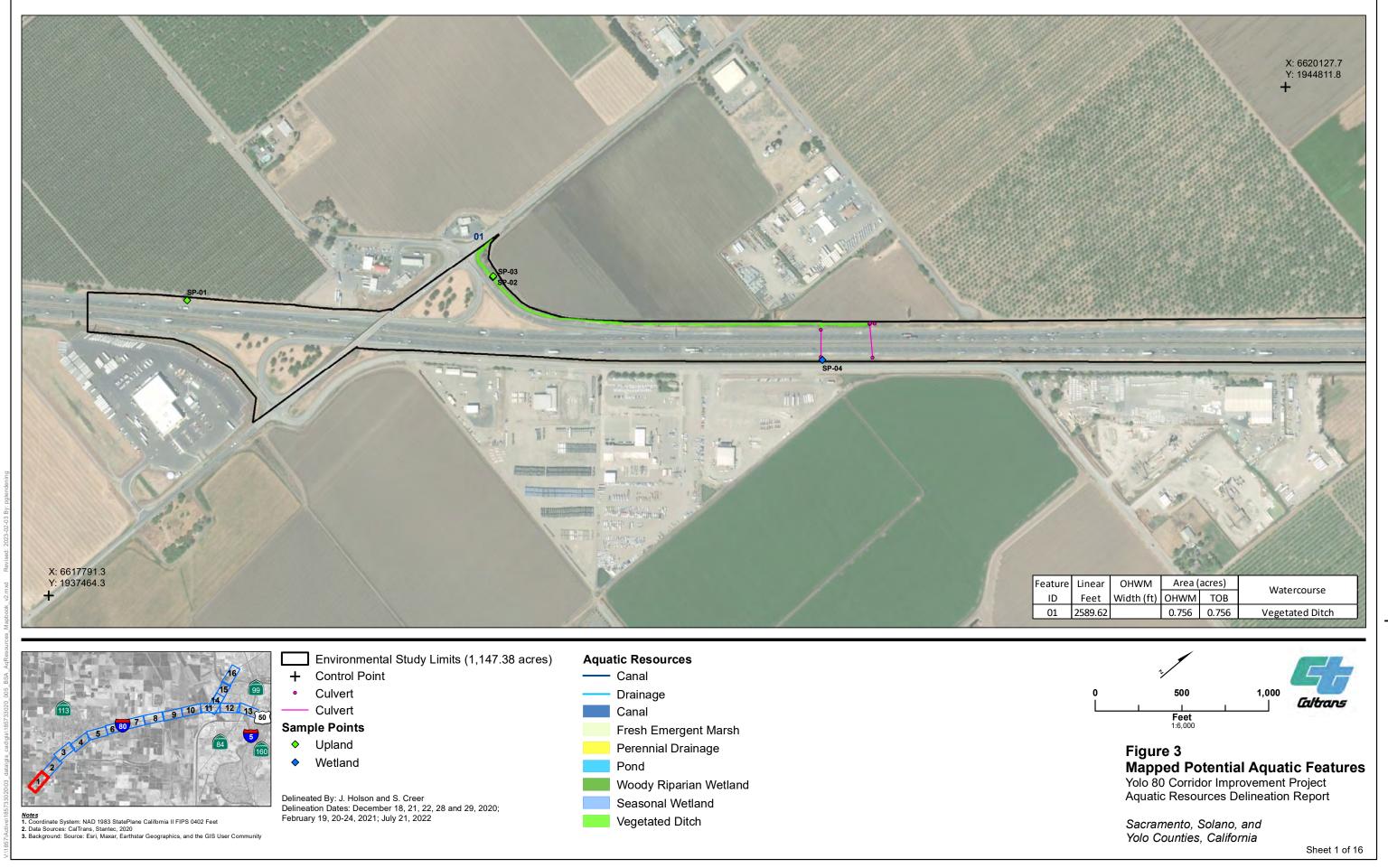
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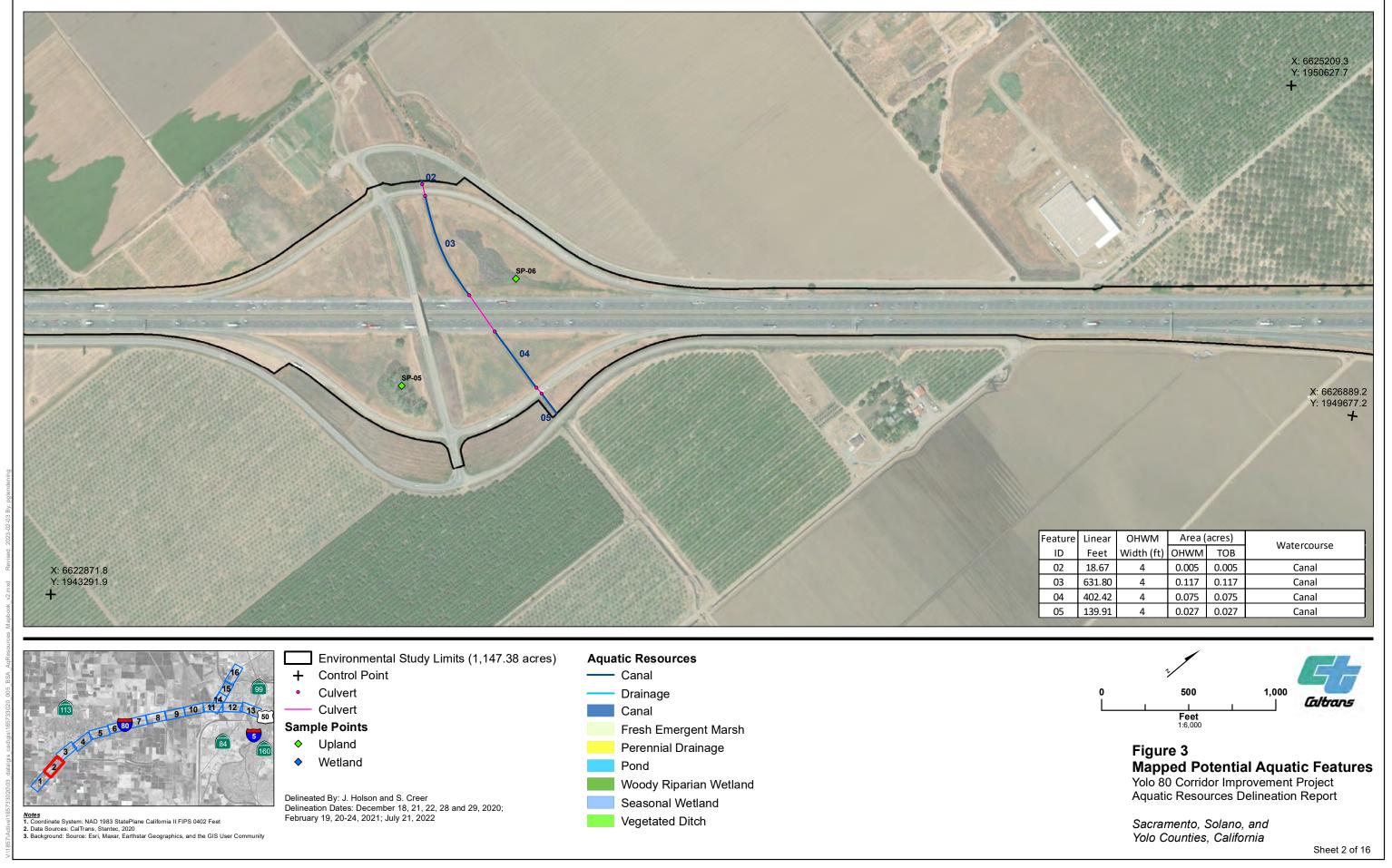
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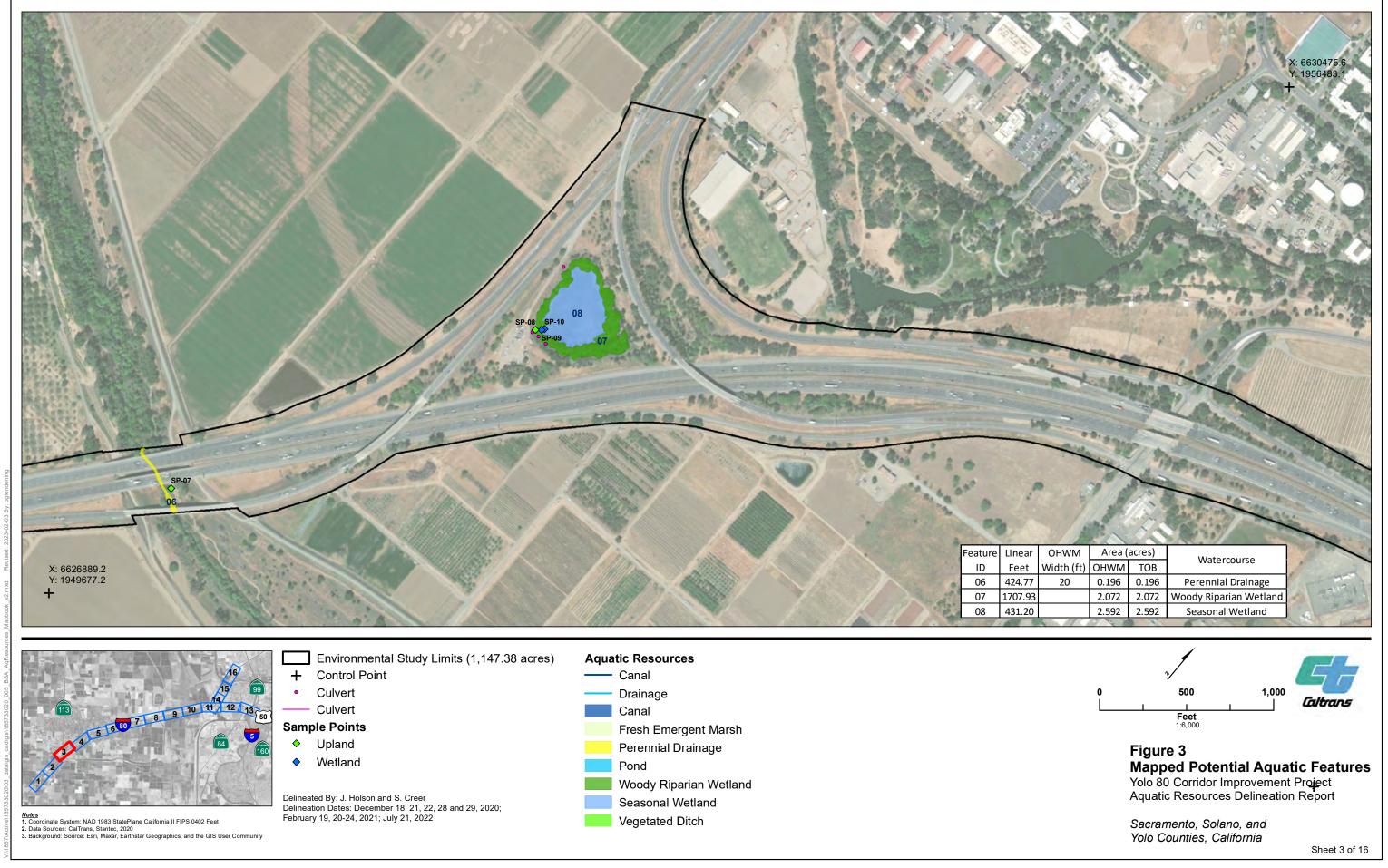


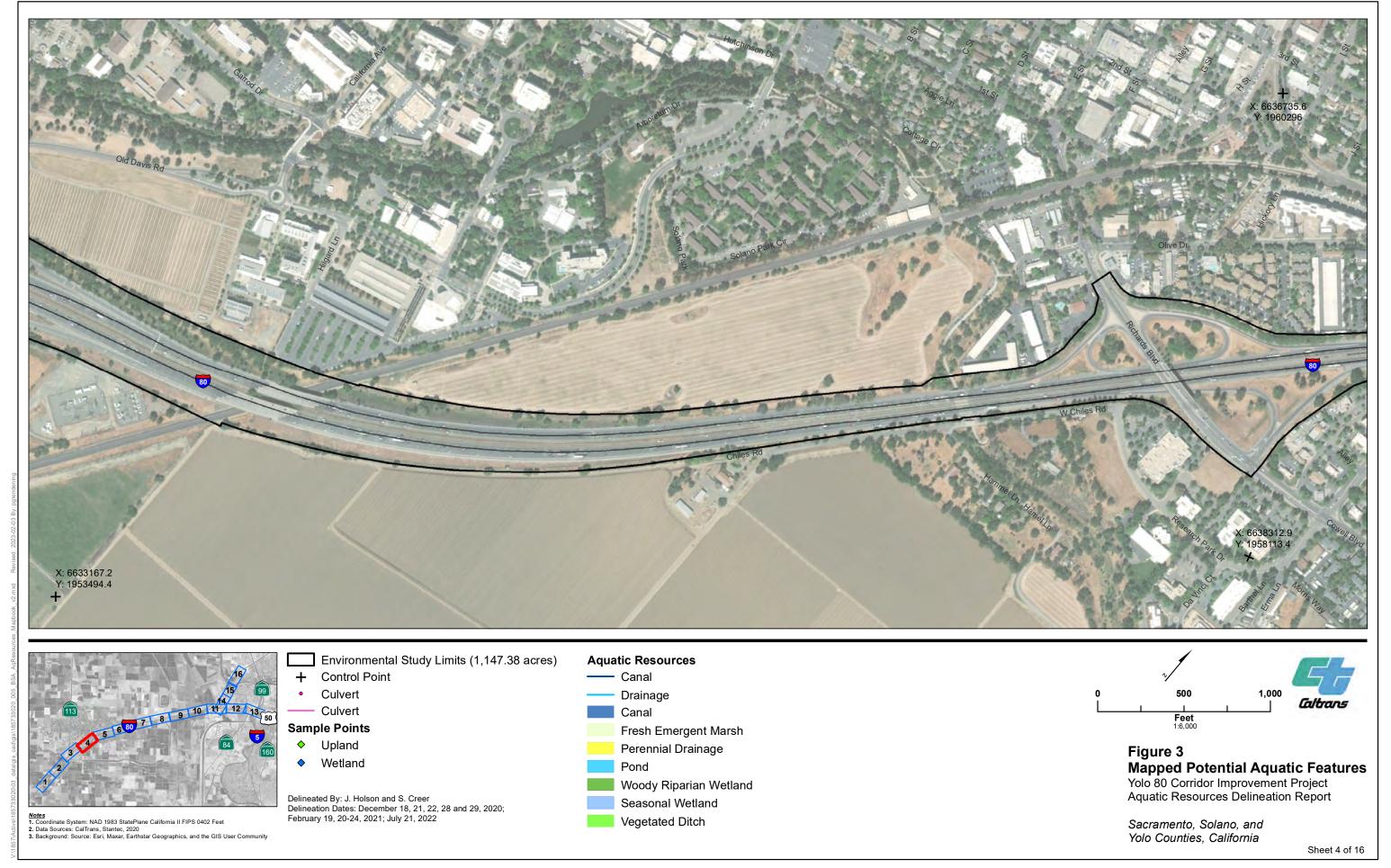


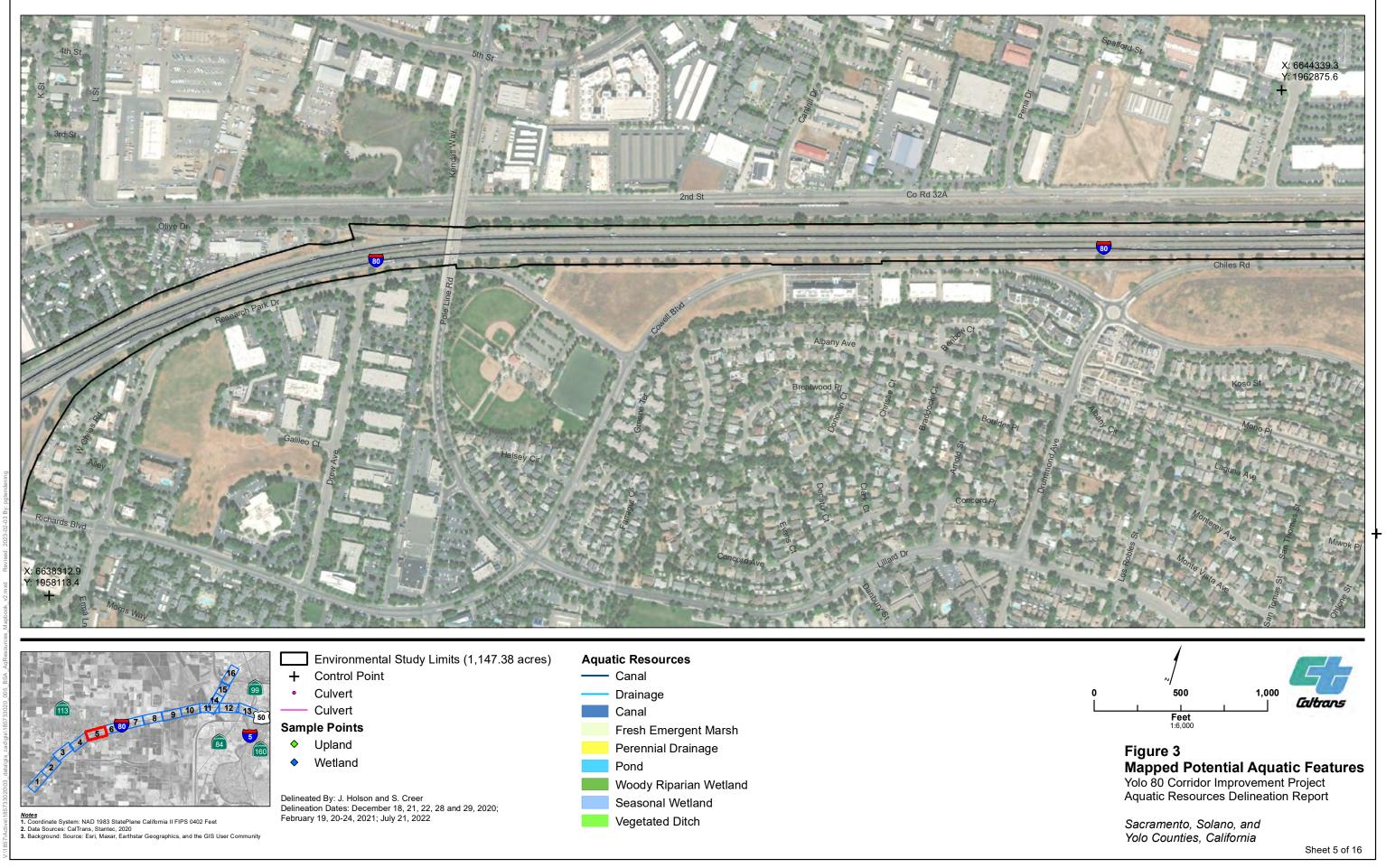


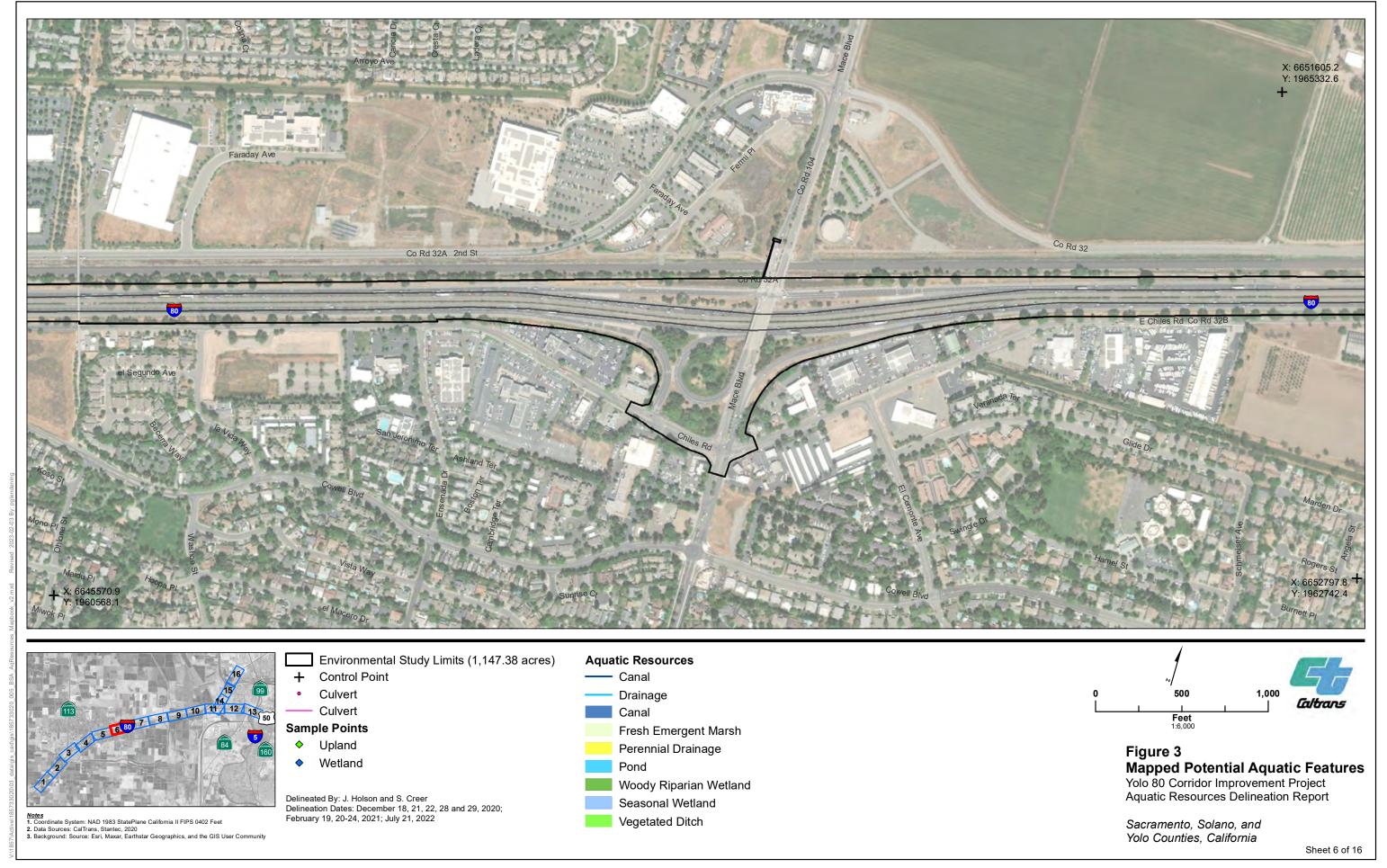


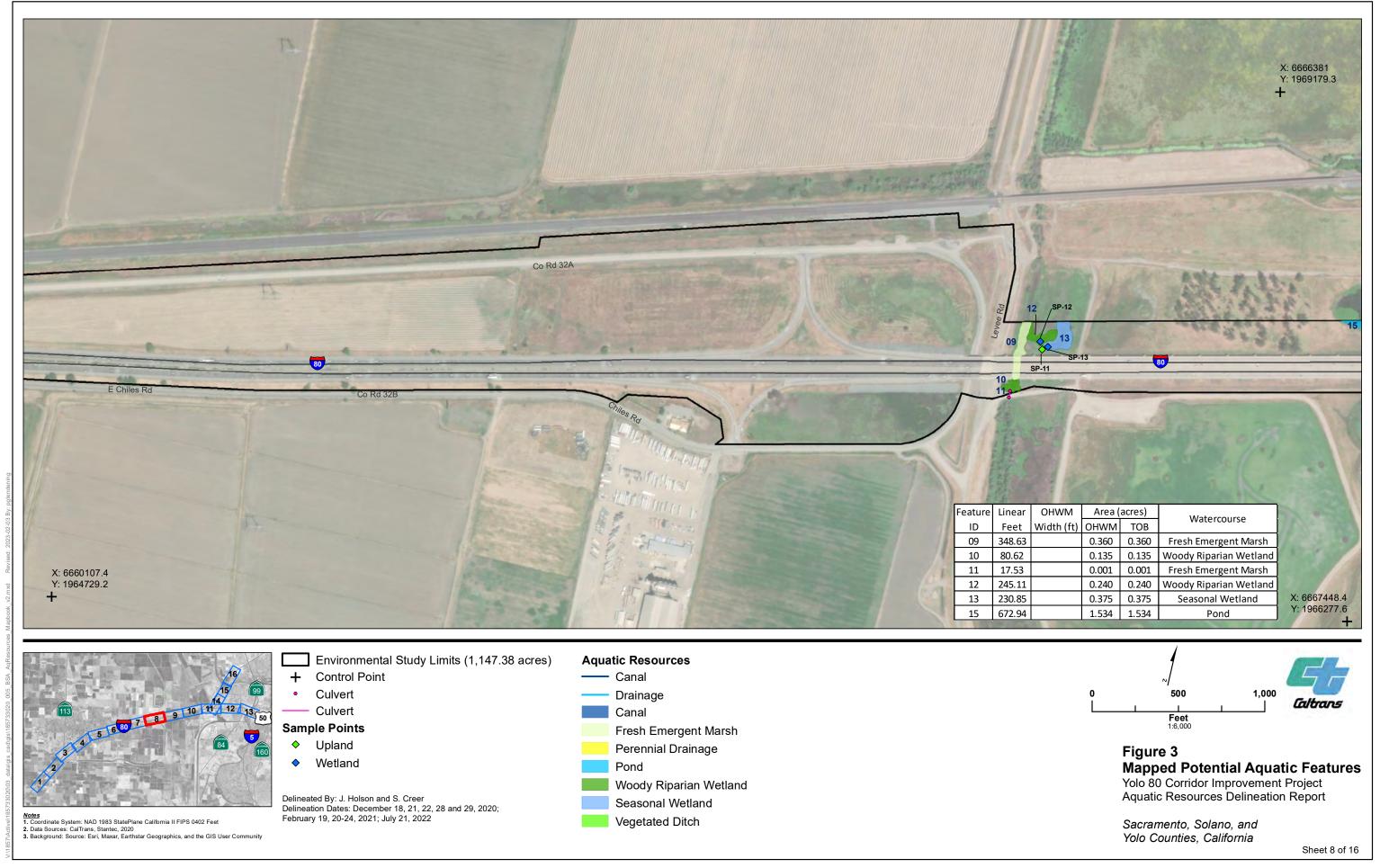




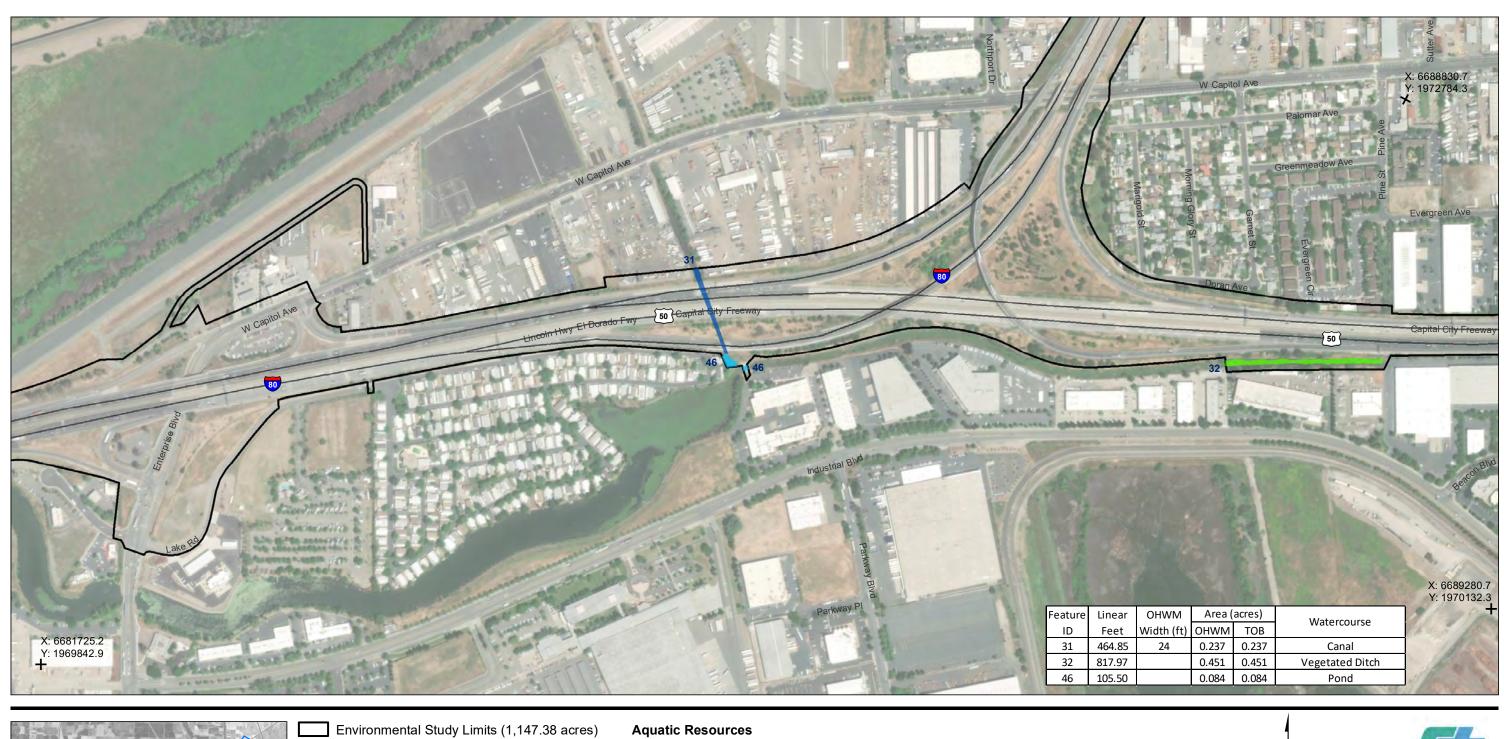








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Delineated By: J. Holson and S. Creer Delineation Dates: December 18, 21, 22, 28 and 29, 2020; February 19, 20-24, 2021; July 21, 2022

— Canal

Drainage

Canal

Fresh Emergent Marsh

Perennial Drainage

Woody Riparian Wetland

Seasonal Wetland Vegetated Ditch

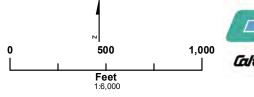




Figure 3 Mapped Potential Aquatic Features

Yolo 80 Corridor Improvement Project Aquatic Resources Delineation Report

Sacramento, Solano, and Yolo Counties, California

Sheet 11 of 16

Notes
1. Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet
2. Data Sources: CalTrans, Stantec, 2020
3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Control Point

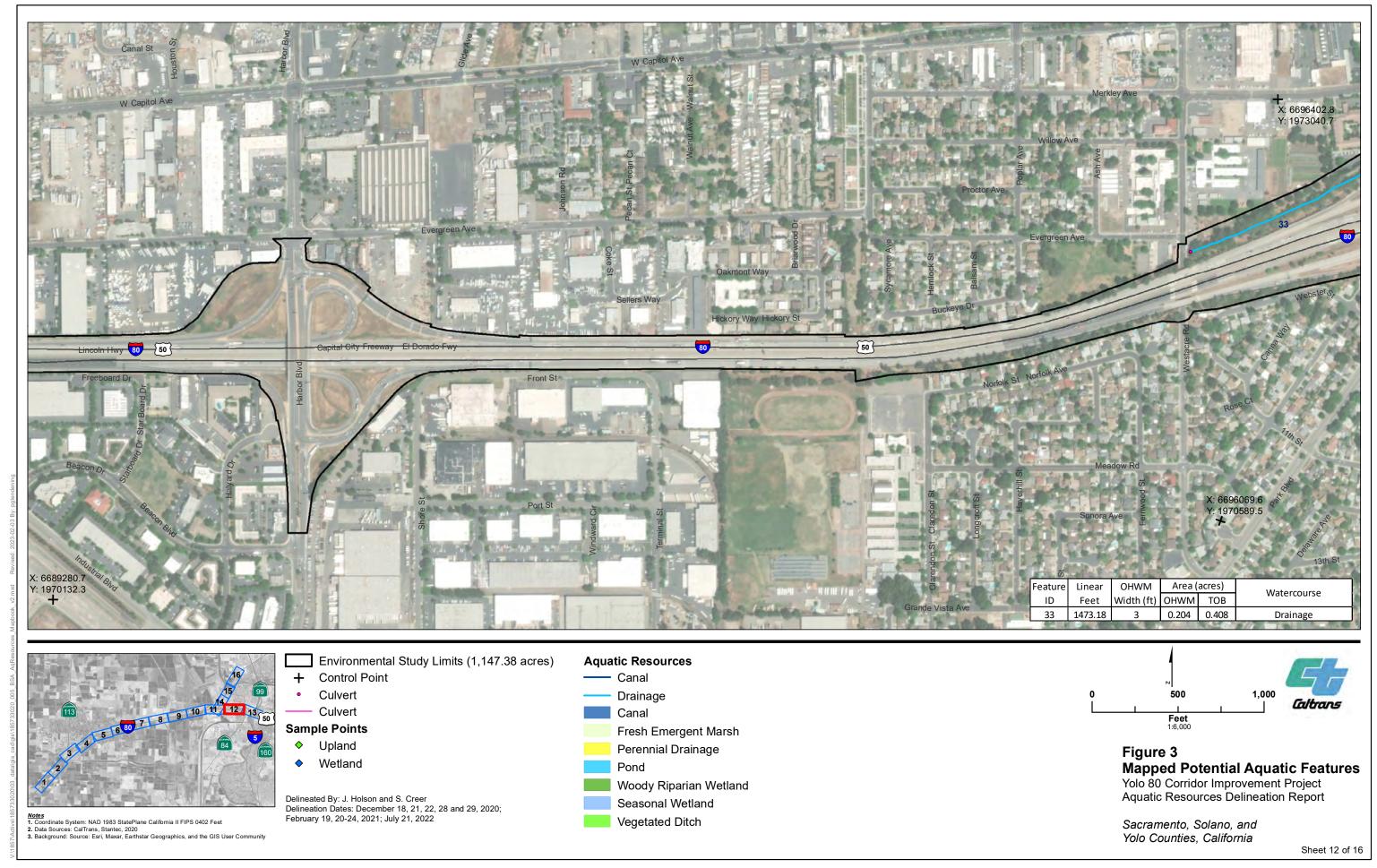
Culvert

Culvert

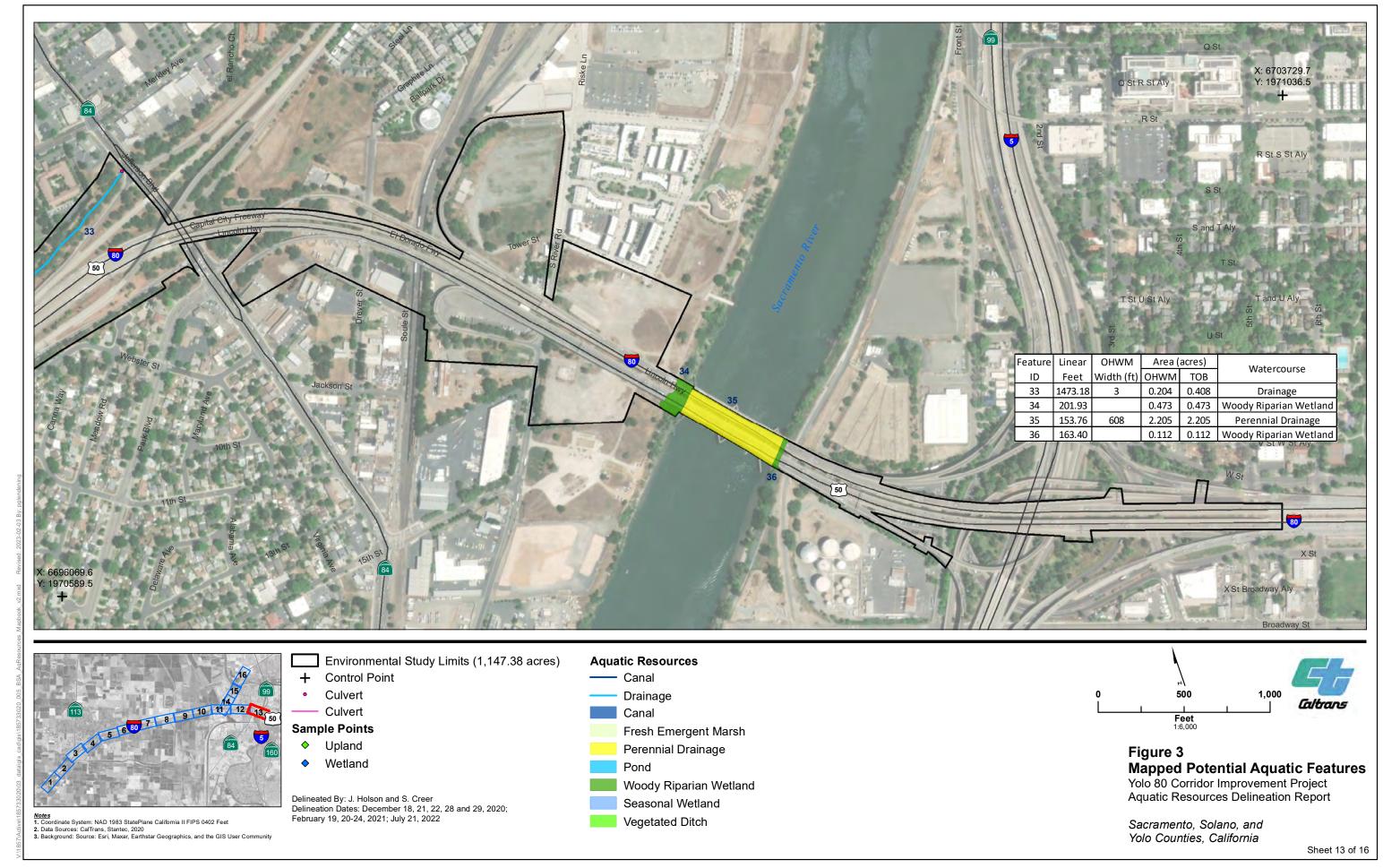
Sample Points

Upland

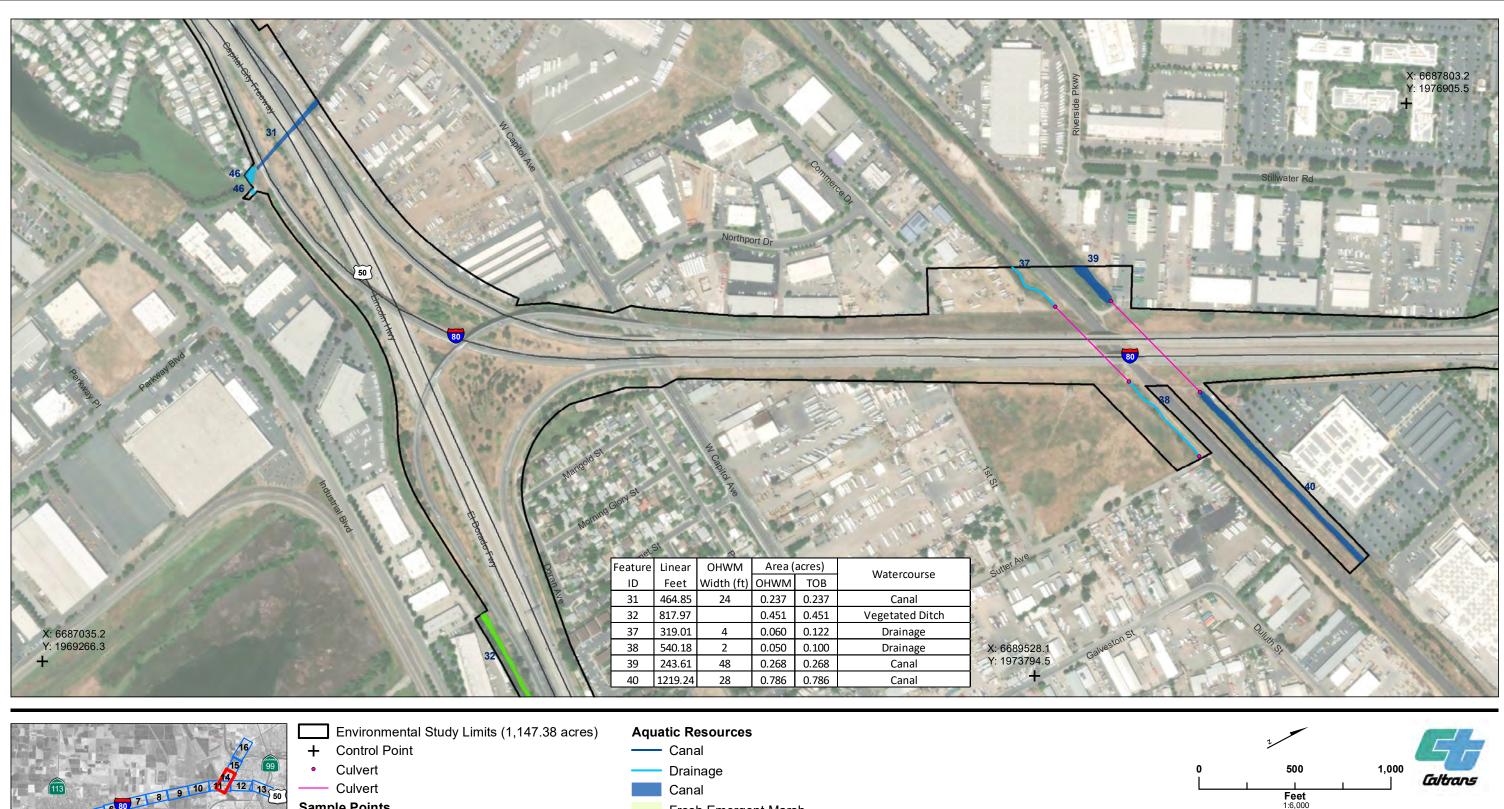
Wetland



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Notes
1. Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet
2. Data Sources: CalTrans, Stantec, 2020
3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Sample Points

- Upland
- Wetland

Delineated By: J. Holson and S. Creer Delineation Dates: December 18, 21, 22, 28 and 29, 2020; February 19, 20-24, 2021; July 21, 2022

Fresh Emergent Marsh

Perennial Drainage

Woody Riparian Wetland

Seasonal Wetland

Vegetated Ditch

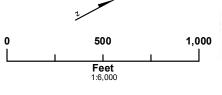
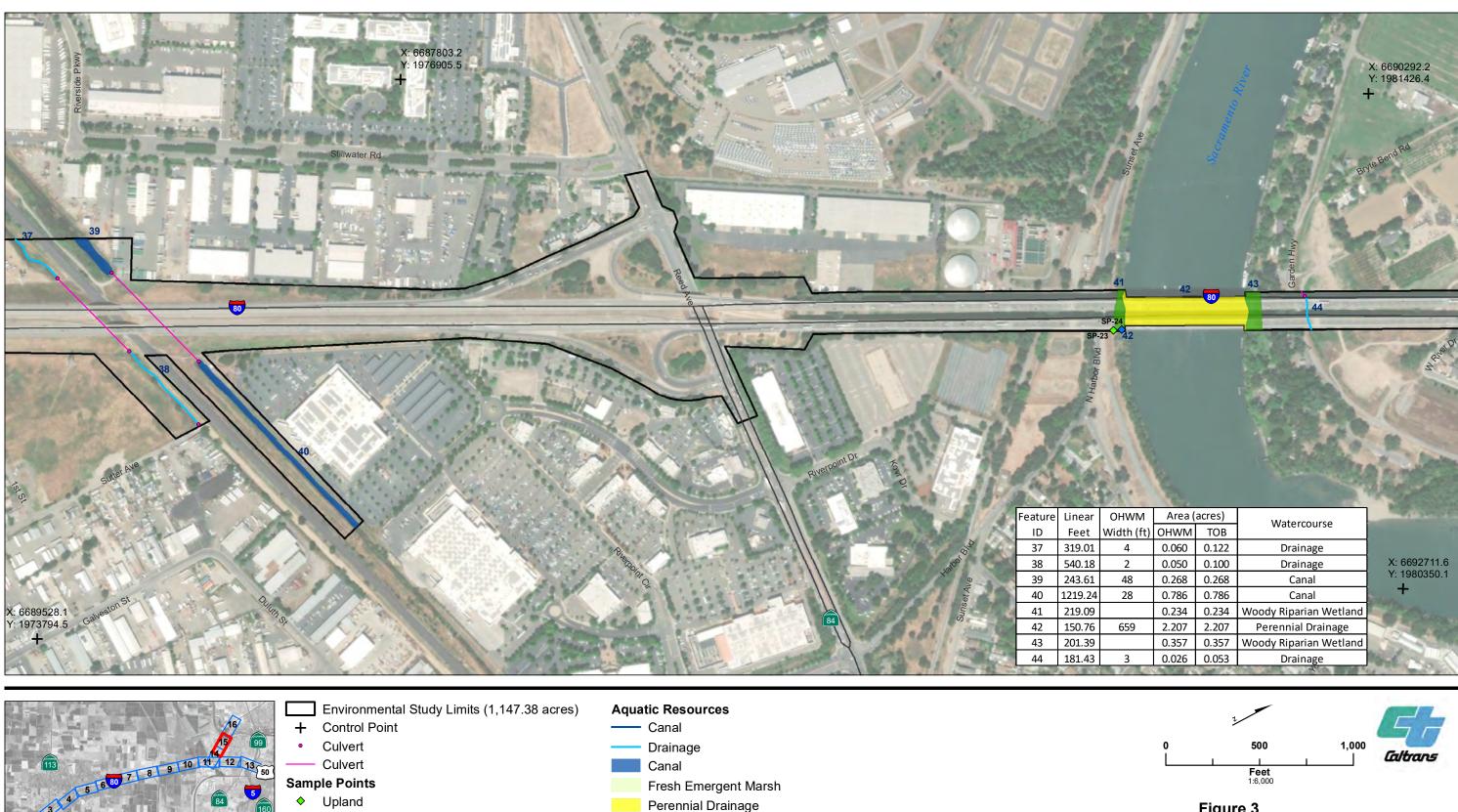


Figure 3 **Mapped Potential Aquatic Features**

Yolo 80 Corridor Improvement Project Aquatic Resources Delineation Report

Sacramento, Solano, and Yolo Counties, California

Sheet 14 of 16





Notes
1. Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet
2. Data Sources: CalTrans, Stantec, 2020
3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Wetland

Delineated By: J. Holson and S. Creer Delineation Dates: December 18, 21, 22, 28 and 29, 2020; February 19, 20-24, 2021; July 21, 2022

Woody Riparian Wetland

Seasonal Wetland

Vegetated Ditch

Figure 3 **Mapped Potential Aquatic Features**

Yolo 80 Corridor Improvement Project Aquatic Resources Delineation Report

Sacramento, Solano, and Yolo Counties, California

Sheet 15 of 16

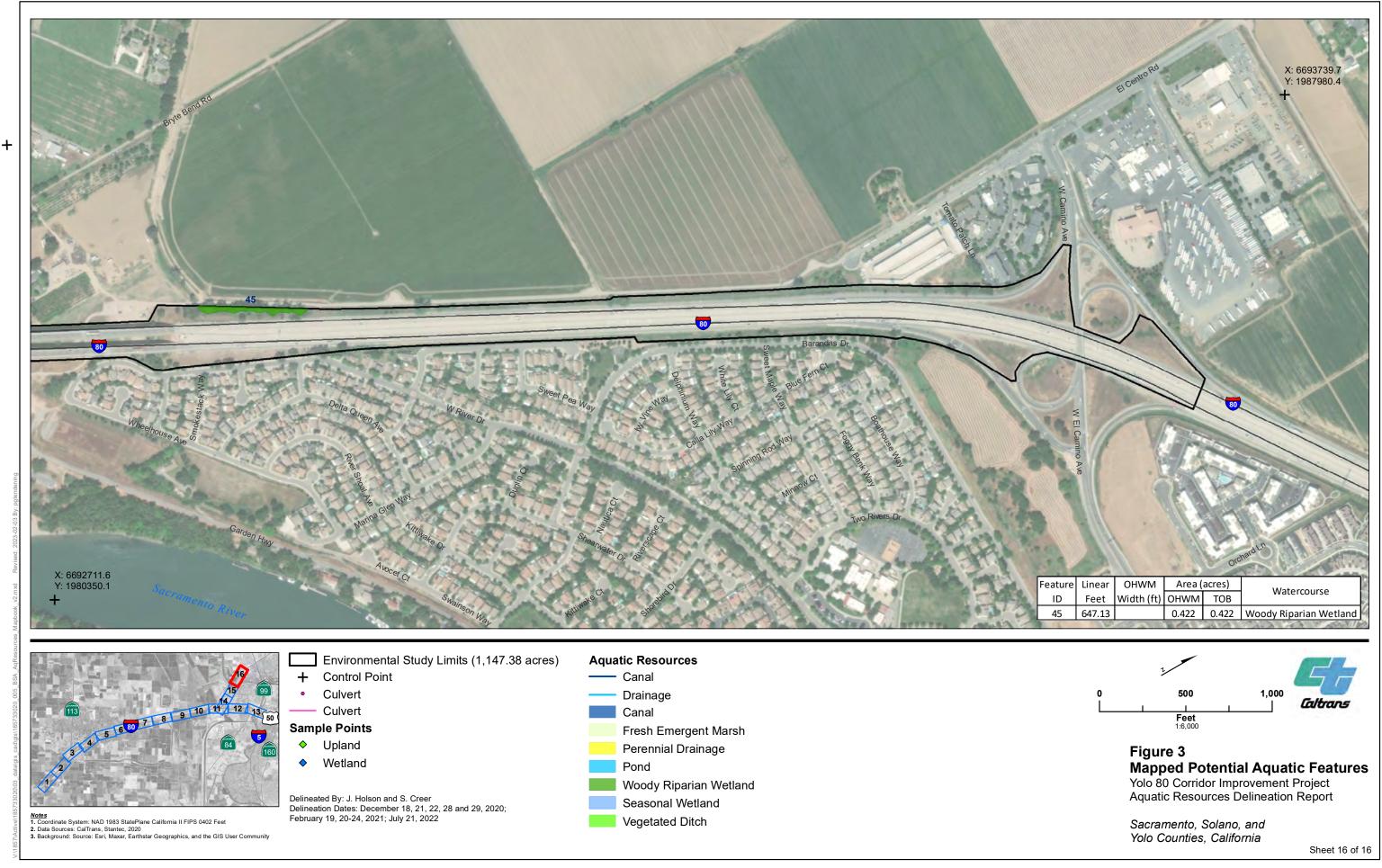




Table B.1. Wetland Features

Feature ID	Feature Type	Cowardin Class	Linear Feet	Potentially Jurisdictional Area (acre[s])				
10		Class	1 661	USACE	RWQCB	CDFW		
01	Vegetated Ditch	R4SB7	2,589.62	0.756	0.756	0.756		
07	Woody Riparian Wetland	RP1F0	1,707.93	2.072	2.072	0.000		
08	Seasonal Wetland	RP1F0	431.20	2.592	2.592	0.000		
09	Fresh Emergent Marsh	PEM1	348.63	0.360	0.360	0.000		
10	Woody Riparian Wetland	RP1F0	80.62	0.135	0.135	0.000		
11	Fresh Emergent Marsh	PEM1	17.53	0.001	0.001	0.000		
12	Woody Riparian Wetland	RP1F0	245.11	0.240	0.240	0.000		
13	Seasonal Wetland	PEM2	230.85	0.375	0.375	0.000		
14	Fresh Emergent Marsh	PEM1	39.26	0.038	0.038	0.000		
17	Seasonal Wetland	PEM2	76.32	0.065	0.065	0.00		
18	Vegetated Ditch	R4SB7	2,074.67	0.897	0.897	0.897		
19	Vegetated Ditch	R4SB7	10,913.11	5.431	5.431	5.431		
20	Seasonal Wetland	PEM2	18.31	0.011	0.011	0.00		
21	Seasonal Wetland	PEM2	14.13	0.009	0.009	0.000		
22	Vegetated Ditch	R4SB7	80.91	0.009	0.009	0.009		
23	Woody Riparian Wetland	RP1F0	221.59	0.656	0.656	0.000		
24	Seasonal Wetland	PEM2	286.41	0.950	0.950	0.00		
26	Vegetated Ditch	R4SB7	19.69	0.009	0.009	0.009		
28	Woody Riparian Wetland	RP1F0	178.63	0.252	0.252	0.252		
30	Woody Riparian Wetland	RP1F0	116.20	0.107	0.107	0.107		
32	Vegetated Ditch	R4SB7	817.97	0.451	0.451	0.451		
34	Woody Riparian Wetland	RP1F0	201.93	0.473	0.473	0.473		
36	Woody Riparian Wetland	RP1F0	163.40	0.112	0.112	0.112		
41	Woody Riparian Wetland	RP1F0	219.09	0.234	0.234	0.234		
43	Woody Riparian Wetland	RP1F0	201.39	0.357	0.357	0.357		
45	Woody Riparian Wetland	RP1F0	647.13	0.422	0.422	0.422		
		Totals	21,941.63	17.014	17.014	9.510		

Table B.2. Other Waters

Feature ID	Feature Type	Cowardin Class	Linear Feet	Potentially Jurisdictional Area (acre[s])				
lD.		Class	reet	USACE	RWQCB	CDFW		
02	Canal	R4x	18.67	0.005	0.005	0.005		
03	Canal	R4x	631.80	0.117	0.117	0.117		
04	Canal	R4x	402.42	0.075	0.075	0.075		
05	Canal	R4x	139.91	0.027	0.027	0.027		
06	Perennial Drainage (Putah Creek)	R2UB1	424.77	0.196	0.196	0.196		
15	Pond	L2UB	387.18	1.534	1.534	1.534		
16	Pond	L2UB	1032.14	1.966	1.966	1.966		
25	Canal	R3x	13.85	0.008	0.008	0.008		
27	Intermittent Drainage	R4SB5	1,875.70	0.259	0.259	0.519		
29	Perennial Drainage (Prospect Slough)	R2UB3	418.73	1.084	1.084	1.084		
31	Canal	R3x	464.85	0.237	0.237	0.237		
33	Ephemeral Drainage	R4SB5	1473.18	0.204	0.204	0.408		
35	Perennial Drainage (Sacramento River)	R2UB	153.76	2.205	2.205	2.205		
37	Intermittent Drainage	R4SB5	319.01	0.060	0.060	0.122		
38	Intermittent Drainage	R4SB5	540.18	0.050	0.050	0.100		
39	Canal	R4x	243.61	0.268	0.268	0.268		
40	Canal	R4x	1219.24	0.786	0.786	0.786		
42	Perennial Drainage (Sacramento River)	R2UB	150.76	2.207	2.207	2.207		
44	Ephemeral Drainage	R4SB5	181.43	0.026	0.026	0.053		
46	Pond	L2UB	105.5	0.084	0.084	0.084		
		Totals:	10,196.69	11.398	11.398	12.001		



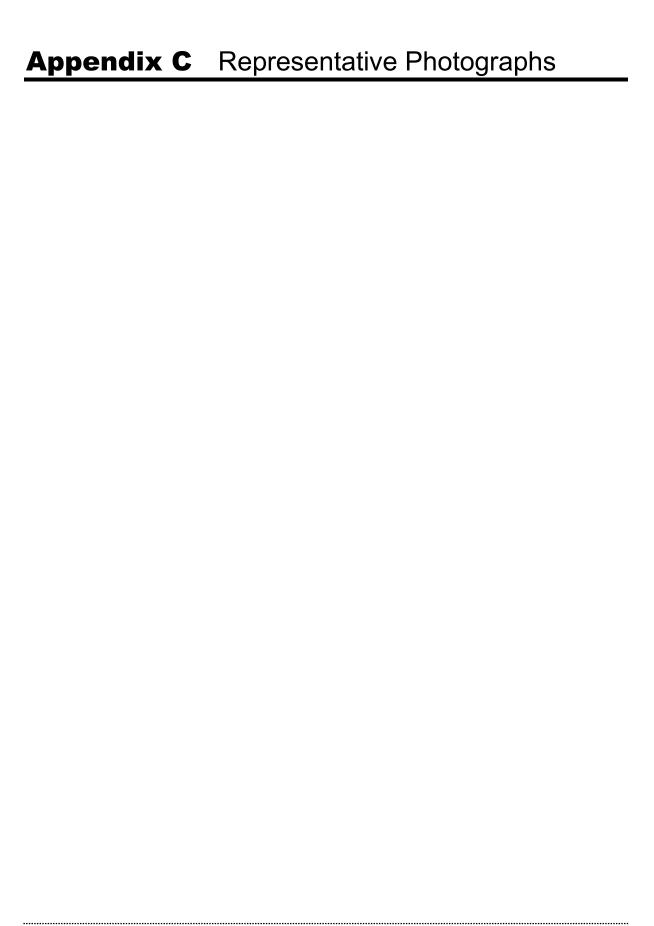




Photo 1. View to the west of Feature 01, a vegetated ditch.



Photo 2. View to the west of Feature 01, a vegetated ditch.



Photo 3. View to the northwest of roadside culvert.



Photo 4. View to the northwest of Sampling Point 04, in an upland.



Photo 5. View to the east of Sampling Point 05, in an upland.



Photo 6. View to east of Feature 03, a canal.



Photo 7. View to the northwest of Feature 03, a canal.



Photo 8. View to the southwest Sampling Point 6, in an upland.



Photo 9. View to the southwest of South Putah Creek, Feature 6.



Photo 10. View to the southeast of South Putah Creek, Feature 6.



Photo 11. View to the northeast of Feature 7, a woody riparian wetland, and wetland Sampling Point 9



Photo 12. View to the northeast of Feature 8, a seasonal wetland and wetland Sampling Point 10.



Photo 13. View to the northeast of Features 07 (riparian wetland) and 08 (seasonal wetland), as well as upland Sampling Point 11.



Photo 14. View to the south of Feature 09, a fresh emergent marsh, in the Yolo Bypass.



Photo 15. View to the north of Feature 09, a fresh emergent marsh, in the Yolo Bypass.



Photo 16. View to the northeast of Feature 13, a seasonal wetland, in the Yolo Bypass.



Photo 17. View to the southwest of Feature 14, a fresh emergent marsh, in the Yolo Bypass and wetland Sampling Point 14.



Photo 18. View to the south of Feature 14, a fresh emergent marsh, in the Yolo Bypass.



Photo 19. View to the northeast of Feature 15, a pond, in the Yolo Bypass.



Photo 20. View to the northeast of Feature 16, a pond, in the Yolo Bypass.



Photo 21. View to the east of Feature 17, a seasonal wetland and wetland Sampling Point 16.



Photo 22. View to the east of upland Sampling Point 17.



Photo 23. View to the northwest of Feature 23, a woody riparian wetland, in the Yolo Bypass.



Photo 24. View to the north of Feature 24, a seasonal wetland, in the Yolo Bypass.



Photo 25. View to the southwest of Feature 22, a vegetated ditch, in the Yolo Bypass.



Photo 26. View to the southwest of Prospect Slough (Feature 29) in the Yolo Bypass.



Photo 27. View to the west of Prospect Slough (Feature 29) in the Yolo Bypass, as well as Feature 27.



Photo 28. View to the northwest of Feature 37, an intermittent drainage.



Photo 29. View to the east of Feature 32, a vegetated ditch.



Photo 30. View to the southwest of Feature 33, an ephemeral drainage.



Photo 31. View to the northeast of Feature 33, an ephemeral drainage.



Photo 32. View to the southeast of the Sacramento River (Feature 35).



Photo 33. View to the southwest of Features 34, a woody riparian wetland, and Feature 35 (Sacramento River).

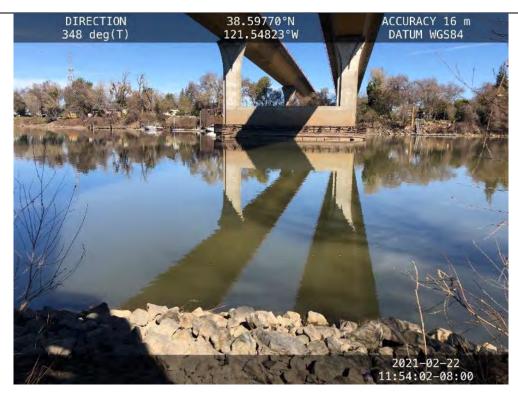


Photo 34. View to the north of the Sacramento River (Feature 42).



Photo 35. View to the southwest of the Sacramento River (Features 41 and 42).



Photo 36. View to the north of Feature 45, a woody riparian wetland.



Appendix D Sample Point and OHWM Datasheets

Project/Site: Yolo 80 Corridor Improvement Project		Citv/Count	y:	Solano	Sar	mpling Date:	02/2	23/2021
Applicant/Owner: CalTr		, , .				mpling Point		01
Investigator(s): J. Holson; S. Creer		Section, To	wnship, Range		 T8N R3	-		
Landform (hillslope, terrace, etc): Valley bottom				vex, none):			Slope (%): 3
Subregion (LRR):	Lat:		86817		21.806727	Dat	tum: \	WGS84
Soil Map Unit Name: Capay Silty Clay	Loam, 0 pe				lassification:		,	
Are climatic / hydrologic conditions on the site typical for this time	of year?	Yes X	No	(If no, explain i	n Remarks.)			
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>N</u> s			Are	"Normal Circumstand	es" present?	Yes _	1 X	No
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>N</u> r	naturally pro	oblematic?	(If n	eeded, explain any a	nswers in Ren	narks.)		
SUMMARY OF FINDINGS - Attach site map show	ing sam	pling poi	int locations	s, transects, imp	ortant fea	tures, etc) *-	
Hydrophytic Vegetation Present? Yes No	o <u>X</u>							
Hydric Soil Present? Yes No	о <u>Х</u>		Is the Sample	d Area				
Wetland Hydrology Present? Yes No		-	within a Wetla	nd? Ye	es	No X		
Remarks:		-						
VEGETATION - Use scientific names of plants.								
				Dominance Tes	st worksheet:			
				Number of Dom	inant Species			
	Absolute	Dominar		That Are OBL, F	ACW, or FAC	:	1	(A)
Tree Stratum (Plot size: 10 ft rad)	% Cover	Species'		-		·		
1. <u>Ulmus parvifolia / Siberian elm, Chinese elm, Lacebark elm</u>	30	Yes_	UPL	Total Number of	Dominant			
2. 3.				- Species Across	All Strata:		2	(B)
<u> </u>	-			-				
··· 	30	= Total C	Cover	- Percent of Dom	•			
Sapling/Shrub Stratum (Plot size: 0)				That Are OBL, F	FACW, or FAC	:	50.0	_ (A/B)
1.				Prevalence Ind	ex workshee	t:		
2.				Total % Co			Itiply by:	
3.				OBL species	0	x 1 =	0	
4.				FACW species	0	x 2 =	0	
5				FAC species	100	x 3 =	300	
	0	_ = Total C	Cover	FACU species	0	x 4 =	0	
Herb Stratum (Plot size: 5 ft rad)				UPL species	30	_ x 5 =	150	
1. Paspalum dilatatum / Dallis grass	90	Yes	FAC	Column Totals:	130	(A)	450	(B)
2. Distichlis spicata / Salt grass	10	No	FAC	-				
3				_ Prevalenc	e Index = B/A	=	3.46	
4				Hydrophytic Ve	agetation Indi	cators:		
5. 6.				_	Test is >50%			
7.					Index ≤3.0¹			
8.				- Morphologi	cal Adaptation	ns¹ (Provide	supportin	ıg
	100	= Total C	Cover	_	c Hydrophytic			-
Woody Vine Stratum (Plot size:)		_						
1.				¹ Indicators of hy	dric soil and w	vetland hydr	ology mu	st
2.				be present, unle	ess disturbed o	or problemat	ic.	
	0	_ = Total C	Cover	I leading in heading				
% Bare Ground in Herb Stratum 0	of Biotic C	rust	0	Hydrophytic Vegetation				
				Present?	Yes	No	X	
				i resent:				
Remarks:								

SOIL Sampling Point: _____01

	ription: (Describe to t	he depth needed		ne indicator	or confirm	the abser	nce of indicators.)	
Depth (inches)	Matrix Color (moist)	0/			Ti 1	1 2	Touture	Demante
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-16	10YR 3/2	65					Loamy clay	
0-16	10YR 5/3	45						
	·							
		. <u> </u>						
		. <u> </u>						
	- '			_				
¹Type: C=Co	ncentration, D=Depletion	n, RM=Reduced	Matrix, CS=Cove	ered or Coate	d Sand Gra	ins.	²Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applicable	to all LRRs, un	less otherwise ı	noted.)			Indicators fo	or Problematic Hydric Soils³:
Histosol	(A1)		Sandy Red	lox (S5)			1 cm	n Muck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped M	atrix (S6)			2 cm	n Muck (A10) (LRR B)
Black H	istic (A3)		Loamy Mu	cky Mineral (F1) (except	MLRA 1)	Red	uced Vertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)							Red	Parent Material (TF2)
Stratifie	d Layers (A5) (LRR C)		Depleted N	Matrix (F3)			Othe	er (Explain in Remarks)
1 cm Mı	uck (A9) (LRR D)			k Surface (F	6)		_	,
	d Below Dark Surface (A11)		ark Surface	•			
	ark Surface (A12)	,		ressions (F8			3Indicator	rs of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	•	')			nydrology must be present,
	Gleyed Matrix (S4)			.io (i o)				s disturbed or problematic.
							uniosc	s distance of problematic.
Restrictive I Type:	_ayer (if present):							
Depth (ir	iches).		_				Hydric Soil Pre	sent? Yes No X
2001(_				,	
HYDROLOG								
-	drology Indicators:		11.414				•	
	cators (minimum of one	required: check a						ry Indicators (2 or more required)
	Water (A1)		Salt Crust	, ,				er Marks (B1) (Riverine)
	ater Table (A2)		Biotic Crus	t (B12)				iment Deposits (B2) (Riverine)
Saturati	` '		Aquatic In\	ertebrates (E	313)		Drift	Deposits (B3) (Riverine)
Water M	larks (B1) (Nonriverine)	Hydrogen	Sulfide Odor	(C1)		Drai	nage Patterns (B10)
Sedime	nt Deposits (B2) (Nonr	verine)	Oxidized R	hizospheres	along Living	g Roots (C	(3) Dry-	Season Water Table (C2)
Drift De	posits (B3) (Nonriveria	ie)	Presence of	of Reduced In	on (C4)		Cray	fish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reduction i	n Tilled Soil	s (C6)	X Satu	ration Visible on Aerial Imagery (C9)
Inundati	on Visible on Aerial Ima	agery (B7)	Thin Muck	Surface (C7))		Shal	llow Aquitard (D3)
Surface	Soil Cracks (B6)		Other (Exp	lain in Rema	rks)		FAC	-Neutral Test (D5)
Field Observ	vations:							
Surface Water		es No	X Depth (in	ches).				
Water Table				· —				
Saturation P		es No _ es No	X Depth (in X Depth (in	· —		Motio	nd Hydrology Pre	sent? Ves No V
		es No _	Deptil (iii			vvetia	na nyarology Pre	sent? Yes No X
(includes cap	oillary fringe)							
Describe Rec	corded Data (stream ga	uge, monitoring v	vell, aerial photos	s, previous in	spections), i	if available	e :	
Remarks:								

Project/Site: Yolo 80 Corridor Improvement Project	(City/County	:	Solano	Sa	mpling Date:	02/2	3/2021
Applicant/Owner:	CalTrans			State:		mpling Point:		02
Investigator(s): J. Holson; S. Creer		Section, Tov				E SN36		
Landform (hillslope, terrace, etc): Valley botto	m L	_ocal relief	(concave, conve	x, none):	Concave		Slope (%	6): <u>3</u>
Subregion (LRR): C	Lat:			Long:			m: <u>V</u>	VGS84
Soil Map Unit Name: Capay Silty	Clay Loam, 0 per	rcent slope:			classification:			
Are climatic / hydrologic conditions on the site typical for this				(If no, explain	n in Remarks.)			
Are Vegetation N, Soil N, or Hydrology N				Normal Circumsta	•	Yes	<u>X</u> N	lo
Are Vegetation N, Soil N, or Hydrology				eded, explain any				
SUMMARY OF FINDINGS - Attach site map sh	nowing samp	ling poir	nt locations,	transects, in	nportant fea	tures, etc.		
Hydrophytic Vegetation Present? Yes X	No							
Hydric Soil Present? Yes X			s the Sampled	Area				
	No	v	vithin a Wetland	d?	Yes X	No		
Remarks:								
VEGETATION - Use scientific names of plants	S.						,	
				Dominance T	est worksheet			
					minant Species			
	Absolute	Dominant		That Are OBL	, FACW, or FAC	:	2	(A)
Tree Stratum (Plot size:)	% Cover	Species?	Status					_ ` ′
1.				Total Number	of Dominant			
2				Species Acros	s All Strata:		2	(B)
3.								
4		= Total Co		Percent of Do	minant Species			
Conling/Chruh Stratum / Dlot aiza		_ = Total Co	over	That Are OBL	, FACW, or FAC	: 10	0.00	(A/B)
Sapling/Shrub Stratum (Plot size: 0)				D		4.		
1					idex workshee		بريط برامر	
2. 3.				OBL species	Cover of: 55	x 1 =	ply by: 55	—
4.				FACW species		_	0	
5.		- ·		FAC species	50	x 3 =	150	
	0	= Total Co	over	FACU species		x 4 =	0	
Herb Stratum (Plot size: 5 ft rad)		_		UPL species	0	x 5 =	0	
1. Typha latifolia / Broadleaf cattail, Broad-leaved cattail	55	Yes	OBL	Column Totals	: 105	(A)	205	(B)
2. Distichlis spicata / Salt grass	50	Yes	FAC		-	_ ` ′		` ′
3.				Prevaler	nce Index = B/A	= 1	.95	
4								
5					Vegetation Ind			
6					ce Test is >50%			
7					ce Index ≤3.0¹	4 (5		
8					gical Adaptatio	,		•
	105	_ = Total Co	over	Problema	tic Hydrophytic	vegetation (=xpiain)	
Woody Vine Stratum (Plot size:)				1Indicators of I	hydric soil and v	votland bydra	logy muc	s+
1.					less disturbed) L
2	0	= Total Co		be present, di	iless distarbed (or problematic		
% Bare Ground in Herb Stratum 0 % C	Cover of Biotic Cr	_	0	Hydrophytic				
% Date Ground in Flerb Stratum % C	cover or blotic Cir	ust		Vegetation				
				Present?	Yes	X No		
D. w. a due.				1				
Remarks:								

SOIL Sampling Point: 02

Depth (inches) 0-3 3-16	Matrix Color (moist)	%		x Features				
0-3			Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
	10YR 3/2	100					Clay	
	10YR 3/2	95	2.5YR 4/8	5		M	Clay	
				_				
								
ype: C=Conce	entration, D=Depletio	n, RM=Reduc	ed Matrix, CS=Cove	ered or Coate	ed Sand Gra	ains.	²Locati	on: PL=Pore Lining, M=Matrix.
dric Soil Ind	licators: (Applicable	to all I RRs	unless otherwise	noted)			Indicators f	for Problematic Hydric Soils ³ :
Histosol (A	`	, to all Little,	Sandy Red	•				m Muck (A9) (LRR C)
Histic Epip	•		Stripped M	, ,				m Muck (A10) (LRR B)
Black Histic	c (A3)		Loamy Mu	ıcky Mineral (I	F1) (except	MLRA 1)	Red	duced Vertic (F18)
– Hydrogen :	Sulfide (A4)		Loamy Gle	eyed Matrix (F	-2)		Rec	d Parent Material (TF2)
Stratified L	ayers (A5) (LRR C)		Depleted N	Matrix (F3)				er (Explain in Remarks)
_	(A9) (LRR D)		X Redox Da	rk Surface (F6	6)		_	,
_	Below Dark Surface (/	A11)		Dark Surface				
	Surface (A12)	•		pressions (F8			³Indicato	ors of hydrophytic vegetation and
_	cky Mineral (S1)		Vernal Poo					hydrology must be present,
_	yed Matrix (S4)		_					s disturbed or problematic.
estrictive Lay	/er (if present):							
Туре:								
Depth (inch	es):						Hydric Soil Pre	esent? Yes <u>X</u> No
DROLOGY	,							
etland Hydro	logy Indicators:							
etland Hydro imary Indicato	ology Indicators: ors (minimum of one	required: chec						ary Indicators (2 or more required)
etland Hydro imary Indicato Surface Wa	ology Indicators: ors (minimum of one ater (A1)	required: chec	Salt Crust				Wat	ter Marks (B1) (Riverine)
etland Hydro imary Indicato Surface Wa High Water	ors (minimum of one ater (A1)	required: chec	Salt Crust Biotic Crus	st (B12)			Wat	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
etland Hydro imary Indicato Surface Wa High Water Saturation	ology Indicators: ors (minimum of one ater (A1) r Table (A2) (A3)	·	Salt Crust Biotic Crust Aquatic In	st (B12) vertebrates (E	•		Wat Sed Drif	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine)
imary Indicato Surface Wa High Water Saturation Water Marl	ology Indicators: ors (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine)	Salt Crust Biotic Crust Aquatic In Hydrogen	st (B12) vertebrates (E Sulfide Odor	(C1)		Wat Sed Drif Dra	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10)
etland Hydro rimary Indicate Surface Wa High Water Saturation Water Mark	ology Indicators: ors (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonri) verine)	Salt Crust Biotic Crust Aquatic In Hydrogen X Oxidized F	st (B12) vertebrates (E Sulfide Odor Rhizospheres	(C1) along Livin	g Roots (C	Wat Sec Drif Dra 3) Dry.	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2)
etland Hydro imary Indicate Surface Wa High Water Saturation Water Mark Sediment I Drift Depos	ology Indicators: ors (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonri sits (B3) (Nonriverine) verine)	Salt Crust Biotic Crust Aquatic In Hydrogen X Oxidized F Presence	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir	(C1) along Living on (C4)		Wat Sec Drift Dra Dry Cra Cra	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8)
etland Hydro imary Indicate Surface Wa High Water Saturation Water Mark Sediment I Drift Depos	ology Indicators: ors (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonri sits (B3) (Nonriverin) verine) ne)	Salt Crust Biotic Crust Aquatic In Hydrogen X Oxidized F Presence Recent Iro	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir in Reduction i	(C1) along Living on (C4) in Tilled Soi		Wat Sec Drif Dra Dry Cra X Sati	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9)
etland Hydro imary Indicate Surface Wa High Water Saturation Water Marl Sediment [Drift Depos Surface So Inundation	ology Indicators: ors (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonri sits (B3) (Nonriverine oil Cracks (B6) Visible on Aerial Ima) verine) ne)	Salt Crust Biotic Crust Aquatic In Hydrogen X Oxidized F Presence Recent Iro Thin Muck	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir in Reduction i Surface (C7)	(C1) along Living on (C4) in Tilled Soi)		Wat Sec Drif Dra	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) tt Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) allow Aquitard (D3)
etland Hydro imary Indicate Surface Wa High Water Saturation Water Marl Sediment I Drift Depos Surface So Inundation	ology Indicators: ors (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonri sits (B3) (Nonriverin) verine) ne)	Salt Crust Biotic Crust Aquatic In Hydrogen X Oxidized F Presence Recent Iro Thin Muck	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir in Reduction i	(C1) along Living on (C4) in Tilled Soi)		Wat Sec Drif Dra	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9)
etland Hydro imary Indicate Surface Wa High Water Saturation Water Marl Sediment [Drift Depos Surface So Inundation Surface So	ology Indicators: ors (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonri sits (B3) (Nonriverin oil Cracks (B6) Visible on Aerial Ima oil Cracks (B6)) verine) ne) ngery (B7)	Salt Crust Biotic Crust Aquatic In Hydrogen X Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir in Reduction i Surface (C7) olain in Rema	(C1) along Living on (C4) in Tilled Soi)		Wat Sec Drif Dra	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) tt Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) allow Aquitard (D3)
etland Hydro imary Indicate Surface Wa High Water Saturation Water Mark Sediment I Drift Depos Surface So Inundation Surface So eld Observat	blogy Indicators: brs (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine bits (B3) (Nonriverine bit Cracks (B6) Visible on Aerial Imabil Cracks (B6)	verine) ne) ngery (B7)	Salt Crust Biotic Crust Aquatic In Hydrogen X Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir in Reduction i Surface (C7) olain in Rema	(C1) along Living on (C4) in Tilled Soi)		Wat Sec Drif Dra	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) tt Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) allow Aquitard (D3)
etland Hydro mary Indicate Surface Wa High Water Saturation Water Mark Sediment I Drift Depos Surface So Inundation Surface So eld Observat rface Water Fater Table Pre	blogy Indicators: brs (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine Dil Cracks (B6) Visible on Aerial Imabil Cracks (B6) cions: Present? Yesent? Yesent?	verine) ne) ngery (B7) nss No	Salt Crust Biotic Crust Aquatic In Hydrogen X Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir in Reduction i Surface (C7) olain in Rema	(C1) along Living on (C4) in Tilled Soi)	Is (C6)	Wat Sec Drif Dra Dry Cra X Sat Sha X FAC	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) tt Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)
etland Hydro mary Indicate Surface Wa High Water Saturation Water Mark Sediment I Drift Depos Surface So Inundation Surface So eld Observat rface Water F ater Table Prese turation Prese	blogy Indicators: brs (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine bil Cracks (B6) Visible on Aerial Imabil Cracks (B6) bresent? Yesent? Yesent? Yesent? Yesent? Yesent?	verine) ne) ngery (B7) nss No	Salt Crust Biotic Crust Aquatic In Hydrogen X Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir in Reduction i Surface (C7) olain in Rema	(C1) along Living on (C4) in Tilled Soi)	Is (C6)	Wat Sec Drif Dra	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) tt Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)
etland Hydro mary Indicate Surface Wa High Water Saturation Water Mark Sediment I Drift Depos Surface So Inundation Surface So eld Observat rface Water F ater Table Prese turation Prese	blogy Indicators: brs (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine bil Cracks (B6) Visible on Aerial Imabil Cracks (B6) bresent? Yesent? Yesent? Yesent? Yesent? Yesent?	verine) ne) ngery (B7) nss No	Salt Crust Biotic Crust Aquatic In Hydrogen X Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir in Reduction i Surface (C7) olain in Rema	(C1) along Living on (C4) in Tilled Soi)	Is (C6)	Wat Sec Drif Dra Dry Cra X Sat Sha X FAC	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) tt Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)
etland Hydro imary Indicate Surface Wa High Water Saturation Water Mark Sediment I Drift Depose Surface So Inundation Surface So Indicate Water Fater Table Presidudes capilla	blogy Indicators: brs (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine bil Cracks (B6) Visible on Aerial Imabil Cracks (B6) bresent? Yesent? Yesent? Yesent? Yesent? Yesent?	yerine) ngery (B7) es No es No es No	Salt Crust Biotic Crust Aquatic Int Hydrogen X Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i Surface (C7) olain in Rema	(C1) along Living on (C4) in Tilled Soi) rks)	ls (C6)	Wat Sec Drif	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) tt Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)
etland Hydro imary Indicate Surface Wa High Water Saturation Water Marl Sediment I Drift Depos Surface So Inundation Surface So eld Observat urface Water F ater Table Presented Secribe Record	blogy Indicators: brs (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine Dil Cracks (B6) Visible on Aerial Imabil Cracks (B6) bresent? esent? esent? ery fringe)	yerine) ngery (B7) es No es No es No	Salt Crust Biotic Crust Aquatic Int Hydrogen X Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i Surface (C7) olain in Rema	(C1) along Living on (C4) in Tilled Soi) rks)	ls (C6)	Wat Sec Drif	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) tt Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)
detland Hydro rimary Indicate Surface Wa High Water Saturation Water Mark Sediment I Drift Depos Surface So Inundation Surface So Indicate Water Footnate Table Presence Includes capilla	blogy Indicators: brs (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine Dil Cracks (B6) Visible on Aerial Imabil Cracks (B6) bresent? esent? esent? ery fringe)	yerine) ngery (B7) es No es No es No	Salt Crust Biotic Crust Aquatic Int Hydrogen X Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i Surface (C7) olain in Rema	(C1) along Living on (C4) in Tilled Soi) rks)	ls (C6)	Wat Sec Drif	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)
etland Hydro imary Indicate Surface Wa High Water Saturation Water Marl Sediment I Drift Depos Surface So Inundation Surface So eld Observat urface Water F ater Table Presented Secribe Record	blogy Indicators: brs (minimum of one ater (A1) r Table (A2) (A3) ks (B1) (Nonriverine Deposits (B2) (Nonriverine Dil Cracks (B6) Visible on Aerial Imabil Cracks (B6) bresent? esent? esent? ery fringe)	yerine) ngery (B7) es No es No es No	Salt Crust Biotic Crust Aquatic Int Hydrogen X Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir on Reduction i Surface (C7) olain in Rema	(C1) along Living on (C4) in Tilled Soi) rks)	ls (C6)	Wat Sec Drif	ter Marks (B1) (Riverine) diment Deposits (B2) (Riverine) t Deposits (B3) (Riverine) inage Patterns (B10) -Season Water Table (C2) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) allow Aquitard (D3) C-Neutral Test (D5)

Project/Site: Yolo 80 Corrid	dor Improvement Project		City/County	:	Solano	Sar	npling Date:	02/2	23/2021
Applicant/Owner:		rans			State:		npling Point:		03
Investigator(s):	J. Holson; S. Creer		Section, Tov	wnship, Range:					
Landform (hillslope, terrace, etc):					ex, none):	Flat		Slope (%): <u> </u>
Subregion (LRR):	С	Lat:	38.49	07669	Long:			um:\	
Soil Map Unit Name:	Capay Silty Clay	/ Loam, 0 pe	ercent slope:	s	NWI	classification:			
Are climatic / hydrologic condition	• • • • • • • • • • • • • • • • • • • •	•			(If no, explain	in Remarks.)			
Are Vegetation N, Soil				Are "	Normal Circumstai	nces" present?	Yes _	X 1	No
	N , or Hydrology N	-		,	eded, explain any		•		
SUMMARY OF FINDINGS	- Attach site map show	ving samp	pling poir	nt locations	, transects, im	portant feat	tures, etc	•	
Hydrophytic Vegetation Present	t? Yes N	lo X							
Hydric Soil Present?	Yes N			s the Sampled	Area				
Wetland Hydrology Present?	YesN	lo X	v	vithin a Wetlan	d?	Yes	No X		
Remarks:									
VEGETATION - Use scien	tific names of plants.								
						est worksheet:			
		Absolute	Dominant	t Indicator		minant Species			(4)
Tree Stratum (Plot size:	0)	% Cover	Species?		That Are OBL,	FACW, or FAC		1	(A)
1.		-			Total Number	of Dominant			
2.					Total Number Species Acros			2	(B)
3.					Opecies Acios	S All Otlata.	-		_ (D)
4			_		Percent of Dor	minant Species			
		0	_ = Total Co	over		FACW, or FAC		50.0	(A/B)
Sapling/Shrub Stratum (Plot									_ (' ', ')
1					Prevalence In	dex worksheet	::		
2		_	_		Total % C	Cover of:	Mul	tiply by:	
3.					OBL species	0	_ x 1 =	0	
			-		FACW species		_ x 2 =	0	
5			= Total Co		FAC species	20	_ x 3 =	60	
Herb Stratum (Plot size:	5 ft rad)		_ = 10tal Ct	ovei	FACU species	0 50	_ x 4 =	0	
1. Avena fatua / Wildoats, Wild		40	Yes	UPL	UPL species Column Totals		_ x 5 = (A)	250 310	(B)
Plantago lanceolata / Ribwo		20	Yes	FAC	Column Iolais		_ (A)	310	(b)
Geranium molle / Crane's bil	, 0 1	10	No	UPL	Prevaler	nce Index = B/A	=	4.43	
4.					1 TOVAICE	ice index = B// t		7.70	
5.				·	Hydrophytic \	Vegetation Indi	cators:		
6					Dominand	ce Test is >50%			
7.						ce Index ≤3.0¹			
8						gical Adaptatior	`		U
		70	_ = Total Co	over	Problema	tic Hydrophytic	Vegetation ¹	(Explain))
Woody Vine Stratum (Plot size	ze:)								
				<u> </u>		nydric soil and w			st
2		_	_		be present, un	less disturbed o	r problemat	C.	
		0	_ = Total Co		Hydrophytic				
% Bare Ground in Herb Stratun	n <u>0</u> % Cove	r of Biotic Ci	rust	0	Vegetation				
					Present?	Yes	No	X	
						_			•
Remarks:									
1									

SOIL Sampling Point: 03

	ription: (Describe to t	he depth neede		he indicator x Features	or confirm	the abser	nce of indicators.)
Depth (inches)	Matrix Color (moist)	%		x realures %	Tunc1	l oc²	Toyeture	Domarka
(inches)	Color (moist)		Color (moist)		Type ¹	Loc²	Texture	Remarks
0-16	10YR 2/2	60	0.51/5.4/0				Clay	
0-16	10YR 5/6	40	2.5YR 4/8				Loamy Clay	
	•			_				
¹Type: C=Coi	ncentration, D=Depletion	n, RM=Reduced	d Matrix, CS=Cov	ered or Coate	ed Sand Gra	nins.	²Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applicable	to all LRRs, u	nless otherwise	noted.)			Indicators f	or Problematic Hydric Soils³:
Histosol	(A1)		Sandy Red	dox (S5)			1 cr	n Muck (A9) (LRR C)
Histic Ep	oipedon (A2)		Stripped M	latrix (S6)			2 cr	n Muck (A10) (LRR B)
Black Hi	stic (A3)			cky Mineral (F1) (except	MLRA 1)	Red	uced Vertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)								Parent Material (TF2)
	d Layers (A5) (LRR C)		Depleted N	•	,			er (Explain in Remarks)
	ick (A9) (LRR D)			rk Surface (F	6)			(
	d Below Dark Surface (Δ11)		Dark Surface	•			
	ark Surface (A12)	((11)		pressions (F8	` '		3Indicato	rs of hydrophytic vegetation and
			Vernal Poo))			
	Mucky Mineral (S1)		vernai Poo	ois (F9)				nydrology must be present,
	Gleyed Matrix (S4)						unies	s disturbed or problematic.
	ayer (if present):							
Type:	ahaa):		_				Uvdria Cail Dra	nent2 Voc No V
Depth (in	<u></u>						Hydric Soil Pre	esent? Yes NoX
HYDROLOG								
-	Irology Indicators:							
Primary Indic	ators (minimum of one	required: check	all that apply)				Seconda	ry Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	, ,			Wat	er Marks (B1) (Riverine)
High Wa	iter Table (A2)		Biotic Crus	st (B12)			Sed	iment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic In	vertebrates (E	B13)		Drift	Deposits (B3) (Riverine)
Water M	arks (B1) (Nonriverine)	Hydrogen	Sulfide Odor	(C1)		Dra	inage Patterns (B10)
Sedimer	nt Deposits (B2) (Nonri	verine)	Oxidized F	Rhizospheres	along Living	g Roots (C	3) Dry	-Season Water Table (C2)
Drift Dep	oosits (B3) (Nonriverin	ne)	Presence	of Reduced I	ron (C4)		Cra	yfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reduction	in Tilled Soil	ls (C6)	Sati	uration Visible on Aerial Imagery (C9)
 Inundati	on Visible on Aerial Ima	agery (B7)		Surface (C7		, ,		llow Aquitard (D3)
	Soil Cracks (B6)	5 , ()		olain in Rema	*			C-Neutral Test (D5)
								(
Field Observ								
Surface Water		es No _	X Depth (in	· -				
Water Table F	Present? Y	es No _	X Depth (in	iches):				
Saturation Pr	esent? Y	es No _	X Depth (in	iches):		Wetla	nd Hydrology Pre	esent? Yes NoX
(includes cap	illary fringe)							
Describe Rec	corded Data (stream ga	uge, monitoring	well, aerial photos	s, previous in	spections), i	if available):	
Remarks:								

Project/Site: Yolo	80 Corridor Improve	ement Project		City/Count	ty:	Solano		Sampling Dat	te: 12	/18/2020
Applicant/Owner:		Ca	Trans	•		State:				04
Investigator(s):	S. Creer;	J. Holson		Section, To	ownship, Rang			T8N R2E		
Landform (hillslope, terra	ace, etc):	Valley bottom		Local relief	f (concave, cor	nvex, none):	Conc	ave	Slope	(%): 1
Subregion (LRR):	С		Lat:	38.4	193901	Long:		4 D	atum:	WGS84
Soil Map Unit Name:		Capay silty cla	ay loam, 0 pe	rcent slope	es	N	WI classification	n:		
Are climatic / hydrologic						(If no, exp	lain in Remark	s.)		
Are Vegetation N	_, Soil <u>N</u> , or H					e "Normal Circums	stances" prese	nt? Yes	X	No
		Hydrology N	_			needed, explain a	•	,		
SUMMARY OF FIN	DINGS - Attach	site map sho	wing sam	pling po	int location	s, transects,	important t	features, e	tc.	
Hydrophytic Vegetation	on Present?	Yes X	No							
Hydric Soil Present?		Yes			Is the Sample	ed Area				
Wetland Hydrology Pr	esent?	Yes			within a Wetla	and?	Yes	No	X	
	ne. No soils and weak			1						
VEGETATION - Us	e scientific nam	es of plants.								
						Dominance	e Test worksh	eet:		
			Absolute	Dominar	nt Indicator		Dominant Spec			
Tree Stratum (Plot :	size. U)	% Cover			That Are O	BL, FACW, or I	FAC:	1	(A)
1.	<u> </u>		70 00101	ороско	· · · · · · · · · · · · · · · · · · ·	-				
2.							per of Dominan			(5)
3.						- Species Ac	cross All Strata:		2	(B)
						- Dercent of	Dominant Spec	oioo		
				= Total C	Cover		BL, FACW, or I		50.0	(A/B)
Sapling/Shrub Stratur	n (Plot size:	0)				That Are O	BL, FACVV, OF I	-AC	50.0	<u> </u>
1.						Prevalence	e Index works	heet:		
2						Total ^o	% Cover of:	M	fultiply by:	
3						OBL specie	es <u>0</u>	x 1 =	0	
4						FACW spec	cies 75	x 2 =	150	
5						_ FAC specie	es <u>4</u>	x 3 =	12	
			0	_ = Total C	Cover	FACU spec			100	
Herb Stratum (Plot)		.,	5.0	UPL specie			0	
Cyperus eragrostis		L	75	Yes Yes		_ Column Tot	tals: 104	4 (A)	262	(B)
Sorghum halepens Distinglis animate /		nnson grass	25 3	Yes_ No		- _		2/4	0.50	
Distichlis spicata / Rumex crispus / C			<u></u>	No		_ Preva	alence Index =	B/A =	2.52	
	•		-			Hydrophyt	tic Vegetation	Indicators:		
						_	ance Test is >5			
7.							lence Index ≤3.			
8.						Morph	ological Adapta	ations¹ (Provid	le supporti	ng
-			104	= Total C	Cover	Proble	ematic Hydroph	ytic Vegetation	n¹ (Explain	1)
Woody Vine Stratum	(Plot size:	0)		_						
1.						¹ Indicators	of hydric soil a	nd wetland hy	drology mı	ust
2						be present,	, unless disturb	ed or problem	atic.	
			0	_ = Total C		Hydrophyt	tic			
% Bare Ground in He	rb Stratum5	% Cov	er of Biotic C	rust		Vegetation				
						Present?		s <u>X</u> N	lo	
						11000				
Remarks:										

	ription: (Describe to t	the depth need			or confirm	the abser	nce of indicators.)	
Depth	Matrix			K Features			_	
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-12	10YR 2/1	50						
0-12	10YR 3/2	49	5YR 5/6	1	<u> </u>	M	Loamy clay	
							<u></u>	
								_
¹Type: C=Co	ncentration, D=Depletion	on, RM=Reduc	ed Matrix, CS=Cove	ered or Coate	ed Sand Gra	ains.	²Location	: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applicabl	e to all LRRs,	unless otherwise r	noted.)			Indicators for	Problematic Hydric Soils ³ :
Histosol			Sandy Red	-				Muck (A9) (LRR C)
	oipedon (A2)		Stripped M	, ,				Muck (A10) (LRR B)
	stic (A3)			cky Mineral (F1) (except	MLRA 1)		ced Vertic (F18)
	en Sulfide (A4)			yed Matrix (I		,		rarent Material (TF2)
	d Layers (A5) (LRR C)		Depleted N		_,			(Explain in Remarks)
	uck (A9) (LRR D)			k Surface (F	6)		Outer	(Explain in Remarks)
		(A 11)						
	d Below Dark Surface ((A11)		ark Surface			31	- f
	ark Surface (A12)			oressions (F8	3)			of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	is (F9)			•	drology must be present,
Sandy G	Gleyed Matrix (S4)						unless	disturbed or problematic.
	ayer (if present):							
Type:								
Depth (in	ches):						Hydric Soil Prese	ent? Yes NoX
HYDROLOG	SY							
Wetland Hyd	Irology Indicators:							
Primary Indic	ators (minimum of one	required: chec	ck all that apply)				Secondary	Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)			Water	Marks (B1) (Riverine)
— High Wa	ater Table (A2)		Biotic Crus	t (B12)			Sedim	ent Deposits (B2) (Riverine)
Saturation				ertebrates (I	313)			eposits (B3) (Riverine)
Water M	larks (B1) (Nonriverine	e)	 -	Sulfide Odor	•			age Patterns (B10)
	nt Deposits (B2) (Nonr			hizospheres	, ,	a Roots (C		eason Water Table (C2)
	posits (B3) (Nonriveri	•		of Reduced I	-	9 (-		sh Burrows (C8)
	Soil Cracks (B6)	,		n Reduction	` ,	ls (C6)		ation Visible on Aerial Imagery (C9)
	on Visible on Aerial Im	agery (R7)		Surface (C7		13 (00)		w Aquitard (D3)
	Soil Cracks (B6)	agery (D7)		lain in Rema				Neutral Test (D5)
Surface	Soil Clacks (DO)		Other (EXP	iaiii iii iXeiiia			170-1	veutai lest (D3)
Field Observ	vations:							
Surface Water	er Present?	es No	X Depth (in	ches):				
Water Table I	Present? Y	es No	X Depth (in	ches):				
Saturation Pr	resent?	es No	X Depth (in	ches):		Wetla	nd Hydrology Pres	ent? Yes No X
(includes cap	illary fringe)			,				
Describe Red	corded Data (stream ga	auge, monitorin	ng well, aerial photos	, previous in	spections),	if available	e:	
Remarks:								

Project/Site: Yolo 80 Corridor Improvement Project		City/County	y:	Solano	Sam	npling Date:	01/0	07/2021
Applicant/Owner: Cal	Trans			State:		npling Point:		05
Investigator(s): S. Creer; J. Holson		Section, To	wnship, Range:		T8N I	R2E		
Landform (hillslope, terrace, etc): Valley bottom				ex, none):			Slope (%): <u> 0 </u>
Subregion (LRR): C	Lat:	38.50	044513		121.78481472	Dat	um:\	WGS84
Soil Map Unit Name: Capay silty cla					classification:			
Are climatic / hydrologic conditions on the site typical for this tim	-			(If no, explain		.,		
Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$ Are Vegetation $\frac{N}{N}$, Soil $\frac{N}{N}$, or Hydrology $\frac{N}{N}$				Normal Circumstar	•	· ·	<u>X</u> N	No
	_		,	eded, explain any				
SUMMARY OF FINDINGS - Attach site map show			int locations	, transects, im	iportant teat	ures, etc		
	No							
	No X		Is the Sampled		.,			
Wetland Hydrology Present? Yes	No X	=	within a Wetlan	d?	Yes	No X		
Remarks:								
VEGETATION - Use scientific names of plants.								
				Dominance To	est worksheet:			
	المناحة المالا	D!	-4	Number of Do	minant Species			
Two Chrotisms (Diet sine) 40 ft and	Absolute	Dominar		That Are OBL,	FACW, or FAC:		2	(A)
Tree Stratum (Plot size: 10 ft rad) 1. Populus fremontii / Fremont cottonwood	% Cover 45	Species' Yes	? Status FAC					
		168	<u></u>	Total Number	of Dominant			
2. 3.				Species Acros	s All Strata:		2	(B)
4.	_							
	45	= Total C	Cover		minant Species		100.0	(A/D)
Sapling/Shrub Stratum (Plot size: 0)				rnat Are OBL,	FACW, or FAC:		100.0	(A/B)
1				Prevalence In	dex worksheet	:		
2				Total % C	Cover of:	Mul	tiply by:	
3				OBL species	0	x 1 =	0	
4				FACW species	0	x 2 =	0	
5				FAC species	86	_ x 3 =	258	
Harl Charton (District)	0	_ = Total C	Cover	FACU species	-	_ x 4 =	0	
Herb Stratum (Plot size: 5 ft rad)	40	Yes	EAC	UPL species	0	_ x5=	0	(5)
Festuca perennis / Italian rye grass Rumex crispus / Curly dock	40	No	FAC FAC	Column Totals	: 86	_ (A)	258	(B)
3.			170	Prevaler	nce Index = B/A	_	3.0	
4.	_	·		Fievalei	ice ilidex = D/A		3.0	
5.				Hydrophytic \	Vegetation Indic	cators:		
6.				X Dominand	ce Test is >50%			
7.				X Prevalence	ce Index ≤3.0¹			
8.					gical Adaptation	`		U
	41	_ = Total C	Cover	Problema	tic Hydrophytic \	/egetation¹	(Explain)	
Woody Vine Stratum (Plot size: 0								
1					nydric soil and w			st
2				be present, un	less disturbed o	r problemati	C.	
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	0	_ = Total C		Hydrophytic			,	
% Bare Ground in Herb Stratum 15	er of Biotic C	rust		Vegetation				
				Present?	Yes	No.	X	
Demonstra.				1				
Remarks:								

epth Matrix Redox Features nches) Color (moist) % Color (moist) % Type¹ Loc² 0-12 10YR 3/2 100 pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	Texture Remarks Clay 2Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)				
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)				
pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)				
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Microsoft Computer Number (LRR of the computer of the	Indicators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)				
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Microsoft Computer Number (LRR of the computer of the	Indicators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)				
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Microsoft Computer Number (LRR of the computer of the	Indicators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)				
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Microsoft Computer Number (LRR of the computer of the	Indicators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)				
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Microsoft Computer Number (LRR of the computer of the	Indicators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)				
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Microsoft Computer Number (LRR of the computer of the	Indicators for Problematic Hydric Soils³: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)				
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) (except MLRA 1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)				
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Stripped Matrix (S6) Loamy Mucky Mineral (F1) (except MLRA 1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	2 cm Muck (A10) (LRR B)				
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Loamy Mucky Mineral (F1) (except MLRA 1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3)					
Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Loamy Gleyed Matrix (F2) Depleted Matrix (F3)					
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	• • • • • • • • • • • • • • • • • • • •				
	Red Parent Material (TF2)				
	Other (Explain in Remarks)				
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.				
strictive Layer (if present):	T				
Туре:					
Depth (inches):	Hydric Soil Present? Yes No				
ROLOGY					
tland Hydrology Indicators:					
mary Indicators (minimum of one required: check all that apply)	Secondary Indicators (2 or more required)				
Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine)				
High Water Table (A2) Biotic Crust (B12) Appetite New Atlanta (B13)	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 Roots (C1)	Drainage Patterns (B10) s (C3) Dry-Season Water Table (C2)				
Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)				
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C				
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Surface Soil Cracks (B6) Other (Explain in Remarks)	FAC-Neutral Test (D5)				
Id Observations					
Id Observations: face Water Present? Yes No X Depth (inches):					
ter Table Present? Yes No X Depth (inches):					
	and Hydrology Present? Yes No				
cludes capillary fringe)					
 scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availabl	le:				
marks:					

Project/Site: Yolo 80 Corridor Improvement Project		City/Count	y:	Solano	Sa	mpling Date:	01/07/20	021
Applicant/Owner: Ca	alTrans		, <u> </u>	State:		mpling Point:		
Investigator(s): S. Creer; J. Holson		Section, To	ownship, Range:			R2E		
Landform (hillslope, terrace, etc): Valley bottom		Local relief	f (concave, conve	ex, none):	flat		Slope (%):	0
Subregion (LRR): C	Lat:			Long:1	121.78497738	Datu	ım: WGS	384
Soil Map Unit Name: Capay silty c					classification:			
Are climatic / hydrologic conditions on the site typical for this ti	•			(If no, explain				
Are Vegetation N, Soil N, or Hydrology N				Normal Circumstar	•		X No_	
Are Vegetation N, Soil N, or Hydrology N				eded, explain any		,		
SUMMARY OF FINDINGS - Attach site map sho			int locations,	, transects, im	portant fea	itures, etc.		
Hydrophytic Vegetation Present? Yes X								
Hydric Soil Present? Yes			Is the Sampled					
Wetland Hydrology Present? Yes	No X	_	within a Wetland	d?	Yes	No X	_	
Remarks: Swale.								
VEGETATION - Use scientific names of plants.								
·				Dominance To	est worksheet	:		
				Number of Do	minant Species	3		
T 01 1 (D1 1)	Absolute			That Are OBL,	FACW, or FAC	D:	2 (A	۹)
Tree Stratum (Plot size:) 1.	% Cover	Species'	? Status					
				Total Number	of Dominant			
3.		_		Species Acros	s All Strata:		<u>4</u> (B	3)
4.		_						
		= Total C	Cover	Percent of Dor	•		=0.0 (4	۸ /D)
Sapling/Shrub Stratum (Plot size: 10 ft rad)				That Are OBL,	FACVV, OF FAC	<i></i>	50.0 (A	A/B)
Salix exigua / Narrowleaf willow	30	Yes	FACW	Prevalence In	dex workshee	et:		
2				Total % C	Cover of:	Mult	iply by:	_
3				OBL species	0	x 1 =	0	
4				FACW species		x 2 =	60	
5				FAC species	15	x 3 =	45	
Horb Stratum (Diet size) Eft rad	30	= Total C	over	FACU species	-	x 4 =	40	
Herb Stratum (Plot size: 5 ft rad) 1. Avena fatua / Wildoats, Wild oat	15	Yes	UPL	UPL species	15	x5=	75	(D)
Lepidium latifolium / Perennial pepperweed	10	Yes		Column Totals	: 70	(A)	220	(B)
Phalaris aquatica / Harding grass	10	Yes		Prevaler	nce Index = B/A	\ = \ \frac{1}{2}	3.14	
4. Rumex crispus / Curly dock	5	No	FAC	1 Tevaler	ioc index - Bii		7.17	
5.				Hydrophytic \	Vegetation Inc	licators:		
6				ı —	ce Test is >50%	6		
7					ce Index ≤3.0¹			
8					gical Adaptatio	,		
	40	= Total C	Cover	Problema	tic Hydrophytic	: Vegetation¹ (Explain)	
Woody Vine Stratum (Plot size: 0)				1Indicators of h	avdria apil and	watland hydra	logy must	
1				¹ Indicators of h be present, un				
2		= Total C	Cover	be present, un	iess disturbed	or probleman	<i>.</i>	
% Bare Ground in Herb Stratum 5 % Co	ver of Biotic C			Hydrophytic				
70 Ballo Glodina ili Fiorib Gliadalli 70 GG	VOI OI BIOLIO C			Vegetation				
				Present?	Yes _	X No		
Remarks:				1				
nomans.								

	ription: (Describe to t	he depth neede			or confirm	the abser	nce of indicator	rs.)
Depth	Matrix			x Features			- .	5
(inches)	Color (moist)	<u> </u>	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-10	10YR 4/2	100					Clay	
10-16	10YR 5/6	100		_			Clay	
<u> </u>		·				,		
		· 						·
				_			-	
-		· 						
¹Type: C=Cor	ncentration, D=Depletion	on, RM=Reduce	d Matrix, CS=Cove	ered or Coate	ed Sand Gra	ains.	²Loca	ation: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applicable	to all LRRs. u	ınless otherwise ı	noted.)			Indicators	s for Problematic Hydric Soils³:
Histosol			Sandy Red					cm Muck (A9) (LRR C)
	pipedon (A2)		Stripped M	. ,				cm Muck (A10) (LRR B)
					T4) (avecant	MI DA 4\		
	stic (A3)			cky Mineral (MLRA 1)		educed Vertic (F18)
	n Sulfide (A4)			yed Matrix (I	-2)			ed Parent Material (TF2)
Stratified	d Layers (A5) (LRR C)		Depleted N	∕latrix (F3)			0	ther (Explain in Remarks)
1 cm Mu	ıck (A9) (LRR D)		Redox Dar	k Surface (F	6)			
Depleted	d Below Dark Surface (A11)	Depleted [Oark Surface	(F7)			
Thick Da	ark Surface (A12)			oressions (F8			³Indica	tors of hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Poo		,			d hydrology must be present,
	Gleyed Matrix (S4)			(. 0)				ess disturbed or problematic.
	Sicycu Matrix (04)						uni	and the second of problematic.
Restrictive L	ayer (if present):							
Type:								
Depth (in	ches):		_				Hydric Soil F	Present? Yes No _X
HYDROLOG	SY							
Wetland Hyd	Irology Indicators:							
Primary Indic	ators (minimum of one	required: check	all that apply)				Secon	dary Indicators (2 or more required)
	Water (A1)		Salt Crust	(B11)				/ater Marks (B1) (Riverine)
	iter Table (A2)		Biotic Crus					ediment Deposits (B2) (Riverine)
Saturation				/ertebrates (I	313)			rift Deposits (B3) (Riverine)
	` '			Sulfide Odor	•			rainage Patterns (B10)
	arks (B1) (Nonriverine				. ,	- Danta (C		. ,
	nt Deposits (B2) (Nonr	•		Rhizospheres		g Roots (C	· —	ry-Season Water Table (C2)
	oosits (B3) (Nonriveri	1e)		of Reduced I	, ,			rayfish Burrows (C8)
	Soil Cracks (B6)			n Reduction		ls (C6)		aturation Visible on Aerial Imagery (C9)
Inundation	on Visible on Aerial Ima	agery (B7)	Thin Muck	Surface (C7)			hallow Aquitard (D3)
Surface	Soil Cracks (B6)		Other (Exp	lain in Rema	ırks)		F	AC-Neutral Test (D5)
Field Observ	vations:							
		oo Ne	V Donth (!	choc):				
Surface Wate			X Depth (in	· —				
Water Table F		es No		· 				
Saturation Pr	esent? Y	es No	X Depth (in	ches):		Wetla	nd Hydrology F	Present? Yes No X
(includes cap	illary fringe)							
Describe Rec	corded Data (stream ga	uge, monitoring	well, aerial photos	s, previous in	spections),	if available	: :	
Remarks:								

Project/Site: Yolo 80 Corrid	or Improvement Project		City/County	y:	Solano	Sam	pling Date:	. 01/	07/2021
Applicant/Owner:		rans	Only/ Oddine	y	State:	CA Sam	pling Point		07
Investigator(s):	J. Holson; S. Creer	,	Section, To	wnship, Range:				-	
Landform (hillslope, terrace, etc):					ex, none):			Slope ((%): 2
Subregion (LRR):	С	Lat:	38.51	811029	Long: -1		Dat	tum:	WGS84
Soil Map Unit Name:	Rw: Riv	erwash (456	3110)		NWI	_			
Are climatic / hydrologic conditions					(If no, explain				
Are Vegetation N, Soil					Normal Circumstar	•		X I	No
	N , or Hydrology N				eded, explain any		,		
SUMMARY OF FINDINGS	 Attach site map show 	ving sam	pling poi	int locations	<u>, transects, im</u>	portant feat	ures, etc	<u>;. </u>	
Hydrophytic Vegetation Present?									
Hydric Soil Present?	Yes N	lo	_	Is the Sampled					
Wetland Hydrology Present?	Yes N	lo X	- '	within a Wetlan	d? `	/es	No X		
Remarks:									
VEGETATION - Use scient	ific names of plants.								
					Dominance Te	est worksheet:			
		A I I4 -	D		Number of Dor	ninant Species			
Tree Stratum (Plot size:	10 ft rad \	Absolute	Dominar		That Are OBL,	FACW, or FAC:		2	(A)
1. Fraxinus latifolia / Oregon asl	<u>10 ft rad</u>)	% Cover 55	Species? Yes	? Status FACW					
Quercus lobata / Valley oak, V		25	Yes		Total Number of				
3.	•				Species Acros	s All Strata:		5	(B)
4.					Percent of Dor	ninant Species			
_		80	= Total C	Cover		FACW, or FAC:		40.0	(A/B)
Sapling/Shrub Stratum (Plot s	ize:10 ft rad)				mat Arc OBE,	170W, 01170.		40.0	_ (ハロ)
1. Rubus armeniacus / Himalaya		10	Yes	FAC	Prevalence In	dex worksheet:			
2.					Total % C			Itiply by:	
3.					OBL species				
_					FACW species		_ x 2 =	110	
J		10	= Total C	:over	FAC species FACU species	10 57	_ x3= x4=	30 228	—
Herb Stratum (Plot size:	5 ft rad)			70 701	UPL species	50	_	250	
1. Avena fatua / Wildoats, Wild		45	Yes	UPL	Column Totals		(A)	618	(B)
2. Cichorium intybus / Chicory		20	Yes	FACU			_ ('')	- 0.0	(=)
3. Melilotus officinalis / Yellow s	weetclover	10	No	FACU	Prevalen	ce Index = B/A =	=	3.59	
4. Hirschfeldia incana / Mustard		3	No	UPL					
5. Raphanus sativus / Jointed cl		2	No	UPL		egetation Indic	ators:		
6. Cynodon dactylon / Bermuda	<u> </u>	_ 1	No	FACU		e Test is >50% e Index ≤3.0¹			
 Aira caryophyllea / Silvery ha 8. 	irgrass, Silver hair grass	_ 1	No	FACU		e index ≤3.0 gical Adaptations	s¹ (Provide	sunnortir	na
o		82	= Total C	`over		tic Hydrophytic \			-
Woody Vine Stratum (Plot siz	e: 0)			70 701	_	, , ,	Ü	(' '	
1.					¹Indicators of h	ydric soil and we	etland hydr	ology mu	ıst
2.					be present, un	ess disturbed or	problemat	iic.	
		0	_ = Total C	Cover	Hydrophytic				
% Bare Ground in Herb Stratum	10 % Cove	r of Biotic C	rust	0	Vegetation				
					Present?	Yes	No	X	
									•
Remarks:									

Profile Desc Depth	cription: (Describe to t Matrix	the depth nee		e indicator Features	or confirm	the abser	nce of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-5	10YR 4/3	100	Color (molot)		1900		Silty clay	romano
5-16	10YR 3/2	50	5YR 4/6	5	С	М	Silty clay	
5-16	10YR 4/3	45	011(4/0				Silty clay	
				·				
					 -			
¹Type: C=Co	oncentration, D=Depletion	on, RM=Redu	ced Matrix, CS=Cove	red or Coate	ed Sand Gra	ains.	²Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applicable	e to all LRRs	, unless otherwise r	oted.)			Indicators for	r Problematic Hydric Soils ³ :
Histoso	ol (A1)		Sandy Red	ox (S5)			1 cm	Muck (A9) (LRR C)
Histic E	Epipedon (A2)		Stripped M	atrix (S6)			2 cm	Muck (A10) (LRR B)
Black H	Histic (A3)		Loamy Mud	ky Mineral (F1) (except	MLRA 1)	Redu	ced Vertic (F18)
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matrix (F2)		Red F	Parent Material (TF2)
Stratifie	ed Layers (A5) (LRR C)		Depleted M	latrix (F3)			Other	(Explain in Remarks)
1 cm M	luck (A9) (LRR D)			κ Surface (F	6)		_	•
	ed Below Dark Surface ((A11)		ark Surface	•			
	Dark Surface (A12)	,		ressions (F	. ,		3Indicators	of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	•	·)			drology must be present,
	Gleyed Matrix (S4)			13 (1 3)				disturbed or problematic.
Restrictive	Layer (if present):							
Type:								
Depth (ir	nches):						Hydric Soil Pres	ent? Yes No
/DROLO	GY							
	drology Indicators:							
-	cators (minimum of one	required: che	ck all that apply)				Secondary	Indicators (2 or more required)
	e Water (A1)	· ·	Salt Crust (B11)				Marks (B1) (Riverine)
	ater Table (A2)		Biotic Crus					nent Deposits (B2) (Riverine)
	tion (A3)			ertebrates (R13)			Deposits (B3) (Riverine)
	Marks (B1) (Nonriverine	5)		Sulfide Odor	,			age Patterns (B10)
	ent Deposits (B2) (Nonr	•			along Livin	a Poots (C		eason Water Table (C2)
				•	•	y Roots (C	· — ·	, ,
	eposits (B3) (Nonriveri	ne)		f Reduced I		. (00)		ish Burrows (C8)
	e Soil Cracks (B6)	(5.7)			in Tilled Soi	is (Cb)		ation Visible on Aerial Imagery (C9)
	tion Visible on Aerial Ima	agery (B7)		Surface (C7	•			ow Aquitard (D3)
Surface	e Soil Cracks (B6)		Other (Exp	ain in Rema	ırks)		FAC-I	Neutral Test (D5)
ield Obser	rvations:							
Surface Wat	ter Present? Y	'es N	o X Depth (inc	ches):				
Vater Table	Present? Y	es N	o X Depth (in	ches):				
	Present? Y	es N	o X Depth (inc	ches):		Wetla	nd Hydrology Pres	ent? Yes No X
Saturation P								
	pillary fringe)							
includes ca _l	pillary fringe) ecorded Data (stream ga	auge, monitori	ng well, aerial photos	, previous in	spections),	if available) :	
includes cap		auge, monitori	ng well, aerial photos	, previous in	spections),	if available	9:	
`		auge, monitori	ng well, aerial photos	, previous in	spections),	if available	9:	
includes cap		auge, monitori	ng well, aerial photos	, previous in	spections),	if available	»:	
includes cap Describe Re		auge, monitori	ng well, aerial photos	, previous ir	spections),	if available	»:	
ncludes cap Describe Re		auge, monitori	ng well, aerial photos	, previous in	spections),	if available): 	
ncludes cap escribe Re		auge, monitori	ng well, aerial photos	, previous ir	spections),	if available	o:	

Project/Site: Yolo 80 Corridor Improvement Project		City/County	y:	Solano	Sa	ampling Date:	01/0	7/2021
	alTrans	J		State:		ampling Point:		08
Investigator(s): J. Holson, S. Creer			wnship, Range:					
Landform (hillslope, terrace, etc): Valley bottom	1			ex, none):			Slope (%): 10
Subregion (LRR): C	Lat:	38.52	371502	Long:			um:\	NGS84
Soil Map Unit Name: Yolo	oam, 0 to 4 pe	ercent			classification:			
Are climatic / hydrologic conditions on the site typical for this t								
Are Vegetation N, Soil N, or Hydrology N				'Normal Circumsta	•		<u> </u>	No
Are Vegetation N, Soil N, or Hydrology N				eded, explain any		,		
SUMMARY OF FINDINGS - Attach site map she			int locations	s, transects, in	nportant fea	atures, etc	•	
Hydrophytic Vegetation Present? Yes								
Hydric Soil Present? Yes	No X	_	Is the Sampled					
Wetland Hydrology Present? Yes	No X	- '	within a Wetlan	ıd?	Yes	No X		
Remarks:								
VECETATION Lies esigntific names of plants								
VEGETATION - Use scientific names of plants.								
					est workshee			
	Absolute	Dominar	nt Indicator		minant Specie			(4)
Tree Stratum (Plot size: 0)	% Cover			That Are OBL	, FACW, or FA	C:	0	_ (A)
1.				Total Number	of Dominant			
2.				Species Acros			2	(B)
3.				Species Acros	SS All Ottata.			_ (b)
4	, ,			Percent of Do	minant Species	s		
	0	= Total C	Cover		, FACW, or FA		0.0	(A/B)
Sapling/Shrub Stratum (Plot size: 0)					, , , , , , , , , , , , , , , , , , , ,			_ (,,,,,
1				Prevalence In	ndex workshe	et:		
2				Total % (Cover of:	Mul	tiply by:	
3.		_		OBL species	0	x 1 =	0	
4				FACW specie	_	x 2 =	0	
5		= Total C	`ayor	FAC species	0	x 3 =	0	
Herb Stratum (Plot size: 5 ft rad)		= 10tai C	ovei	FACU species		x 4 =	128	
1. Avena fatua / Wildoats, Wild oat	45	Yes	UPL	UPL species Column Totals	45 s: 77	x 5 = (A)	225 353	(B)
Vicia sativa / Spring vetch	30	Yes	FACU	Column Totals	s. <u>11</u>	(A)	333	(b)
3. Sorghum halepense / Johnsongrass, Johnson grass	2	No	FACU	Prevale	nce Index = B/	Δ =	4.58	
4.				1 10 1010	Tioo iiidox - Bri		1.00	
5.				Hydrophytic	Vegetation Inc	dicators:		
6.				_	ce Test is >509	%		
7					ce Index ≤3.0¹			
8					ogical Adaptation	•		-
	77	= Total C	Cover	Problema	atic Hydrophyti	c Vegetation1	(Explain)	
Woody Vine Stratum (Plot size: 0				11m diantono of				-4
1.		_			hydric soil and nless disturbed			St
2	0			be present, ur	iless distalbed	or problemat		
% Bare Ground in Herb Stratum 10 % Co				Hydrophytic				
% bare Ground in Herb Stratum	over of Biotic C	Just		Vegetation				
				Present?	Yes _	No	X	
Demonico								
Remarks:								

	ription: (Describe to the	ne depth neede		ne indicator	or confirm	the abser	nce of indicators.)	
Depth	Matrix				T 1		- .	B
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-10	10YR 4/2	100					Silty clay	
	· -							
	· 							_
	· -							
	•			_				
¹Type: C=Coi	ncentration, D=Depletio	n, RM=Reduced	Matrix, CS=Cove	ered or Coate	ed Sand Gra	ins.	²Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applicable	to all LRRs, ur	less otherwise r	noted.)			Indicators fo	or Problematic Hydric Soils³:
Histosol	(A1)		Sandy Red	lox (S5)			1 cm	Muck (A9) (LRR C)
Histic Ep	oipedon (A2)		Stripped M	atrix (S6)			2 cm	Muck (A10) (LRR B)
Black Hi	stic (A3)		Loamy Mu	cky Mineral (F1) (except	MLRA 1)	Redu	uced Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix (F	=2)		Red	Parent Material (TF2)
	d Layers (A5) (LRR C)		Depleted N		,			r (Explain in Remarks)
	ick (A9) (LRR D)			k Surface (F	6)			,
	d Below Dark Surface (/	411)		ark Surface	•			
	ark Surface (A12)	,		ressions (F8	. ,		3Indicator	s of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		,,			ydrology must be present,
	Bleyed Matrix (S4)		vernari oc	13 (1 3)				disturbed or problematic.
							uniess	disturbed of problematic.
	.ayer (if present):							
Type:	Rip rap/fi		_					10
Depth (in	cnes):	10	_				Hydric Soil Pres	sent? Yes NoX
HYDROLOG								
-	Irology Indicators:						_	
	ators (minimum of one	required: check a						y Indicators (2 or more required)
	Water (A1)		Salt Crust	, ,				er Marks (B1) (Riverine)
High Wa	iter Table (A2)		Biotic Crus	t (B12)				ment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic Inv	ertebrates (E	313)		Drift	Deposits (B3) (Riverine)
Water M	arks (B1) (Nonriverine)	Hydrogen	Sulfide Odor	(C1)		Drair	nage Patterns (B10)
Sedimer	nt Deposits (B2) (Nonri	verine)	Oxidized R	hizospheres	along Living	Roots (C	3) Dry-9	Season Water Table (C2)
Drift Dep	oosits (B3) (Nonriverin	ie)	Presence of	of Reduced In	ron (C4)		Cray	fish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reduction i	in Tilled Soil	s (C6)	Satu	ration Visible on Aerial Imagery (C9)
Inundati	on Visible on Aerial Ima	gery (B7)	Thin Muck	Surface (C7))		Shal	low Aquitard (D3)
Surface	Soil Cracks (B6)		Other (Exp	lain in Rema	rks)		FAC-	-Neutral Test (D5)
Field Observ	vations:							
Surface Water		es No	X Depth (in	ches).				
Water Table F		es No	X Depth (in	· —				
Saturation Pr			X Depth (in	· —		Wotla	nd Hydrology Pre	cent? Voc No V
		es No _	Deptil (iii			vveiiai	na nyarology Pre	sent? Yes NoX
(includes cap	mary minge)							
Describe Rec	corded Data (stream ga	uge, monitoring v	well, aerial photos	s, previous in	spections), i	f available	:	
Remarks:								

Project/Site:	Yolo 80 Corridor Improve			City/Count	y:	Solano	Sam	pling Date:	01/	07/2021
Applicant/Owner:		Cal	Trans			State:		pling Point:		09
Investigator(s):		, S. Creer		Section, To	ownship, Range:		T8N F	₹2E		
Landform (hillslope	e, terrace, etc):					ex, none):	Concave		Slope (%): 2
Subregion (LRR):	C		Lat:	38.52	2376874		121.76785207	Dati	um:	WGS84
	ne:						l classification:			
•	ologic conditions on the site	• •	-		_	(If no, explain				
	N , Soil N , or h					Normal Circumsta	•		<u>X</u> I	No
Are Vegetation			_			eded, explain any		,		
SUMMARY OF	FINDINGS - Attach	site map show	ving sam	pling po	int locations	, transects, in	nportant feati	ıres, etc	<u> </u>	
, , , ,	getation Present?		No							
Hydric Soil Prese		Yes X	No	_	Is the Sampled					
Wetland Hydrolo	ogy Present?	Yes X	No	-	within a Wetlan	ıd?	Yes X	No		
Remarks:										
VEGETATION	- Use scientific nam	es of plants.				Τ				
Ì							Test worksheet:			
			Absolute	Dominar	nt Indicator		ominant Species		2	(4)
Tree Stratum	(Plot size: 10 ft rad)	% Cover	Species'	? Status	That Are OBL	., FACW, or FAC:		3	(A)
1. Populus frem	nontii / Fremont cottonwood		75	Yes	FAC	Total Number	of Dominant			
2				_		Species Acros			4	(B)
3							55 7 III 5 II GIG.			(=)
4						Percent of Do	minant Species			
			75	_ = Total C	Cover	That Are OBL	., FACW, or FAC:	•	75.0	(A/B)
	stratum (Plot size:	0)								
1							ndex worksheet:			
2.							Cover of:		tiply by:	
4						OBL species FACW specie	0 s 3	_ x1= x2=	<u> </u>	
5.						FAC species	78	_ x2 =	234	
				= Total C	Cover	FACU species		x 4 =	20	
Herb Stratum	(Plot size: 5 ft rad)		_		UPL species	1	x5=	5	
1. Xanthium stru	umarium / Cocklebur		3	Yes	FAC	Column Totals	s: 87	(A)	265	(B)
2. Cyperus erag	grostis / Tall cyperus		3	Yes	FACW			- ` ′		``_
3. Cynodon dac	ctylon / Bermuda grass		3	Yes	FACU	Prevale	nce Index = B/A =	=:	3.05	
4. Melilotus offic	cinalis / Yellow sweetclover		2	No	FACU					
	/ Wildoats, Wild oat		1	No_	UPL		Vegetation Indic	ators:		
				_			ice Test is >50% ice Index ≤3.0¹			
				_			ogical Adaptations	1 (Provide	sunnortir	na
8			12	= Total C	Cover		atic Hydrophytic V	•		•
Woody Vine Stra	atum (Plot size:	0)		_ = 10tai C	Jovei		ano riyaropriyao v	ogotation	(Explain)	,
	(1 101 0120.					¹Indicators of	hydric soil and we	etland hydro	ology mu	ıst
2.							nless disturbed or			
·			0	= Total C	Cover					
% Bare Ground	in Herb Stratum 70	% Cove	er of Biotic C	_ rust		Hydrophytic				
		<u> </u>				Vegetation		., .,		
						Present?	Yes	X No		-
Remarks:										

•	Profile Description: (Describe to the depth needed to document the indicator or Depth Matrix Redox Features										
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks			
0-12	10YR 4/1	45	2.5YR 4/6	5	C	M	Sandy clay				
0-12	10YR 4/4	50									
12-16	10YR 4/1	100					Sandy clay				
		· ·									
	-	 -									
	-	· —— ·									
Type: C=Cor	ncentration, D=Depletion	on, RM=Reduc	ced Matrix, CS=Cove	ered or Coate	ed Sand Gra	ains.	²Location:	PL=Pore Lining, M=Matrix.			
lydric Soil I	ndicators: (Applicable	e to all LRRs,	unless otherwise r	noted.)			Indicators for F	Problematic Hydric Soils ³ :			
Histosol	(A1)		Sandy Red	lox (S5)			1 cm M	uck (A9) (LRR C)			
Histic Ep	pipedon (A2)		Stripped M	atrix (S6)			2 cm M	uck (A10) (LRR B)			
Black Hi	stic (A3)		Loamy Mu	cky Mineral (F1) (except	MLRA 1)	Reduce	d Vertic (F18)			
Hydroge	n Sulfide (A4)		Loamy Gle	yed Matrix (I	F2)		Red Pa	rent Material (TF2)			
Stratified	d Layers (A5) (LRR C)		Depleted M	1atrix (F3)			Other (I	Explain in Remarks)			
	ıck (A9) (LRR D)			k Surface (F	6)			-			
	d Below Dark Surface (A11)		ark Surface							
	ark Surface (A12)	,		ressions (F8			3Indicators o	f hydrophytic vegetation and			
	Mucky Mineral (S1)		Vernal Poo	•	,			• • •			
	Sandy Gleyed Matrix (S4)						wetland hydrology must be present, unless disturbed or problematic.				
							250 di				
	ayer (if present):										
Type:	-l \.						Uhadala Oali Barasa	40 V V N-			
Depth (in							Hydric Soil Preser	t? Yes X No			
DROLOG											
	iΥ										
Vetland Hyd	Irology Indicators:										
		required: che	ck all that apply)				Secondary II	ndicators (2 or more required)			
rimary Indic	Irology Indicators:	required: che	ck all that apply) Salt Crust ((B11)				ndicators (2 or more required) Marks (B1) (Riverine)			
rimary Indic	Irology Indicators: ators (minimum of one Water (A1)	required: che					Water	, , , , ,			
rimary Indic Surface High Wa	Irology Indicators: ators (minimum of one Water (A1) Iter Table (A2)	required: che	Salt Crust (t (B12)	B13)		Water Sedime	Marks (B1) (Riverine) nt Deposits (B2) (Riverine)			
Surface High Wa Saturatio	Arology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3)		Salt Crust (Biotic Crus Aquatic Inv	t (B12) vertebrates (I			Water Sedime Drift De	Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine)			
rimary Indic Surface High Wa Saturatic Water M	Arology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) arks (B1) (Nonriverine	· •)	Salt Crust (Biotic Crus Aquatic Inv	t (B12) vertebrates (I Sulfide Odor	(C1)	a Roots (C	Water Sedime Drift De Drainag	Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10)			
rimary Indic Surface High Wa Saturatic Water M Sedimer	Irology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine at Deposits (B2) (Nonri	e) iverine)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized R	t (B12) rertebrates (I Sulfide Odor hizospheres	(C1) along Livin	g Roots (C	Water Sedime Drift De Drainag Dry-Sea	Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) ason Water Table (C2)			
Surface Surface High Wa Saturatio Water M Sedimer Drift Dep	Arks (B1) (Nonriverine obosits (B3) (Nonrive	e) iverine)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R	t (B12) vertebrates (I Sulfide Odor hizospheres of Reduced I	(C1) along Livin ron (C4)	`		Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) ason Water Table (C2) a Burrows (C8)			
rimary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface	Attention (A) (Nonriverine to Deposits (B3) (Nonriverine Soil Cracks (B6))	e) iverine) ne)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c	t (B12) rertebrates (I Sulfide Odor hizospheres of Reduced II n Reduction	(C1) along Livin ron (C4) in Tilled Soi	`	Water Sedime Drift De Drainag Dry-Sea Crayfisl	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Interpolate (B10) Interpolate			
rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundation	Irology Indicators: ators (minimum of one Water (A1) Iter Table (A2) In (A3) Iarks (B1) (Nonriverine Int Deposits (B2) (Nonri Ioosits (B3) (Nonriverine Soil Cracks (B6) In Visible on Aerial Ima	e) iverine) ne)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Thin Muck	t (B12) vertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7	(C1) along Livin ron (C4) in Tilled Soi)	`	Water Sedime Drift De Drainag Dry-Sea Crayfisl Saturati	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Part (B10) Interest (B10) In			
rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface X Inundatic Surface	Irology Indicators: ators (minimum of one Water (A1) Iter Table (A2) In (A3) Iarks (B1) (Nonriverine Int Deposits (B2) (Nonri Irosits (B3) (Nonriverine Soil Cracks (B6) Irosits (B6) Irosits (B6) Irosits (B6)	e) iverine) ne)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Thin Muck	t (B12) rertebrates (I Sulfide Odor hizospheres of Reduced II n Reduction	(C1) along Livin ron (C4) in Tilled Soi)	`	Water Sedime Drift De Drainag Dry-Sea Crayfisl Saturati	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Interpolate (B10) Interpolate			
rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface K Inundatic Surface	Irology Indicators: ators (minimum of one Water (A1) Iter Table (A2) In (A3) Iarks (B1) (Nonriverine Int Deposits (B2) (Nonri Irosits (B3) (Nonriverine Soil Cracks (B6) Irosits (B6) Irosits (B6) Irosits (B6) Irosits (B6)	e) iverine) ne) agery (B7)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Thin Muck Other (Exp	t (B12) rertebrates (I Sulfide Odor hizospheres of Reduced II n Reduction Surface (C7 lain in Rema	(C1) along Livin ron (C4) in Tilled Soi)	`	Water Sedime Drift De Drainag Dry-Sea Crayfisl Saturati	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Part (B10) Interest (B10) In			
rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface K Inundatic Surface ield Observ	Irology Indicators: ators (minimum of one Water (A1) Inter Table (A2) In (A3) Iarks (B1) (Nonriverine Int Deposits (B2) (Nonriverine Int Deposits (B3) (Nonriverine Irosits (B3) (Nonriverine Irosits (B6) Irosits (B	e) iverine) ne) agery (B7)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Thin Muck Other (Exp	t (B12) rertebrates (I Sulfide Odor hizospheres of Reduced II n Reduction Surface (C7 lain in Rema	(C1) along Livin ron (C4) in Tilled Soi)	`	Water Sedime Drift De Drainag Dry-Sea Crayfisl Saturati	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Part (B10) Interest (B10) In			
rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface K Inundatic Surface ield Observ urface Water Table F	Irology Indicators: ators (minimum of one Water (A1) Inter Table (A2) Inter Table (A2) Inter Table (B1) Inter Table (B2) Inter Table (B3) Inter Table (B4) Inte	e) iverine) ne) agery (B7) es No	Salt Crust (Biotic Crust (Aquatic Inv (Hydrogen (Oxidized R Presence (Recent Iror Thin Muck Other (Exp	t (B12) rertebrates (I Sulfide Odor hizospheres of Reduced II n Reduction Surface (C7 lain in Rema	(C1) along Livin ron (C4) in Tilled Soi)	ils (C6)	Water Sedime Drift De Drainag Crayfisl Saturati Shallow FAC-Ne	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Interest (B10) Interest (C2) Interest (C3) Interest (C4) Interest (C5) Int			
rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Surface Weld Observ urface Water Faturation Pr	Irology Indicators: ators (minimum of one Water (A1) Inter Table (A2) In (A3) Iarks (B1) (Nonriverine Int Deposits (B2) (Nonriverine Int Deposits (B3) (Nonriverine Int Deposits (B6) Iron Visible on Aerial Ima Soil Cracks (B6)	e) iverine) ne) agery (B7)	Salt Crust (Biotic Crus (Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Thin Muck Other (Exp	t (B12) rertebrates (I Sulfide Odor hizospheres of Reduced II n Reduction Surface (C7 lain in Rema	(C1) along Livin ron (C4) in Tilled Soi)	ils (C6)	Water Sedime Drift De Drainag Dry-Sea Crayfisl Saturati	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Interest (B10) Interest (C2) Interest (C2) Interest (C3) Int			
rimary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Surface deld Observ urface Water Table F aturation Pr	Irology Indicators: ators (minimum of one Water (A1) Inter Table (A2) In (A3) Iarks (B1) (Nonriverine Int Deposits (B2) (Nonriverine Int Deposits (B3) (Nonriverine Int Deposits (B6) Iron Visible on Aerial Ima Soil Cracks (B6)	e) iverine) ne) agery (B7) es No	Salt Crust (Biotic Crust (Aquatic Inv (Hydrogen (Oxidized R Presence (Recent Iror Thin Muck Other (Exp	t (B12) rertebrates (I Sulfide Odor hizospheres of Reduced II n Reduction Surface (C7 lain in Rema	(C1) along Livin ron (C4) in Tilled Soi)	ils (C6)	Water Sedime Drift De Drainag Crayfisl Saturati Shallow FAC-Ne	Marks (B1) (Riverine) Int Deposits (B2) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Int Deposits (B3) (Riverine) Interest (B10) Interest (C2) Interest (C3) Interest (C4) Interest (C5) Int			
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Applicant/Owner: CalTrans State: CA Sampling Point: 10 Investigator(s): J. Holson; S. Creer Section, Township, Range: T8N R2E Landform (hillslope, terrace, etc): Valley bottom Local relief (concave, convex, none): Flat Slope (%): 2	Project/Site: Yolo 80 Corridor Improvement Project	City	//County:		Solano	Sa	ampling Date:	01/0	7/2021
Investigatories	Applicant/Owner: Cal		_						
Subregion (LRR):		Sec	ction, Towns						
Sol Map Unit Name:	Landform (hillslope, terrace, etc): Valley bottom	Loc	al relief (co	ncave, convex,	none):	Flat		Slope (%	%) <u>:</u> 2
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are Vegetation N Soil N Soil N or Hydrology N significantly disturbed? Are Vegetation N Soil N or Hydrology N Soil Naturally problemate? Hydrophytic Vegetation Present? Yes X No Stellar Yes X	Subregion (LRR): C		38.52380	117 L				ım: <u>V</u>	VGS84
Ace Vaccelation N								'EM1Cx	
Ace Vegetation N Sol N or Hydrology N anturally problematic? (If needed, explain any answers in Remarks.)	* *	•							
Pydrophylic Vegetation Present? Yes						•		<u>X</u> N	lo
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area within a Wetland? Yes X No				,			,		
Hydrocology Present? Yes X No Is the Sampled Area within a Wetland? Yes X No			ng point	locations, t	ransects, in	nportant tea	atures, etc.		
VEGETATION - Use scientific names of plants.									
Number of Dominant Species Salatus Total Number of Dominant Species Salatus Species Across All Strata: 2	Hydric Soil Present? Yes X								
Absolute Dominant Indicator Species? Status Total Number of Dominant Species Total Number of Dominant Sp	Wetland Hydrology Present? Yes X	No	with	in a Wetland?	•	Yes X	No		
Absolute Dominant Indicator Species? Status That Are OBL, FACW, or FAC: 2 (A)	Remarks:								
Absolute Dominant Indicator Species Status Cover Species Status Indicator Species Status Status Species Status Species Status Species Status Status Species Status Species Status Status Status Species Status	. tomano								
Absolute Dominant Indicator Species Status Cover Species Status Indicator Species Status Status Species Status Species Status Species Status Species Status Status Status Species Status Status Species Status Status Status Status Species Status Status Status Status Status Status Species Status									
Absolute Dominant Indicator Species Status Cover Species Status Indicator Species Status Species Status Species Status Species Status Species Status Status Species Status Speci	VECETATION Has accordific names of plants								
Number of Dominant Species That Are OBL, FACW, or FAC: 2	VEGETATION - Use scientific frames of plants.								
Trace Stratum (Plot size:									
Tree Stratum (Plot size: 0)		Absolute D	Oominant	Indicator		•		0	(4)
1	Tree Stratum (Plot size: 0)	% Cover S	Species?	Status	That Are OBL	, FACVV, or FAC	U:		_ (A)
Species Across All Strata: 2 (B)		·			Total Number	of Dominant			
3	2.							2	(B)
Sapling/Shrub Stratum (Plot size: 0)	_				Species Acros	ss All Ottata.			_ (D)
Sapling/Shrub Stratum (Plot size:	4				Percent of Do	minant Species	s		
Sapling/Shrub Stratum Plot size: 0		0 =	Total Cove	r		•		0.00	(A/B)
Total % Cover of: Multiply by:						, , , , , , , , , , , , , , , ,			_ (,,,,,
OBL species 10	1				Prevalence In	ndex workshe	et:		
4	2				Total % (Cover of:	Mult	iply by:	
FAC species 33 x 3 = 99	· · · · · · · · · · · · · · · · · · ·				•				
Herb Stratum (Plot size:		<u> </u>							
Herb Stratum (Plot size: 5 ft rad)	5		Total Cava		•				
1. Polypogon monspeliensis / Annual beard grass, Annual beard grass, Rabbitfottegrass FACW 2. Xanthium strumarium / Cocklebur 20 Yes FAC 3. Pseudognaphalium luteoalbum / Jersey cudweed 10 No FAC 4. Polygonum persicaria / Spotted ladysthumb 10 No OBL 5. Cyperus eragrostis / Tall cyperus 10 No FACW 6. Epilobium brachycarpum / Willow herb 3 No FAC 7. Melilotus officinalis / Yellow sweetclover 3 No FACU 8. 81 = Total Cover Woody Vine Stratum (Plot size: 0) 1. 2. 0 = Total Cover Was Bare Ground in Herb Stratum 15 % Cover of Biotic Crust 0 West annual beard grass, Annual beard grass, Rabbitfottegrass FACW Yes FAC Allowing FAC Prevalence Index = B/A = 2.36 Hydrophytic Vegetation Indicators: X Dominance Test is >50% X Prevalence Index ≤3.0¹ Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes X No	Herb Stratum (Plot size: 5 ft rad)		· Iolai Cove						
2. Xanthium strumarium / Cocklebur 3. Pseudognaphalium luteoalbum / Jersey cudweed 4. Polygonum persicaria / Spotted ladysthumb 5. Cyperus eragrostis / Tall cyperus 6. Epilobium brachycarpum / Willow herb 7. Melilotus officinalis / Yellow sweetclover 8. 8. 81 = Total Cover Woody Vine Stratum 10. No FAC 8. 81 = Total Cover Woody Vine Stratum 15. Cover of Biotic Crust 15. Cover of Biotic Crust 16. Cover of Biotic Crust 17. Cover of Biotic Crust 18. 81 = Total Cover 19. Cover of Biotic Crust 10. No FAC 10. No FAC 10. No FAC 10. No FAC 11. Prevalence Index = B/A = 2.36 19. Prevalence Index = B/A = 2.36 19. Mydrophytic Vegetation Indicators: X. Dominance Test is >50% X. Prevalence Index ≤3.0¹ Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 10. Total Cover 10. Hydrophytic Vegetation 15. Cyperus eragrostis / Tall cyperus 16. Epilobium brachycarpum / Willow herb 17. Melilotus officinalis / Yellow sweetclover 28. Total Cover 29. Prevalence Index = B/A = 2.36 10. No FAC X. Dominance Test is >50% X. Prevalence Index ≤3.0¹ Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) 18. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 19. Hydrophytic Vegetation 19. Present? Yes X No Indicators	l ` 	ard gra %5 Rahh	nitfo Meg rass	FACW	•				(P)
3. Pseudognaphalium luteoalbum / Jersey cudweed 4. Polygonum persicaria / Spotted ladysthumb 5. Cyperus eragrostis / Tall cyperus 6. Epilobium brachycarpum / Willow herb 7. Melilotus officinalis / Yellow sweetclover 8. Woody Vine Stratum (Plot size: 0) 1.					Column Totals	5: 81	(A)	191	(B)
4. Polygonum persicaria / Spotted ladysthumb 5. Cyperus eragrostis / Tall cyperus 6. Epilobium brachycarpum / Willow herb 7. Melilotus officinalis / Yellow sweetclover 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8					Prevale	nce Index = R/	Δ =	2 36	
5. Cyperus eragrostis / Tall cyperus 6. Epilobium brachycarpum / Willow herb 7. Melilotus officinalis / Yellow sweetclover 8					Ticvaic	rice index – b//			
6. Epilobium brachycarpum / Willow herb 7. Melilotus officinalis / Yellow sweetclover 8		10			Hydrophytic	Vegetation Inc	dicators:		
8	6. <i>Epilobium brachycarpum /</i> Willow herb	3	No	FAC	X Dominan	ce Test is >50%	%		
Statum (Plot size: 0 Stratum (Plot size: 0 Problematic Hydrophytic Vegetation¹ (Explain)	7. Melilotus officinalis / Yellow sweetclover	3	No	FACU	X Prevalen	ce Index ≤3.0¹			
Woody Vine Stratum (Plot size: 0) 1	8.					•	,		•
1		81 =	Total Cove	r	Problema	atic Hydrophytic	c Vegetation¹ ((Explain)	
2	Woody Vine Stratum (Plot size: 0								
% Bare Ground in Herb Stratum 15 % Cover of Biotic Crust 0 Hydrophytic Vegetation Present? Yes X No									st
% Bare Ground in Herb Stratum15	2				be present, ur	nless disturbed	or problemati	C.	
Wegetation Vegetation Present? Yes X No				r	Hydrophytic				
Present? Yes X No	% Bare Ground in Herb Stratum15	er of Biotic Crust	t <u> </u>						
					-	Yes	X No		
Remarks:						_	-		
	Remarks:								

Depth	ription: (Describe to Matrix		Redox	 Features 				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-5	10YR 4/2	90	5YR 4/6	10	C	M	Sandy clay	
5-16	10YR 4/4	100			C	M	Sandy clay	
ype: C=Cor	ncentration, D=Depleti	on, RM=Redu	ced Matrix, CS=Cove	ered or Coate	ed Sand Gr	ains.	²Locatio	on: PL=Pore Lining, M=Matrix.
	ndicators: (Applicab	le to all LRRs		-				or Problematic Hydric Soils³:
_ Histosol	(AT) pipedon (A2)		Sandy Red Stripped M	, ,				n Muck (A9) (LRR C) n Muck (A10) (LRR B)
Black Hi				cky Mineral ((F1) (excent	t MI RA 1)		uced Vertic (F18)
_	n Sulfide (A4)			yed Matrix (I		CIVILITY (1)		Parent Material (TF2)
_	l Layers (A5) (LRR C)		Depleted N		/			er (Explain in Remarks)
_	ick (A9) (LRR D)			k Surface (F	6)			(,
_	Below Dark Surface	(A11)		ark Surface				
_	ark Surface (A12)	` '		ressions (F8			³Indicato	rs of hydrophytic vegetation and
_	lucky Mineral (S1)		Vernal Poo	•	,			nydrology must be present,
	Sleyed Matrix (S4)			· -/				s disturbed or problematic.
estrictive L	ayer (if present):							
Type:								
Depth (in	ches):						Hydric Soil Pre	sent? Yes X No
emarks:								
DROLOG								
DROLOG	rology Indicators:	e required: che	eck all that apply)					
DROLOG etland Hyd imary Indica	rology Indicators: ators (minimum of one	e required: che		(B11)			Seconda	ry Indicators (2 or more required)
DROLOG etland Hyd imary Indica Surface	Irology Indicators: ators (minimum of one Water (A1)	e required: che	Salt Crust	. ,			Seconda	ry Indicators (2 or more required) er Marks (B1) (Riverine)
DROLOG etland Hyd imary Indica Surface High Wa	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2)	e required: che	Salt Crust Biotic Crus	t (B12)	B13)		Seconda Wat	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine)
DROLOG etland Hyd imary Indica Surface High Wa Saturatic	trology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3)		Salt Crust Biotic Crus Aquatic Inv	. ,			Seconda Wat Sed Drift	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine)
rimary Indica Surface High Wa Saturatio Water M	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2)	e)	Salt Crust Biotic Crus Aquatic Inv	t (B12) vertebrates (I	(C1)	ng Roots (C	Seconda Wat Sed Drift Drai	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine)
DROLOG Vetland Hyd rimary Indice Surface High Wa Saturatic Water M Sedimer	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin	e) riverine)	Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R	t (B12) vertebrates (I Sulfide Odor	(C1) along Livin	ng Roots (C	Seconda	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10)
DROLOG detland Hyd dimary Indication Surface High Wa Saturation Water M Sedimer Drift Dep	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin at Deposits (B2) (Non	e) riverine)	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R	t (B12) rertebrates (I Sulfide Odor hizospheres	(C1) along Livin ron (C4)	•	Seconda Wat Sed Drift Drai Dry- Cray	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) r/fish Burrows (C8)
DROLOG etland Hyd imary Indice Surface High Wa Saturatic Water M Sedimer Drift Dep	rology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin at Deposits (B2) (Nonriverin posits (B3) (Nonriverin	e) riverine) ine)	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron	t (B12) vertebrates (I Sulfide Odor hizospheres of Reduced I	(C1) s along Living ron (C4) in Tilled So	•	Seconda	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) r/fish Burrows (C8)
DROLOG Surface	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin at Deposits (B2) (Nonriverin cosits (B3) (Nonriverin Soil Cracks (B6)	e) riverine) ine)	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck	t (B12) rertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction	(C1) salong Living ron (C4) in Tilled Soit)	•	Seconda	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imagery (C9)
DROLOG etland Hyd imary Indice Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Surface	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin at Deposits (B2) (Nonriverin Sociits (B3) (Nonriverin Sociit Cracks (B6) on Visible on Aerial Im Soil Cracks (B6)	e) riverine) ine)	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck	t (B12) vertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7	(C1) salong Living ron (C4) in Tilled Soit)	•	Seconda	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imagery (C9)
DROLOG Vetland Hydrimary Indic: Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundation	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin nt Deposits (B2) (Nonriverin Soil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6)	e) riverine) ine) agery (B7)	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck	t (B12) rertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) salong Living ron (C4) in Tilled Soit)	•	Seconda	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imagery (C9)
DROLOG etland Hyd imary Indic: Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Surface	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin at Deposits (B2) (Nonriverin cosits (B3) (Nonriverin cosits (B3) (Nonriverin cosits (B6) on Visible on Aerial Im Soil Cracks (B6)	e) riverine) ine) agery (B7) Yes N	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp	t (B12) rertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) salong Living ron (C4) in Tilled Soit)	•	Seconda	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imagery (C9)
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DROLOG etland Hyd imary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundation Surface eld Observer ater Table Faturation Pro	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin at Deposits (B2) (Nonriverin Soil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6) rations: ar Present?	e) riverine) ine) agery (B7) Yes N	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp	t (B12) rertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) salong Living ron (C4) in Tilled Soit)	ils (C6)	Seconda	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imagery (C9) Illow Aquitard (D3)
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DROLOG etland Hyd imary Indice Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Surface Inundatic Surface eld Observer ater Table Faturation Proceed	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin at Deposits (B2) (Nonriverin Soil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6) rations: ar Present? esent?	e) riverine) ine) agery (B7) Yes N Yes N	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp	t (B12) rertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) s along Livin ron (C4) in Tilled Soi) arks)	ils (C6)	Seconda	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imagery (C9) Illow Aquitard (D3)
DROLOG etland Hyd imary Indice Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Surface Inundatic Surface Ind Observer Indice Water Indice W	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin at Deposits (B2) (Nonriverin Soil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6) rations: ar Present? esent?	e) riverine) ine) agery (B7) Yes N Yes N	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp	t (B12) rertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) s along Livin ron (C4) in Tilled Soi) arks)	ils (C6)	Seconda	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imagery (C9) Illow Aquitard (D3)
DROLOG etland Hyd imary Indice Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Surface Inundatic Surface Ind Observer Indice Water Indice W	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverin at Deposits (B2) (Nonriverin Soil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6) rations: ar Present? esent?	e) riverine) ine) agery (B7) Yes N Yes N	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp	t (B12) rertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) s along Livin ron (C4) in Tilled Soi) arks)	ils (C6)	Seconda	ry Indicators (2 or more required) er Marks (B1) (Riverine) iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imagery (C9) Illow Aquitard (D3)

Project/Site: Yolo 80 Corridor	Improvement Project	(City/County	:	Yolo	Sam	pling Date:	02/5	24/2021
Applicant/Owner:	Calt		Oity/Oddinty	•	Yolo State:	CA Sam	ipling Pate. ipling Point:		11
	. Holson, S. Creer		Section, Tov	wnship, Range:			pg . o		
Landform (hillslope, terrace, etc):					ex, none):	None		Slope (%): 0
Subregion (LRR):					Long: -121.637				
Soil Map Unit Name:	Sacrame	nto Soils, flo	oded		NWI	classification:			
Are climatic / hydrologic conditions or	n the site typical for this time	of year? `	Yes X	No	(If no, explain	in Remarks.)			
Are Vegetation N, Soil N				Are "N	Normal Circumstar	ices" present?	Yes _	X N	No
Are Vegetation N, Soil N	, or Hydrology N	naturally pro	blematic?	(If nee	eded, explain any a	answers in Rema	arks.)		
SUMMARY OF FINDINGS - A	Attach site map show	ing samp	oling poi	nt locations,	, transects, im	portant feat	ures, etc	•	
Hydrophytic Vegetation Present?	Yes X N	lo							
Hydric Soil Present?	Yes N	lo X		s the Sampled	Area				
Wetland Hydrology Present?		lo X	v	vithin a Wetland	d? \	/es	No		
Remarks: VEGETATION - Use scientifi	c names of plants								
VEGETATION - OSE SCIENTIN	c names or plants.				Ι				
					Number of Dor	est worksheet:			
		Absolute	Dominant	t Indicator		FACW, or FAC:		2	(Δ)
Tree Stratum (Plot size:)	% Cover	Species?	Status	mat/tic OBL,	17.0W, 01 17.0.	-		_ (//)
1			_		Total Number of	of Dominant			
2		_			Species Across	s All Strata:		3	(B)
3			_				<u> </u>		
4					Percent of Don	ninant Species			
Sanling/Shrub Stratum (Dlat size		0	_ = Total Co	over	That Are OBL,	FACW, or FAC:		66.7	(A/B)
Sapling/Shrub Stratum (Plot size	· · · · · · · · · · · · · · · · · · ·				Drevelence In	d a			
1					Total % C	dex worksheet:		tiply by:	
3.		_	_		OBL species	0	_		
4.					FACW species		x 2 =	80	
5.					FAC species	70	x 3 =	210	
		0	= Total Co	over	FACU species	50	x 4 =	200	
Herb Stratum (Plot size:)				UPL species	0	x 5 =	0	
1. Cynodon dactylon / Bermuda gr		25	Yes	FACU	Column Totals:	160	(A)	490	(B)
2. Cyperus eragrostis / Tall cyperu		20	Yes	FACW					
3. Lepidium latifolium / Perennial p	epperweed	20	Yes	FAC	Prevalen	ce Index = B/A =	=	3.06	
4. <u>Distichlis spicata</u> / Salt grass		15	No	FAC	Uvdronbutio \	/egetation Indic	otoro:		
5.			_			e Test is >50%	aluis.		
6.						e Index ≤3.0¹			
7. 8.						gical Adaptations	s¹ (Provide	supportin	ıq
o		80	= Total Co	over		ic Hydrophytic ∖			-
Woody Vine Stratum (Plot size:)		_				-		
1					¹Indicators of h	ydric soil and we	etland hydro	ology mu	st
2.					be present, un	ess disturbed or	problemati	C.	
		0	_ = Total Co	over	Hydrophytic				
% Bare Ground in Herb Stratum _	45 % Cove	r of Biotic Cr	ust	0	Vegetation				
					Present?	Yes	X No		
Remarks:									

George Good George Good George Good George Good George		ription: (Describe to t	he depth nee			r or confirm	the abser	nce of indicators.)	
Type: C=Concentration, D=Depietion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. T-Location: PL=Pore Lining, M=Matrix, Updric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoil (A1) Histosoil (A2) Histosoil (A2) Black Histo: (A3) Black Histo: (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyd Matrix (F3) Depleted Matrix (F3) To m Muck (A9) (LRR C) To m Muck (A9) (LRR C) To m Muck (A9) (LRR C) Depleted Bellow Dark Surface (A11) Depleted Bellow Dark Surface (A11) Depleted Bellow Dark Surface (A11) Depleted Bellow Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyded Matrix (F3) Wetnand Hydrology Indicators: Timazy Indicators (Indinnum of one required: check all that apply) Sestrictive Layer (if present): Type: Depth (Inches): Depth (Inch	Depth (inches)	Matrix Color (moist)	0/			Type1	1 002	Toyturo	Domarka
Specific Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.			. — .	Color (moist)	70	Type	LUC-	rexture	Remarks
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Histoce (A1) Sandy Redox (S5) 1 or m Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Histic Epipedon (A2) Stripped Matrix (S8) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Straffed augre; (A5) (LRR C) Depleted Matrix (F2) 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) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Satification (S4) (LRR C) Depleted Dark Surface (F7) Wetland Hydrology Indicators: Type: Depth (inches): Hydric Soil Present? Yes No X Surface Water (A1) High Water Table (A2) Section Departs (R2) (Riverine) Hydroce Water (A1) Sati Crust (B12) Section Departs (R2) (Riverine) Surface Water (A1) (Monriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Surface Soil Cracks (B6) Other Reduction in Titled Soils (C6) Saturation Visible on Aerial Imagery (C9) Introdation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquilard (D3) Surface Soil Cracks (B6) Other (Explain in Remarks) FAC-Neutral Test (D5) Indid Observations: urface Water Present? Yes No X Depth (inches):		· ·		·			anis.		
Histic Epipedon (A2)	-		e to all LKKS,		· -				•
Black Histic (A3)		• •			, ,				, , ,
Hydrogen Sulfide (A4)						/= · · · · ·			
Straffied Layers (A5) (LRR C)		, ,					MLRA 1)		, ,
1 cm Muck (A9) (LRR D)		, ,				(F2)			
Depleted Below Dark Surface (A11)					. ,			Other	r (Explain in Remarks)
Thick Dark Surface (A12)									
Sandy Mucky Mineral (S1)			A11)						
Sandy Gleyed Matrix (S4) sestrictive Layer (if present): Type: Depth (inches): Semarks: Hydric Soil Present? Yes No X	Thick Da	ark Surface (A12)				8)		³Indicators	of hydrophytic vegetation and
Type:	Sandy M	lucky Mineral (S1)		Vernal Poo	ls (F9)			wetland hy	drology must be present,
Type:	Sandy G	Gleyed Matrix (S4)						unless	disturbed or problematic.
DROLOGY Vetland Hydrology Indicators: virinary Indicators (minimum of one required: check all that apply) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Sediment Deposits (B3) (Riverine) Drift Deposits (B4) (Riverine) Drift Deposits (B4) (Riv	Restrictive L	ayer (if present):							
PROLOGY Vetland Hydrology Indicators: rrimary Indicators (minimum of one required: check all that apply) Surface Water (A1) Surface Water (A2) Secondary Indicators (2 or more required) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Prift Deposits (B3) (Riverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Riverine) Drift Deposits (B4) (Riverine) Drift Deposits (B4) (Riverine)									
Vetland Hydrology Indicators: Vetland Hydrology Indicators (minimum of one required: check all that apply)	Depth (in	ches):						Hydric Soil Pres	ent? Yes NoX
Vetland Hydrology Indicators: **rrimary Indicators (minimum of one required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Riverine) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Sediment Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Sediment Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Sediment Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Other (Explain in Remarks) FAC-Neutral Test (D5) Ield Observations: Vater Table Present? Yes No X Depth (inches): Vater Table Present? Yes No	VDBOLOG	·v							
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Saturation (A3)				_					` ,`
Water Marks (B1) (Nonriverine)						(B13)			
Sediment Deposits (B2) (Nonriverine)		` '	.,			. ,			
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Surface Soil Cracks (B6)		. , , ,	•	_		_	g Roots (C		• •
Inundation Visible on Aerial Imagery (B7)		, , ,	ne)			, ,	I- (OO)		` '
Surface Soil Cracks (B6) Other (Explain in Remarks) FAC-Neutral Test (D5) ield Observations: surface Water Present? Yes No X Depth (inches): vater Table Present? Yes No X Depth (inches): saturation Present? Yes No X Depth (inches): mcludes capillary fringe) Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		, ,	(5-1)				is (C6)		
ield Observations: durface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): daturation Present? Yes No X Depth (inches): multiple Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Depth (inche			agery (B7)						
Autrace Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X No X Depth (inches): Wetland Hydrology Present? Yes No X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface	Soil Cracks (B6)		Other (Exp	lain in Rem	arks)		FAC-	Neutral Test (D5)
Water Table Present? Yes No X Depth (inches): Induction Present? Yes No X Depth (inches): Includes capillary fringe) Wetland Hydrology Present? Yes No X Includes Capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ield Observ	vations:							
Adductation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Wate	er Present? Y	es No	Depth (in	ches):				
ncludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Nater Table F	Present? Y	es No	Depth (in	ches):				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Pr	esent? Y	es No	Depth (in	ches):		Wetla	nd Hydrology Pres	sent? Yes NoX
	(includes cap	illary fringe)	·						
Zemarks:	Describe Rec	corded Data (stream ga	uge, monitorir	ng well, aerial photos	s, previous i	nspections),	if available	:	
demarks:									
	Remarks:								

Project/Site: Yolo 80 Corridor Improvement Project	(City/Count	y:	Yolo	San	npling Date:	02/2	4/2021
Applicant/Owner: Caltr	ans		·	State:		npling Point:		12
Investigator(s): J. Holson, S. Creer		Section, To	ownship, Range:		_		'	
Landform (hillslope, terrace, etc): Valley bottom		Local relief	f (concave, conve	ex, none):			Slope (%	%): <u>3</u>
Subregion (LRR): C		.564081°		Long: <u>-121.637</u>	'385°	Dat	um:V	NGS84
Soil Map Unit Name: Sacrame	nto soils, flo	oded			classification:			
Are climatic / hydrologic conditions on the site typical for this time	•			(If no, explain	in Remarks.)			
Are Vegetation N, Soil N, or Hydrology N,				Normal Circumstar	nces" present?	Yes	X N	10
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>N</u> r	naturally pro	blematic?	(If nea	eded, explain any	answers in Rem	ıarks.)		
SUMMARY OF FINDINGS - Attach site map show	ing samp	oling poi	int locations,	, transects, im	portant feat	ures, etc		
Hydrophytic Vegetation Present? Yes X N	o							
	o		Is the Sampled	Area				
	o		within a Wetland	d? `	Yes X	No		
		•						
Remarks:								
VEGETATION - Use scientific names of plants.								
·				Dominance To	est worksheet:			
					minant Species			
	Absolute	Dominar	nt Indicator		FACW, or FAC:		3	(A)
Tree Stratum (Plot size:)	% Cover	Species'	? Status					_ ('')
1. Salix gooddingii / Gooding's willow, Goodding's black willow		Yes	FACW	Total Number	of Dominant			
2				Species Acros			5	(B)
3				<u>'</u>		-		_ ` ′
4				Percent of Dor	minant Species			
	30	_ = Total C	Cover	That Are OBL,	FACW, or FAC:		60.0	(A/B)
Sapling/Shrub Stratum (Plot size:)					•			_ ` ′
Salix exigua / Narrowleaf willow	15	Yes		Prevalence In	dex worksheet	:		
2				Total % C	Cover of:	Mul	tiply by:	
3.				OBL species	0	_ x 1 =	0	
4	-, -			FACW species		x 2 =	180	
5				FAC species	30	_ x 3 =	90	
	15	_ = Total C	Cover	FACU species		_ x 4 =	400	
Herb Stratum (Plot size:)	0.5		E4.011	UPL species	0	_ x 5 =	0	
Cynodon dactylon / Bermuda grass A priditive / Affeliam / Bernanda paparagada	25	Yes_		Column Totals	: 220	(A)	670	(B)
Lepidium latifolium / Perennial pepperweed Premus hardesesus / Soft harms	15	Yes						
3. Bromus hordeaceus / Soft brome	15	Yes		Prevaler	nce Index = B/A	=	3.05	
4. Sorghum halepense / Johnsongrass, Johnson grass	10	No	FACU	Hudronbutio \	Vegetation Indi	natore:		
5. 6.					ce Test is >50%	cators.		
7	-				ce Index ≤3.0¹			
8.		_			gical Adaptation	s¹ (Provide	eunnortin	a
0	65	= Total C	Pover		tic Hydrophytic \	•		U
Woody Vine Stratum (Plot size:)		_ = 101a1 C	Jovei		alo i iyalopiiyao	vogotation	(Explain)	
<u> </u>				¹Indicators of h	nydric soil and w	etland hydro	ology mus	st
1. 2.					less disturbed o			
<u> </u>	0	= Total C	Cover					
% Bare Ground in Herb Stratum 30 % Cover	of Biotic Cr	_		Hydrophytic				
70 Baro Ground III From Stratamin 70 Gover	or Block of			Vegetation				
				Present?	Yes	X No		
Demonstra								
Remarks:								

Depth Maleix Redox Features Type Loc? Texture Remarks		iption: (Describe to the	ne depth neede			or confirm	the abser	nce of indicators.)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered Matrix, CS=C	Depth (inches)	Matrix	0/			T a 1	12	Taxetuna	Demonto
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoil (A1) Histosoil (A1) Sandy Redox (S5) Histosoil (A2) Sirpped Matrix (S6) Sirpped Matrix (S6) Sirpped Matrix (S7) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Delow Dark Surface (A11) Sandy Mucky Minerar (S1) Sandy Mucky Minerar (S1) Sandy Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Appleted Delow Dark Surface (A12) Sandy Glegyed Matrix (S1) Secondary Indicators (represent): Type: Depth (inches): Appleted Delow Dark Surface (A12) Sandy Glegyed Matrix (S1) Secondary Indicators (represent): Type: Surface Water (A1) Salt Crust (B11) Salt Crust (B11) Secondary Indicators (2 or more required: check all that apply) Surface Water (A1) Salt Crust (B11) Water Matrix (B1) (Norriverine) Hydric Soil Present? YesX Derit Deposits (B3) (Norriverine) Water Matrix (B1) (Norriverine) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saltaration (Vasible on Aerial Imagery (B7) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Saltaration (Pasent? YesNoX _Depth (inches): Surface Soil Cracks (B7) Saltaration (Pasent? YesNoX _Depth (inches): Surface Soil Cracks (B7) Saltaration (Pasent? YesNoX _Depth (inches): Surface Soil Cracks (B7) Saltaration (Pasent? YesNoX _Depth (inches): Saltaration (Pasent? YesNoX _Depth (inches				,					Remarks
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Sardy Redox (S5) J 1 cm Muck (A9) (LRR C) Black Histo Epipedon (A2) Stripped Matrix (S6) J 2 cm Muck (A10) (LRR B) Black Histo (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Red Parent Material (TF2) Red Parent Material (TF2) J 1 cm Muck (A9) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Thick Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Wetland Hydrology Indicators (problematic or problematic or problemati	0-16	101R 3/2	93	51K 5/6			IVI	Loamy clay	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histosol (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histos (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) I cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) X Redox Depressions (F8) *Indicators of hydrophytic vegetation welland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Remarks: **Primary Indicators (minimum of one required: check all that apply) Secondary Indicators (2 or more req Water (A1) Salt Crust (B11) Secondary Indicators (2 or more req Matrix (S6) Secondary Indicators (2 or more req (S6) Secondary Indicators (S6) Secondary Indicators (S6) Secondary Indicators (S6) Secondary Indicators (S6) Secondary I									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)						·			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histosol (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1) (except MLRA 1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loarny Gleyed Matrix (F2) Red Parent Material (TF2) I cm Muck (A9) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) I cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) X Redox Depressions (F8) "Indicators of hydrophytic vegetation wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Vernal Pools (F9) Water Marks (B1) (Riverine) Type: Depth (inches) Salt Crust (B11) Secondary Indicators (2 or more req Water (A1) Salt Crust (B11) Sedement Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B12) (Riverine) Water Marks (B1) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Sulface Sol Cracks (B6) Crayfish Burrows (C8) Shallow Aqualtar (D3) Shallow Aqualtar (D5) S									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histosol (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Hydrogen Sulfide (A4) Loarny Mucky Mineral (F1) (except MLRA 1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loarny Gleyed Matrix (F2) Red Parent Material (TF2) I cm Muck (A9) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) I cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) X Redox Depressions (F8) "Indicators of hydrophytic vegetation wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Vernal Pools (F9) Water Marks (B1) (Riverine) Type: Depth (inches) Salt Crust (B11) Secondary Indicators (2 or more req Water (A1) Salt Crust (B11) Sedement Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B12) (Riverine) Water Marks (B1) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Sulface Sol Cracks (B6) Crayfish Burrows (C8) Shallow Aqualtar (D3) Shallow Aqualtar (D5) S			. <u></u> .						
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histosol (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histos (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) I cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) X Redox Depressions (F8) *Indicators of hydrophytic vegetation welland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Remarks: **Primary Indicators (minimum of one required: check all that apply) Secondary Indicators (2 or more req Water (A1) Salt Crust (B11) Secondary Indicators (2 or more req Matrix (S6) Secondary Indicators (2 or more req (S6) Secondary Indicators (S6) Secondary Indicators (S6) Secondary Indicators (S6) Secondary Indicators (S6) Secondary I									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)									
Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Siripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Loamy Cleyed Matrix (F2) Red Parent Material (TF2) Pepleted Botw Dark Surface (F6) Depleted Botw Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Vernal Pools (F9) Wetland Hydrology Indicators of hydrophylic vegetation wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Depth (inches): Surface Water (A1) Water Marks (B1) (Riverine) Salt Crust (B11) Water Marks (B1) (Riverine) Water Marks (B1) (Riverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Surface Water (A1) Salt Crust (B1) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Surface Water (A1) Drift Deposits (B3) (Nonriverine) Presence of Reduced Inon (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Shallow Aquitard (D3) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrology Present? Yes No X Depth (inches): Water Table (P2) Wetland Hydrology Present? Yes X Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Type: C=Con	centration, D=Depletio	n, RM=Reduced	d Matrix, CS=Cove	ered or Coate	ed Sand Gra	ins.	²Locatio	n: PL=Pore Lining, M=Matrix.
Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (A12) X Redox Depressions (F8) Sandy Mucky Mineral (F7) Thick Dark Surface (A12) Yernal Pools (F9) Depleted Below Dark Surface (A12) Thick Dark Surface (A12) Yernal Pools (F9) Wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Type: Depth (inches): Wetland Hydrology Indicators: Plimary Indicators (minimum of one required: check all that apply) Surface Water (A1) High Water Table (A2) X Selicit Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Dirft Deposits (B3) (Riverine) X Sediment Deposits (B2) (Riverine) X Sediment Deposits (B2) (Riverine) X Dirft Deposits (B3) (Monriverine) Dirft Deposits (B3) (Monriverine) Presence of Reduced Iron (C4) Dirft Deposits (B3) (Monriverine) Presence of Reduced Iron (C4) X Dirft Deposits (B3) (Monriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Dirft Deposits (B6) Crayfish Burrows (C8) Surface Soil Cracks (B6) Dirft Deposits (B7) Shallow Aquitard (D3) FAC-Neutral Test (D5) Field Observations: Durface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X Depth (inches): Unders capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Hydric Soil In	dicators: (Applicable	to all LRRs, u	nless otherwise r	noted.)			Indicators fo	or Problematic Hydric Soils³:
Black Histic (A3)	Histosol ((A1)		Sandy Red	lox (S5)			1 cm	Muck (A9) (LRR C)
Hydrogen Sulfide (A4)	Histic Epi	pedon (A2)		Stripped M	atrix (S6)			2 cm	Muck (A10) (LRR B)
Stratified Layers (A5) (LRR C)	Black His	tic (A3)		Loamy Mu	cky Mineral ((F1) (except	MLRA 1)	Red	uced Vertic (F18)
Stratified Layers (A5) (LRR C) I cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Vernal Pools (F9) Wetland Hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Depth (inches): Depth (inches): Sermarks: **Remarks:** **Proper Surface Water (A1) Salt Crust (B11) High Water Table (A2) Salt Crust (B12) Salt Crust (B12) Salt Crust (B12) Salt Crust (B13) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Social Crust (B2) Depth (Inches): Secondary Indicators (2 or more required: check all that apply) Secondary Indicators (2 or more required: check all that apply) Water Marks (B1) (Riverine) Below Water Marks (B1) (Nonriverine) Water Marks (B2) (Nonriverine) Drainage Patterns (B10) Drainage Patt	— Hydroger	n Sulfide (A4)		Loamy Gle	yed Matrix (I	F2)		Red	Parent Material (TF2)
1 cm Muck (A9) (LRR D)						,			
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) X Redox Depressions (F8) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Vernal Pools (F9) Wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Remarks: Depth (inches): Hydric Soil Present? Yes X Sali Crust (B11) High Water Table (A2) Sali Crust (B12) Sali Crust (B12) Sali Crust (B13) Hydrogen Sulfide Odor (C1) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dirth Deposits (B3) (Nonriverine) Surface Water (A10) Surface Water (A10) Sediment Deposits (B3) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dirth Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduced Iron (C4) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Other (Explain in Remarks) FAC-Neutral Test (D5) Redox Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Salication Present? Yes No X Depth (in					, ,	6)			, ,
Thick Dark Surface (A12)			411)	_					
Sandy Mucky Mineral (S1)			,					3Indicator	s of hydrophytic vegetation and
Restrictive Layer (if present): Type:						,			
Restrictive Layer (if present): Type: Depth (inches): Depth (inches):		• ' '		vernai Poo	is (F9)				
Type: Depth (inches): Hydric Soil Present? YesX	Sandy Gi	eyed Matrix (S4)						uniess	s disturbed or problematic.
Depth (inches):		ayer (if present):							
PROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required: check all that apply) Surface Water (A1) High Water Table (A2) Water Marks (B1) (Riverine) Salt Crust (B12) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Sutrace Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Other (Explain in Remarks) FAC-Neutral Test (D5) Ield Observations: urface Water Present? Yes No X Depth (inches): urface Water Present? Yes No X Depth (inches): urface Water Present? Yes No X Depth (inches): wetland Hydrology Present? Yes X Metland Hydrology Present? Yes X Metland Hydrology Present? Yes X	· · ·	has).		_				Hydric Soil Bro	sent? Yes X No
Secondary Indicators (minimum of one required: check all that apply) Secondary Indicators (2 or more required: check all that apply) Surface Water (A1)									
Arimary Indicators (minimum of one required: check all that apply) Secondary Indicators (2 or more required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Riverine) Saturation (A3) Water Marks (B1) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Water Marks (B1) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Surface Soil Cracks (B6) Other (Explain in Remarks) FAC-Neutral Test (D5) Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Dri	DROLOG	Υ							
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) X Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)	Vetland Hydi	ology Indicators:							
High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) X Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Thin Muck Surface (C7) Surface Soil Cracks (B6) Other (Explain in Remarks) FAC-Neutral Test (D5) Surface Water Present? Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No Saturation Present? Yes Satur	Primary Indica	tors (minimum of one	required: check	all that apply)				Secondar	ry Indicators (2 or more required)
High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) X Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Trift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No Saturation Present? Yes Saturation Present? Yes Saturation Presen	Surface V	Vater (A1)		Salt Crust ((B11)			Wate	er Marks (B1) (Riverine)
Saturation (A3)								Sedi	ment Deposits (B2) (Riverine)
Water Marks (B1) (Nonriverine) X Sediment Deposits (B2) (Nonriverine) X Drift Deposits (B3) (Nonriverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Dother (Explain in Remarks) FAC-Neutral Test (D5) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Factorial Present? Ves No X Depth (inches): Staturation Present? Yes No X D						B13)			
X Sediment Deposits (B2) (Nonriverine)		` '	١		,	•			. , , ,
Drift Deposits (B3) (Nonriverine)						, ,	n Poots (C		• , ,
Surface Soil Cracks (B6) X Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Thin Muck Surface (C7) Shallow Aquitard (D3) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Ves No X Depth (inches): Saturation Present? Yes No X Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						_	y Noois (C		, ,
X Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Surface Soil Cracks (B6) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No X Depth (inches): Vater Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Surface Water Present? Yes No X Depth (inches): Sutraction Present? Yes No X Depth (inches): Sutraction Present? Yes No X Depth (inches): Security of the Method of Stream gauge, monitoring well, aerial photos, previous inspections), if available:		, , ,	ie)			. ,	(00)		
Surface Soil Cracks (B6) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present?		, ,	(=-)				is (C6)		3 , ()
Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			igery (B7)						
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Includes capillary fringe) Wetland Hydrology Present? Yes X Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface S	Soil Cracks (B6)		Other (Exp	lain in Rema	arks)		FAC	-Neutral Test (D5)
Vater Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Security Present? Yes No X Depth (inches): Security Present? Yes X Security Present? Yes X Security Present Present Present? Yes X Security Present Present Present Present? Yes X Security Present Pr	ield Observa	ations:							
Adductation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X ncludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	urface Water	Present? Ye	es No	X Depth (in	ches):				
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Vater Table P	resent? Ye	es No	X Depth (in	ches):				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Pre	sent? Ye	es No				Wetla	nd Hydrology Pre	sent? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				<u> </u>					
	escribe Reco	orded Data (stream da	uge monitoring	well aerial photos	nrevious in	spections)	 if available	·	
Remarks:		zaka (oliodin ga	_ge,otoring	, adriai pridide	., p. 511045 III				
	Remarks:								

Applicant/Owner: Investigator(s): Landform (hillslope Subregion (LRR): Soil Map Unit Name			ct	City/Count	ty:	Yolo	Sam	oling Date:	02/2	24/2021
Landform (hillslope Subregion (LRR):			Caltrans	· •		State:		oling Point		13
Subregion (LRR):	J.	Holson, S. Creer			ownship, Range:	:				-
	e, terrace, etc):	Valley bot	tom	Local relie	f (concave, conv	/ex, none):	Concave		Slope (%): 2
Soil Map Unit Name		С		38.564027°		Long: <u>-121.6372</u>	12°	Dat	um:	WGS84
	ne:		cramento Soils,				assification:			
	ologic conditions on t					(If no, explain i				
	N , Soil N					"Normal Circumstand	•		1 <u>X</u>	No
	N , Soil N					eeded, explain any a		,		
SUMMARY OF	FINDINGS - At	ttach site map s	showing san	npling po	int locations	s, transects, imp	ortant featu	ıres, etc		
Hydrophytic Veg	etation Present?	Yes X	No							
Hydric Soil Prese	ent?	Yes X	No		Is the Sampled	d Area				
Wetland Hydrolo	gy Present?	Yes X		_	within a Wetlar	nd? Ye	es X	No		
Remarks:				1						
VEGETATION	- Use scientific	names of plan	ts.							
						Dominance Tes	t worksheet:			
			Absolute	e Domina	nt Indicator	Number of Dom	•			
Tree Stratum ((Plot size:	1	% Cove			That Are OBL, F	ACW, or FAC:		2	(A)
1.	(1 101 0120.	/	70 0010	- ороско	<u>otatao</u>	•				
-						Total Number of			•	(D)
3.					·	- Species Across	Ali Strata:		3	(B)
4						Percent of Domi	nant Species			
-				= Total (Cover	That Are OBL, F	•		66.7	(A/B)
Sapling/Shrub St	tratum (Plot size:)			That Are Obc, I	ACW, OI I AC.	-	00.7	_ (٨/٢)
1						Prevalence Ind	ex worksheet:			
2						Total % Co	ver of:	Mul	tiply by:	
3						OBL species	0	x 1 =	0	
						FACW species	0	x 2 =	0	
5						FAC species	90	x 3 =	270	
Herb Stratum ((Diet sies)	`	0	= Total (Jover	FACU species	50	x 4 =	200	
	tylon / Bermuda gra)	25	Yes	FACU	UPL species	0	x5=	0	(D)
	<i>umarium /</i> Cocklebur		20	Yes		Column Totals:	140	(A)	470	(B)
	folium / Perennial pe		20	Yes		Provolono	e Index = B/A =		3.36	
4. Rumex crispu	· · ·	pportrood	5	No	FAC	Frevalenc	e ilidex – b/A –	·	3.30	
						Hydrophytic Ve	getation Indic	ators:		
						X Dominance	Test is >50%			
						Prevalence	Index ≤3.01			
8.						<u> </u>	cal Adaptations	`		U
			70	= Total (Cover	Problemation	Hydrophytic V	egetation¹	(Explain))
	atum (Plot size: _)								
Woody Vine Stra						¹Indicators of hy				st
1						be present, unle	ss disturbed or	problemati	IC.	
			0	= Total (Hydrophytic				
12.			Cover of Biotic	Crust	10	Vegetation				
12.	in Herb Stratum	30 %								
12.	in Herb Stratum	30%				Present?	Yes 2	K No		
1 2 % Bare Ground i	in Herb Stratum					Present?	Yes	K No		
12.	in Herb Stratum	30 %				Present?	Yes	K No		-
1 2 % Bare Ground i	in Herb Stratum	30 %				Present?	Yes	K No		<u>.</u>
12. % Bare Ground i	in Herb Stratum	30 %				Present?	Yes	K No		
12% Bare Ground i	in Herb Stratum	30 %				Present?	Yes	K No		_

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Mu Loamy Mucky Mineral (F1) (except MLRA 1) Reduced Loamy Gleyed Matrix (F2) Red Park Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (E) Tom Muck (A9) (LRR D) X Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Vernal Pools (F9) I cm Muck (A9) (LRR D) Wetland hydro	Remarks L=Pore Lining, M=Matrix. roblematic Hydric Soils³: ck (A9) (LRR C) ck (A10) (LRR B) I Vertic (F18) ent Material (TF2) xplain in Remarks)
1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 1 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 1 Location: P 1 Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) 1 Histosol (A1) 2 Histosol (A2) 3 Histic Epipedon (A2) 3 Stripped Matrix (S6) 4 Loamy Mucky Mineral (F1) (except MLRA 1) 4 Reduced Matrix (F2) 5 Red Pare 5 Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) 5 Redox Dark Surface (F6) 5 Depleted Below Dark Surface (A11) 5 Depleted Dark Surface (F7) 7 Thick Dark Surface (A12) 5 Sandy Mucky Mineral (S1) 7 Redox Depressions (F8) 3 Indicators of Muckland Number (F7) 4 Redox Depressions (F8) 3 Indicators of Wetland hydrowetland	L=Pore Lining, M=Matrix. roblematic Hydric Soils³: ck (A9) (LRR C) ck (A10) (LRR B) I Vertic (F18) ent Material (TF2)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: P Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Sandy Redox (S5) It cm Mu Histic Epipedon (A2) Stripped Matrix (S6) Stripped Matrix (F1) (except MLRA 1) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) X Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Vernal Pools (F9) Wetland hydro	roblematic Hydric Soils³: ck (A9) (LRR C) ck (A10) (LRR B) I Vertic (F18) ent Material (TF2)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (F1) (except MLRA 1) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Stratified Layers (A5) (LRR D) Stratified Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Midicators of Provide Provided Natrix (F2) Stratified Layers (A5) Sendy Mucky Mineral (F1) (except MLRA 1) Reduced Matrix (F2) Red Pare Other (E1) Red Pare Other (E2) Red Pare Other (E3) Redox Dark Surface (F6) Sendy Mucky Mineral (S1) Vernal Pools (F9) Midicators of Provided Natrix (F2) Stratified Layers (A12) Redox Dark Surface (F7) Sendy Mucky Mineral (S1) Vernal Pools (F9)	roblematic Hydric Soils³: ck (A9) (LRR C) ck (A10) (LRR B) I Vertic (F18) ent Material (TF2)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Stripped Matrix (S6) Stratified Layers (A5) (LRR C) Stratified Layers (A5) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (F1) (except MLRA 1) Reduced Matrix (F2) Red Pare Other (E) Red Pare Other (E) Stratified Layers (A5) (LRR D) X Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Vernal Pools (F9) Wetland hydro	roblematic Hydric Soils³: ck (A9) (LRR C) ck (A10) (LRR B) I Vertic (F18) ent Material (TF2)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (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 Redox (S5) 1 cm Mucky Mineral (F1) (except MLRA 1) Reduced Matrix (F2) Depleted Matrix (F3) A Redox Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Vernal Pools (F9) I cm Muck (A9) (LRR D) A Redox Dark Surface (F9) Wetland hydrogen Surface (A12) A Redox Depressions (F8) Sandy Mucky Mineral (S1)	roblematic Hydric Soils³: ck (A9) (LRR C) ck (A10) (LRR B) I Vertic (F18) ent Material (TF2)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic Epipedon (A2) Hydrogen Sulfide (A4) Stripped Matrix (S6) Loamy Mucky Mineral (F1) (except MLRA 1) Reduced Application Mucky Mineral (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Application Provided Matrix (B6) Depleted Matrix (B2) Depleted Matrix (B3) Application Mucky Mineral (B3) Depleted Dark Surface (B6) Depleted Dark Surface (B7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Vernal Pools (F9) I cm Mucky Mineral (S1)	roblematic Hydric Soils³: ck (A9) (LRR C) ck (A10) (LRR B) I Vertic (F18) ent Material (TF2)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (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 Redox (S5) 1 cm Mucky Mineral (F1) (except MLRA 1) Reduced Matrix (F2) Depleted Matrix (F3) A Redox Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Vernal Pools (F9) I cm Muck (A9) (LRR D) A Redox Dark Surface (F9) Wetland hydrogen Sulfide (A1) Stratified Layers (A11) Depleted Dark Surface (F7) A Redox Depressions (F8) A Redox Depressions (F8) Wetland hydrogen Sulface (A12) Wetland hydrogen Sulfac	roblematic Hydric Soils³: ck (A9) (LRR C) ck (A10) (LRR B) I Vertic (F18) ent Material (TF2)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (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 Redox (S5) 1 cm Mucky Mineral (F1) (except MLRA 1) Reduced Matrix (F2) Depleted Matrix (F3) A Redox Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Vernal Pools (F9) I cm Muck (A9) (LRR D) A Redox Dark Surface (F9) Wetland hydrogen Sulfide (A1) Stratified Layers (A11) Depleted Dark Surface (F7) A Redox Depressions (F8) A Redox Depressions (F8) Wetland hydrogen Sulface (A12) Wetland hydrogen Sulfac	roblematic Hydric Soils³: ck (A9) (LRR C) ck (A10) (LRR B) I Vertic (F18) ent Material (TF2)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (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 Redox (S5) 1 cm Mucky Mineral (F1) (except MLRA 1) Reduced Matrix (F2) Depleted Matrix (F3) A Redox Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Vernal Pools (F9) I cm Muck (A9) (LRR D) A Redox Dark Surface (F9) Wetland hydrogen Sulfide (A1) Stratified Layers (A11) Depleted Dark Surface (F7) A Redox Depressions (F8) A Redox Depressions (F8) Wetland hydrogen Sulface (A12) Wetland hydrogen Sulfac	roblematic Hydric Soils³: ck (A9) (LRR C) ck (A10) (LRR B) I Vertic (F18) ent Material (TF2)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (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 Redox (S5) 1 cm Mucky Mineral (F1) (except MLRA 1) Reduced Matrix (F2) Depleted Matrix (F3) A Redox Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Vernal Pools (F9) I cm Muck (A9) (LRR D) A Redox Dark Surface (F9) Wetland hydrogen Surface (A12) A Redox Depressions (F8) Sandy Mucky Mineral (S1)	roblematic Hydric Soils³: ck (A9) (LRR C) ck (A10) (LRR B) I Vertic (F18) ent Material (TF2)
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 Redox (S5) 1 cm Muck (S6) Loamy Mucky Mineral (F1) (except MLRA 1) Reduced Matrix (F2) Depleted Matrix (F3) X Redox Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Yernal Pools (F9) wetland hydro	ck (A9) (LRR C) ck (A10) (LRR B) I Vertic (F18) ent Material (TF2)
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) Stripped Matrix (S6) Loamy Mucky Mineral (F1) (except MLRA 1) Reduced Red Pare Depleted Matrix (F2) Depleted Matrix (F3) X Redox Dark Surface (F6) Depleted Dark Surface (F7) X Redox Depressions (F8) 3Indicators of Wernal Pools (F9) wetland hydro	ck (A10) (LRR B) I Vertic (F18) ent Material (TF2)
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Reduced Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (E) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Loamy Mucky Mineral (F1) (except MLRA 1) Reduced Reduced Red Park Red Park Surface (F6) Depleted Dark Surface (F6) X Redox Dark Surface (F7) X Redox Depressions (F8) 3Indicators of Vernal Pools (F9) wetland hydro	l Vertic (F18) ent Material (TF2)
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) Loamy Gleyed Matrix (F2) Red Park Redox Dark Surface (F6) Depleted Dark Surface (F6) X Redox Dark Surface (F7) X Redox Depressions (F8) 3Indicators of Wernal Pools (F9) wetland hydrogen Surface (A12) Red Park Pother (E) Nother	ent Material (TF2)
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Matrix (F3) Medox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Medox Dark Surface (F6) Depleted Dark Surface (F7) Medox Depressions (F8) Vernal Pools (F9) wetland hydromatical (S1)	
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Matrix (F3) Medox Dark Surface (F6) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Medox Dark Surface (F6) Depleted Dark Surface (F7) Medox Depressions (F8) Vernal Pools (F9) wetland hydromatical (S1)	
1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) X Redox Dark Surface (F6) Depleted Dark Surface (F7) X Redox Depressions (F8) Vernal Pools (F9) wetland hydro	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) X Redox Depressions (F8) Vernal Pools (F9) wetland hydro	
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) X Redox Depressions (F8) Vernal Pools (F9) wetland hydro	
Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydro	hydrophytic vogetation and
	hydrophytic vegetation and
Sandy Gleyed Matrix (S4) unless dis	ology must be present,
	turbed or problematic.
Restrictive Layer (if present):	
Type:	• V V N
Depth (inches): Hydric Soil Present	? Yes X No
/DROLOGY	
Vetland Hydrology Indicators:	
• •	dicators (2 or more required)
	arks (B1) (Riverine)
	t Deposits (B2) (Riverine)
= · · · · · · · · · · · · · · · · · · ·	osits (B3) (Riverine)
_	e Patterns (B10)
X Sediment Deposits (B2) (Nonriverine) — Oxidized Rhizospheres along Living Roots (C3) — Dry-Seas	son Water Table (C2)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish	Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation	n Visible on Aerial Imagery (C9)
X Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow.	Aquitard (D3)
	itral Test (D5)
-	. ,
ield Observations:	
Surface Water Present? Yes No Depth (inches):	
Vater Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present	? Yes <u>X</u> No
includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

Project/Site: Yolo 80 Corrido	or Improvement Project		City/Count	v.	Yolo	Sá	ampling Date	· 01/	08/2021
Applicant/Owner:		rans	on,, ooun	·)·	Yolo State:	CA Sa	ampling Poin	it:	14
Investigator(s):	S. Creer; J. Holson		Section, To	ownship, Rang	ge:	T8N R	3E SN03		
Landform (hillslope, terrace, etc):	Valley bottom		Local relie	f (concave, co	nvex, none):	Flat			(%): 0
Subregion (LRR):	С	Lat:	38.56	6469839	Long:	-121.62931432			
Soil Map Unit Name:	Sacrame	ento soils, flo	ooded		NW				
Are climatic / hydrologic conditions	on the site typical for this time	e of year?	Yes X	No	(If no, explai	n in Remarks.)			
Are Vegetation N, Soil					e "Normal Circumsta	ances" present?	Yes _	X	No
Are Vegetation N, Soil					needed, explain any	answers in Re	marks.)		
SUMMARY OF FINDINGS -	- Attach site map show	ving sam	pling po	int location	ns, transects, ir	nportant fea	atures, etc	c.	
Hydrophytic Vegetation Present?	? Yes X N	lo							
Hydric Soil Present?	Yes X N			Is the Sample	ed Area				
Wetland Hydrology Present?				within a Wetl		Yes X	No		
			-						
Remarks:									
 VEGETATION - Use scient	ific names of plants								
VEGETATION - USE SCIENT	inc names of plants.								
						Test workshee			
		Absolute	Domina	nt Indicator		ominant Specie			
Tree Stratum (Plot size:	0)		Species		That Are OBL	_, FACW, or FA	J:	2	(A)
		70 OOVCI	Орескоз	: Otatus	-				
					— Total Number	of Dominant			
-					— Species Acro	ss All Strata:		2	(B)
4					-				
			= Total (Cover		ominant Species			
Sapling/Shrub Stratum (Plot s	ize: 0)		10tai 0	JOVCI	That Are OBL	_, FACW, or FA	J:	100.0	(A/B)
					Dravalanas I	nday warkaha			
1.						ndex workshe		بريط براستفار	
						Cover of: 60		ultiply by:	
					OBL species		x1=_ x2=		
5					FACW species FAC species		x2 = _		
o			= Total (Cover	FAC species		x3=_ x4=	0	
Herb Stratum (Plot size: 5	5 ft radius)			30101	UPL species				
1. Schoenoplectus acutus / Hard		40	Yes	OBL	Column Total	-		99	(B)
Mentha pulegium / Pennyroya		20	Yes		Column rotal	s. <u>13</u>	(^) _		(D)
3. Dipsacus fullonum / Wild teas		10	No	FAC	— Prevale	ence Index = B/	۸ –	1.36	
Picris echioides / Bristly oxtor		3	No.	FAC	Fievale	siice iiidex – b//	`	1.50	
5.	.940				Hydrophytic	Vegetation Inc	dicators:		
				- 1	X Dominar	nce Test is >50%	6		
_				- 1	X Prevalen	nce Index ≤3.0¹			
8.				- 1	Morphole	ogical Adaptatio	ons¹ (Provide	supporti	ng
		73	= Total (Cover	Problem	atic Hydrophytic	c Vegetation	' (Explain)
Woody Vine Stratum (Plot size	e:)		_				-		
1					¹ Indicators of	hydric soil and	wetland hyd	rology mı	ust
2.					be present, u	nless disturbed	or problema	itic.	
		0	= Total (Cover	_				
% Bare Ground in Herb Stratum	10 % Cove	er of Biotic C	- rust		Hydrophytic				
					Vegetation				
					Present?	Yes _	X No		_
Pomarka:					<u> </u>				
Remarks:									

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histo Epipedon (A2) Stripped Matrix (S8) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) Depleted Below Dark Surface (A12) Redox Depressions (F8) Wernal Pools (F9) Westrictive Layer (if present): Type: Depth (inches): Depth (inches): Remarks: #### Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) X Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) X Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) X Inundation Present? Surface Roam (B6) X No Depth (inches): Surface Soil Cracks (B6) Surface Soil Cracks (B6) X No Depth (inches): Surface Soil Cracks (B6) S	Remarks
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoil (A1) Loamy Mucky Mineral (F1) (except MLRA 1) Loamy Gleyed Matrix (F2) Loamy Mucky Mineral (F1) Depleted Matrix (F3) Loamy Mucky Mineral (F1) Depleted Matrix (F3) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches): Hydric Si emarks: DROLOGY Retand Hydrology Indicators: timary Indicators (minimum of one required: check all that apply) Surface Soil (Ra) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Hydric Si Intimation (Ra) Recent Iron Reduction in Tilled Soils (C8) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Thin Muck Surface (C7) Surface Water Present? Yes X No Depth (Inches): later Table Present? Yes X No Depth (Inches): 18 Wetland Hydrolo secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histo Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F3) Loamy Mucky Mineral (S1) Loamy Gleyed Matrix (F3) Loamy Gleyed Matrix (F3) Loamy Gleyed Matrix (F3) Loamy Mucky Mineral (S1) Loamy Gleyed Matrix (F3) Loamy Gleyed Matrix (F2) Loamy Gleyed Matr	
tric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Black Histic (A3) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Loamy Gleyed Matrix (F2) Depleted Bloew Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Strictive Layer (if present): Type: Depth (inches): Type: Depth (inches): Mydrogen Sulfide (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Fourier Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Recent Iron Reduction in Remarks) Wetland Hydrolos Wetland Hydrolos Wetland Hydrolos Wetland Imagery (B7) Thin Muck Surface (C7) Surface Soil Cracks (B6) Depth (inches): Bloetic Crust (Inches): Drift Deposits (B3) (Nonriverine) Drift Deposits (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Depth (inches): Brown Marks (B1) (Inches): Wetland Hydrolos Scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Black Histo (A3) Hodrogy Bulfide (A4) Stratified Layers (A5) (LRR C) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F3) Loamy Gleyed Matrix (F3) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F3) Loamy Mucky Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Plin Sandy Gleyed Matrix (S4) Hydrictive Layer (if present): Type: Depth (inches): Bary 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) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Dother (Explain in Remarks) Wetland Hydrolo Undes capillary fringe) Cribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Sandy Redox (S5) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Loamy Gleyed Matrix (F3) Pepleted Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Pin Vernal Pools (F9) Wernal Pools (F9) Sandy Gleyed Matrix (S4) Hydric Si Black History Graph Gra	
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Sandy Redox (S5) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Loamy Gleyed Matrix (F3) Pepleted Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Pin Vernal Pools (F9) Wernal Pools (F9) Sandy Gleyed Matrix (S4) Hydric Si Black History Graph Gra	
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Bratified Layers (A5) (LRR C) Loamy Gleyed Matrix (F3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F3) Loamy Mucky Mineral (F1) Depleted Dark Surface (F6) Depleted Dark Surface (A11) Thick Dark Surface (A12) Redox Depressions (F8) Plin (Ayand Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Strictive Layer (if present): Type: Depth (inches): Matrix (B1) Depth (inches): Brollogy Hydric Si ROLOGY Hydric Si Rolic Crust (B11) Salt Crust (B12) Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Dother (Explain in Remarks) Metand Hydrolo Surface Soil Cracks (B6) Dother (Explain in Remarks) Metand Hydrolo Surface Soil Gracks (B6) Depth (inches): Brollogs Wetland Hydrolo Surface Soil Cracks (B6) Depth (inches): Surface Soil Gracks	Di Dan Linia a M Matric
Histosol (A1) Sandy Redox (S5) Histo Epipedon (A2) Stripped Matrix (S6) Black Histo (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) X Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) 3 andy Mucky Mineral (S1) Vernal Pools (F9) West Sandy Gleyed Matrix (S4) Strictive Layer (if present): Type: Depth (inches): Both (A3) Aquatio Inverterbates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrology Indicators Hydrogen Sulfide Odor (C1) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrologic (C6) Wetland Hydrologic (C7) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrologic (C6) Wetland Hydrologic (C7) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrologic (C7) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrologic (C6) Wetland Hydrologic (C7) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrologic (C7) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrologic (C6) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrologic (C7) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrologic (C7) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrologic (C7) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrologic (C7) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrologic (C7) Surface (C7) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrologic (C7)	Location: PL=Pore Lining, M=Matrix.
Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Strictive Layer (if present): Type: Depth (inches): MROLOGY Itland Hydrology Indicators: mary Indicators (minimum of one required: check all that apply) Set Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Water Present? Yes No Depth (inches): 18 Wetland Hydrology Wetland Hydr	tors for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C)
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) 1 cm Muck (A9) (LRR D) X Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) strictive Layer (if present): Type: Depth (inches): Hydric Simarks: DROLOGY Strictive Layer (if present): Type: Depth (inches): Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Surface Soil Cracks (B6) Depth (inches): 3 Ind Observations: If ace Water Present? Yes X No Depth (inches): 18 Wetland Hydrolosic Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	2 cm Muck (A10) (LRR B)
Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F3) Hydric Simarks: DROLOGY Strictive Layer (if present): Type: Depth (inches): Depth (inches): Biotic Crust (B12) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Depth (inches): Drology Set Matrix (S4) Biotic Crust (B12) Sediment Deposits (B3) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Water Present? Thin Muck Surface (C7) Surface Water Present? Surface Vater Present? Yes X No Depth (inches): Surface Water Present? Yes X No Depth (inches): Surface Vater Present? Yes X No Depth (inches): Surface Soil Cracks (S4) Wetland Hydroloc Underson, if available:	Reduced Vertic (F18)
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Strictive Layer (if present): Type: Depth (inches): Mary Indicators (minimum of one required: check all that apply) Surface Water (A1) Saturation (A3) Saturation (A3) Saturation (A3) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Surface Water Present? Surface Water Present? Yes X No Depth (inches): Depth (inches): Depth (inches): Selection of the Aerial Imagery (B7) Surface Water (B1) Surface Soil Cracks (B6) Depth (inches): Surface Soil Cracks (B6) Surface Soil Cracks (B6) Depth (inches): Surface Water Present? Yes X No Depth (inches): Surface Soil Cracks (B6) Wetland Hydrolocy Surface Roll Surface Soil Surface Soil Surface Soil Surface Soil Surface Soil Surface Soil Surface Soi	• '
1 cm Muck (A9) (LRR D)	Red Parent Material (TF2)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Strictive Layer (if present): Type: Depth (inches): Depth (inches): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Industrictive Signary Indicators: Surface Water (A1) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Depleted Dark Surface (F7) Redox Depressions (F8) Presence of Reduced Iron (C4) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Depth (inches): Surface Water Present? Surface Water Present? Yes X No Depth (inches):	Other (Explain in Remarks)
Thick Dark Surface (A12) Redox Depressions (F8) Alm we sandy Mucky Mineral (S1) Vernal Pools (F9) We sandy Gleyed Matrix (S4) Setrictive Layer (if present): Type:	
Sandy Mucky Mineral (S1)	
Sandy Gleyed Matrix (S4) Sestrictive Layer (if present): Type: Depth (inches):	dicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4) Sestrictive Layer (if present): Type: Depth (inches):	tland hydrology must be present,
DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Cher (Explain in Remarks) Eld Observations: Inface Water Present? Inface Water Present? Yes X No Depth (inches): Inface Water Present? Y	unless disturbed or problematic.
DROLOGY etland Hydrology Indicators: imary Indicators (iminimum of one required: check all that apply) 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) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Drift Deposits (B7) Drift Deposits (B6) Drift Deposits (B6) Drift Deposits (B6)	
etland Hydrology Indicators: imary Indicators (minimum of one required: check all that apply) Set Surface Water (A1) High Water Table (A2) Salturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Undest Collection Surface Water Present? Surface Water Present? Yes X No Depth (inches): Surface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
etland Hydrology Indicators: imary Indicators (minimum of one required: check all that apply) Set Surface Water (A1) High Water Table (A2) Satt Crust (B11) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Other (Explain in Remarks) Available: Wetland Hydrolo in Tilled Soils (C6) Depth (inches): Surface Vater Present? Yes X No Depth (inches): Surface Soil Cracks (C7) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	oil Present? Yes X No
Set Crust (B11) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Claudation Visible on Aerial Imagery (B7) Surface Water Present? Yes X No Depth (inches): Set aturation Present? Yes X No Depth (inches): Saturation plate (A2) Surface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Salt Crust (B11)	
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Clinundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Clinundations: Urface Water Present? Yes X No Depth (inches): Deputh (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	condary Indicators (2 or more required)
Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Peld Observations: Urface Water Present? Yes X No Depth (inches): Surface Present? Yes X No Depth (inches): Surface Soil Cracks (B6) Wetland Hydrolo Depth (inches): Surface Water Present? Yes X No Depth (inches): Surface Water Present? Surface Water Present? Yes X No Depth (inches): Surface Water Present? Surface Water Present? Yes X No Depth (inches): Surface Water Present? Surface Water Present? Surface Water Present? Yes X No Depth (inches): Surface Water Present? Surface Water Present? Yes X No Depth (inches): Surface Water Present? Surface Water Present? Yes X No Depth (inches): Surface Vater Present? Yes X No	Water Marks (B1) (Riverine)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Water Present? Yes X No Depth (inches): Surface Present? Yes X No Depth (inches): Surface Soil Cracks? Yes X No Depth (inches): Surface Soil Cracks? Yes X No Depth (inches): Surface Soil Cracks? Wetland Hydrolo includes capillary fringe)	Sediment Deposits (B2) (Riverine)
Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Claudia Deposits (B3) (Nonriverine) Thin Muck Surface (C7) Other (Explain in Remarks) Eld Observations: For a surface Water Present? For a surface Water Prese	Drift Deposits (B3) (Riverine)
Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Claudia Deposits (B3) (Nonriverine) Thin Muck Surface (C7) Other (Explain in Remarks) Eld Observations: For a surface Water Present? For a surface Water Prese	Drainage Patterns (B10)
Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) C Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Thin Muck Surface (C7) Other (Explain in Remarks) Steld Observations: Urface Water Present? Yes X No Depth (inches): Surface Present? Yes X No Depth (inches): Surface Vater Table Present? Yes X No Depth (inches): Surface Vater Table Present? Surface Vater Table Present? Surface Vater Present? Yes X No Depth (inches): Surface Vater Table Present? Surface Vater Present? Yes X No Depth (inches): Surface Vater Present? Surface Vater Present? Yes X No Depth (inches): Surface Vater Present? Surface Vater Present? Yes X No Depth (inches): Surface Vater Present? Surface Vater Present? Yes X No Depth (inches): Surface Vater Present? Surface Vater Present? Yes X No Depth (inches): Surface Vater Present? Surface Vater Present? Yes X No Depth (inches): Surface Vater Present? Surface Vater Present? Yes X No Depth (inches): Surface Vater Present? Surface Vater Present? Yes X No Depth (inches): Surface Vater Pr	Dry-Season Water Table (C2)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Other (Explain in Remarks) Eld Observations: Jurface Water Present? Yes X No Depth (inches): Jaturation Present?	
Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Other (Explain in Remarks) X eld Observations: urface Water Present? Yes X No Depth (inches): atter Table Present? Yes X No Depth (inches): atturation Present?	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Other (Explain in Remarks) A eld Observations: urface Water Present? Yes X No Depth (inches): 3 atter Table Present? Yes No X Depth (inches): 4 atturation Present? Yes X No Depth (inches): 18 Wetland Hydrolo noludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Visible on Aerial Imagery (C9
eld Observations: urface Water Present? Yes X No Depth (inches): 3 ater Table Present? Yes No X Depth (inches): 4 aturation Present? Yes X No Depth (inches): 18 wetland Hydrolo includes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Shallow Aquitard (D3)
urface Water Present? Yes X No Depth (inches): 3 ater Table Present? Yes No X Depth (inches): Wetland Hydrolo includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	FAC-Neutral Test (D5)
ater Table Present? Yes No X Depth (inches): aturation Present? Yes X No Depth (inches): 18 Wetland Hydrolo includes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
aturation Present? Yes X No Depth (inches): 18 Wetland Hydrolo includes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	gy Present? Yes X No
	 ·
emarks:	

Project/Site: Yolo 80 Corridor Imp	provement Project		City/County	/:	Yolo	Sam	npling Date:	. 01/	08/2021
Applicant/Owner:		Trans	Oity/ Oourity	/·	Yolo State:	CA Sam	npling Point		
	reer; J. Holson		Section. To	wnship. Range:		T8N R3E		·	10
Landform (hillslope, terrace, etc):					ex, none):			Slope (%): 1
		Lat:	38.564	473956	Long:				
Soil Map Unit Name:	Sacram	ento soils, flo			NWI				
Are climatic / hydrologic conditions on the	e site typical for this tim				(If no, explain	in Remarks.)			
Are Vegetation N, Soil N					Normal Circumstan		Yes	X 1	No
Are Vegetation N, Soil N					eded, explain any a	answers in Rem			
SUMMARY OF FINDINGS - Atta	ach site map show	wing samp	oling poi	nt locations	, transects, im	portant feat	ures, etc	; .	
Hydrophytic Vegetation Present?	Yes I					-			
Hydric Soil Present?	Yes			s the Sampled	Area				
Wetland Hydrology Present?		No X	· \	within a Wetlan		/es	No X		
			-			·			
Remarks:									
VEGETATION - Use scientific n	names of plants.								
					Dominanco To	est worksheet:			
					Number of Dor				
		Absolute	Dominan	t Indicator		FACW, or FAC:		0	(A)
Tree Stratum (Plot size: 0)	% Cover	Species?	Status	mat Aic Obe,	TAOW, OF TAO.			_ (^)
1					Total Number of	of Dominant			
2					Species Across			2	(B)
3					'			-	_ ` '
4					Percent of Don	ninant Species			
		0	_ = Total C	over		FACW, or FAC:		0.0	(A/B)
Sapling/Shrub Stratum (Plot size:						•			_ ` ´
1.						dex worksheet	:		
2.					Total % C			Itiply by:	
3.					OBL species				
4.		_			FACW species		_ x 2 =		
5		0	= Total C	over	FAC species	17	_ x3=	51	
Herb Stratum (Plot size: 5 ft rad	diue \		_ = 10tal C	ovei	FACU species		_ x 4 =	120	
1. Medicago polymorpha / California b		30	Yes	FACU	UPL species Column Totals:	<u>20</u> 68	_ x 5 =	100 273	(D)
Avena fatua / Wildoats, Wild oat	- di Olovei	20	Yes	UPL	Column Totals.	0	_ (A)	213	(B)
3. Distichlis spicata / Salt grass		10	No	FAC	Prevalen	ce Index = B/A	_	4.01	
Xanthium strumarium / Cocklebur			No	FAC	Fievalen	ce index = b/A		4.01	
5. Picris echioides / Bristly oxtongue			No	FAC	Hydrophytic V	egetation Indic	cators:		
6. Grindelia stricta / Gumweed		1	No	FACW	Dominand	e Test is >50%			
7.					Prevalenc	e Index ≤3.0¹			
8.						gical Adaptation:			-
_		68	= Total C	over	Problemat	ic Hydrophytic \	legetation¹	(Explain))
Woody Vine Stratum (Plot size:	0)								
1					¹ Indicators of h	ydric soil and w	etland hydr	ology mu	st
2					be present, unl	ess disturbed o	r problemat	ic.	
		0	_ = Total C	over	Hydrophytic				
% Bare Ground in Herb Stratum	% Cov	er of Biotic Cı	rust		Vegetation				
					Present?	Yes	No	X	
									•
Remarks:									

	ription: (Describe to t	he depth need		he indicato	r or confirm	the abser	nce of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	% realures	Typo1	Loc²	Texture	Remarks
0-12			Color (moist)	70	Type ¹	LOC-		Remarks
0-12	10YR 4/2	100					Clay	
							- <u></u>	
	<u> </u>			_				
							<u></u>	
¹Type: C=Co	ncentration, D=Depletio	on, RM=Reduce	ed Matrix, CS=Cov	ered or Coat	ted Sand Gra	ains.	²Locatio	n: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applicable	e to all LRRs,	unless otherwise	noted.)			Indicators fo	or Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Re	dox (S5)			1 cm	Muck (A9) (LRR C)
Histic E	oipedon (A2)		Stripped M	latrix (S6)			2 cm	Muck (A10) (LRR B)
Black Hi	stic (A3)		Loamy Mu	icky Mineral	(F1) (except	MLRA 1)	Redu	uced Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle	eyed Matrix ((F2)		Red	Parent Material (TF2)
	d Layers (A5) (LRR C)			Matrix (F3)	` ,			er (Explain in Remarks)
	ıck (A9) (LRR D)			rk Surface (F	- 6)			,
	d Below Dark Surface (A11)		Dark Surface				
	ark Surface (A12)	, ,		pressions (F			3Indicator	s of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Po		0)			ydrology must be present,
	• , ,		vernai Foo)IS (F9)				disturbed or problematic.
Sandy G	Gleyed Matrix (S4)						uniess	disturbed or problematic.
Restrictive L	ayer (if present):							
Type:			<u></u>					
Depth (in	ches):						Hydric Soil Pres	sent? Yes NoX
HYDROLOG								
-	Irology Indicators:							
	ators (minimum of one	required: chec						y Indicators (2 or more required)
	Water (A1)		Salt Crust					er Marks (B1) (Riverine)
	iter Table (A2)		Biotic Crus	st (B12)				ment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic In	vertebrates ((B13)		Drift	Deposits (B3) (Riverine)
Water M	larks (B1) (Nonriverine	e)	Hydrogen	Sulfide Odo	r (C1)		Drair	nage Patterns (B10)
Sedimer	nt Deposits (B2) (Nonr	iverine)	Oxidized F	Rhizosphere	s along Livin	g Roots (C	(3) Dry-	Season Water Table (C2)
Drift De	oosits (B3) (Nonriverii	ne)	Presence	of Reduced	Iron (C4)		Cray	fish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reduction	in Tilled Soi	ls (C6)	Satu	ration Visible on Aerial Imagery (C9)
Inundati	on Visible on Aerial Ima	agery (B7)	Thin Muck	Surface (C7	7)		Shal	low Aquitard (D3)
Surface	Soil Cracks (B6)		Other (Exp	olain in Rema	arks)		FAC-	-Neutral Test (D5)
Field Observ	vations:							
		os No	V Donth (in	abaa).	2			
Surface Water			X Depth (in	· —	<u> </u>			
Water Table I		'es No		· —	10	18/-41	nd Uselesia D	nent2 Voc No.
Saturation Pr		es No	X Depth (ir	icnes):	18	vvetla	nd Hydrology Pre	sent? Yes NoX
(includes cap	illary fringe)							
Describe Red	corded Data (stream ga	uge, monitorin	g well, aerial photo	s, previous i	nspections),	if available	e :	
Remarks:								

Project/Site: Yolo 80 Corridor Improvei	ment Project	(City/County	r:	Yolo	Sar	npling Date:	01/	08/2021
Applicant/Owner:	CalTı						npling Point:	:	16
Investigator(s): S. Creer;	J. Holson		Section, To	wnship, Range:			E SN03		
Landform (hillslope, terrace, etc):		I			ex, none):				
Subregion (LRR): C		_ Lat:			Long:		Dat	um:	WGS84
Soil Map Unit Name:		nto soils, flo				classification:			
Are climatic / hydrologic conditions on the site	typical for this time	of year? `	Yes X	No	(If no, explain		.,		
	ydrology N	significantly	disturbed?	Are "I	Normal Circumsta	•		<u>X</u> 1	No
					eded, explain any		•		
SUMMARY OF FINDINGS - Attach s				nt locations	, transects, in	iportant rea	tures, etc	<u> </u>	
Hydrophytic Vegetation Present?		0							
Hydric Soil Present?	Yes X N	0	. '	s the Sampled		., .,			
Wetland Hydrology Present?	Yes X N	0	. \	within a Wetlan	d?	Yes X	No		
Remarks: In a flat-bottomed excavated co	, ,,								
VEGETATION - Use scientific name	s of plants.				1				
					Dominance T	est worksheet:			
		Absolute	Dominan	t Indicator		minant Species			
Tree Stratum (Plot size: 0)	% Cover	Species?		That Are OBL	, FACW, or FAC	:	2	(A)
1.		70 0010.	<u></u>						
2.					Total Number			0	(D)
3.					Species Acros	ss All Strata:	-	2	(B)
4.					Percent of Do	minant Species			
		0	_ = Total C	over		, FACW, or FAC	. 1	100.0	(A/B)
Sapling/Shrub Stratum (Plot size:	0)								_ (,,,,,
1					Prevalence In	ndex workshee	t:		
2.					Total % 0	Cover of:	Mul	tiply by:	
3.					OBL species	25	_ x 1 =	25	
4					FACW species		_ x 2 =	0	
5		0	= Total C	over.	FAC species	5	_ x 3 =	15	
Herb Stratum (Plot size: 5 ft radius)		_ = 10tal C	ovei	FACU species UPL species	0 2	_ x 4 =	0	
Typha latifolia / Broadleaf cattail, Broad-leaf	/ eaved cattail	15	Yes	OBL	Column Totals		_ x 5 = (A)	10 50	(B)
Schoenoplectus acutus / Hardstem bulrus		10	Yes	OBL	Column Totals	5	_ (^)		(D)
3. Xanthium strumarium / Cocklebur		5	No	FAC	Prevale	nce Index = B/A	=	1.56	
4. Trifolium subterraneum / Subterranean cl	over	2	No	UPL					
5.					Hydrophytic '	Vegetation Indi	cators:		
6						ce Test is >50%			
7						ce Index ≤3.0¹			
8			_		· ·	gical Adaptation	•		U
		32	_ = Total C	over	Problema	atic Hydrophytic	vegetation'	(Explain))
Woody Vine Stratum (Plot size:					1Indicators of I	hydric soil and w	otland bydr	ology mu	ıct
1.						nless disturbed o			151
2			= Total C	over.	be present, ur	iless distalbed t	n problemati	<u> </u>	
% Bare Ground in Herb Stratum 10	% Cover	of Biotic Cr	_		Hydrophytic				
70 Bare Gradia III Field Gradaiii 10		or Blotto Or			Vegetation				
					Present?	Yes	X No		<u>-</u>
Remarks:					1				
itematrs.									

Depth Matrix Redox Features	emarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Thick Datrick (A3) (LRR C) Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Thick Datrick (A3) (LRR C) Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Thick Datrick (A3) (LRR C) Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Matrix, CS=Covered Matrix,	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **I-Location: PL=Pore Limity ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Indicators: (A)	
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRI Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRI Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRI Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRI Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 0 ther (Explain in Rei 1 cm Muck (A8) (LRR D) X Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) X Redox Depressions (F8) 3 indicators of hydrophytic Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology must b sandy Gleyed Matrix (S4) unless disturbed or pro- strictive Layer (if present): Type: Depth (inches):	
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRI Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRI Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Reduced Vertic (F18 Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Rei 1 cm Muck (A9) (LRR D) X Redox Dark Surface (F7) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) X Redox Depressions (F8) Andicators of hydrophytic Sandy Mucky Mineral (S1) Wernal Pools (F9) Wetland Hydrology must be unless disturbed or processor (F8) FROLOGY **ROLOGY** **ROLOGY** **ROLOGY** **ROLOGY** **Indicators (minimum of one required: check all that apply) Surface Water (A1) X Salt Crust (B11) Water Marks (B1) (R High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B3) (Nonriverine) **Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (E Saltration (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C1) Surface Soil Cracks (B6) Thin Muck Surface (C7) Shallow Aquitard (D3 Surface Soil Cracks (B6) Other (Explain in Remarks) X FAC-Neutral Test (D3 **Moter Mater Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes under Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes under Present? Yes Under Present? Yes Depth (inches): Wetland Hydrology Present? Yes under Present? Yes Depth (inches): Wetland Hydrology Present? Yes under Present? Yes Under Present? Yes Depth (inches): Wetland Hydrology Present? Yes under Present? Yes Depth (inches): Wetland Hydrology Present? Yes under Present? Yes under Present? Yes Depth (inches): Wetland Hydrology Present? Yes under Pres	
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRI Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRI Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRI Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRI Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Reduced Vertic (F18 Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Rei 1 cm Muck (A9) (LRR D) X Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) X Redox Depressions (F8) Andicators of hydrophytic Sandy Mucky Mineral (S1) Wernal Pools (F9) Wetland Hydrology must be unless disturbed or proceed on the strictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes Marks: Ox rhizosphere at 5% DROLOGY Patrictive Water (A1) X Salt Crust (B11) Secondary Indicators (2 of the proceeding of the pro	
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRI Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRI Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRI Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRI Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Reduced Vertic (F18 Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Rei 1 cm Muck (A9) (LRR D) X Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) X Redox Depressions (F8) Andicators of hydrophytic Sandy Mucky Mineral (S1) Wernal Pools (F9) Wetland Hydrology must be unless disturbed or processor (F8) Strictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes Water Marks (B1) (Nonriverine) X Salt Crust (B11) Water Table (A2) Sediment Deposits (B3) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (E Sulface Soil Cracks (B6) Hydrology (B7) Surface Soil Cracks (B6) This Muck Surface (C7) Shallow Aquitard (D2 Surface Soil Cracks (B6) This Muck Surface (C7) Shallow Aquitard (D3 Surface Soil Cracks (B6) Other (Explain in Remarks) X FAC-Neutral Test (D3 Hother Table (Present? Yes No X Depth (inches): Lutation Present? Yes No X Depth (inches)	
rdric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) It om Muck (A9) (LRI Histosol (A2) Stripped Matrix (S6) Black Histo (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Reduced Vertic (F18 Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (F1) (except MLRA 1) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Secondary Indicators of hydrophytic unless disturbed or processor (F8) Surface Water (If present): Type: Depth (inches): Surface Water (A1) High Water Table (A2) Salutation (A3) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Drainage Patterns (E Sediment Deposits (B3) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (E Sediment Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Surface Soil Cracks (B6) Other (Explain in Remarks) Wetland Hydrology Present? Yes No X Depth (inches): Hutration Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes Wetland Hydrology Present? Yes No X Depth (inches): Hurdroon Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes Wetland Hydrology Present? Yes No X Depth (inches): Hurdroon Present? Yes No X Depth (inches): Hurdroon Present? Yes No X Depth (inches): Hurdroon Present? Yes No X Depth (inches):	
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Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Reduced Vertic (F18 Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Depleted Matrix (F3) Other (Explain in Rei Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Rei Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gieyed Matrix (S4) Wernal Pools (F9) Wetland Hydrology must bunless disturbed or pro Strictive Layer (if present): Type: Depth (inches): Water Marks (B1) High Water Table (A2) Surface Water (A1) Surface Water (A1) High Water Table (A2) Saturation (A3) Sutartion (A3) Sutartion (A3) Sutartion (A3) Suffice Water (A1) Surface Water (A1) Surface Water (A1) High Water Table (A2) Suffice Water (A1) Surface Water (A1) Sediment Deposits (B3) (Donriverine) Surface Water (A1) Surface Soil Cracks (B6) Chort (Explain in Remarks) Surface Soil Cracks (B6) Other (Explain in Remarks) Surface Soil Cracks (B6) Vetland Hydrology Present? Yes Wetland Hydrology Present? Yes	-
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 Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Surface Layer (if present): Type: Depth (inches): Depth (inches): Depth (inches): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Seturation (A3) Water Marks (B1) (Nonriverine) Depth (B3) (Nonriverine) Seturation (B3) (Nonriverine) Depth (B3) (Nonriverine) Seturation (B4) (Nonriverine) Seturation (B5) (Nonriverine) Seturation (B4) (Nonriverine) Seturation (B4) (Nonriverine) Seturation (B4) (Nonriverine) Seturation (B5) (Nonriverine) Seturation (B4) (Nonriverine) Seturation (B5) (Nonriverine) Seturation (B4) (Nonriverine) Seturation (B4) (Nonriverine) Seturation (B5) (Nonriverine) Seturation (B7) (Nonriverine) Seturation (B7) (Nonriverine) Seturation (B7) (Nonriverine)	,
Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology must be unless disturbed or prostrictive Layer (if present): Type:	
Sandy Gleyed Matrix (S4) unless disturbed or prosenticitive Layer (if present): Type:	vegetation and
Strictive Layer (if present): Type: Depth (inches): DROLOGY Striand Hydrology Indicators: mary Indicators (minimum of one required: check all that apply) Surface Water (A1) Surface Water (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) Saturation (A3) Drift Deposits (B3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) Saturation (A3) Drift Deposits (B3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) Sediment Deposits (B3) Drift Deposits (B3) Water Marks (B1) (Nonriverine) Sediment Deposits (B3) Drift Deposits (B3) Water Marks (B1) (Nonriverine) Sediment Deposits (B3) Drift Deposits (B3) Drift Deposits (B3) Drift Deposits (B3) Drift Deposits (B3) Fresence of Reduced Iron (C4) Drainage Patterns (E Sediment Deposits (B3) Drift Deposits (B3) Drift Deposits (B3) Dry-Season Water Till Depos	
Type:	oblematic.
PROLOGY **Ranks:** Ox rhizosphere at 5% **PROLOGY** **Rand Hydrology Indicators:** mary Indicators (minimum of one required: check all that apply) Surface Water (A1) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (R High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Sediment Deposits (B3) (Nonriverine) For iff Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Sediment Deposits (B3) (Nonriverine) For iff Deposits (B3) (Nonriverine) Sediment Deposits (B3) (Nonriverine) For iff Deposits (B3) (Nonriverine) Sediment Deposits (B3) (Nonriverine) For iff Deposits (B3) (Nonriverine) Sediment Deposits (B3) (Nonriverine) For iff Deposits (B3) (Nonriverine) For	
PROLOGY Interest State	
Ox rhizosphere at 5% DROLOGY Detand Hydrology Indicators: mary Indicators (minimum of one required: check all that apply) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Water Marks (B1) (R Saturation (A3) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Fresence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Water Present? Yes No X Depth (inches): Setiment Deposits (Wetland Hydrology Present? Wetland Hydrology Present? Yes	s <u>X</u> No
Surface Water (A1)	
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B3) (Prift Deposits (Pri	or more required)
Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Dry-Season Water Table Note (C4) Explain in Tilled Soils (C6) Thin Muck Surface (C7) Shallow Aquitard (D3) Staturation Visible on Aerial Imagery (B7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Shallow Aquitard (D3) Staturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes	₹iverine)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Water Present? Yes No X Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Tay Crayfish Burrows (C6) X Saturation Visible on Recent Iron Reduction in Tilled Soils (C6) X Saturation Visible on Shallow Aquitard (D3) Surface Soil Cracks (B6) Other (Explain in Remarks) X FAC-Neutral Test (D5) Seld Observations: Interval Test (D5) Wetland Hydrology Present? Yes No X Depth (inches): Universely Wetland Hydrology Present? Yes Wetland Hydrology Present? Yes	
Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Other (Explain in Remarks) Tace Water Present? Yes No X Depth (inches): Surface Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) X Saturation Visible on Shallow Aquitard (D3 Shallow Aquitard (D3 FAC-Neutral Test (D3 Surface Water Present? Yes No X Depth (inches): Starration Present? Yes No X Depth (inches): Surface Water Present? Yes	
Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Shallow Aquitard (D3 Shallow Aquitard (D3 Shallow Aquitard (D3 Surface Soil Cracks (B6)) Peld Observations: If ace Water Present? Yes No X Depth (inches): Ituration Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Thin Muck Surface (C7) Surface Soil Cracks (B6) Other (Explain in Remarks) A FAC-Neutral Test (Defended Water Present? Surface Water Pre	, ,
Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Other (Explain in Remarks) Thin Muck Surface (C7) Other (Explain in Remarks) X FAC-Neutral Test (D5) Find Observations: Inface Water Present? Yes No X Depth (inches): Inturation Present? Yes No X Depth (inches): Inturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes	
Surface Soil Cracks (B6) Other (Explain in Remarks) X FAC-Neutral Test (Descriptions: Inface Water Present? Yes No X Depth (inches): Inturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes	
Pold Observations: Yes No X Depth (inches): Depth (inches): Depth (inches): Depth (inches): Wetland Hydrology Present? Yes	*
ater Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes	,
turation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes	
cludes capillary fringe)	s <u>X</u> No
scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
marks:	

Project/Site: Yolo 80 Corridor	Improvement Project		City/County	<i>1</i> ·	Volo	Sa	mnling Date:	01/0	8/2021
Applicant/Owner:	CalTi	rans	Oity/Oourity	y	Yolo State:	CA Sa	mpling Point	01/0	17
	S. Creer; J. Holson		Section, To	wnship, Range:		T8N R	3E SN03		
Landform (hillslope, terrace, etc):	Valley bottom		Local relief	(concave, conve	ex, none):	Flat		Slope (%	%): 0
Subregion (LRR):	С	Lat:	38.56	666019	Long: -	121.62471144	Datu	ım: <u>V</u>	NGS84
Soil Map Unit Name:	Sacrame	nto soils, flo	oded		NWI	classification:			
Are climatic / hydrologic conditions o	n the site typical for this time	of year? `	Yes X	No	(If no, explain	n in Remarks.)			
Are Vegetation N, Soil N	, or Hydrology N	significantly	disturbed?	Are "I	Normal Circumsta			<u>X</u> N	10
Are Vegetation N, Soil N					eded, explain any		•		
SUMMARY OF FINDINGS - A	Attach site map show	ing samp	oling poi	nt locations,	, transects, in	nportant fea	itures, etc.		
Hydrophytic Vegetation Present?									
Hydric Soil Present?	Yes N	o <u>X</u>	. '	ls the Sampled					
Wetland Hydrology Present?	Yes N	o <u>X</u>	. '	within a Wetland	d?	Yes	No X		
Remarks: In a flat-bottomed exc	,		•						
VEGETATION - Use scientif	ic names of plants.								
					Dominance T	est worksheet	:		
		Absolute	Dominan	nt Indicator		minant Species			
Tree Stratum (Plot size:	0)		Species?		That Are OBL	, FACW, or FAC	D:	0	_ (A)
1.					T-4-1 November	of Dominout			
2.					Total Number Species Acros			2	(B)
3.					Species Acios	ss All Ottata.			_ (D)
1			_		Percent of Do	minant Species	;		
		0	_ = Total C	over		, FACW, or FAC		0.0	(A/B)
Sapling/Shrub Stratum (Plot siz									_ ` ′
1						ndex workshee			
3.					-	Cover of:		iply by:	
					OBL species FACW species	-	x 1 = x 2 =		
_		-,			FAC species	0	x2=		
		0	= Total C	over	FACU species	-	x 4 =	8	
Herb Stratum (Plot size: 5 f	t radius)		_		UPL species	48	x 5 =		
1. Avena fatua / Wildoats, Wild oa	t	30	Yes	UPL	Column Totals	s: 50	(A)	248	(B)
2. Carduus pycnocephalus / Italia		10	Yes	UPL					
3. Trifolium subterraneum / Subte		5	No	UPL	Prevaler	nce Index = B/A	A =	1.96	
4. Silybum marianum / Milk thistle		3	No No	UPL	Uvdronbytic '	Vegetation Ind	liantara		
 Oenothera biennis / Small flowe 6. 	ered evening primrose, Comi	mon evæning	g-primn sis e	FACU		ce Test is >50%			
_			_			ce Index ≤3.0¹	v		
8.			_			gical Adaptatio	ns¹ (Provide s	upportin	g
		50	= Total C	over	Problema	atic Hydrophytic	Vegetation¹ (Explain)	
Woody Vine Stratum (Plot size:)		_						
1			_			hydric soil and	-		st
2					be present, ur	nless disturbed	or problemation	> .	
		0	_ = Total C		Hydrophytic				
% Bare Ground in Herb Stratum _	5 % Cover	r of Biotic Cr	rust		Vegetation				
					Present?	Yes	No No	Х	
Remarks:									

	ription: (Describe to the	ne depth needed			or confirm	the abser	nce of indicators	.)
Depth	Matrix			Features	T 1	1 - 2	T	D
(inches)	Color (moist)		Color (moist)		Type ¹	Loc²	Texture	Remarks
0-12	10YR 4/1	100	10B 4/1		C		Clay	
	-							
	<u></u>							
¹Type: C=Co	ncentration, D=Depletio	n, RM=Reduced I	Matrix, CS=Cove	red or Coate	ed Sand Gra	ins.	²Locati	on: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applicable	to all LRRs, unl	ess otherwise n	oted.)			Indicators	for Problematic Hydric Soils³:
Histosol	(A1)		Sandy Red	ox (S5)			1 cr	m Muck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped Ma	atrix (S6)			2 cr	m Muck (A10) (LRR B)
Black Hi	istic (A3)		Loamy Muc	ky Mineral (F1) (except	MLRA 1)	Red	duced Vertic (F18)
— Hydroge	en Sulfide (A4)		Loamy Gley	yed Matrix (F	-2)		Red	l Parent Material (TF2)
Stratified	d Layers (A5) (LRR C)		Depleted M	atrix (F3)			Oth	er (Explain in Remarks)
	uck (A9) (LRR D)			Surface (F	6)			•
	d Below Dark Surface (A11)		ark Surface	•			
	ark Surface (A12)	,		ressions (F8	, ,		3Indicato	rs of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Pool		,			hydrology must be present,
	Gleyed Matrix (S4)			,				s disturbed or problematic.
							umoo	o distansed of problemade.
Restrictive L Type:	_ayer (if present):							
Depth (in	ichee).		-				Hydric Soil Pre	esent? Yes No X
Deptii (iii			=				Tiyane John R	esent? Yes No X
HYDROLOG								
-	drology Indicators:							
	ators (minimum of one	required: check a						ary Indicators (2 or more required)
	Water (A1)		Salt Crust (,				ter Marks (B1) (Riverine)
	ater Table (A2)		Biotic Crust					liment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic Inv	ertebrates (E	313)		Drif	t Deposits (B3) (Riverine)
Water M	larks (B1) (Nonriverine)	Hydrogen S	Sulfide Odor	(C1)		Dra	inage Patterns (B10)
Sedimer	nt Deposits (B2) (Nonri	verine)	Oxidized RI	hizospheres	along Living	g Roots (C	(3) Dry	-Season Water Table (C2)
Drift De	posits (B3) (Nonriverin	ie)	Presence o	f Reduced Ir	on (C4)		Cra	yfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iron	Reduction i	n Tilled Soil	s (C6)	Sat	uration Visible on Aerial Imagery (C9)
Inundati	on Visible on Aerial Ima	gery (B7)	Thin Muck	Surface (C7))		Sha	allow Aquitard (D3)
Surface	Soil Cracks (B6)		Other (Expl	ain in Rema	rks)		FAC	C-Neutral Test (D5)
Field Observ	vations:							
Surface Water		es No	Y Depth (inc	shee).				
Water Table I		es No es No	X Depth (inc	· -				
Saturation Pr				· -		Motio	nd Hydrology P-	neant? Ves No V
		es No	X Depth (inc	л <i>і</i> сэ).		vvetia	nd Hydrology Pr	esent? Yes No X
(includes cap	oillary fringe)							
Describe Red	corded Data (stream ga	uge, monitoring w	ell, aerial photos	, previous in	spections), i	if available	 _	
Remarks:								

Project/Site: Yolo 80 Corridor Ir	nprovement Project		Citv/Coun	tv:		Yolo		Samr	oling Date:	01/0	8/2021
Applicant/Owner:	CalT	rans	. ,	′ —		State:	CA	_ · Samr	oling Point:		18
Investigator(s): S.	Creer; J. Holson		Section, T	ownship				8N R3E			
Landform (hillslope, terrace, etc):	Valley bottom					, none):		-lat		Slope (9	%): 0
Subregion (LRR):	С	Lat:				_ong:				um: V	
Soil Map Unit Name:	Willows soils, overwash, 0	percent slo	pes, frequ	ently floo	oded	N	IWI classifica	ition:			
Are climatic / hydrologic conditions on					No	_ (If no, exp	lain in Rema	rks.)			
Are Vegetation N, Soil N						rmal Circum	-			X N	lo
Are Vegetation N, Soil N	_, or HydrologyNı	naturally pr	oblematic?	'	(If need	led, explain a	any answers	in Rema	rks.)		
SUMMARY OF FINDINGS - At	tach site map show	ing sam	pling po	int loc	cations, t	ransects,	importan	t featu	ıres, etc		
Hydrophytic Vegetation Present?	Yes N	o X									
Hydric Soil Present?	Yes N			Is the S	Sampled A	rea					
Wetland Hydrology Present?	Yes N	o X		within	a Wetland?	?	Yes		No X		
Remarks:			<u> </u>								
VEGETATION - Use scientific	names of plants.										
						Dominanc	e Test work	sheet:			
		۸ ام ما را د	Damina		dianto	Number of	Dominant Sp	pecies			
Tree Stratum (Plot size:	n \	Absolute % Cover			dicator atus	That Are O	BL, FACW, o	or FAC:		0	(A)
1.)	76 COVE	Species	91 316	alus						
		-					per of Domina				
3.						Species Ac	cross All Stra	ta:		1	_ (B)
4.						5 , (D : 10				
			= Total (Cover			Dominant Sp			0.0	(A (D)
Sapling/Shrub Stratum (Plot size:	0)					That Are O	BL, FACW, o	or FAC:		0.0	_ (A/B)
1.						Prevalence	e Index worl	ksheet:			
2.							% Cover of:		Mul	tiply by:	
3.						OBL specie		0	x 1 =	0	
4						FACW spe	cies	0	x 2 =	0	
5						FAC specie	es	0	x 3 =	0	
		0	= Total (Cover		FACU spec	cies	0	x 4 =	0	
	adius)					UPL specie	es	80	x 5 =	400	
Avena fatua / Wildoats, Wild oat		80	Yes Yes		UPL	Column To	tals:	80	(A)	400	(B)
2.											
3.						Preva	alence Index	= B/A =		5.0	
4		- -				Hydronhyt	tic Vegetatio	n Indic:	ators:		
							nance Test is		11013.		
							lence Index				
7. 8.						Morph	ological Ada	ptations1	1 (Provide	supportin	g
·		80	= Total (Cover			ematic Hydro				
Woody Vine Stratum (Plot size:	0)										
1.						¹ Indicators	of hydric soi	and we	tland hydro	ology mus	st
2.						be present	, unless distu	ırbed or	problemati	C.	
		0	= Total (Cover		He release to the					
% Bare Ground in Herb Stratum	20 % Cover	r of Biotic C	Crust			Hydrophyt Vegetation					
						Present?		∕es <u>></u>	κ No		
						i resent:					
Remarks:											

	ription: (Describe to the	ne depth needed			or confirm	the abser	nce of indicators	.)
Depth	Matrix			Features	- :		.	
(inches)	Color (moist)		Color (moist)	<u></u> %	Type ¹	Loc²	Texture	Remarks
0-12	10YR 4/3	98	5YR 5/8	2	<u> </u>	M	Clay	
			_					
	-							
¹Type: C=Co	ncentration, D=Depletio	n, RM=Reduced	Matrix, CS=Cove	red or Coate	ed Sand Gra	ins.	²Locati	ion: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applicable	to all LRRs, un	ess otherwise n	oted.)			Indicators	for Problematic Hydric Soils³:
Histosol	(A1)		Sandy Redo	ox (S5)			1 ci	m Muck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped Ma	atrix (S6)			2 cı	m Muck (A10) (LRR B)
	istic (A3)				F1) (except	MI RA 1)		duced Vertic (F18)
	en Sulfide (A4)		Loamy Gley	•		,		d Parent Material (TF2)
	d Layers (A5) (LRR C)		Depleted M	,	-)			ner (Explain in Remarks)
	uck (A9) (LRR D)				6)		Ou	ici (Explaiii iii ixeiliaiks)
	` , ` ,	۸ 1 1)	Redox Dark	•	•			
	d Below Dark Surface (A	411)	Depleted Da		. ,		a	
	ark Surface (A12)		Redox Depi		3)			ors of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Pool	s (F9)				hydrology must be present,
Sandy C	Gleyed Matrix (S4)						unles	ss disturbed or problematic.
Restrictive L	_ayer (if present):							
Type:			_					
Depth (in	nches):		_				Hydric Soil Pro	esent? Yes NoX
HYDROLOG Wetland Hyd	Grology Indicators:							
-	••	an and an all all and a	II 41 4 1 \				0	(O
	cators (minimum of one	required: check a		D44)				ary Indicators (2 or more required)
	Water (A1)		Salt Crust (I	,				ter Marks (B1) (Riverine)
	ater Table (A2)		Biotic Crust					diment Deposits (B2) (Riverine)
Saturation	` '		Aquatic Inve	,	,			ft Deposits (B3) (Riverine)
	larks (B1) (Nonriverine	-	Hydrogen S		` '			inage Patterns (B10)
Sedimer	nt Deposits (B2) (Nonri	verine)	Oxidized Rh	nizospheres	along Living	g Roots (C	(3) Dry	-Season Water Table (C2)
Drift De	posits (B3) (Nonriverin	ie)	Presence of	f Reduced I	ron (C4)		Cra	yfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iron	Reduction	in Tilled Soil	ls (C6)	Sat	uration Visible on Aerial Imagery (C9)
Inundati	on Visible on Aerial Ima	gery (B7)	Thin Muck S	Surface (C7))		Sha	allow Aquitard (D3)
Surface	Soil Cracks (B6)		Other (Expl	ain in Rema	ırks)		FA0	C-Neutral Test (D5)
Field Observ	vations:							
Surface Water		es No	X Depth (inc	hee).				
Water Table I		es No	X Depth (inc	· -				
				· -		Motio	nd Uvdrology Dr	ecent? Voc No V
Saturation Pr		es No	X Depth (inc	es).	-	vvetia	nd Hydrology Pr	esent? Yes No X
(includes cap	oillary fringe)							
Describe Red	corded Data (stream ga	uge, monitoring w	ell, aerial photos,	previous in	spections), i	if available	e :	
Remarks:								

Project/Site: Yolo 80 Corrid	dor Improvement Project		City/Count	:y:		Yolo	Sa	ampling Date	e: 01/	08/2021
Applicant/Owner:	CalT	rans	•					ampling Poin		19
Investigator(s):	S. Creer; J. Holson		Section, To	ownship, R	ange:			3E SN02		
Landform (hillslope, terrace, etc):	Valley bottom		Local relie	f (concave	, convex, no	one):	Flat		Slope	(%): 0
Subregion (LRR):	С	Lat:	38.56	916165	Lon		121.60913993	Da	itum:	WGS84
Soil Map Unit Name:							classification:			
Are climatic / hydrologic conditions						(If no, explain	n in Remarks.)			
	N , or Hydrology N	significantly	disturbed?	?			nces" present?	_	X	No
Are Vegetation N, Soil	N , or Hydrology N	naturally pro	oblematic?		(If needed	, explain any	answers in Re	marks.)		
SUMMARY OF FINDINGS	- Attach site map show	ing sam	pling po	int locat	ions, tra	nsects, im	nportant fea	atures, etc	C	
Hydrophytic Vegetation Present	? Yes X N	lo								
Hydric Soil Present?		lo		Is the San	npled Area					
Wetland Hydrology Present?		lo		within a V	Vetland?	,	Yes X	No		
Remarks:										
VEGETATION - Use scien	tific names of plants.									
					0	ominance T	est workshee	t:		
		Absolute	Domina	nt Indica	N	lumber of Do	minant Specie	s		
Tree Stratum (Plot size:	0 \	% Cover	Species			hat Are OBL,	, FACW, or FA	C:	2	(A)
1.)	70 COVE	<u>opecies</u>	: Status						
2.						otal Number				
			_	· ·	— s	pecies Acros	ss All Strata:		2	(B)
		0	= Total (Cover			minant Specie		400.0	(A (D)
Sapling/Shrub Stratum (Plot	size: 10 ft rad)		_			nat Are OBL,	, FACW, or FA	U:	100.0	(A/B)
Salix exigua / Narrowleaf will	low	60	Yes	FAC	CW P	revalence In	ndex workshe	et:		
2.						Total % C			ıltiply by:	
3.						BL species	0	x 1 =	0	
1					F	ACW species	s 60	x 2 =	120	
5					F	AC species	5	x 3 =	15	
		60	_ = Total (Cover	F	ACU species	0	x 4 =	0	
	5 ft radius)					JPL species	0	x 5 =	0	
1. Xanthium strumarium / Cock	lebur	5	Yes Yes	FA	<u>C</u>	Column Totals	s: <u>65</u>	(A)	135	(B)
2.										
3						Prevaler	nce Index = B/	A =	2.08	
4						lydronhytic \	Vegetation Inc	dicatore:		
•							ce Test is >50°			
							ce Index ≤3.0¹			
7. 8.					— -		gical Adaptatio	ons¹ (Provide	supporti	na
o			= Total (Cover	-		atic Hydrophyti	,		•
Woody Vine Stratum (Plot size	ze:0)			50701	-		, , ,	3	\ 1	,
	,				1	ndicators of h	hydric soil and	wetland hyd	rology mı	ıst
2.					b	e present, un	nless disturbed	or problema	tic.	
-		0	= Total (Cover	_					
% Bare Ground in Herb Stratum	n 20 % Cove	r of Biotic C	rust			lydrophytic				
					V	egetation		V N		
					P	resent?	Yes _	X No	·	-
Remarks:										

Depth	Matrix		Redox	Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-12	10YR 4/2	85	5YR 5/8	15	<u>C</u>	M	Clay	
	-			-		-		
	-			·				
				-				
pe: C=Cor	ncentration, D=Depletion	on, RM=Redu	uced Matrix, CS=Cove	red or Coate	ed Sand Gr	ains.	²Locatio	n: PL=Pore Lining, M=Matrix.
dric Soil I	ndicators: (Applicabl	e to all LRRs	s, unless otherwise r	oted.)			Indicators for	or Problematic Hydric Soils³:
Histosol	, ,		Sandy Red	. ,				n Muck (A9) (LRR C)
_	pipedon (A2)		Stripped M					Muck (A10) (LRR B)
-	stic (A3)			cky Mineral (t MLRA 1)		uced Vertic (F18)
_	n Sulfide (A4) I Layers (A5) (LRR C)		Loamy Gle Depleted M	yed Matrix (I latrix (F3)	F2)			Parent Material (TF2) er (Explain in Remarks)
-	ick (A9) (LRR D)		X Redox Dar		6)			ci (Explain in Nemarks)
-	Below Dark Surface	(A11)		ark Surface				
Thick Da	ark Surface (A12)		X Redox Dep	ressions (F8	3)		³ Indicator	s of hydrophytic vegetation and
_	lucky Mineral (S1)		Vernal Poo	ls (F9)				ydrology must be present,
Sandy G	Sleyed Matrix (S4)						unless	s disturbed or problematic.
strictive L	ayer (if present):							
Type:								
Depth (in	ches):						Hydric Soil Pre	sent? Yes X No
	Ox rhizo at 5%						·	
DROLOG	sY							
OROLOG	SY Prology Indicators:	required; che	ack all that anniv)					ny Indicators (2 or more required)
DROLOG etland Hyd mary Indic	iY Irology Indicators: ators (minimum of one	required: che		B11)			Secondal	ry Indicators (2 or more required)
PROLOG etland Hyd mary Indic Surface	iy Irology Indicators: ators (minimum of one Water (A1)	required: che	eck all that apply) Salt Crust (Biotic Crus				Secondal Wate	er Marks (B1) (Riverine)
PROLOG etland Hyd mary Indic Surface	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2)	required: che	Salt Crust (B13)		Secondal Wate	, , , , , , , , , , , , , , , , , , , ,
DROLOG etland Hyd imary Indic Surface High Wa Saturatic Water M	irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine	e)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen \$	t (B12) ertebrates (I Sulfide Odor	(C1)		Secondal Wate Sed Drift Drai	er Marks (B1) (Riverine) Iment Deposits (B2) (Riverine) Deposits (B3) (Riverine) Inage Patterns (B10)
DROLOG etland Hyd imary Indic Surface High Wa Saturatic Water M Sedimer	irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrivering at Deposits (B2) (Nonr	e) iverine)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S X Oxidized R	t (B12) ertebrates (l Sulfide Odor hizospheres	(C1) along Livir	ng Roots (C	Secondal Wate Sed Drift Drai 3)	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) mage Patterns (B10) Season Water Table (C2)
DROLOG etland Hyd imary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep	rology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverind at Deposits (B2) (Nonriverind)	e) iverine)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S X Oxidized R Presence of	t (B12) ertebrates (I Sulfide Odor hizospheres of Reduced I	(C1) along Livir ron (C4)		Secondal Wate Sed Drift Drai 3) Dry Cray	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8)
DROLOG Stland Hyd mary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface	rology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverina th Deposits (B2) (Nonriverina sosits (B3) (Nonriverina Soil Cracks (B6)	e) iverine) ne)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen 3 X Oxidized R Presence co	t (B12) ertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction	(C1) along Livir ron (C4) in Tilled So		Secondal Wate Sed Drift Drai 3) Dry Cray Satu	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) vfish Burrows (C8) irration Visible on Aerial Imagery (C9)
PROLOG stland Hyd mary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio	rology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverind th Deposits (B2) (Nonrivering cosits (B3) (Nonrivering Soil Cracks (B6) on Visible on Aerial Im	e) iverine) ne)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S X Oxidized R Presence c Recent Iror Thin Muck	t (B12) ertebrates (I Sulfide Odor hizospheres of Reduced I o Reduction Surface (C7	(C1) salong Living ron (C4) in Tilled So		Secondal Wate Sed Drift Drai Oray Satu	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rifish Burrows (C8) irration Visible on Aerial Imagery (C9) llow Aquitard (D3)
DROLOG etland Hyd imary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic	rology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverind to Deposits (B2) (Nonriveri Sosil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6)	e) iverine) ne)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S X Oxidized R Presence c Recent Iror Thin Muck	t (B12) ertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction	(C1) salong Living ron (C4) in Tilled So		Secondal Wate Sed Drift Drai Oray Satu	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) vfish Burrows (C8) irration Visible on Aerial Imagery (C9)
DROLOG etland Hyd imary Indic Surface High Water M Sedimer Drift Dep Surface Inundatic Surface	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrivering to Deposits (B2) (Nonrivering posits (B3) (Nonrivering Soil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6)	e) iverine) ne) agery (B7)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S X Oxidized R Presence c Recent Iror Thin Muck	t (B12) ertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) salong Living ron (C4) in Tilled So		Secondal Wate Sed Drift Drai Oray Satu	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rifish Burrows (C8) irration Visible on Aerial Imagery (C9) llow Aquitard (D3)
DROLOG Stland Hyd mary Indic Surface High Water M Sedimer Drift Dep Surface Inundatic Surface	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonrivering to Deposits (B2) (Nonrivering Soil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6)	e) iverine) ne) agery (B7)	Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S X Oxidized R Presence c Recent Iror Thin Muck Other (Exp	t (B12) ertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) salong Living ron (C4) in Tilled So		Secondal Wate Sed Drift Drai Oray Satu	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rifish Burrows (C8) irration Visible on Aerial Imagery (C9) llow Aquitard (D3)
DROLOG Strand Hyd mary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Surface	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine to Deposits (B2) (Nonriveri Soil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6) retions: ar Present?	e) iverine) ne) agery (B7) /es N	Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S X Oxidized R Presence c Recent Iror Thin Muck Other (Exp	t (B12) ertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) salong Living ron (C4) in Tilled So	oils (C6)	Secondal Wate Sed Drift Drai Oray Satu	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) aration Visible on Aerial Imagery (C9) llow Aquitard (D3) -Neutral Test (D5)
DROLOG etland Hyd mary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Surface Ind Observer face Water turation Pr	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine to Deposits (B2) (Nonriveri Soil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6) retions: ar Present?	e) iverine) ne) agery (B7) /es N	Salt Crust	t (B12) ertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) salong Living ron (C4) in Tilled So	oils (C6)	Secondal Wate Sed Drift Drai 3) Cray Satu Shat X FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) aration Visible on Aerial Imagery (C9) llow Aquitard (D3) -Neutral Test (D5)
PROLOG Stland Hyd mary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Surface Ind Observer face Water turation Predudes cap	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine at Deposits (B2) (Nonriveri Soil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6) retions: ar Present?	e) iverine) ne) agery (B7) /es N /es N	Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S X Oxidized R Presence of Recent Iror Thin Muck Other (Exp	t (B12) ertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) salong Livir ron (C4) in Tilled So) arks)	wetlar	Secondal Wate Sed Drift Drai 3) Cray Satu Shat X FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) aration Visible on Aerial Imagery (C9) llow Aquitard (D3) -Neutral Test (D5)
DROLOG Stland Hyd mary Indic Surface High Water M Sedimer Drift Dep Surface Inundation Surface Inundation Surface Inturation Procludes cap	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine to Deposits (B2) (Nonriveri Soil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6) retions: ar Present?	e) iverine) ne) agery (B7) /es N /es N	Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S X Oxidized R Presence of Recent Iror Thin Muck Other (Exp	t (B12) ertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) salong Livir ron (C4) in Tilled So) arks)	wetlar	Secondal Wate Sed Drift Drai 3) Cray Satu Shat X FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) aration Visible on Aerial Imagery (C9) llow Aquitard (D3) -Neutral Test (D5)
DROLOG Stland Hyd mary Indic Surface High Water M Sedimer Drift Dep Surface Inundation Surface Inundation Surface Inturation Procludes cap	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine to Deposits (B2) (Nonriveri Soil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6) retions: ar Present?	e) iverine) ne) agery (B7) /es N /es N	Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S X Oxidized R Presence of Recent Iror Thin Muck Other (Exp	t (B12) ertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) salong Livir ron (C4) in Tilled So) arks)	wetlar	Secondal Wate Sed Drift Drai 3) Cray Satu Shat X FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) aration Visible on Aerial Imagery (C9) llow Aquitard (D3) -Neutral Test (D5)
PROLOG Stland Hyd mary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface Inundatio Surface Ind Observer face Water turation Procludes cap scribe Rec	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine to Deposits (B2) (Nonriveri Soil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6) retions: ar Present?	e) iverine) ne) agery (B7) /es N /es N	Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S X Oxidized R Presence of Recent Iror Thin Muck Other (Exp	t (B12) ertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) salong Livir ron (C4) in Tilled So) arks)	wetlar	Secondal Wate Sed Drift Drai 3) Cray Satu Shat X FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) aration Visible on Aerial Imagery (C9) llow Aquitard (D3) -Neutral Test (D5)
DROLOG etland Hyd mary Indic Surface High Water M Sedimer Drift Dep Surface Inundation Surface Inundation Surface Intraction Friction Prince Coludes cap	Irology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) (Nonriverine to Deposits (B2) (Nonriveri Soil Cracks (B6) on Visible on Aerial Im Soil Cracks (B6) retions: ar Present?	e) iverine) ne) agery (B7) /es N /es N	Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S X Oxidized R Presence of Recent Iror Thin Muck Other (Exp	t (B12) ertebrates (I Sulfide Odor hizospheres of Reduced I n Reduction Surface (C7 lain in Rema	(C1) salong Livir ron (C4) in Tilled So) arks)	wetlar	Secondal Wate Sed Drift Drai 3) Cray Satu Shat X FAC	er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) aration Visible on Aerial Imagery (C9) llow Aquitard (D3) -Neutral Test (D5)

Project/Site: Yolo 80 Corridor Improvement Project		City/Count	y:	Yolo	Sar	mpling Date:	01/0	8/2021
Applicant/Owner: Ca	ITrans	-)	, 	State:	CA Sar	mpling Point:	_	20
Investigator(s): S. Creer; J. Holson		Section, To				E SN02		
Landform (hillslope, terrace, etc): Valley bottom				ex, none):			Slope (c	%): 0
Subregion (LRR):	Lat:			Long: -1			um: V	
Soil Map Unit Name: Willows soils, overwash,	0 percent slo	pes, freque	ently flooded	NWI	classification:			
Are climatic / hydrologic conditions on the site typical for this tir					in Remarks.)			
Are Vegetation N, Soil N, or Hydrology N				— Normal Circumstar		Yes	X N	lo
Are Vegetation N, Soil N, or Hydrology N	naturally pro	oblematic?	(If nee	eded, explain any	answers in Ren	narks.)		·
SUMMARY OF FINDINGS - Attach site map sho	wing sam	pling po	int locations,	transects, im	portant feat	tures, etc.		
Hydrophytic Vegetation Present? Yes X			-		-			
	No		Is the Sampled	Area				
Wetland Hydrology Present? Yes X	No	-	within a Wetland		Yes X	No		
Totalia Hydrology 1 1000Ht.		_						
Remarks:								
\								
VEGETATION - Use scientific names of plants.				1				
				Dominance To	est worksheet:			
	Abaaluta	Domino	nt Indicator	Number of Do	minant Species			
Trac Chrotime (District)	Absolute % Cover	Dominar		That Are OBL,	FACW, or FAC	:	2	(A)
Tree Stratum (Plot size: 0)	76 COVE	Species	? Status					
				Total Number	of Dominant			
3.				Species Acros	s All Strata:		2	_ (B)
4		= Total C		Percent of Dor	ninant Species			
Conling/Chruh Ctrotum (Diet eize: 0		10tal C	Jovei	That Are OBL,	FACW, or FAC	:1	0.00	(A/B)
Sapling/Shrub Stratum (Plot size: 0)				<u> </u>				
1					dex workshee			
2				Total % C			iply by:	
3				OBL species	0	_ x1=	0	
4 5.				FACW species		_ x 2 =	6	
J		= Total C		FAC species	70	_ x 3 =	210	
Herb Stratum (Plot size: 5 ft radius)		10tal C	Jovei	FACU species		_ x 4 =	0	
Herb Stratum (Plot size: 5 ft radius) 1. Xanthium strumarium / Cocklebur	45	Voo	EAC	UPL species	10	_ x 5 =	50	(5)
	20	Yes Yes		Column Totals	: 83	(A)	266	(B)
2. Rumex crispus / Curly dock	10	Yes No						
3. Conyza canadensis / Canadian horseweed	3			Prevaler	ice Index = B/A	=	3.2	
4. Cyperus eragrostis / Tall cyperus		No No	FACW	Hydronhytic \	/egetation Indi	icators:		
Epilobium brachycarpum / Willow herb Picris echioides / Bristly oxtonque	32	No No	FAC FAC		ce Test is >50%			
		No			ce Index ≤3.0¹			
7. 8.					gical Adaptation	ns¹ (Provide s	supportin	a
o	83	= Total C	Cover		tic Hydrophytic	,		•
Woody Vine Stratum (Plot size:0)		_ = 10tai C	Dovei			rogotation (
				¹Indicators of h	ydric soil and w	vetland hydro	ology mus	st
2.					less disturbed o	-		
<u></u>		= Total C	Cover	,				
% Bare Ground in Herb Stratum 5 % Cov	er of Biotic C		25	Hydrophytic				
70 Bare Ground in Fierb Gratum 70 Gov	CI OI BIOLIC O	,, ust	20	Vegetation				
				Present?	Yes	X No		
Remarks:								

	ription: (Describe to t	he depth neede			or confirm	the abser	nce of indicators	s.)
Depth	Matrix			Features	- :		- .	.
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-12	10YR 4/2	90	7.5YR 5/8	10	C	M	Clay	
	-							
¹Type: C=Co	ncentration, D=Depletio	n, RM=Reduced	Matrix, CS=Cove	red or Coate	ed Sand Gra	ins.	²Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil I	Indicators: (Applicable	to all LRRs, ui	nless otherwise n	oted.)			Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Red	ox (S5)			1 (cm Muck (A9) (LRR C)
	pipedon (A2)		Stripped M	. ,				cm Muck (A10) (LRR B)
	istic (A3)				F1) (except	MI RA 1)		educed Vertic (F18)
	, ,					WILIVA I)		• •
	en Sulfide (A4)			yed Matrix (I	F2)			ed Parent Material (TF2)
	d Layers (A5) (LRR C)		Depleted M	. ,	_,		Ot	her (Explain in Remarks)
	uck (A9) (LRR D)			k Surface (F	•			
	d Below Dark Surface (A11)		ark Surface	` '			
Thick Da	ark Surface (A12)		X Redox Dep	ressions (F8	3)		³Indicat	tors of hydrophytic vegetation and
Sandy N	Mucky Mineral (S1)		Vernal Poo	ls (F9)			wetland	d hydrology must be present,
Sandy 0	Gleyed Matrix (S4)						unle	ess disturbed or problematic.
Restrictive L	_ayer (if present):							
Type:			_					
Depth (in	nches):						Hydric Soil P	resent? Yes X No
HYDROLOG	Grology Indicators:							
-		and an elementary also a large	-11 4141>				0	
	cators (minimum of one	requirea: cneck		(5.44)				dary Indicators (2 or more required)
	Water (A1)		Salt Crust ('				ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		X Biotic Crus	t (B12)				ediment Deposits (B2) (Riverine)
Saturati	on (A3)		Aquatic Inv	ertebrates (l	B13)		Dr	ift Deposits (B3) (Riverine)
Water M	farks (B1) (Nonriverine)	Hydrogen S	Sulfide Odor	(C1)		Dr	ainage Patterns (B10)
Sedime	nt Deposits (B2) (Nonri	verine)	Oxidized R	hizospheres	along Living	g Roots (C	(3) Dr	y-Season Water Table (C2)
Drift De	posits (B3) (Nonriverin	ie)	Presence of	f Reduced I	ron (C4)		— Cr	ayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iron	Reduction	in Tilled Soil	s (C6)		aturation Visible on Aerial Imagery (C9)
	on Visible on Aerial Ima	agery (B7)		Surface (C7		()		nallow Aquitard (D3)
_	Soil Cracks (B6)	.97 (7		lain in Rema	*			AC-Neutral Test (D5)
			Other (EXP					te ricatian reet (20)
Field Observ	vations:							
Surface Water	er Present? Ye	es No _	X Depth (inc	ches):				
Water Table	Present? Yes	es No	X Depth (inc	ches):				
Saturation Pr		es No	X Depth (inc	· —		Wetla	nd Hydrology P	resent? Yes X No
(includes cap				′ 			,	
Describe Red	corded Data (stream ga	uge, monitoring	well, aerial photos	, previous in	spections), i	if available	9 :	
Daws								
Remarks:								

Project/Site: Yolo 80 Corridor Improvement Project		City/Count	y:	Yolo	S	ampling Date:	02/2	23/2021
Applicant/Owner: CalTr		- ,	, <u> </u>	State:	CA S	ampling Point		21
Investigator(s): J. Holson; S. Creer		Section, To				R3E SN01		
				ex, none):			Slope (%): <u>3</u>
Subregion (LRR): C	Lat:	38.57	300309	Long:			um:\	WGS84
Soil Map Unit Name: Sacramento Silty Clay L					I classification:			
Are climatic / hydrologic conditions on the site typical for this time								
Are Vegetation N, Soil N, or Hydrology N s				Normal Circumsta	•		<u>X</u> N	40 <u> </u>
Are Vegetation N , Soil N , or Hydrology N r				eded, explain any		*		
SUMMARY OF FINDINGS - Attach site map show			int locations,	, transects, ir	nportant re	atures, etc		
Hydrophytic Vegetation Present? Yes X No.				_				
			Is the Sampled		V V	NI-		
Wetland Hydrology Present? Yes X No	·	_	within a Wetlan	d?	Yes X	No		
Remarks:								
VEGETATION - Use scientific names of plants.								
VEGETATION - Ose scientific flames of plants.				B	T4	.4.		
					Test workshee ominant Specie			
	Absolute	Dominar	nt Indicator		_, FACW, or FA		2	(A)
Tree Stratum (Plot size: 10 foot radius)	% Cover	Species'	? Status	That Are Obl	_, FACVV, OF FA	····		_ ^(A)
Salix gooddingii / Gooding's willow, Goodding's black willow	85	Yes	FACW	Total Number	of Dominant			
2				Species Acro			2	(B)
3				'				_ ` '
4		_		Percent of Do	ominant Specie	es		
	85	= Total C	Cover	That Are OBL	_, FACW, or FA	C:	100.0	(A/B)
Sapling/Shrub Stratum (Plot size: 0)								
1					ndex workshe			
2					Cover of:		tiply by:	
				OBL species	-	x1=_	40	
4 5.	-	_		FACW species FAC species	es <u>85</u> 0	x 2 = x 3 =	170 0	—
· ·	0	= Total C	Cover	FACU species		x 4 =	0	
Herb Stratum (Plot size: 5 ft rad)		_		UPL species	15		75	
1. Polygonum persicaria / Spotted ladysthumb	40	Yes	OBL	Column Totals		(A)	285	(B)
2. Bromus diandrus / Ripgut brome, Ripgut grass	10	No	UPL	- Coramir rotal		(,,,	200	(=)
3. Daucus carota / Carrot, Carrot, Queen anne's lace	5	No	UPL	Prevale	ence Index = B	/A =	2.04	
4.								
5					Vegetation In			
6					nce Test is >50			
7				_	nce Index ≤3.01			
8					ogical Adaptati atic Hydrophyt	•		-
	55	= Total C	Cover	Problems	auc Hydropnyt	ic vegetation.	(Explain)	1
Woody Vine Stratum (Plot size:)				1Indicators of	hydric soil and	l wetland hydr	ology mu	et
1 2.		_			nless disturbed			St.
Z	0	= Total C	over	be present, u	THESS distarbed	a or problemat		
% Bare Ground in Herb Stratum 45 % Cover		= Total C Crust		Hydrophytic				
70 Bare Ground III From Stratum 70 Gover	or Biotio O			Vegetation				
				Present?	Yes	X No		
Remarks:				I				
iveniairs.								

	ription: (Describe to t	he depth nee		ne indicato	or confirm	the abser	nce of indicators.)	
Depth (inches)	Matrix Color (moist)	%			Typo1	1.002	Toyturo	Pomorko
(inches) 0-16	Color (moist) 10YR 2/1	95	Color (moist) 5YR 5/8		Type ¹ C	Loc² M	Texture	Remarks
0-10	10114 2/1	95	31K 3/0			IVI	Loamy clay	
	-	·						
				-	· —— ·			
				-	· —— ·			
				-	· —— ·			
				-	· —— ·			
Type: C=Co	ncentration, D=Depletion	on, RM=Redu	ced Matrix, CS=Cove	red or Coat	ed Sand Gra	ains.	² Location	: PL=Pore Lining, M=Matrix.
lydric Soil I	Indicators: (Applicable	e to all LRRs	, unless otherwise r	oted.)			Indicators for	Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Red	ox (S5)			1 cm l	Muck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped M	atrix (S6)			2 cm l	Muck (A10) (LRR B)
Black H	istic (A3)		Loamy Mu	cky Mineral	(F1) (except	MLRA 1)		ced Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix ((F2)		Red F	Parent Material (TF2)
_	d Layers (A5) (LRR C)		Depleted M	, ,			Other	(Explain in Remarks)
_	uck (A9) (LRR D)		X Redox Dar	•	•			
	d Below Dark Surface (A11)		ark Surface				
	ark Surface (A12)			ressions (F	8)			of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	ls (F9)			· ·	drology must be present,
Sandy C	Gleyed Matrix (S4)						unless	disturbed or problematic.
Restrictive L	_ayer (if present):							
Type:								
Depth (in	iches):						Hydric Soil Pres	ent? Yes <u>X</u> No
/DROLOG	3Y							
	drology Indicators:							
-	cators (minimum of one	required: che	ck all that apply)				Secondary	Indicators (2 or more required)
	Water (A1)		Salt Crust ((B11)				Marks (B1) (Riverine)
_	ater Table (A2)		Biotic Crus					nent Deposits (B2) (Riverine)
Saturati				ertebrates (B13)			Deposits (B3) (Riverine)
	farks (B1) (Nonriverine	e)		Sulfide Odo				age Patterns (B10)
	nt Deposits (B2) (Nonri				s along Livin	g Roots (C		eason Water Table (C2)
	posits (B3) (Nonriverin	•		f Reduced	-	,		sh Burrows (C8)
	Soil Cracks (B6)				in Tilled Soi	ls (C6)		ation Visible on Aerial Imagery (C9)
 Inundati	on Visible on Aerial Ima	agery (B7)	Thin Muck	Surface (C7	7)		Shallo	ow Aquitard (D3)
Surface	Soil Cracks (B6)		Other (Exp	lain in Rem	arks)		X FAC-N	Neutral Test (D5)
ield Observ	vations:							
Surface Water		es N	o X Depth (in	ches):				
Vater Table I			o X Depth (in					
Saturation Pr			o X Depth (in			Wetla	nd Hydrology Pres	ent? Yes X No
	oillary fringe)			, <u> </u>			,	
escribe Red	corded Data (stream ga	uge, monitori	ng well, aerial photos	, previous i	nspections),	if available):	
)omor!:-:								
Remarks:								
Remarks:								
Remarks:								
emarks:								

Project/Site:		mprovement Project		City/Count	y:	Yolo		Samı	pling Date:	02/	23/2021
Applicant/Owner:		(CalTrans				: CA	Sam	pling Point	:	22
Investigator(s):	J.	Holson; S. Creer		Section, To	wnship, Rang	e:		T8N R3E	SN01	,	
Landform (hillslope	e, terrace, etc):	Valley botto				nvex, none):		Convex		Slope	(%): 5
Subregion (LRR):		С	Lat:	38.57	301806	Long:		266315	Dat	tum:	WGS84
Soil Map Unit Nam	ne:	Sacramento Silty C	lay Loam, 0 to 2	2 percent sl			NWI classif				
•	-	the site typical for this	•			(If no, ex	kplain in Rer	marks.)			
		_, or HydrologyN				"Normal Circu	mstances" p	resent?	Yes _	X	No
Are Vegetation	N , Soil N	_, or HydrologyN	naturally pr	oblematic?	(If ı	needed, explain	any answe	rs in Rema	rks.)		
SUMMARY OF	FINDINGS - At	ttach site map sh	nowing sam	pling po	int location	s, transects	s, importa	ant featu	ıres, etc	· •-	
Hydrophytic Veg	getation Present?	Yes	No X								
Hydric Soil Prese	ent?	Yes			Is the Sample	ed Area					
Wetland Hydrolo	ogy Present?	Yes	No X		within a Wetla	and?	Yes		No X		
Remarks:											
VEGETATION	- Use scientific	names of plants	5.								
							ice Test wo				
			Absolute	Dominar	nt Indicator		of Dominant	•			(*)
Tree Stratum	(Plot size: 10 foot	t radius)	% Cover			That Are	OBL, FACW	, or FAC:		1	(A)
1.	`	 ,	-			Total Nun	nber of Dom	inant			
2.							Across All S			2	(B)
3.						_ Opecies /	10055 All 0	ııaıa.			(D)
4						Percent o	of Dominant	Species			
			0	_ = Total C	Cover		OBL, FACW	•		50.0	(A/B)
Sapling/Shrub S	tratum (Plot size:)						,	-		(,,,,,
1						_ Prevalen	ce Index w	orksheet:			
2						Tota	al % Cover o	f:	Mul	ltiply by:	
3.						_ OBL spec		0	x 1 =	0	
						_ FACW sp		0	x 2 =	0	
5				= Total C		_ FAC spec		20	x 3 =	60	
Herb Stratum	(Plot size: 5 ft	rad)		= 10tai C	Jovei	FACU sp		30	x 4 =	0	
	ta / Carrot, Carrot, Q		30	Yes	UPL	UPL spec		50	x 5 = (A)	150 210	(B)
2. Rumex crispu		doon anno o laco	20	Yes	FAC	_ Column i	otais.	50	(A)	210	(b)
3.	<u>,,</u>					- Pre	valence Ind	ex = B/A =		4.2	
4.			, .				valorioo iria	OX			
5.			. ,			Hydroph	ytic Vegeta	tion Indica	ators:		
6.						_	inance Test				
7						_	alence Inde				
8						_ '	ohological A	•	`		U
			50	= Total C	Cover	Prob	lematic Hyd	Irophytic V	egetation¹	(Explain)
Woody Vine Stra	atum (Plot size: _)				11			411 1		4
						—	s of hydric s				ısı
2						– De presei	nt, unless di	sturbed or	problemat	IC.	
0/ Dava Craund	in I lawb Chuatum	FO 0/ C	0	= Total C		Hydroph	ytic				
% bare Ground	in Herb Stratum	50 % C	Cover of Biotic C	Just	<u> </u>	Vegetation		Yes	No	X	_
Remarks:						•					
. tomanto.											

SOIL Sampling Point: 22

	ription: (Describe to the	ne depth neede			or confirm	the abser	nce of indicators.)	
Depth	Matrix	0/		K Features	Ti 1	1 2	T-, -t	Danis and a
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-16	10YR 2/1	100					Loamy clay	
								_
¹Type: C=Cor	ncentration, D=Depletio	n, RM=Reduced	Matrix, CS=Cove	ered or Coate	ed Sand Gra	ins.	²Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applicable	to all LRRs, ur	nless otherwise i	noted.)			Indicators fo	or Problematic Hydric Soils³:
Histosol	(A1)		Sandy Red	lox (S5)			1 cm	n Muck (A9) (LRR C)
Histic Ep	pipedon (A2)		Stripped M	atrix (S6)			2 cm	n Muck (A10) (LRR B)
Black Hi	stic (A3)		Loamy Mu	cky Mineral (F1) (except	MLRA 1)	Red	uced Vertic (F18)
	n Sulfide (A4)			yed Matrix (F		,		Parent Material (TF2)
	d Layers (A5) (LRR C)		Depleted N	• .	,			er (Explain in Remarks)
	ick (A9) (LRR D)			k Surface (F	3)			(Explain in Homaino)
	d Below Dark Surface (/	\11\		ark Surface	•			
	ark Surface (A12)	311)		ressions (F8			3Indicator	a of hydrophytic vagotation and
				•))			rs of hydrophytic vegetation and
	flucky Mineral (S1)		Vernal Poo	ols (F9)				nydrology must be present,
Sandy G	Gleyed Matrix (S4)						unless	s disturbed or problematic.
	ayer (if present):							
Type:			_					
Depth (in	ches):		_				Hydric Soil Pre	sent? Yes NoX
HYDROLOG								
-	Irology Indicators:						_	
	ators (minimum of one	required: check						ry Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	, ,				er Marks (B1) (Riverine)
High Wa	ter Table (A2)		Biotic Crus	t (B12)				iment Deposits (B2) (Riverine)
Saturation	on (A3)		Aquatic Inv	ertebrates (E	313)		Drift	Deposits (B3) (Riverine)
Water M	arks (B1) (Nonriverine)	Hydrogen	Sulfide Odor	(C1)		Drai	nage Patterns (B10)
Sedimer	nt Deposits (B2) (Nonri	verine)	Oxidized R	hizospheres	along Living	g Roots (C	(3) Dry-	Season Water Table (C2)
Drift Dep	oosits (B3) (Nonriverin	e)	Presence of	of Reduced Ir	on (C4)		Cray	fish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reduction i	n Tilled Soil	s (C6)	Satu	ration Visible on Aerial Imagery (C9)
	on Visible on Aerial Ima	gery (B7)		Surface (C7)		` ,		llow Aquitard (D3)
	Soil Cracks (B6)	3 , ()		lain in Rema				-Neutral Test (D5)
Field Observ	rations:							
Surface Water	er Present? Ye	es No _	X Depth (in	ches):				
Water Table F	Present? Ye	es No _	X Depth (in	ches):				
Saturation Pr	esent? Ye	es No _	X Depth (in	ches):		Wetla	nd Hydrology Pre	sent? Yes NoX
(includes cap	illary fringe)							
Describe Rec	corded Data (stream ga	uge, monitoring	well, aerial photos	s, previous in	spections), i	I if available	: :	
Remarks:	<u></u>							

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Yolo 80 Corrid	or Improvement Project		City/County	/:	Yolo	Sam	npling Date:	01/(07/2021
Applicant/Owner:		Frans	Oity/ Oourity	·	Yolo State:	CA Sam	pling Pate:		23
Investigator(s):	J. Holson; S. Creer		Section, To	wnship, Range:					
Landform (hillslope, terrace, etc):		•	Local relief	(concave, conv	ex, none):	Convex		Slope (%): 10
Subregion (LRR):					Long:				
Soil Map Unit Name:	Sycamore silt lo	am, 0 to 1 pe	ercent slope	es	NWI				
Are climatic / hydrologic conditions	on the site typical for this tim	e of year?	Yes X	No	(If no, explain	n in Remarks.)			
Are Vegetation N, Soil	N , or Hydrology N	significantly	disturbed?	Are "	Normal Circumsta	nces" present?	Yes _	X 1	No
Are Vegetation N, Soil	N , or Hydrology N	naturally pro	oblematic?	(If ne	eded, explain any	answers in Rem	arks.)		
SUMMARY OF FINDINGS	- Attach site map show	ving sam _l	pling poi	nt locations	, transects, in	nportant feat	ures, etc		
Hydrophytic Vegetation Present?	Yes X 1	No						,	
Hydric Soil Present?	Yes		_	s the Sampled	Area				
Wetland Hydrology Present?		No X		within a Wetlan		Yes	No X		
, 0,									
Remarks:									
VEGETATION - Use scient	ific names of plants.								
					Dominance T	est worksheet:			
						minant Species			
		Absolute	Dominan	t Indicator		, FACW, or FAC:		2	(A)
Tree Stratum (Plot size: 10		% Cover	Species?	Status		, ,			_ (' ')
1. Populus fremontii / Fremont o		5	Yes	FAC	Total Number	of Dominant			
2					Species Acros	ss All Strata:		3	(B)
3									_ ` `
4					Percent of Do	minant Species			
		5	_ = Total C	over	That Are OBL	, FACW, or FAC:		66.7	(A/B)
Sapling/Shrub Stratum (Plot s		00		LIBI					
Baccharis pilularis / Coyote b		<u>30</u> 2	Yes			ndex worksheet:			
2. Fraxinus latifolia / Oregon asl			No	FACW		Cover of:		tiply by:	
3.					OBL species				
					FACW species	s <u>2</u> 70	_ x 2 =	4	
J		32	= Total C	over	FAC species FACU species		_ x3= x4=	210 60	
Herb Stratum (Plot size:	5 ft rad)	- 02		OVCI	UPL species	32	- x4 x5=	160	
Festuca perennis / Italian rye	<u>_</u>	65	Yes	FAC	Column Totals		_	434	(B)
Elymus glaucus / Blue wildrye		15	No	FACU	Columni Totals	5. 119	_ (^)	454	(D)
3. Vicia villosa / Hairy vetch, Ha		2	No	UPL	Prevale	nce Index = B/A :	= :	3.65	
4.					1 1014101	nico index Birt		5.00	
5.					Hydrophytic '	Vegetation Indic	ators:		
6.					X Dominan	ce Test is >50%			
7.					Prevalend	ce Index ≤3.0¹			
8						gical Adaptations			
		82	_ = Total C	over	Problema	atic Hydrophytic \	/egetation¹	(Explain)	
	e:)								
1						hydric soil and w			st
2					be present, ur	nless disturbed or	problemati	C.	
		0	_ = Total C		Hydrophytic				
% Bare Ground in Herb Stratum	15 % Cove	er of Biotic C	rust	0	Vegetation				
					Present?	Yes	X No		
					1				
Remarks:									

SOIL Sampling Point: 23

Depth	ription: (Describe to t Matrix	ne deptii neet		ne maicator x Features	r or confirm	tile abser	ice of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-8	10YR 4/6	100	Color (IIIOISI)		Турс		Clayey sand	Remarks
	1011(4/0						Olayey Sana	
		<u> </u>						
-								
-								
-	· -	· — — –						
-	· -	· — — –						
¹Type: C=Coi	ncentration, D=Depletion	on, RM=Reduce	ed Matrix, CS=Cove	ered or Coat	ed Sand Gra	ains.	²Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applicable	e to all LRRs,	unless otherwise	noted.)			Indicators fo	r Problematic Hydric Soils³:
Histosol	(A1)		Sandy Red	dox (S5)			1 cm	Muck (A9) (LRR C)
Histic Ep	oipedon (A2)		Stripped M	latrix (S6)			2 cm	Muck (A10) (LRR B)
Black Hi	stic (A3)			cky Mineral	(F1) (except	MLRA 1)	Redu	ced Vertic (F18)
— Hydroge	en Sulfide (A4)		Loamy Gle	eyed Matrix ((F2)	,	Red F	Parent Material (TF2)
	d Layers (A5) (LRR C)		Depleted N		,			(Explain in Remarks)
	ıck (A9) (LRR D)			rk Surface (F	- 6)			•
	d Below Dark Surface (A11)		Dark Surface				
	ark Surface (A12)	,		pressions (F	. ,		3Indicators	of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		-,			drology must be present,
	Gleyed Matrix (S4)			510 (1 0)			•	disturbed or problematic.
	Sicyca Matrix (04)						unicoo	distarbed of problematic.
Restrictive L	ayer (if present):							
Type:	Rip rap							
Depth (in	ches):	8					Hydric Soil Pres	ent? Yes No <u>X</u>
Wetland Hyd	Irology Indicators:	required; chec	k all that apply)				Secondan	undicators (2 or more required)
Wetland Hyd	drology Indicators: ators (minimum of one	required: chec		(P11)				/ Indicators (2 or more required)
Wetland Hyd Primary Indic Surface	drology Indicators: ators (minimum of one Water (A1)	required: chec	Salt Crust				Water	r Marks (B1) (Riverine)
Wetland Hyden Primary Indice Surface High Wa	Irology Indicators: ators (minimum of one Water (A1) ater Table (A2)	required: chec	Salt Crust Biotic Crus	st (B12)	(D40)		Water Sedin	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine)
Wetland Hyd Primary Indic Surface High Wa	Arology Indicators: Lators (minimum of one Water (A1) Later Table (A2) Lon (A3)		Salt Crust Biotic Crust Aquatic Inv	st (B12) vertebrates (Water Sedin Drift [r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine)
Wetland Hyd Primary Indic Surface High Wa Saturatic Water M	trology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine	e)	Salt Crust Biotic Crus Aquatic In Hydrogen	st (B12) vertebrates (Sulfide Odor	r (C1)		Water Sedin Drift [r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10)
Wetland Hyc Primary Indic Surface High Wa Saturatio Water M Sedimer	trology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine at Deposits (B2) (Nonri	e) iverine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F	st (B12) vertebrates (Sulfide Odol Rhizospheres	r (C1) s along Livin	g Roots (C	Watel Sedin Drift [Drain]	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) leason Water Table (C2)
Wetland Hyd Primary Indice Surface High Wa Saturatic Water M Sedimer Drift Dep	Arology Indicators: Leators (minimum of one Water (A1) Leater Table (A2) Leater (A3) Learks (B1) (Nonriverine on Deposits (B2) (Nonriverine cosits (B3) (Nonriverine cosits	e) iverine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced	r (C1) s along Livin Iron (C4)		Wate Sedin Drift [Drain Dry-S Crayf	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) leason Water Table (C2) ish Burrows (C8)
Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Surface	Arology Indicators: Leators (minimum of one Water (A1) Leater Table (A2) Leater (B1) (Nonriverine one Deposits (B2) (Nonriverine cosits (B3) (Nonriverine Soil Cracks (B6)	e) iverine) ne)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced n Reduction	r (C1) s along Livin Iron (C4) in Tilled Soi		Wate Sedin Drift [Drain Ory-S Crayf Satur	r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) deason Water Table (C2) dish Burrows (C8) ation Visible on Aerial Imagery (C9)
Wetland Hyc Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundati	drology Indicators: Lators (minimum of one) Water (A1) Later Table (A2) Lon (A3) Larks (B1) (Nonriverine) Lot Deposits (B2) (Nonriverine) Lot (B3) (Nonriverine) Lot (B3) (Nonriverine) Lot (B4) (Nonriverine)	e) iverine) ne)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced n Reduction Surface (C7	r (C1) s along Livin Iron (C4) in Tilled Soi 7)		Wate Sedin Drift [Drain Ory-S Crayf Satur Shalle	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) deason Water Table (C2) dish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)
Wetland Hyc Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundati	Arology Indicators: Leators (minimum of one Water (A1) Leater Table (A2) Leater (B1) (Nonriverine one Deposits (B2) (Nonriverine cosits (B3) (Nonriverine Soil Cracks (B6)	e) iverine) ne)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced n Reduction	r (C1) s along Livin Iron (C4) in Tilled Soi 7)		Wate Sedin Drift [Drain Ory-S Crayf Satur Shalle	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) deason Water Table (C2) dish Burrows (C8) ation Visible on Aerial Imagery (C9)
Wetland Hyc Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic	drology Indicators: Lators (minimum of one Water (A1) Later Table (A2) Larks (B1) (Nonriverine Later Society (B2) (Nonriverine Later Society (B3) (Nonriverine Later Society (B3) (Nonriverine Later Society (B3) (Nonriverine Later Society (B4)	e) iverine) ne)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced n Reduction Surface (C7	r (C1) s along Livin Iron (C4) in Tilled Soi 7)		Wate Sedin Drift [Drain Ory-S Crayf Satur Shalle	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) deason Water Table (C2) dish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)
Wetland Hyc Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundati	drology Indicators: sators (minimum of one Water (A1) ster Table (A2) on (A3) larks (B1) (Nonriverine nt Deposits (B2) (Nonriverine cosits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Ima Soil Cracks (B6)	o) iverine) ne) agery (B7)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced n Reduction Surface (C7 olain in Rema	r (C1) s along Livin Iron (C4) in Tilled Soi 7)		Wate Sedin Drift [Drain Ory-S Crayf Satur Shalle	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) deason Water Table (C2) dish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)
Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundatic Surface Field Observ Surface Water	drology Indicators: sators (minimum of one Water (A1) ster Table (A2) on (A3) larks (B1) (Nonriverine osits (B3) (Nonriverine osits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Ima Soil Cracks (B6)	e) iverine) ne) agery (B7) es No	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced in Reduction Surface (C7 olain in Remainches):	r (C1) s along Livin Iron (C4) in Tilled Soi 7)		Wate Sedin Drift [Drain Ory-S Crayf Satur Shalle	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) deason Water Table (C2) dish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)
Wetland Hyden Primary Indice Surface High Water Mage Sedimer Drift Dep Surface Inundation Surface Field Observ Surface Water Table &	Arology Indicators: Lators (minimum of one Water (A1) Ater Table (A2) In (A3) Larks (B1) (Nonriverine Int Deposits (B2) (Nonriverine Doosits (B3) (Nonriverine Doosits (B3) (Nonriverine Doosits (B6) Don Visible on Aerial Ima Soil Cracks (B6) Vations: Present? Y	e) iverine) ne) agery (B7) es No es No	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp X Depth (in	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced in Reduction Surface (C7 olain in Remainches):	r (C1) s along Livin Iron (C4) in Tilled Soi 7)	ils (C6)	Wate Sedin Drift [Drain 3) Dry-S Crayf Satur Shall FAC-I	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
Wetland Hyder Primary Indice Surface High Water M Sedimer Drift Dep Surface Inundati Surface Field Observ Surface Water Table If Saturation Primary Indice	drology Indicators: sators (minimum of one Water (A1) ster Table (A2) on (A3) larks (B1) (Nonriverine otosits (B3) (Nonriverine cosits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Ima Soil Cracks (B6) vations: er Present? Present? Y	e) iverine) ne) agery (B7) es No	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp X Depth (in	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced in Reduction Surface (C7 olain in Remainches):	r (C1) s along Livin Iron (C4) in Tilled Soi 7)	ils (C6)	Wate Sedin Drift [Drain Ory-S Crayf Satur Shalle	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
Wetland Hyden Primary Indice Surface High Water Mage Sedimer Drift Dep Surface Inundation Surface Field Observ Surface Water Table &	drology Indicators: sators (minimum of one Water (A1) ster Table (A2) on (A3) larks (B1) (Nonriverine otosits (B3) (Nonriverine cosits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Ima Soil Cracks (B6) vations: er Present? Present? Y	e) iverine) ne) agery (B7) es No es No	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp X Depth (in	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced in Reduction Surface (C7 olain in Remainches):	r (C1) s along Livin Iron (C4) in Tilled Soi 7)	ils (C6)	Wate Sedin Drift [Drain 3) Dry-S Crayf Satur Shall FAC-I	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
Wetland Hyder Primary Indice Surface High Water Mage Sedimer Drift Dep Surface Inundati Surface Field Observ Surface Water Table if Saturation Pr (includes cap	drology Indicators: sators (minimum of one Water (A1) ster Table (A2) on (A3) larks (B1) (Nonriverine otosits (B3) (Nonriverine cosits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Ima Soil Cracks (B6) vations: er Present? Present? Y	e) iverine) ne) agery (B7) es No es No es No	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp X Depth (in X Depth (in	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced in Reduction Surface (C7 olain in Remainches): uches):	r (C1) s along Livin lron (C4) in Tilled Soi 7) arks)	Wetlan	Wate Sedin Drift [Drain 3) Crayf Satur Shalla FAC-l	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) deason Water Table (C2) dish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
Wetland Hyder Primary Indice Surface High Water Management Sedimer Drift Dep Surface Inundati Surface Field Observ Surface Water Table Research	drology Indicators: sators (minimum of one Water (A1) ster Table (A2) on (A3) larks (B1) (Nonriverine otosits (B3) (Nonriverine cosits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Ima Soil Cracks (B6) vations: er Present? Present? Y resent? Y resent? Y resent? Y	e) iverine) ne) agery (B7) es No es No es No	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp X Depth (in X Depth (in	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced in Reduction Surface (C7 olain in Remainches): uches):	r (C1) s along Livin lron (C4) in Tilled Soi 7) arks)	Wetlan	Wate Sedin Drift [Drain 3) Crayf Satur Shalla FAC-l	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
Wetland Hyder Primary Indice Surface High Water Mage Sedimer Drift Dep Surface Inundati Surface Field Observ Surface Water Table if Saturation Pr (includes cap	drology Indicators: sators (minimum of one Water (A1) ster Table (A2) on (A3) larks (B1) (Nonriverine otosits (B3) (Nonriverine cosits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Ima Soil Cracks (B6) vations: er Present? Present? Y resent? Y resent? Y resent? Y	e) iverine) ne) agery (B7) es No es No es No	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp X Depth (in X Depth (in	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced in Reduction Surface (C7 olain in Remainches): uches):	r (C1) s along Livin lron (C4) in Tilled Soi 7) arks)	Wetlan	Wate Sedin Drift [Drain 3) Crayf Satur Shalla FAC-l	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
Wetland Hyder Primary Indice Surface High Water Management Sedimer Drift Dep Surface Inundati Surface Field Observ Surface Water Table Research	drology Indicators: sators (minimum of one Water (A1) ster Table (A2) on (A3) larks (B1) (Nonriverine otosits (B3) (Nonriverine cosits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Ima Soil Cracks (B6) vations: er Present? Present? Y resent? Y resent? Y resent? Y	e) iverine) ne) agery (B7) es No es No es No	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp X Depth (in X Depth (in	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced in Reduction Surface (C7 olain in Remainches): uches):	r (C1) s along Livin lron (C4) in Tilled Soi 7) arks)	Wetlan	Wate Sedin Drift [Drain 3) Crayf Satur Shalla FAC-l	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
Wetland Hyder Primary Indice Surface High Water Management Sedimer Drift Dep Surface Inundati Surface Field Observ Surface Water Table Research	drology Indicators: sators (minimum of one Water (A1) ster Table (A2) on (A3) larks (B1) (Nonriverine otosits (B3) (Nonriverine cosits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Ima Soil Cracks (B6) vations: er Present? Present? Y resent? Y resent? Y resent? Y	e) iverine) ne) agery (B7) es No es No es No	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp X Depth (in X Depth (in	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced in Reduction Surface (C7 olain in Remainches): uches):	r (C1) s along Livin lron (C4) in Tilled Soi 7) arks)	Wetlan	Wate Sedin Drift [Drain 3) Crayf Satur Shalla FAC-l	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)
Wetland Hyder Primary Indice Surface High Water Management Sedimer Drift Dep Surface Inundati Surface Field Observ Surface Water Table Research	drology Indicators: sators (minimum of one Water (A1) ster Table (A2) on (A3) larks (B1) (Nonriverine otosits (B3) (Nonriverine cosits (B3) (Nonriverine Soil Cracks (B6) on Visible on Aerial Ima Soil Cracks (B6) vations: er Present? Present? Y resent? Y resent? Y resent? Y	e) iverine) ne) agery (B7) es No es No es No	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp X Depth (in X Depth (in	st (B12) vertebrates (Sulfide Odor Rhizospheres of Reduced in Reduction Surface (C7 olain in Remainches): uches):	r (C1) s along Livin lron (C4) in Tilled Soi 7) arks)	Wetlan	Wate Sedin Drift [Drain 3) Crayf Satur Shalla FAC-l	r Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) Neutral Test (D5)

WETLAND DETERMINATION DATA FORM - Arid West Region

Applicant/Owner: CalTrans State: CA Sampling Point: 24	Project/Site: Yolo 80 Corrido	or Improvement Project		City/Count	·V·	Yolo	Sa	ampling Date:	. 01/(07/2021
Investigatoris J. Holston, Scient Section, Township, Range TSN R4E Landstorm (hillshope, terrace, etc) Valley blottor Lat 38.5973398 Long 1.21.5889445 Datum W(SSA 10.8 library More Mo				Oity/ Oourit	.y	State:	CA Sa			
Landform / Millslope, terrace, etc):	Investigator(s):			Section, To	ownship. Range					
Subregion (LRR):	• ' '								Slope (%): 10
Mater Mater Mater Mater Mater Not classification: Not classification: Not could in its report of this time of year? Yes X									-	
Are Nagetation N	· · · · · · · · · · · · · · · · · · ·									
Are Nagetation N	Are climatic / hydrologic conditions	on the site typical for this time	of year? `	Yes X	No	(If no, expla	in in Remarks.)			
Absolute Dominant Salu N Or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)						"Normal Circumsta	ances" present?	Yes _	1 X	No
Hydrophytic Vegetation Present?						needed, explain any	y answers in Re			
Hydrophytic Vegetation Present?						s, transects, ir	mportant fea	itures, etc).	
Wetland Hydrology Present? Yes X No No						·	•			
Remarks:		Yes X No	,	-	Is the Sample	d Area				
Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)	,						Yes X	No		
VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:10 foot radius) Absolute % Cover	Welland Hydrelegy Frederic.	100 <u>X</u> 100	´	-			<u> </u>			
Absolute Species Dominant Indicator Species Status Species S	Remarks:									
Absolute Species Dominant Indicator Species Status Species S										
Absolute Species Dominant Indicator Species Status Species S										
Absolute Species Dominant Indicator Species Status Species S	VEGETATION - Use scienti	ific names of plants.								
Absolute Dominant Indicators National Nationa		, , , , , , , , , , , , , , , , , , ,				Dominance	Test worksheet			
Absolute Dominant Indicators National Nationa						Number of D	ominant Species	3		
Salik gooddingii / Gooding's willow, Goodding's black willow 45 Yes FACW				Dominar	nt Indicator		•		4	(A)
Column Totals Number of Dominant Species Column Totals C	Tree Stratum (Plot size: 10	foot radius)	% Cover	Species	? Status	_	,	-		_ ` ′
3			111		FACW	- Total Number	r of Dominant			
A	2.		-			- Species Acro	ss All Strata:		5	(B)
As = Total Cover Total 'Record Sapling/Shrub Stratum (Plot size: 10 ft rad) 10 Yes FACW	3					_				
Sapling/Shrub Stratum (Plot size: 10 ft rad 10	4					- Percent of Do	ominant Species	3		
1. Salix exigua / Narrowleaf willow 10 Yes FACW 2. Fraxinus latifolia / Oregon ash 5 Yes FACW 2. Fraxinus latifolia / Oregon ash 5 Yes FACW 5 Yes FACW 5 Yes Total % Cover of: Multiply by: 08L species 0 x1 = 0 0 0 0 0 0 0 0 0 0			45	_ = Total C	Cover	That Are OBI	L, FACW, or FAC) :	80.0	(A/B)
2. Fraxinus latifolia / Oregon ash 5 Yes FACW Total % Cover of: Multiply by:										
OBL species O						_	Index workshee	et:		
4	,							Mu	Itiply by:	
FAC species 2	3									
Herb Stratum (Plot size: 5 ft rad) 1. Festuca perennis / Italian rye grass 2	4		-							
Herb Stratum (Plot size: 5 ft rad	5		15		2					
1. Festuca perennis / Italian rye grass 2	Harb Stratum (Diet size)	Eftrad \	15	_ = Total C	Jover	· ·				
2. Bromus diandrus / Ripgut brome, Ripgut grass 2 Yes UPL 3.			2	Voc	EAC					
Prevalence Index = B/A =2.13	-		_			_ Column Iotal	ls: <u>64</u>	(A)	136	(B)
4.		me, Ripgut grass			UPL	-			0.40	
Hydrophytic Vegetation Indicators: X Dominance Test is >50% X Prevalence Index ≤3.0¹ Morphological Adaptations¹ (Provide supporting Problematic Hydrophytic Vegetation¹ (Explain) Problematic Hydrophytic Vegetation¹ (Explain) 1			-			_ Prevale	ence index = B/A	<i>i</i> =	2.13	
6	· · · · · · · · · · · · · · · · · · ·		-			Hydrophytic	Vegetation Inc	licators:		
7						_ ` ` ` `	-			
8	_					_				
Moody Vine Stratum (Plot size: 0)			-			Morphol	ogical Adaptatio	ns¹ (Provide	supportir	ng
Woody Vine Stratum (Plot size: 0) 1	·		4	= Total C	Cover		-	,		-
1	Woody Vine Stratum (Plot size	÷. ())	· ·					· ·	` ' '	
2						¹Indicators of	hydric soil and	wetland hydr	ology mu	st
% Bare Ground in Herb Stratum 90 % Cover of Biotic Crust 0 Hydrophytic Vegetation Present? Yes X No						_				
% Bare Ground in Herb Stratum 90 % Cover of Biotic Crust 0 Vegetation Present? Yes X No			0	= Total C	Cover	-				
	% Bare Ground in Herb Stratum	90 % Cover		_		Hydrophytic	:			
				-		Vegetation				
Remarks:						Present?	Yes _	X No		
INGHIGINS.	Pamarke:					1				
	i veillains.									

SOIL Sampling Point: 24

Depth	Matrix			x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks	
0-4	2.5Y 4/4	93	5YR 5/8	7	C	M	Clayey sand			
4-12	2.5Y 4/4	100					Clayey sand			
		_					-	-		
							-	-		
Type: C=Con	centration, D=Depletion	on, RM=Redu	ced Matrix, CS=Cove	ered or Coate	ed Sand Gr	ains.	²Loo	ation: PL=Por	e Lining, M=Ma	trix.
ydric Soil In	dicators: (Applicable	e to all LRRs		-					natic Hydric So	ils³:
Histosol (•		Sandy Re	, ,				cm Muck (A9		
	pedon (A2)		Stripped M	, ,	(54) (cm Muck (A1	, , ,	
Black His	, ,			cky Mineral (. , ,	t MLRA 1)		Reduced Vertion Red Parent Ma		
	n Sulfide (A4) Layers (A5) (LRR C)		Depleted N	eyed Matrix (F Matrix (F3)	F2)			ted Parent Ma Other (Explain		
	ck (A9) (LRR D)			k Surface (F	6)		<u> </u>	ATTOT (Explain	iii iteliiaiks)	
	Below Dark Surface ((A11)		Dark Surface						
	rk Surface (A12)	,		pressions (F8			³Indica	ators of hydro	ohytic vegetation	n and
	ucky Mineral (S1)		Vernal Poo	ols (F9)					nust be present,	
_	eyed Matrix (S4)								or problematic.	
estrictive La	ayer (if present):									
Туре:	Rip rap)								
Depth (inc	:hes):	12	<u></u>				Hydric Soil	Present?	Yes X	No
DROLOG	Y									
Vetland Hydi	ology Indicators:									
/etland Hydi rimary Indica	rology Indicators: itors (minimum of one	required: che		(D44)					s (2 or more red	quired)
letland Hydirimary Indica	rology Indicators: tors (minimum of one Vater (A1)	required: che	Salt Crust	. ,			X V	Vater Marks (E	31) (Riverine)	-
/etland Hydi rimary Indica Surface V High Wat	rology Indicators: ttors (minimum of one Vater (A1) er Table (A2)	required: che	Salt Crust Biotic Crus	st (B12)	R13\		X V X S	Vater Marks (E Sediment Depo	B1) (Riverine) osits (B2) (Rive	
/etland Hydi rimary Indica Surface V High Wat Saturatio	rology Indicators: tors (minimum of one Water (A1) er Table (A2) n (A3)	·	Salt Crust Biotic Crust Aquatic Inv	st (B12) vertebrates (E	,		X V X S X D	Vater Marks (E Sediment Depo Orift Deposits (B1) (Riverine) osits (B2) (River B3) (Riverine)	
rimary Indica Surface V High Wat Saturatio Water Ma	rology Indicators: tors (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine	e)	Salt Crust Biotic Crus Aquatic In Hydrogen	st (B12) vertebrates (E Sulfide Odor	(C1)	na Roots (C	X V X S X C	Vater Marks (E sediment Depo Prift Deposits (Prainage Patte	B1) (Riverine) posits (B2) (Riverine) B3) (Riverine) rns (B10)	
rimary Indica Surface V High Wat Saturatio Water Ma Sediment	rology Indicators: tors (minimum of one Water (A1) er Table (A2) n (A3)	e) iverine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F	st (B12) vertebrates (E Sulfide Odor Rhizospheres	(C1) along Livin	ng Roots (C	X V X S X C X C X C C C C C	Vater Marks (E sediment Depo Prift Deposits (Prainage Patte	B1) (Riverine) usits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2)	
fetland Hydi rimary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonr	e) iverine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F	st (B12) vertebrates (E Sulfide Odor	(C1) along Livin ron (C4)	,	X V X S X C X C X C C C C C	Vater Marks (E Sediment Depo Prift Deposits (Prainage Patte Pry-Season Wa Crayfish Burro	B1) (Riverine) usits (B2) (Riverine) B3) (Riverine) uns (B10) uter Table (C2) ws (C8)	rine)
Vetland Hydirimary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Depo	rology Indicators: utors (minimum of one Water (A1) er Table (A2) n (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonr osits (B3) (Nonriverin	e) iverine) ne)	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized F Presence	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced In	(C1) along Livin ron (C4) in Tilled So	,	X V X S X C X C X C X C C X C C	Vater Marks (E Sediment Depo Prift Deposits (Prainage Patte Pry-Season Wa Crayfish Burro	B1) (Riverine) Disits (B2) (Riverine) B3) (Riverine) Trns (B10) Atter Table (C2) Ws (C8) Die on Aerial Ima	rine)
Vetland Hydirimary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Depo	rology Indicators: utors (minimum of one Water (A1) er Table (A2) n (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonr osits (B3) (Nonriverine Soil Cracks (B6)	e) iverine) ne)	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Thin Muck	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced II n Reduction i	(C1) along Living ron (C4) in Tilled Soil)	,	X V X S X C X C C X C C X C C X C C X C C X C C X C C X C C X C C X C	Vater Marks (E Sediment Depo Orift Deposits (Orainage Patte Ory-Season Wi Crayfish Burrov Saturation Visil	31) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) ws (C8) ole on Aerial Imard (D3)	rine)
Vetland Hydi rimary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Depo	rology Indicators: utors (minimum of one Water (A1) er Table (A2) n (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonriverine soil Cracks (B6) n Visible on Aerial Ima Soil Cracks (B6)	e) iverine) ne)	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Thin Muck	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced Ir n Reduction i Surface (C7)	(C1) along Living ron (C4) in Tilled Soil)	,	X V X S X C X C C X C C X C C X C C X C C X C C X C C X C C X C C X C	Vater Marks (E dediment Depo prift Deposits (prainage Patte pry-Season Ware grayfish Burrov deaturation Visil shallow Aquita	31) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) ws (C8) ole on Aerial Imard (D3)	rine)
Vetland Hydirimary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Depo Surface S Inundatio Surface S	rology Indicators: utors (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine t Deposits (B2) (Nonr posits (B3) (Nonriverine Soil Cracks (B6) n Visible on Aerial Ima Soil Cracks (B6)	e) iverine) ne) agery (B7)	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Thin Muck	st (B12) vertebrates (E Sulfide Odor Rhizospheres of Reduced In n Reduction i Surface (C7) olain in Rema	(C1) along Living ron (C4) in Tilled Soil)	,	X V X S X C X C C X C C X C C X C C X C C X C C X C C X C C X C C X C	Vater Marks (E dediment Depo prift Deposits (prainage Patte pry-Season Ware grayfish Burrov deaturation Visil shallow Aquita	31) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) ws (C8) ole on Aerial Imard (D3)	rine)
Vetland Hydrimary Indica Surface V High Wate Ma Sediment Drift Depo Surface S Inundatio Surface S eld Observa	rology Indicators: ators (minimum of one Vater (A1) er Table (A2) n (A3) atks (B1) (Nonriverine to Deposits (B2) (Nonriverine soil Cracks (B6) n Visible on Aerial Ima Soil Cracks (B6) ations: Present? Y	e) iverine) ne) agery (B7) /es N	Salt Crust	st (B12) vertebrates (B Sulfide Odor Rhizospheres of Reduced In n Reduction i Surface (C7 olain in Rema	(C1) along Living ron (C4) in Tilled Soil)	ils (C6)	X V X S S S S S S S S S	Vater Marks (E dediment Depo prift Deposits (prainage Patte pry-Season Water Crayfish Burrow deaturation Visil Shallow Aquita AC-Neutral Te	31) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) ws (C8) ole on Aerial Imard (D3) est (D5)	rine)
etland Hydrimary Indica Surface V High Water Ma Sediment Drift Depo Surface S Inundatio Surface S eld Observator	rology Indicators: stors (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine to Deposits (B2) (Nonriverine soil Cracks (B6) n Visible on Aerial Ima Soil Cracks (B6) ations: Present? Yesent? Yesent?	e) iverine) ne) agery (B7) /es N	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrates (B Sulfide Odor Rhizospheres of Reduced In n Reduction i Surface (C7 olain in Rema	(C1) along Living ron (C4) in Tilled Soil)	ils (C6)	X V X S X C X C C X C C X C C X C C X C C X C C X C C X C C X C C X C	Vater Marks (E dediment Depo prift Deposits (prainage Patte pry-Season Water Crayfish Burrow deaturation Visil Shallow Aquita AC-Neutral Te	31) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) ws (C8) ole on Aerial Imard (D3)	rine)
Vetland Hydrimary Indica Surface V High Wate Saturatio Water Ma Sediment Drift Dept Surface S Inundatio Surface S Vetld Observation Vater Table Presented	rology Indicators: stors (minimum of one Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine to Deposits (B2) (Nonriverine soil Cracks (B6) n Visible on Aerial Ima Soil Cracks (B6) ations: Present? Yesent? Yesent?	e) iverine) ne) agery (B7) /es N	Salt Crust	st (B12) vertebrates (B Sulfide Odor Rhizospheres of Reduced In n Reduction i Surface (C7 olain in Rema	(C1) along Living ron (C4) in Tilled Soil)	ils (C6)	X V X S S S S S S S S S	Vater Marks (E dediment Depo prift Deposits (prainage Patte pry-Season Water Crayfish Burrow deaturation Visil Shallow Aquita AC-Neutral Te	31) (Riverine) sits (B2) (Riverine) B3) (Riverine) rns (B10) ater Table (C2) ws (C8) ole on Aerial Imard (D3) est (D5)	rine) agery (C9)
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CT_drainage 2.2	
Project Project	CALTrans Wetlands
ID	128098
Survey Date	01/07/2021
User	Sheryl Creer
Surveyor Name	S. Creer, J. Holson
Drainage Description	
Feature ID	06 (Putah Creek)
Drainage Condition	01 - Natural
Regime	Perennial
Regime Evidence	Water present year round.
Measurements (in feet)	
OHWM Width (FEET)	32
OHWM Depth (FEET)	1.5
TOB Width (FEET)	40
TOB Depth (FEET)	8
OHWM Attributes	
Primary OHWM Indicator(s): I	break in slope, change in vegetation
Secondary OHWM Indicators	: erosion/scour
Substrate above OHWM: UNI	K
Substrate below OHWM: 01 -	clay silt (<0.05 mm)
Water present?	Yes
Depth (feet)	1
Canopy and Vegetation	
Riparian Canopy Present?	Yes
Total Canopy Cover (%)	25 (CDFW only)
Canopy Species 1	
Taxon	
Absolute Cover (%)	
Comments	CDFW canopy only; juvenile trout observed. Becomes more channelized under overpass.
Photo	Photos 9 and 10 in Appendix C

CT_drainage 2.2	
Project	CALTrans Wetlands
ID	128207
Survey Date	01/08/2021

User	Sheryl Creer
Surveyor Name	S. Creer, J. Holson
Drainage Description	
Feature ID	27
Drainage Condition	03 - Artificial
Describe	Ditch
Regime	Intermittent
Regime Evidence	
Measurements (in feet)	
OHWM Width (FEET)	3
OHWM Depth (FEET)	.3
TOB Width (FEET)	5
TOB Depth (FEET)	3
OHWM Attributes	
Primary OHWM Indicator(s)	break in slope, change in vegetation
Secondary OHWM Indicators	erosion/scour
Substrate above OHWM	01 - clay silt (<0.05 mm)
Substrate below OHWM	01 - clay silt (<0.05 mm)
Water present?	Yes
Depth (feet)	.25
Canopy and Vegetation	
Riparian Canopy Present?	No
Comments	Ag ditch excavated in uplands.
Photo	None
CT_drainage 2.2	
-	CALTrans Wetlands
Project ID	128227
Survey Date	01/08/2021
User	Sheryl Creer
Curvoyor Namo	S. Crook I. Holson

CT_drainage 2.2	
Project	CALTrans Wetlands
ID	128227
Survey Date	01/08/2021
User	Sheryl Creer
Surveyor Name	S. Creer, J. Holson
Drainage Description	
Feature ID	19
Drainage Condition	03 - Artificial
Describe	Ag Ditch *classified and mapped as vegetated ditch based on vegetation
Regime	Intermittent
Regime Evidence	Water present on and off
Measurements (in feet)	
OHWM Width (FEET)	8

OHWM Depth (FEET)	1.5
TOB Width (FEET)	25
TOB Depth (FEET)	6
OHWM Attributes	
Primary OHWM Indicator(s)	
Secondary OHWM Indicators	
Substrate above OHWM	
Substrate below OHWM	
Water present?	Yes
Depth (feet)	1.5
Canopy and Vegetation	
Riparian Canopy Present?	No
Comments	Ludwigia; ranunculus; typhus

Photo:



CT_drainage 2.2	
Project	CALTrans Wetlands
ID	128260
Survey Date	01/08/2021
User	Sheryl Creer
Surveyor Name	S. Creer, J. Holson
Drainage Description	
Feature ID	19
Drainage Condition	03 - Artificial

Describe	Ag Canal
Regime	Intermittent
Regime Evidence	Water present on and off
Measurements (in feet)	
OHWM Width (FEET)	See aerial photo (Approx 30')
OHWM Depth (FEET)	.5
TOB Width (FEET)	Same as OHWM
TOB Depth (FEET)	3.5
OHWM Attributes	
Primary OHWM Indicator(s)	
Secondary OHWM Indicators	
Substrate above OHWM	
Substrate below OHWM	
Water present?	Yes
Depth (feet)	.25
Canopy and Vegetation	
Riparian Canopy Present?	No
Comments	Unvegetated. Supports riparian veg. Schoenoplectus; Salix goodingii
Photo	None

CT_drainage 2.2	
Project	CALTrans Wetlands
ID	132486
Survey Date	02/22/2021
User	Sheryl Creer
Surveyor Name	S. Creer, J. Holson
Drainage Description	
Feature ID	35
Drainage Condition	01 - Natural
Regime	Perennial
Regime Evidence	TNW; Sacramento River
Measurements (in feet)	

Measurements (in feet)	
OHWM Width (FEET)	
OHWM Depth (FEET)	
TOB Width (FEET)	
TOB Depth (FEET)	

OHWM Attributes	
Primary OHWM Indicator(s)	break in slope, change in vegetation
Secondary OHWM Indicators	bank undercut

Substrate above OHWM	01 - clay silt (<0.05 mm), 02 - sand (0.05 - 2 mm), 03 - gravel (2 mm - 1 cm)
Substrate below OHWM	
Water present?	Yes
Depth (feet)	
Canopy and Vegetation	
Riparian Canopy Present?	Yes
Total Canopy Cover (%)	60
Canopy Species 1	
Taxon	Salix gooddingii / Gooding's willow, Goodding's black willow
Absolute Cover (%)	40
Canopy Species 2	
Taxon	Salix exigua / Narrowleaf willow
Absolute Cover (%)	20
Comments	See aerial for mapping. Sacramento River
Photo	Appendix C, Photos 33-35
111000	
CT_drainage 2.2	
Project	CALTrans Wetlands
ID	132796
Survey Date	02/23/2021
User	Sheryl Creer
Surveyor Name	S. Creer, J. Holson
Drainage Description	
Feature ID	25
Drainage Condition	03 - Artificial
Describe	Canal - Prospect Slough
Regime	Perennial
Regime Evidence	Aerial, Toe Drain Canal
Measurements (in feet)	
OHWM Width (FEET)	
OHWM Depth (FEET)	
TOB Width (FEET)	
TOB Depth (FEET)	50
OHWM Attributes	
Primary OHWM Indicator(s)	break in slope, change in vegetation
Secondary OHWM Indicators	bank undercut, drift/wrack, erosion/scour, root exposure, shelving
Substrate above OHWM	01 - clay silt (<0.05 mm), 02 - sand (0.05 - 2 mm)
Substrate below OHWM	
Water present?	Yes

Depth (feet)

Canopy and Vegetation	
Riparian Canopy Present?	Yes
Total Canopy Cover (%)	60
Canopy Species 1	
Taxon	Salix gooddingii / Gooding's willow, Goodding's black willow
Absolute Cover (%)	40
Comments	See aerial for mapping. Test pits for veg.
Photo	None

CT_drainage 2.2	
Project	CALTrans Wetlands
ID	132797
Survey Date	02/23/2021
User	Sheryl Creer
Surveyor Name	S. Creer, J. Holson
Drainage Description	
Feature ID	33
Drainage Condition	03 - Artificial
Describe	Ditch
Regime	Ephemeral
Regime Evidence	Not holding water after rains
Measurements (in feet)	
OHWM Width (FEET)	3
OHWM Depth (FEET)	2
TOB Width (FEET)	10
TOB Depth (FEET)	7
OHWM Attributes	
Primary OHWM Indicator(s)	break in slope, change in vegetation
Secondary OHWM Indicators	drift/wrack, erosion/scour
Substrate above OHWM	01 - clay silt (<0.05 mm), 02 - sand (0.05 - 2 mm)
Substrate below OHWM	01 - clay silt (<0.05 mm)
Water present?	No
Canopy and Vegetation	
Riparian Canopy Present?	No
Comments	Veg is quercus lobata; ditch
Photo	Appendix C, Photos 31 and 33





Table E-1. Plant Species Observed

Scientific Name	Common Name	Wetland Indicator Status	Origin		
A	Adoxaceae (Muskroot Family)				
Sambucus nigra ssp. caerulea	blue elderberry	FAC	native		
Aı	nacardiaceae (Sumac Fami	ly)			
Schinus molle	Peruvian pepper tree	UPL	non-native (invasive)		
	Apiaceae (Carrot Family)		,		
Daucus carota	carrot	FACU	non-native (invasive)		
Foeniculum vulgare	fennel		non-native (invasive)		
Ар	ocynaceae (Milkweed Fam	ily)			
Nerium oleander	oleander	_	non-native (invasive)		
Vinca major	vinca		non-native (invasive)		
	Araliaceae (Ginseng Family	')			
Hedera helix	English ivy	FACU	non-native (invasive)		
A	steraceae (Sunflower Fami	ly)			
Carduus pycnocephalus I. pycnocephalus	Italian thistle	_	non-native		
Centaurea solstitialis	yellow starthistle	_	non-native (invasive)		
Cichorium intybus	chicory	FACU	non-native		
Erigeron canadensis	Canada horseweed	FACU	native		
Grindelia stricta	gumweed	FACW	native		
Pseudognaphalium luteoalbum	Jersey cudweed	FACW	non-native		
Silybum marianum	milk thistle	_	non-native (invasive)		
Betulaceae (Birch Family)					
Alnus rhombifolia	white alder	FACW	native		
Betula occidentalis	water birch	FACW	native		
Brassicaceae (Mustard Family)					
Capsella bursa-pastoris	shepherd's purse	FACU	non-native		
Hirschfeldia incana	mustard	_	non-native (invasive)		
Lepidium latifolium	perennial pepperweed	FAC	non-native (invasive)		
Raphanus sativus	jointed charlock		non-native (invasive)		

Scientific Name	Common Name	Wetland Indicator Status	Origin			
Cupressaceae (Cypress Family)						
Sequoia sempervirens	Coast redwood	_	native			
	Cyperaceae (Sedge Family)					
Cyperus eragrostis	tall cyperus	FACW	native			
Schoenoplectus acutus var. occidentalis	tule	OBL	native			
	Dipsacaceae (Teasel Family	<u>(</u>)				
Dipsacus fullonum	wild teasel	FAC	non-native (invasive)			
	Fabaceae (Legume Family)					
Albizia julibrissin	silktree	_	non-native			
Medicago polymorpha	California burclover	FACU	non-native (invasive)			
Melilotus officinalis	yellow sweetclover	FACU	non-native (invasive)			
Robinia pseudoacacia	black locust	FACU	non-native (invasive)			
Trifolium subterraneum	subterranean clover	_	non-native			
Vicia sativa	spring vetch	UPL	non-native			
Vicia villosa	hairy vetch	_	non-native (invasive)			
	Fagaceae (Oak Family)					
Quercus agrifolia	coast live oak	_	native			
Quercus lobata	valley oak	FACU	native			
Quercus wislizeni	interior live oak, chapparal oak	_	native			
Ge	Geraniaceae (Geranium Family)					
Erodium cicutarium	coastal heron's bill	_	non-native (invasive)			
Geranium molle	crane's bill geranium	_	non-native (invasive)			
Juglandaceae (Walnut Family)						
Juglans regia	English walnut		non-native			
Lamiaceae (Mint Family)						
Mentha pulegium	pennyroyal	OBL	non-native (invasive)			
Myrtaceae (Myrtle Family)						
Eucalyptus sp.	_		non-native (invasive)			

Scientific Name	Common Name	Wetland Indicator Status	Origin	
	Oleaceae (Olive Family)			
Fraxinus latifolia	Oregon ash	FACW	native	
Ligustrum japonicum	Japanese privet	UPL	non-native	
Onagr	aceae (Evening-Primrose F	amily)		
Epilobium brachycarpum	willow herb	_	native	
Oenothera biennis	small flowered evening primrose	FACU	non-native	
	Oxalidaceae (Oxalis Family)		
Oxalis pes-caprae	Bermuda buttercup		non-native (invasive)	
Р	Papaveraceae (Poppy Family)			
Eschscholzia californica	California poppy	_	native	
Pla	ntaginaceae (Plantain Fam	ily)		
Plantago lanceolata	ribwort	FACU	non-native (invasive)	
Pla	atanaceae (Sycamore Fami	ly)	,	
Platanus racemosa	California sycamore	FACW	native	
	Poaceae (Grass Family)		,	
Aira caryophyllea	silvery hairgrass	FACU	non-native (invasive)	
Arundo donax	giant reed	FACW	non-native (invasive)	
Avena fatua	wildoats	_	non-native (invasive)	
Bromus diandrus	ripgut brome	_	non-native (invasive)	
Cortaderia sp.	_	_	non-native (invasive)	
Cynodon dactylon	Bermuda grass	FACU	non-native (invasive)	
Distichlis spicata	salt grass	FACW	native	
Elymus glaucus	blue wildrye	FACU	native	
Festuca perennis	Italian rye grass	FAC	non-native	
Hordeum marinum ssp. gussoneanum	barley	FAC	non-native	
Hordeum murinum	foxtail barley	FAC	non-native (invasive)	
Oryza sativa	domestic rice	OBL	non-native	
Paspalum dilatatum	dallis grass	FAC	non-native	
Phalaris aquatica	Harding grass	FACU	non-native (invasive)	

Scientific Name	Common Name	Wetland Indicator Status	Origin	
Polypogon monspeliensis	annual beard grass	FACW	non-native (invasive)	
Sorghum halepense	Johnsongrass	FACU	non-native (invasive)	
Stipa miliacea var. miliacea	smilo grass	_	non-native	
Poly	/gonaceae (Buckwheat Far	nily)		
Persicaria hydropiperoides	water pepper	OBL	native	
Rumex crispus	curly dock	FAC	non-native (invasive)	
	Rosaceae (Rose Family)			
Cotoneaster sp.	_	_	non-native (invasive)	
Prunus dulcis	almond	_	non-native	
Rubus armeniacus	Himalayan blackberry	FAC	non-native (invasive)	
Rubus ursinus	California blackberry	FACU	native	
Rubiaceae (Madder Family)				
Galium sp.	_	_	native	
	Salicaceae (Willow Family)			
Populus fremontii ssp. fremontii	cottonwood	FAC	native	
Populus nigra	Lombardy poplar	_	non-native	
Salix exigua	narrowleaf willow	FACW	native	
Salix gooddingii	Gooding's willow	FACW	native	
Sa	pindaceae (Soapberry Fam	ily)		
Acer macrophyllum	bigleaf maple	FACU	native	
Acer negundo	Boxelder	FAC	native	
Solanaceae (Nightshade Family)				
Nicotiana glauca	tree tobacco	FAC	non-native (invasive)	
Typhaceae (Cattail Family)				
Typha latifolia	broadleaf cattail	OBL	native	
Ulmaceae (Elm Family)				
Ulmus parvifolia	Siberian elm	UPL	non-native	
Viscaceae (Mistletoe Family)				
Phoradendron leucarpum	American mistletoe	_	native	