

BR-2 – DRAFT AQUATIC RESOURCES DELINEATION REPORT

Draft Aquatic Resources Delineation Report Country Acres Solar Project



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ACRONYMS AND ABBREVIATIONS

2020 Final Rule	Navigable Waters Protection Rule: Definition of "Waters of the United States"
AC	agricultural canal
AD	agricultural ditch
APNs	Assessor Parcel Numbers
CFR	Code of Federal Regulation
CNPS	California Native Plant Society
CWA	Clean Water Act
D	Ditch
EPA	U.S. Environmental Protection Agency
FAC	Facultative
FACU	Facultative upland
FACW	Facultative wetland
FR	Federal Register
GPS	Global Positioning System
ID	intermittent drainages
LRR-C	Land Resource Region Subregion C aka "Mediterranean California"
MW	megawatt
msl	mean sea level
MCV	Manual of California Vegetation
NL	Not listed
NRCS	Natural Resources Conservation Service
NWI	National Wetlands Inventory
OBL	Obligate
OHWM	Ordinary High Water Mark
PEM	perennial emergent marsh
PEM1A	palustrine emergent persistent temporarily flooded
PEMC1	palustrine, emergent, persistent, seasonally flooded
PEM1Cx	palustrine, emergent, persistent, seasonally flooded, excavated
PSSA	palustrine, scrub-shrub, temporary flooded
PSSC	palustrine, scrub-shrub, seasonally flooded
PV	photovoltaic
R4SBA	riverine, intermittent, streambed, temporarily flooded
R4SBC	riverine, intermittent, streambed, seasonally flooded
SM	seasonal marsh
SMUD	Sacramento Municipal Utility District
SW	seasonal wetland
SWANCC	Solid Waste Agency of Northern Cook County
SWS	seasonal wetland swale

TNW	Traditional Navigable Water
U.S.	United States
UPL	Obligate upland
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VP	vernal pool
W	wetland
WGS 84	World Geodetic System datum
WOTUS	waters of the U.S.
WRCC	Western Regional Climate Center

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INTRODUCTION

On behalf of the Sacramento Municipal Utility District (SMUD), AECOM has prepared this aquatic resource delineation report documenting potential wetlands and waters of the United States (U.S.) for the Country Acres Solar Project, located in Placer County, California (Exhibit 1, Appendix A). The purpose of this report is to provide an accurate quantification and delineation of potentially jurisdictional waters of the U.S., including wetlands, in accordance with 33 Code of Federal Regulations (CFR) §328 of the Clean Water Act (CWA) for the proposed project. The delineation of waters of the U.S. is considered draft until verified by the U.S. Army Corps of Engineers (USACE) Sacramento District Regulatory Division.

The project proposed by SMUD is to construct and operate a new photovoltaic (PV) facility located on leased lands in southwestern Placer County, CA. The conceptual project area (Source: Data compiled by AECOM in 2022

Exhibit 2, Appendix A) includes a PV solar power and battery storage facility and interconnection facilities, including a generation substation, switch station, and interconnection lines to the existing SMUD transmission system. The project design has not yet been finalized but will encompass up to 1,300 acres. The wetland delineation study area encompasses the entire conceptual project area plus additional survey buffer areas to the edge of parcel boundaries, where accessible, totaling approximately 1,170 acres of vacant grassland and agricultural (rice fields and almond orchards) parcels and channelized drainages, ditches, and seasonal wetlands. The site is expected to deliver up to 344 megawatt (MW) of solar energy at the point of interconnection. The facility size and design will be influenced by the findings of this report.

DELINEATION METHODS

To evaluate all areas of possible aquatic resources, including potentially jurisdictional wetlands and waters of the U.S., within the study area prior to the field delineation, an AECOM wetland ecologist used Google Earth to review aerial imagery at various times of the year from 1985 to 2020 (Google Earth 2021), the USFWS National Wetlands Inventory (NWI) Wetlands Mapper to review areas and types of wetlands (USFWS 2021), the U.S. Geological Survey (USGS) National Map (USGS 2021a) to review drainage patterns and hydrology, and the Natural Resources Conservation Service's (NRCS) Online Soil Survey (NRCS 2021a) to check for the presence of hydric soils in the study area. In addition, previous delineation reports from within and adjacent to the study area were reviewed and later ground-truthed in the field (ECORP 2017). Three AECOM wetland ecologists, William Splittstoesser, Charles Battaglia, and Jasmine Wurlitzer, and two Bargas wetland ecologists, Owen Routt and Bekah Christianson, conducted field surveys April 7th – April 9th, April 16th, April 22nd, April 23rd, April 26th, April 30th, July 14th, August 16th, August 18th, and August 31st, 2021.

The delineation of the study area was based on information and guidance in the USACE 1987 *Wetlands Delineation Manual* (Environmental Laboratory 1987) and *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (Environmental Laboratory 2010), *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States, A Field Manual* (Lichvar and McColley 2008) and the USACE Regulatory Guidance Letter No. 05-05, which provides further guidance on OHWM identification (USACE 2005). The Regional Supplement and USACE Regulatory Guidance Letter No. 05-05 provide technical guidelines and methods for identifying waters that may be subject to USACE jurisdiction under Section 404 of the CWA. The 1987 manual and 2010 Arid West Supplement provide technical guidelines and methods for the threeparameter approach to determining the location and boundaries of jurisdictional wetlands. This approach requires that an area supports positive indicators of hydrophytic vegetation, hydric soils, and wetland hydrology to be considered a jurisdictional wetland. Routine wetland determination data forms were completed for fifty-five (55) sample points and are provided in Appendix B.

Potentially jurisdictional areas (other waters) and the OHWM were identified and recorded digitally in the field using a Global Positioning System (GPS) data receiver (Trimble R1® and Arrow 100®) connected to an Apple® iPhone or iPad and imported onto an electronic version of an aerial photograph. GPS data were recorded using the World Geodetic System datum (WGS 84), which was established by the United States National Geospatial-Intelligence Agency in 1984 and last revised in 2004.

Soils were examined by digging soil test pits to determine whether hydric soils exist in a sampling location. Soils were described in terms of depth, matrix color, redoxymorphic color (when present), and moisture status at each sampling location. Other diagnostic features indicative of hydric soils, such as the presence of concretions and oxidized rhizospheres (a redoximorphic feature, according to Vepraskas [1992]), were also recorded on data forms. Hydric soil determinations were based on the indicators provided by the 1987 Wetlands Delineation Manual, 2008 Arid West Supplement, *Field Indicators of Hydric Soils in the United States: A Guide for Identifying and Delineating Hydric Soils* (NRCS 2018), and *Redoximorphic Features for Identifying Aquic Conditions* (Vepraskas 1992). Soil units mapped for the study area as part of the soil survey were cross-referenced with the National Hydric Soils List (NRCS 2021b) to determine whether the soils are listed as a hydric map unit.

Wetland hydrology was assessed by recording observations of drainage patterns, watermarks, flooded or saturated soil conditions, and other indicators. In addition, potentially jurisdictional areas were evaluated in terms of their status as navigable waterways or their adjacency or hydrologic connections to navigable waterways. Other waters were delineated based on the presence of an OHWM. A drainage feature's OHWM is typically defined by characteristics such as shelving, scour lines, and other natural linear features that define the bed-and-bank portion of the channel that floods under normal conditions (USACE 2005). The OHWM was recorded by walking along the slope break and shift in herbaceous cover, digitally recording lines.

Botanical nomenclature in this report follows *The Jepson eFlora: Vascular Plants of California* (Jepson Flora Project 2021). Plant community names follow *A Manual of California Vegetation: Second Edition* (CNPS 2021), where applicable. Plants observed in the study area during the field survey were identified to the species level whenever possible. To determine whether hydrophytic vegetation dominated an area, plant species at ditch crosssections were listed on the OHWM data form, and the wetland indicator status was recorded for each dominant species using the National Wetland Plant List (USACE 2018). Hydrophytic species are those listed as obligate (OBL), facultative wetland (FACW), or facultative (FAC). A species' wetland indicator status designation corresponds to the probability that the species will occur in a wetland habitat. Observed plants are referenced in the text below along with their wetland indicator status (USACE 2018), which are defined using the following terms:

- Obligate wetland plant species (OBL) Plants that almost always occur in wetlands under natural conditions (estimated probability >99 percent), but which rarely occur in non-wetlands.
- Facultative wetland plant species (FACW) Plants that occur usually (estimated probability >67 percent to 99 percent) in wetlands, but also occur in non-wetlands.

- ► Facultative plant species (FAC) Plants with a similar likelihood (estimated probability 33 percent to 67 percent) of occurring in both wetlands and non-wetlands.
- Facultative upland plant species (FACU) Plants that occur sometimes (estimated probability 1 percent to <33 percent) in wetlands but occur more often in non-wetlands.
- Obligate upland plant species (UPL) Plants that occur rarely (estimated probability <1 percent) in wetlands but occur almost always in non-wetlands.
- Not Listed (NL) Plant species for which insufficient information was available to determine an indicator status and are treated as upland species because they do not on occur on the wetland plant list. Plants not listed on the 2018 National Wetland Plant List are listed on the data forms as NL and assumed to be UPL consistent with standard protocol.

REGULATORY SETTING

The Navigable Waters Protection Rule: Definition of "Waters of the United States" (2020 Final Rule) (85 Federal Register [FR] 22250) was published under the previous administration on April 21, 2020. However, on June 9, 2021, the U.S. Environmental Protection Agency (EPA) and USACE (the agencies), under the Biden administration, announced their intent to revise the definition of waters of the U.S. (WOTUS) as described under the 2020 Final Rule (EPA 2021). The agencies reviewed the 2020 Final Rule and determined that the rule significantly reduces clean water protections. On September 3, 2021, the EPA and USACE received the U.S. District Court for the District of Arizona's August 30, 2021 order vacating and remanding the 2020 Final Rule in the case of Pascua Yaqui Tribe v. U.S. Environmental Protection Agency. Considering this order, the EPA and USACE halted implementation of the Navigable Waters Protection Rule and are interpreting "waters of the United States" consistent with the pre-2015 regulatory regime until further notice. The agencies continue to review the order and consider next steps, including moving forward with the rulemakings announced on June 9, 2021 (EPA 2021). On November 18, 2021, the agencies announced the signing of a proposed rule to revise the definition of "waters of the United States" and put back into place the pre-2015 definition of "waters of the United States," updated to reflect consideration of Supreme Court decisions in order to support a stable implementation of "waters of the United States" while the agencies continue to consult with states, Tribes, local governments, and stakeholders in both the implementation of WOTUS and future regulatory actions (EPA 2021).

Pre-2015 regulations defining WOTUS include the 2001 and 2003 guidance developed by EPA and the USACE following the *Solid Waste Agency of Northern Cook County (SWANCC) v. United States* Supreme Court Decision, and the 2007 and 2008 guidance defining WOTUS under the CWA following the *Rapanos v. United States* and *Carabell v. United States* Supreme Court decisions. Under this pre-2015 regulatory regime, waters considered "waters of the United States" are defined in accordance with 40 CFR 230.3(s), copied and listed below, and agencies are interpreting WOTUS consistent with the pre-2015 regime until further notice (EPA 2015, 2021):

40 CFR 230.3(s)

The term "waters of the United States" means:

- 1. All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
- 2. All interstate waters including interstate wetlands;

- 3. All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect interstate or foreign commerce including any such waters:
 - a. Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
 - b. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
 - c. Which are used or could be used for industrial purposes by industries in interstate commerce;
- 4. All impoundments of waters otherwise defined as waters of the United States under this definition;
- 5. Tributaries of waters identified in paragraphs (s)(1) through (4) of this section;
- 6. The territorial sea;
- 7. Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (s)(1) through (6) of this section; waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 CFR 423.11(m) which also meet the criteria of this definition) are not waters of the United States.

Waters of the United States do not include prior converted cropland. Notwithstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with EPA (EPA 2021).

The conclusions of this report are consistent with the pre-2015 court decisions and are considered preliminary until verified by the Sacramento District of the USACE.

STUDY AREA SETTING

The study area is located within the Pleasant Grove USGS 7.5-minute quadrangle (USGS 2018), and within Township 11N, Range 05E, Sections 16, 17, 20, 21, 22, 27, 28, 33, and 34. It consists of leased agricultural parcels used for rice and almond production in southwestern Placer County, California. The study area is generally bounded by Baseline Road to the South, S Brewer Street to the West, Phillip Road to the North, and the Westpark neighborhood of Roseville to the East (Exhibit 1, Appendix A). Surrounding land uses include additional rice fields and almond orchards, urban development, and open space areas with seasonal wetland, riparian, and annual grassland vegetation. The majority of the region is privately owned and developed for agricultural, industrial, residential, and transportation uses.

CLIMATE AND TOPOGRAPHY

The study area is located within the Mediterranean California (LRR-C) sub-region of the Arid West Region, which is characterized by relatively warm, wet winters and dry summers, with most of the precipitation falling between November and April (Environmental Laboratory 2008). During the field delineation, weather conditions ranged from cool and breezy to sunny and hot with temperatures ranging from 60° to 85° Fahrenheit and winds of 0 to 15 miles per hour.

The nearest National Weather Service station to the study area with a complete climate summary, as reported by the Western Regional Climate Center, is in Sacramento California (WRCC 2021). Based on records from the Sacramento Station, the study area receives an average of 18.15 inches of rainfall each year, with most rainfall occurring from December to March (WRCC 2021).

Topography in the study area is generally flat (0-5%). The elevation varies between approximately 58 and 100 feet above mean sea level (msl).

HYDROLOGY

The study area overlaps portions of the Curry Creek and Upper Steelhead Creek watersheds, and the Pleasant Grove Creek watershed is located immediately to the north (Exhibit 3, Appendix A). Each of the primary drainages within these watersheds flow east to west. Approximately 5 miles west of the study area, Curry Creek and Pleasant Grove Creek, which are both mapped as intermittent drainages at this point, enter the Pleasant Grove Creek Canal, which flows northwest and then abruptly turns southwest before draining into the Sacramento River (USGS 2021a). The Upper Steelhead Creek watershed contains several unnamed ephemeral and intermittent streams that flow west and drain into the Natomas East Main Drainage Canal (a.k.a. Steelhead Creek), which is a channelized waterway that flows south for approximately 11 miles before entering the Sacramento River upstream and almost immediately adjacent to the confluence of the American River (USGS 2021a).

Of the three primary drainages described above, Curry Creek and two of its tributaries are the only drainages that overlap with the study area. Due to rice and orchard agriculture development, the sections of Curry Creek and the two tributaries within the study area are primarily channelized and function like agricultural canals or ditches. Curry Creek originates approximately 3 miles southeast of the study area in grassland habitat and flows west towards the study area as a relatively natural ephemeral drainage. Where it meets the study area near the southeast corner, USGS (2021a) maps it as intermittent, and it follows the boundary north and then crosses west through the center of the lower half of the study area. On the west side of the study area, it then turns north again along the boundary for a short distance before exiting to the west (Exhibit 3, Appendix A; USGS 2021a; USFWS 2021). The two other unnamed drainages enter and cross through the study area to the north, and like Curry Creek, they both originate to the east as ephemeral drainages. One meets the study area approximately 1 mile north of where Curry Creek enters, and it also changes from ephemeral to intermittent at the entry point; the second is approximately 0.5 mile farther north and is mapped as ephemeral until it turns south before it drains into Curry Creek. The NWI maps Curry Creek as freshwater forested/shrub wetland for approximately two miles extending west from the study area, transitioning to a freshwater emergent wetland and then a riverine feature (USFWS 2021). Curry Creek is classified as both PEMC1 (palustrine, emergent, persistent, seasonally flooded) and R4SBC (riverine, intermittent, streambed, seasonally flooded) at different points of the channel, depending primarily on the dominance of emergent vegetation (USFWS 2021).

Hydrology in the study area is influenced by a combination of natural direct seasonal precipitation in the winter and early spring and agricultural irrigation practices during the late spring and summer, including deliberate flooding of fields for rice production and drip irrigation of almond orchards. Rice fields are also often flooded in late fall, after the harvest, to promote decomposition and provide habitat for migratory waterfowl and shorebirds that overwinter in the Central Valley. Water used to flood the rice fields and irrigate almond orchards within the study area is sourced from wells that utilize groundwater. A network of channelized drainages and interconnected ditches traverse the study area and convey water through the site. Drainage gradients across the site flow from east to west.

The nearest weather station is a rain accumulation sensor at the Pleasant Grove Creek Pump Station just west of where Pleasant Grove Creek intersects the railroad (#1786), approximately 2.94 miles west of the study area (Sacramento County 2021). At the time of the field investigation, 4.92 inches of precipitation (below average) had been recorded for the 2021 water year, which began on October 1, 2020. The last precipitation recorded in 2021 prior to the field survey was 0.39 inches on March 18th (Sacramento County 2021).

SOILS

According to NRCS Soil Survey of Sacramento County, California (NRCS 2021a), the soils within the study area belong to five soil series: Alamo-Fiddyment complex, 0 to 5 percent slopes; Cometa-Fiddyment complex, 1 to 5 percent slopes; Fiddyment loam, 1 to 8 percent slopes; Fiddyment-Kaseberg loams, 2 to 9 percent slopes; San Joaquin-Cometa sandy loams, 1 to 5 percent slopes; and Xerofluvents, hardpan substratum. The specific soil map units occurring within the study area and its hydric status, according to the National Hydric Soils List, (NRCS 2021b) are presented below in Table 1, and the location of each soil unit within the study area, as mapped by NRCS, is depicted on the soils map in Exhibit 4. in Appendix A.

Table 1. Soil Units Present within the Study Area

Soil Unit	Soil Unit Number	Hydric Soil
Alamo-Fiddyment complex, 0 to 5 percent slopes	104	Yes
Cometa-Fiddyment complex, 1 to 5 percent slopes	141	No
Fiddyment loam, 1 to 8 percent slopes	146	No
Fiddyment-Kaseberg loams, 2 to 9 percent slopes	147	No
San Joaquin-Cometa sandy loams, 1 to 5 percent slopes	182	No
Xerofluvents/Wunjey, hardpan substratum	195	No

ALAMO-FIDDYMENT COMPLEX, 0 TO 5 PERCENT SLOPES

The Alamo-Fiddyment complex, 0 to 5 percent slopes map unit is composed of Alamo (50 percent) and Fiddyment (30 percent) major soil types and the San Joaquin (10 percent), Kaseburg (5 percent), and Cometa (5 percent) inclusions or minor components. One major soil type, Alamo, is rated as hydric (NRCS 2021b). Alamo soils are poorly drained, have very slow runoff and ponding from December to April when the water table is near the surface. Strongly cemented duripan results in very slow permeability. Alamo soils are in nearly level basins and drainageways on fan remnants and floodplains. The Alamo soils are used for irrigated pasture crops such as rice.

COMETA-FIDDYMENT COMPLEX, 1 TO 5 PERCENT SLOPES

The Cometa-Fiddyment complex, 1 to 5 percent slopes map unit is composed of Cometa (40 percent) and Fiddyment (30 percent) major soil types and the San Joaquin (10 percent), Kaseberg (10 percent), Ramona (5 percent), and Alamo (5 percent) inclusions or minor components. One inclusion, Alamo, is rated as hydric (NRCS 2021b). Cometa soils are well to moderately well drained, have slow to medium runoff, and very slow permeability. Cometa soils are on gently sloping and undulating slightly dissected older stream terraces with

slopes of 0 to 15 percent. Cometa soils are used for cropland and grazing. Main crops include fruits, nuts, small grains, and irrigated pasture crops such as rice.

FIDDYMENT LOAM, 1 TO 8 PERCENT SLOPES

Fiddyment soils are well drained, have slow to medium runoff, and very slow permeability due the presence of a hardpan or claypan layer. Fiddyment soils are on low terraces and hills with slopes of 0 to 15 percent. Fiddyment soils are used for rangeland, non-irrigated crops, urban development, and occasionally irrigated pasture.

FIDDYMENT-KASEBERG COMPLEX, 2 TO 9 PERCENT SLOPES

The Fiddyment-Kaseberg loams, 2 to 9 percent slopes map unit is composed of Fiddyment (50 percent) and Kaseberg (30 percent) major soil types and the Alamo (10 percent) and unnamed (10 percent) inclusions or minor components. One inclusion, Alamo, is rated as hydric (NRCS 2021b). Fiddyment soils are described above. Kaseberg soils are well drained, have slow to medium runoff, and moderate permeability, and are found on low-lying terraces and hill slopes of dissected terraces with slopes of 0 to 30 percent. Kaseberg soils are used for dryland grain, dryland pasture, and dryland rangeland.

SAN JOAQUIN-COMETA SANDY LOAMS, 1 TO 5 PERCENT SLOPES

The San Joaquin-Cometa sandy loams, 1 to 5 percent slopes map unit is composed of San Joaquin (40 percent) and Cometa (30 percent) major soil types and the Ramona (10 percent), Fiddyment (10 percent), Alamo (5 percent), and Kasenberg (5 percent) inclusions or minor components. One inclusion, Alamo, is rated as hydric (NRCS 2021b). San Joaquin soils are well- to moderately-well drained, have medium to high runoff, and very slow permeability. San Joaquin soils are on low terraces and valleys and are occasionally susceptible to flooding. Slopes are 0 to 9 percent. These soils are used for cropland and grazing. Main crops include fruits, nuts, small grains, and irrigated pasture crops such as rice.

XEROFLUVENTS HARDPAN SUBSTRATE

The Xerofluvents, hardpan substratum map unit is composed of Xerofluvents (85 percent) major soil types and the Alamo (10 percent), Unnamed A (3 percent), and Unnamed B (2 percent) inclusions or minor components. One minor inclusion, Alamo, is rated as hydric (NRCS 2021b). Xerofluvent soils are moderately well to well drained, have slow runoff and moderate to rapid permeability. Xerofluvent soils occur on nearly level to channeled floodplains and recent alluvial fans at elevations of 150 to 300 feet. Xerofluvent soils are used mainly for dry pastures.

VEGETATION COMMUNITIES AND LAND COVER TYPES

Vegetation communities and other land cover types in the study area were documented during the field survey efforts in April, July, and August 2021, are described below, and their location and extent in the study area are shown on Exhibit 5a. and 5b in Appendix A. The Manual of California Vegetation was used to describe vegetation communities to the alliance level when possible (CNPS 2021); however, some communities, such as rice fields and pasture do not conform to Manual of California Vegetation (MCV) alliance types. All vascular plant species observed during the field surveys, along with their wetland indicator status, are listed in Appendix B, and representative photographs of land cover in the study area are provided in Appendix C. Table 2 lists the

vegetation communities as well as several non-vegetated land cover types (e.g., open water and developed areas) that were mapped in the study area, with acreages.

Vegetation Community/Land Cover Type	Acres
Almond Orchard	131.451
Annual Grassland	117.374
Cattail Marsh	4.186
Developed	31.624
Fremont Cottonwood Riparian	0.071
Himalayan Blackberry Thicket	0.232
Irrigated Pasture	0.035
Polygonum Wetland	0.303
Rice Field	872.755
Ruderal	4.406
Seasonal Wetland	5.310
Vernal Pool	1.478
Willow Riparian	0.632
Grand Total	1,169.587

Table 2. Vegetation Communities and Land Cover Types Present within the Study Area

ALMOND ORCHARD

After rice fields, almond orchard is the most prevalent land cover type in the study area. Portions of the northeastern and eastern boundaries and the entire southern extent of the study area consist entirely of and overlap with almond orchards, which are all newly planted. These orchards consist of rows of planted almond trees that are less than 10 feet in height and are highly disturbed by regular human disturbance, including pruning of trees, mowing of vegetation between rows, harvesting of fruit, application of drip irrigation throughout the summer growing season, and pesticide/herbicide application activities. Ruderal (i.e., weedy) vegetation is common throughout the almond orchards and is dominated by field bindweed (*Convolvulus arvensis*) (NL) intermixed with curly dock (*Rumex crispus*) (FAC).

ANNUAL GRASSLAND

The annual grassland vegetation community can be best described as an *Avena (barbata, fatua)* Herbaceous Semi-Natural Alliance, according to the Manual of California Vegetation (CNPS 2021). This vegetation alliance typically is dominated by nonnative wild oats (*Avena barbata* and/or *Avena fatua*). Grasslands in the study area have been disturbed by past and ongoing human activities including grazing, hay production, and disking and grading. Small patches of highly disturbed annual grassland are present in the central and southern extents of the study area, surrounded by rice fields and almond orchards, that are regularly disturbed by vehicle traffic and shallow disking.

In the study area, grassland vegetation cover is dominated by nonnative annual grasses consisting of wild oats, medusahead (*Elymus caput-medusae*) (NL), ripgut brome (*Bromus diandrus*) (NL), softchess brome (*Bromus hordeaceous*) (FACU), and brome fescue (*Festuca bromoides*) (FACU), as well as a mixture of native and nonnative herbs, including miniature lupine (*Lupinus bicolor*) (NL), wild radish (*Raphanus sativus*) (NL), filaree (*Erodium botrys*) (FACU), and narrow tarplant (*Holocarpha virgata*) (NL). Other common species observed in

the grasslands included Italian rye grass (*Festuca perennis*) (FAC), wild geranium (*Geranium dissectum*) (NL), hawkbit (*Leontodon saxatilis*) (FACU), white clover (*Trifolum repens*) (FACU), bull thistle (*Cirsium vulgare*) (FACU), suckling clover (*Trifolium dubium*) (UPL), and prickly lettuce (*Lactuca serriola*) (FACU). Less common species include silver-hair grass (*Aira caryophyllea*) (FACU), red maids (*Calandrinia menziesii*) (FACU), narrow leaved soaproot (*Chlorogalum angustifolium*) (NL), and doveweed (*Croton setiger*) (NL).

CATTAIL MARSH

Cattail marsh vegetation is present throughout the study area where shallow water is present for long periods of time, such as in the center of agricultural canals and channelized drainages that border rice fields, as well as in the floodplains of natural creek drainages. The cattail marsh vegetation community can be best described as a *Typha* (*angustifolia, domingensis, latifolia*) Herbaceous Alliance, according to the Manual of California Vegetation (CNPS 2021). This vegetation alliance is dominated by one or more species of cattails (i.e., narrow leaf cattail [*Typha angustifolia*], southern cattail [*Typha domingensis*], and/or broadleaf cattail [*Typha latifolia*]) in the herbaceous layer with common wetland plants, including sedges (*Cyperus* spp.) and rushes (*Juncus* spp.). Emergent trees may also be present at low cover, including willows (*Salix* spp.).

In the study area, the cattail marsh vegetation community is dominated by broadleaf cattail (OBL) with spikerush (*Eleocharis macrostachya*) (OBL), iris-leaved rush (*Juncus xiphioides*) (OBL), hyssop loosestrife (*Lythrum hyssopifolium*) (OBL), soft rush (*Juncus effusus*) (FACW), tall flatsedge (*Cyperus eragrostis*) (FACW), barnyard grass (*Echinocloa crus-galli*) (FACW), rabbitsfoot grass (*Polypogon monspeliensis*) (FACW), and smartweed (*Persicaria* sp.). A large break in an approximately 15-foot tall berm west of the rice fields connects an irrigation canal to a natural drainage/creek that is dominated by cattail marsh vegetation and flows westward outside of the study area to eventually connect with Curry Creek to the west and south. The floodplain of this creek appears to be inundated year-round and is densely vegetated by broadleaf cattail that is co-dominant with floating mosquito fern (*Azolla* sp.) (OBL) and tule (*Shoenoplectus* spp.) (OBL). Occasional sandbar (*Salix exigua*) (FACW) and black willow (*Salix gooddingii*) (FACW) trees are present along marsh edges, with Italian ryegrass, curly dock, jointed crown grass (*Paspalum distichum*) (FACW), yellow glandweed (*Parentucellia viscosa*) (FAC), willowherb (*Epilobium brachycarpum*) (FAC), spiny-leaf sow-thistle (*Sonchus asper*) (FAC), English plantain (*Plantago lanceolata*) (FAC), and bristly ox-tongue (*Helminthotheca echioides*) (FAC).

DEVELOPED

Developed areas include graveled and compacted dirt roadways that border rice fields and orchards, as well as apiaries (bee boxes) situated along the edges of almond orchards. These developed areas are highly disturbed and devoid of vegetation.

FREMONT COTTONWOOD RIPARIAN

Small, discontinuous patches of small- to medium-sized Fremont cottonwood (*Populus fremontii*) (NL) trees occur along the banks of agricultural canals and ditches in the study area, forming a patchy riparian tree canopy along canal and ditch banks with sandbar willow and an intermittent shrub layer of Himalayan blackberry and poison oak. This vegetation community best fits the Fremont Cottonwood Forest and Woodland Alliance in the Manual of California Vegetation, which is defined by Fremont cottonwood contributing 30 percent and greater relative cover in the tree layer where willows are co-dominant (CNPS 2021).

HIMALAYAN BLACKBERRY THICKET

Dense thickets of Himalayan blackberry (*Rubus armeniacus*) (FAC) are present throughout the study area, typically along the banks of ditches, canals, and channelized streams with some thickets also occurring as isolated patches along fence lines in grassland habitat. This vegetation community is most like the Himalayan blackberry-rattle box-edible fig riparian scrub vegetation alliance (CNPS 2021). For the most part, the Himalayan blackberry thickets in the study area form large monoculture stands. However, in some areas, Himalayan blackberry is co-dominant with poison oak (*Toxicodendron diversilobum*) (FACU) and sweet brier (*Rosa rubiginosa*) (UPL).

IRRIGATED PASTURE

Irrigated pastures border the north and west of the study area. These pastures are grazed by cattle herds yearround and, based on a review of aerial imagery, appear to receive supplemental irrigation during the dry season (typically May through September) to provide permanent green pasture forage for resident livestock. The pastures appear to be irrigated by overland surface flow, with water pumped from a network of surface canals and ditches and then allowed to sheet across the landscape from north to south toward annual grasslands in the study area, with excess field runoff captured in an agricultural ditch (AD-01) along the northwest side of the study area that connects to a perennial emergent marsh (26-PEM) that is adjacent to an intermittent drainage that flows off-site to the west and south. Vegetation in the irrigated pasture community is like that of the annual grassland, described above.

POLYGONUM WETLAND

Continuous patches of smartweed (*Polygonum lapathifolium* [=*Persicaria lapathifolia*]) (FACW) were common throughout the study area in the centers of ditches, canals, and channelized creeks in open areas with no tree or shrub canopy. This vegetation community can be best described as the *Polygonum lapathifolium-Xanthium strumerium* Herbaceous Alliance – Smartweed-cocklebur patches (CNPS 2021). According to the Manual of California Vegetation, this vegetation alliance typically is dominated by smartweed and/or cocklebur or other knotweed species that are dominant or co-dominant in the herbaceous layer and are often associated with disturbed stream terraces on clay-rich or silty soils. In the study area, the polygonum wetlands consisted of monoculture patches of smartweed growing below the ordinary high water mark in the centers and along the lower banks of channelized ditches and streams.

RICE FIELD

Most of the study area consists of active-production rice fields amidst a network of ditches and canals, all of which are surrounded by adjacent access roads. These rice fields have been certified as prior converted cropland (NRCS 2019).

California is the highest-yielding rice production area in the world, grown mostly on fine-textured (i.e., clay or silt), poorly drained soils that typically have an impervious hardpan or claypan (Shaffer 2001). Most of the irrigation water for California rice comes from reservoir (i.e., surface water) sources; water application rates average 4.3 acre-feet per acre, with about 3.0 to 3.5 acre-feet per acre consumed through crop evapotranspiration and the remainder percolating to groundwater or returned to surface waters (Shaffer 2001).

Fields in the eastern portions of the site are higher in elevation than those to the west, allowing gate-controlled passive flow of irrigation water from one field to the next from east to west. Several pumps are located across the site that are used by the farmers to convey water from several channelized drainages and associated network of connected canals that traverse the site to the fields. During the growing season, excess irrigation water flows through the site and into channelized drainages located in the west-central portion of the study area, which continue to flow to the west to return excess irrigation water to surface waters (i.e., Curry Creek) and out of the study area. Rice fields are drained at the end of the growing season and allowed to dry prior to fall harvest. Following the harvest, the fields are often deliberately flooded again in late fall to facilitate straw decomposition and provide habitat for migratory waterfowl and shorebirds that overwinter in the Central Valley (Shaffer 2001).

At the time of the wetland delineation surveys in early April 2021, the rice fields were being disked and leveled; by April 30, 2021, fields were being flooded in series from east to west. During field surveys conducted on July 14, 2021, all irrigation ditches and channelized drainages in the study area were full of water, which flowed from east to west through the study area through a series of culverts and eventually drained to natural drainages to the west of the site. Also at this time, delineators observed that these natural drainages and their associated floodplains outside of the study area were full of standing water resulting from agriculturally-influenced water inputs.

RUDERAL

Ruderal vegetation is present throughout the study area in locations that have been previously filled and graded, such as along roads, parking areas, fence lines, and in equipment staging and storage areas; and in between rows of planted almond trees in orchards. This vegetation community can be best described as a *Brassica nigra–Raphanus* (spp.) Herbaceous Semi-Natural Alliance, (CNPS 2021). According to the Manual of California Vegetation this vegetation alliance typically is dominated by mustards (*Brassica, Hirschfeldia*) or other ruderal forbs. In the study area, ruderal areas consist of sparse herbaceous cover, dominated by yellow star thistle (*Centaurea solstitialis*) (NL), field mustard (*Hirschfeldia incana*) (NL), and field bindweed.

SEASONAL WETLAND

Seasonal wetlands support annual and perennial native and nonnative wetland plant species. This habitat type typically resembles a wetland community during the wet season and for a few weeks following the end of the wet season, drying up rapidly with the onset of summer. Seasonal wetlands form in seasonally flooded or saturated soils in depressions in ruderal or grassland areas, and, in the western portion of the study area, at the edges of (i.e., adjacent to) ditches and drainages. The seasonal wetland vegetation community conforms to a combination of the *Eleocharis macrostachya* Herbaceous Alliance and the *Lolium perenne* [*Festuca perennis*] Herbaceous Semi-Natural Alliance, both of which are associated with areas that are flooded for part of the growing season with fresh water (CNPS 2021). In these vegetation communities, pale spikerush (*Eleocharis macrostachya*) and/or Italian rye grass (*Festuca perennis*) are dominant or co-dominant in the vegetative layer and contribute 30 percent or more relative cover.

Although the vegetation and hydrology of seasonal wetlands in the study area are primarily governed by seasonal precipitation, the hydrology of several seasonal wetlands in the western portion of the study area is influenced by neighboring irrigation practices. Based on site observations and a review of aerial imagery, rice field and irrigated pasture runoff is directed into a network of ditches and canals that coalesce along the western boundary of the rice fields; and although these ditches and canals are bermed for most of their length, several culverts as well as breaks

in berms were observed that allow for water to spill into adjacent seasonal wetlands. In addition, the natural creek drainage west and south of the study area intermittently floods its adjacent low-terrace floodplain to the north and south of its banks. In late April 2021, delineators observed that this drainage had swelled with inputs from rice irrigation runoff and had flooded adjacent marsh vegetation as well as the shallow grassland floodplain dotted with several seasonal wetlands in the study area that were mapped within 300 feet of its banks. Similarly, all ditches and canals in the study area were rapidly filling with water as the rice fields were flooded, with several spilling over to adjacent seasonal wetlands along the northwestern boundary of the rice fields. Based on a review of aerial imagery and site observations, this dry-season flooding does not persist long enough to alter the upland annual grassland or seasonal wetland vegetation mapped in the floodplain.

Dominant plant species in seasonal wetlands in the study area include Italian ryegrass, spikerush, tall flatsedge, willow herb, hyssop loosestrife, curly dock, prickly lettuce, hawkbit, seaside barley (*Hordeum marinum*) (FAC), Mediterranean beard grass (*Polypogon maritimus*) (OBL), and popcornflower (*Plagiobothrys stipitatus*) (FACW). Other common species observed in seasonal wetland habitats were Fremont cottonwood, black willow, wild geranium, spiny-leaf sow thistle, English plantain, soft rush, filaree, sixweeks rattail fescue (*Festuca myuros*) (FACU), gumweed (*Grindelia camporum*) (FACW), white hyacinth (*Triteleia hyacinthina*) (FAC), blow wives (*Achyrachaena mollis*) (FAC), California false semaphore grass (*Pleuropogon californicus*) (OBL), short-awn meadow foxtail (*Alopecurus aequilis*) (OBL), and harding grass (*Phalaris aquatica*) (FACU).

VERNAL POOL

Vernal pools are a type of seasonal wetland that support low-growing, herbaceous plant communities dominated by annual plants, and are typically characterized by a high percentage of native plant species, many of which may be endemic (restricted) to vernal pools. The vernal pool vegetation communities in the study area conform to the *Lasthenia glaberrima* Herbaceous Alliance and the *Lasthenia fremontii-Downingia (bicornuta)* Herbaceous Alliance (CNPS 2021). The smooth goldfields (*Lasthenia glaberrima*) alliance is associated with vernal pool bottoms where soils have long periods of inundation, while the Fremont's goldfields (*Lasthenia fremontii*) alliance is associated with shallow vernal pool bottoms or edges (CNPS 2021). Both communities are found on hardpan geomorphic surfaces or volcanic substrates, and the smooth goldfields alliance is also associated with claypan vernal pool habitat (CNPS 2021).

Vernal pools in the study area were either dominated by smooth goldfields (OBL) or Fremont's goldfields (OBL), with deeper pools tending to be dominated by smooth goldfields. Other species commonly associated with vernal pools and observed in association with goldfields in vernal pools in the study area include coyote thistle (*Eryngium vaseyi*) (FACW), vernal pool buttercup (*Ranunculus bonariensis* var. *trisepalus*) (OBL), vernal-pool Indian-paintbrush (*Castilleja campestris*) (FACW), annual hairgrass (*Deschampsia danthanioides*) (FACW), dwarf woolly marbles (*Psilocarphus brevissimus*) (FACW), Oregon woolly marbles (*Psilocarphus oregonus*) (OBL), white-flower pincushion-plant (*Navarretia leucocephala*) (OBL), double-horn calico-flower (*Downingia bicornuta*) (OBL), bractless hedge-hyssop (*Gratiola ebracteata*) (OBL), water-starwort (*Callitriche* sp.) (OBL), toad rush (*Juncus bufonius*) (FACW), and water pygmyweed (*Crassula aquatica*) (OBL).

Other species commonly observed in vernal pools include spikerush, popcornflower, Italian ryegrass, prickly lettuce, seaside barley, rabbitsfoot grass, hyssop loosestrife, small lupine, white hyacinth, tarweed, blow wives, Fitch's spikeweed (*Centromadia fitchii*), Greene's popcornflower (*Plagiobothrys greenei*) (FACW), neckweed (*Veronica peregrina*) (FAC), leafty-bracted dwarf rush (*Juncus capitatus*) (FACU), small rattlesnake grass (*Briza*)

minor) (FAC), waxy manna grass (*Glyceria declinata*) (FACW), and sticky sand spurrey (*Spergularia macrotheca*) (FAC).

All the vernal pools in the study area are associated with annual grasslands that are currently unmanaged and not grazed by livestock, but based on a review of historical aerial imagery, they have been used in the past to grow hay and graze cattle. The topography of the grasslands in the study area is characterized by an unnatural (built) series of low (i.e., less than 1 foot tall) berms at approximately 100 to 150-foot intervals in swirling patterns that may have served to level the site or control surface flow in the past for agricultural purposes; many vernal pools were mapped in low spots along these historic berms.

WILLOW RIPARIAN

Small, discontinuous patches of willow riparian scrub are common throughout the study area along ditches, canals, and drainages. This vegetation community type is best described as the *Salix exigua* Shrubland Alliance, where sandbar willow is dominant or co-dominant in the shrub canopy with red willow (*Salix laevigata*) and Himalayan blackberry (CNPS 2021). Emergent trees, including black willow and Fremont cottonwood, are also present at low relative cover.

DELINEATION RESULTS

This section presents the results of the delineation of waters of the U.S., as defined by the USACE and pursuant to Section 404 of the CWA, for the study area. All delineated wetlands and other waters are depicted on the wetland delineation map in Appendix A (Source: Data compiled by AECOM in 2022

Exhibit 6a - 6d).

Areas qualifying as waters of the United States are depicted on the wetland delineation maps provided in Appendix A (Source: Data compiled by AECOM in 2022

Exhibit 6a - 6d), and sampling points are depicted on the wetland delineation maps and cross-referenced to the wetland determination data forms in Appendix B. Habitat descriptions for waters of the United States and non-jurisdictional habitats are included below, and a habitat map is provided in Appendix A (Exhibit 5a - 5b). A list of plant species observed during the field survey is provided in Appendix C, and representative photographs of habitat types described below are provided in Appendix D.

JURISDICTIONAL FEATURES

A total of 9.341 acres of potentially jurisdictional wetlands and waters of the United States occurs in the study area in the form of tributaries, seasonal wetlands, seasonal wetland swales, emergent wetlands, and vernal pools (Table 3).

Acres
0.739
3.641
4.123
0.838
9.341

Table 3. Potentially Jurisdictional Features

Note: AC = agricultural canal, AD = agricultural ditch, ID = intermittent drainage, SW = seasonal wetland, W = wetland, PEM = perennial emergent marsh, VP = vernal pool

Four intermittent drainages (ID), one agricultural canal (AC), and one agricultural ditch (AD) delineated in the study area connect to downstream jurisdictional features that ultimately connect to the Sacramento River; of these six features, four (ID-01, ID-02, ID-03, and AC-01) were also delineated as part of a previous wetland delineation prepared for the site in March 2017 (ECORP 2017) and field verified by AECOM wetland specialists in April 2021. These six tributary drainages are presented in Table 4 and described in more detail below. Curry Creek (ID-01) flows east to west through the southern half of the study area, then drains into the Pleasant Grove Creek Canal, which in turn drains into the Sacramento River. The USACE Sacramento District identifies the Sacramento River as a traditional navigable waterway (TNW) of the United States. As such, the Sacramento River is subject to USACE jurisdiction pursuant to Section 404 of the CWA and Section 10 of the Rivers and Harbors Act, and all upstream intermittent and ephemeral drainages with a significant nexus have the potential to affect the chemical, physical, and biological integrity of the Sacramento River.

The tributary drainages and adjacent wetlands mapped in the study area are listed in Table 4 and Table 5, respectively, and are depicted in Appendix A (Source: Data compiled by AECOM in 2022

Exhibit 6a – 6d). Tributaries consist of channelized drainage feature types that have connectivity to the primary tributary (Curry Creek). Adjacent wetlands include thirteen seasonal wetlands (SW), two emergent wetlands (perennial emergent marsh [PEM] and wetland [W]), one vernal pool (VP), and two seasonal wetland swales (SWS), all of which share a direct hydrological surface connection with tributary drainages.

TRIBUTARIES

Feature Name	Wetland Delineation Map No.	Acreage	Length (feet)
AC-01	6a	0.370	2,354.596
AD-01	6a	0.046	1,331.108
ID-01	6c	0.026	130.865
ID-02	6b	0.059	171.974
ID-03	6b	0.035	119.712
ID-04	6b	0.203	388.150
	Total	0.739	4,496.405

Table 4. Tributary Drainages in the SMUD Country Acres Study Area

Source: Data compiled by AECOM in 2022

All these features meet the definition of tributaries or adjacent waters, or connecting tributaries, and are connected by direct surface flow or adjacency to the primary tributary, which is connected by direct surface flow to the TNW Sacramento River; therefore, all tributaries and the adjacent waters delineated in the study area are considered potentially jurisdictional features pursuant to Section 404 of the CWA. These features are discussed in more detail in the sections below.

AC-01 (0.370 acre and 2,354.596 linear feet) is an excavated agricultural irrigation canal mapped along the northwestern boundaries of the study area that receives excess water from the rice fields to the east via a series of culverts. It then conveys water from north to south until it connects to the tributary unnamed natural drainage (ID-04), which flows to the west across and out of the study area. AC-01 consists of several segments with continuous connectivity via a series of culverts through the study area. AC-01 is not mapped in the NWI; it is limited to the confines of the study area and functions wholly to convey excess agricultural irrigation water from east to west along the northern boundary of the study area and then from north to south along the northwestern study area boundary (Source: Data compiled by AECOM in 2022

Exhibit 6a, Appendix A) to a wetland complex that joins with Curry Creek downstream along the southwestern boundary of Assessor Parcel Number (APN) 017-090-057 in the northwestern portion of the study area (Source: Data compiled by AECOM in 2022

Exhibit 6b, Appendix A). A review of the USGS historical topographic map collection (USGS 2021b) shows that prior to development of rice fields, the area that now contains this agricultural canal consisted of gently sloped grassland topography. The excavated canal feature has a defined bed and bank and an unconsolidated bottom, and ranges in width from 5 to 10 feet. Vegetation communities include cattail marsh and small discontinuous patches of Fremont cottonwood riparian vegetation and Himalayan blackberry thickets along canal banks. This agricultural irrigation canal is a tributary with direct surface connection to Curry Creek, which is a tributary to the Pleasant Grove Creek Canal and TNW Sacramento River.

AD-01 (0.046 acre and 1,331.108 linear feet) is an excavated ditch parallel to the northern boundary of APN 017-090-048, in the northwestern portion of the study area in an annual grassland immediately west of rice fields (Source: Data compiled by AECOM in 2022

Exhibit 6a, Appendix A), that flows from east to west from SW-13 (an adjacent wetland to AC-01) and connects to PEM-26. PEM-26 is a perennial emergent marsh that corresponds to an NWI mapped PEM1C feature that is part of a is a large wetland complex in the northern floodplain of the tributary ID-04, located in the northwestern portion of the study area (Source: Data compiled by AECOM in 2022

Exhibit 6a, Appendix A) AD-01 appears to convey surface water runoff from adjacent irrigated pasture and carry overflow from SW-13 directly to the natural drainage to the south via PEM-26 and is thus part of a wetland complex that is continuously connected between the tributary features AC-01 and ID-04. The excavated ditch feature has a defined bed and bank and an unconsolidated bottom and is 5 feet wide. It is vegetated by annual grassland species. This agricultural ditch contributes direct surface connection to Curry Creek, which is a tributary to the Pleasant Grove Creek Canal and TNW Sacramento River.

ID-01 (0.026 acre and 130.865 linear feet) is a channelized portion of Curry Creek that flows from southeast to northwest along the along the eastern edge and through the center of the study area, eventually draining into the natural section of Curry Creek along the western edge of APN 017-130-015 along the western boundary of the study area (Source: Data compiled by AECOM in 2022

Exhibit 6b-d, Appendix A). Outside of the study area, the upstream portion of the feature is mapped by USGS (2021a) as ephemeral, but the NWI shows it as a riverine, intermittent, streambed, temporarily flooded (R4SBA) channel where it originates approximately 3 miles to the southeast of the study area in the City of Roseville; and downstream, to the west of the study area, it is classified as a palustrine, scrub-shrub, temporary flooded (PSSA) channel (USFWS 2021). Based on field observations, the natural portion of Curry Creek downstream from the study area is densely vegetated with valley oak riparian vegetation, while the channelized portion through the study area (i.e., ID-01) is an altered canal with steep banks and little remaining natural vegetation. A review of the USGS historical topographic map collection (USGS 2021b) shows on the Pleasant Grove 1910 map that the channelized ID-01 feature generally follows the historic natural path of Curry Creek, and the entire extent of the channelized seasonal creek feature through the study area is labeled as Curry Creek in the Pleasant Grove 2018 map (USGS 2018). The feature is approximately 10 feet deep and has a defined bed and bank, a clear OHWM, and primarily unconsolidated bottom although portions are culverted. The channel bottom ranges from 20 to 30 feet in width, flanked by steep engineered earthen banks, and retains enough water in depressional stretches to support discontinuous patches of tule, cattails, and smartweed. Channel banks are primarily vegetated by willow riparian scrub and Himalayan blackberry thickets. This drainage is part of Curry Creek, which is a tributary to the Pleasant Grove Creek Canal and TNW Sacramento River.

ID-02 (0.059 acre and 171.974 linear feet) is an unnamed, channelized tributary to Curry Creek that flows from east to west through the study area to its confluence with ID-01 and the natural drainage of Curry Creek along the western edge of APN 017-130-015 and the study area (Source: Data compiled by AECOM in 2022

Exhibit 6b, Appendix A). Outside of the study area, the upstream portion of the feature is mapped by USGS (2021a) as ephemeral, but the NWI shows it as a palustrine emergent persistent temporarily flooded (PEM1A) channel where it originates approximately 1.2 miles to the east of the study area in gently sloping grassland on the

edge of the Westpark development (USFWS 2021). A review of the USGS historical topographic map collection (USGS 2021b) shows on the Pleasant Grove 1910 map that the channelized ID-02 feature generally follows the historic path of a seasonal tributary drainage of Curry Creek. The feature is approximately 6 feet deep and has a defined bed and bank, a clear OHWM, and primarily unconsolidated bottom although portions are culverted. The channel bottom ranges from 20 to 30 feet in width, flanked by very steep engineered earthen banks, and retains enough water in depressional stretches to support discontinuous patches of cattails and smartweed. Other vegetation communities mapped in this feature include intermittent annual grassland/ruderal herbaceous vegetation, willow riparian scrub, valley oak riparian, and Himalayan blackberry thickets along steep banks. This drainage flows directly to Curry Creek, which is a tributary to the Pleasant Grove Creek Canal and TNW Sacramento River.

ID-03 (0.035 acre and 119.712 linear feet) is an unnamed channelized tributary feature that originates approximately 1.5 miles to the east of the study area as a relatively small reach of natural drainage in grassland habitat that has been reduced in size by residential development. The natural channel quickly transitions to a channelized feature as it travels between rice fields towards and eventually through the study area. The USGS (2021a) maps this feature as ephemeral upstream and through the study area and then as intermittent downstream and outside the study area (Exhibit 3, Appendix A). The NWI maps it as a PEM1Cx (palustrine, emergent, persistent, seasonally flooded, excavated) freshwater emergent wetland (USFWS 2021), which matches the patches of vegetation observed during field investigations and that likely occur due to presence of regular surface water inputs to the rice fields. Within the study area, ID-03 passes through a large control gate and terminates at W-20, which then joins with a natural drainage (ID-04, discussed below) along the southwestern boundary of APN 017-090-057 in the northwestern portion of the study area (Source: Data compiled by AECOM in 2022

Exhibit 6b, Appendix A). A review of the USGS historical topographic map collection (USGS 2021b) shows on the Pleasant Grove 1910 map that this drainage feature corresponds to the same small tributary drainage associated with ID-04 prior to conversion of the site to rice fields and channelization. In the study area, this feature has steep earthen banks, a defined bed and bank, and a primarily unconsolidated bottom, although some portions outside of the study area are culverted and appear be concrete-lined. In the study area, it is 25 feet wide, unlined, and retains enough water to support dense patches of smartweed. In the west portion of the study area, this feature is connected to a floodplain wetland complex

(W-20) that then drains passively through a break in a berm to ID-04 to the west. As discussed below, ID-04 flows west and south as a tributary with direct surface connection to the Curry Creek, which is a tributary to the Pleasant Grove Creek Canal and TNW Sacramento River.

ID-04 (0.203 acre and 388.150 linear feet) is an unnamed intermittent drainage feature that is fed by AC-01 and ID-03, which convey water coming off the rice fields (Source: Data compiled by AECOM in 2022

Exhibit 6b, Appendix A). After exiting the study area, it meanders west through annual grassland that was previously cultivated for hay but is no longer farmed. Outside of the study area, it continues a meandering path flowing west and south for approximately 1.2 miles until it flows under Country Acres Lane, then is channelized from north to south along the western boundary of the roadside for approximately 0.25 mile until it reaches its confluence with Curry Creek. A review of the USGS historical topographic map collection (USGS 2021b) shows on the Pleasant Grove 1910 map that this drainage feature was historically one of many small tributary drainages to Curry Creek that originated in low rolling lands to the east of the study area. In the study area, much of this natural drainage is now channelized through the site (ID-03) (USGS 2021a), but the portion that flows through the annual grassland in the northwestern portion of the study area (Source: Data compiled by AECOM in 2022

Exhibit 6b, Appendix A) generally follows its historic drainage path (USGS 2021a, USGS 2021b, USFWS 2021). In the study area, ID-04 has a defined bed and bank, a clear OHWM, and unconsolidated bottom. At the time of the wetland delineation, ID-04 consisted of open water and banks vegetated by small, narrow patches of cattail, tule and Himalayan blackberry thickets at or below the OHWM; vegetated banks represented less than 5% of total width of the feature. ID-04 has direct surface connection to Curry Creek, which is a tributary to the Pleasant Grove Creek Canal and TNW Sacramento River.

ADJACENT WETLANDS

Feature Name	Wetland Delineation Map No.	Acreage
SW-1	6a	0.063
SW-3	6a	0.093
SW-4	6b	0.014
SW-11	6a	0.056
SW-12	6a	0.046
SW-13	6a	1.093
SW-14	6a	1.513
SW-24	6a	0.174
SW-30	6a	0.021
SW-31	6a	0.029
SW-32	6a	0.520
SW-36	6a	0.019
W-20	6b	0.659
PEM-26	6a	3.464
VP-2	6a	0.838
	Total	8.602

Table 5. Adjacent Wetlands in the SMUD Country Acres Study Area

Source: Data compiled by AECOM in 2022

Note: Numbering of wetland features is based on the numbering of sample points as the features were mapped in the field. For example, the first set of sample points completed in the field correspond to SW-1 (referred to as Wetland #1 in the sample point datasheets), and the second set of wetland datasheets completed in the field correspond to VP-2 (referred to as Wetland #2 in the datasheets), and so on. Where wetland numbers are skipped in this table, they are either (1) associated with upland-only sample points and therefore do not correspond to a wetland feature, or (2) are associated with non-jurisdictional aquatic features listed in Table 7 of the next section (Non-Jurisdictional Features)

SEASONAL WETLANDS

Twelve seasonal wetlands (**SW-1**, **SW-3**, **SW-4**, **SW-11**, **SW-12**, **SW-13**, **SW-14**, **SW-24**, **SW-30**, **SW-31**, **SW-32**, and **SW-36**) totaling 3.641 acres were identified in the study area that are inundated by water from potentially jurisdictional tributaries and physically separated from those tributaries only by an artificial barrier (berm) that allows for a direct hydrological surface connection. SW-1, SW-3, SW-4, SW-30, SW-31, SW-32, and SW-36 are part of a large wetland complex near the northern floodplain of tributary ID-04; and SW-11, SW-12, SW-13, SW-14, and SW-24 are associated with openings or breaks in a berm along the western boundary of the tributary agricultural canal AC-01 (Source: Data compiled by AECOM in 2022

Exhibit 6a and 6b, Appendix A). Some of the deeper depressional areas of these seasonal wetlands supporting obligate species such as cattails and soft rush still held water during the field surveys conducted from April to August 2021. The hydrophytic vegetation in these wetlands is described in more detail in Section 4.2 (Vegetation Communities). Data forms 001-A, 003-A, 004-A, 007-A in Appendix B provide additional information about these adjacent seasonal wetland habitats present in the study area.

EMERGENT WETLANDS

Two emergent wetlands (W-20 and PEM-26) totaling 4.123 acres were identified in the study area adjacent to tributary drainages. The hydrophytic vegetation in these wetlands is described in more detail in Section 4.2 (Vegetation Communities) under the Cattail Marsh and Tule Marsh community descriptions. Data forms 020-A and 026-A in Appendix B provide additional information about these emergent wetland habitats present in the study area.

W-20 is 0.659 acre and corresponds to an NWI mapped feature classified as PSSC (palustrine, scrub-shrub, seasonally flooded) (USFWS 2021). Based on field observations, this feature appears to be flooded throughout most of the year, both seasonally during the winter and

throughout the spring and summer due to runoff from adjacent rice fields. W-20 represents the terminus floodplain of tributaries ID-03 and AC-01 and corresponds to a low-lying area between two large berms where hydrologic flows from ID-03 and AC-01 merge and backup before draining passively to the west through a small break in the western berm and into the floodplain of ID-04, located immediately west of rice fields in the northwestern portion of the study area (Source: Data compiled by AECOM in 2022

Exhibit 6b, Appendix A). The dominant vegetation community in this feature at the time of the survey was cattail marsh, surrounded by Himalayan blackberry thickets growing on berms.

PEM-26 is 3.464 acres and is a perennial emergent marsh that corresponds to an NWI mapped PEM1C (USFWS 2021) feature that is part of a is a large wetland complex in the northern floodplain of the tributary ID-04, located in the northwestern portion of the study area (Source: Data compiled by AECOM in 2022

Exhibit 6a, Appendix A). Like W-20, the PEM-26 feature appears to be flooded throughout most of the year, both seasonally during the winter and throughout the spring and summer due to runoff from adjacent irrigated pastures and excess rice field irrigation flows from the east. The dominant vegetation community in this feature at the time of the survey was cattail marsh.

These two emergent wetlands meet the three-parameter criteria of wetlands and abut tributary drainages that connect to Curry Creek, which is tributary to the Sacramento River, which is a TNW; therefore, W-20 and PEM-26 are considered adjacent waters.

VERNAL POOL

VP-2 is 0.838 acre and was identified in the study area adjacent to a tributary natural drainage (ID-04) (Source: Data compiled by AECOM in 2022

Exhibit 6b, Appendix A). The hydrophytic vegetation in this wetland is described in more detail in Section 4.2 (Vegetation Communities) under the Vernal Pool community, and on data form 003-A in Appendix B. This vernal pool is part a large wetland complex in the northern floodplain of the tributary ID-04, located in the western portion of the study area in parcel 017-090-048 (Source: Data compiled by AECOM in 2022

Exhibit 6a-6b, Appendix A). This vernal pool meets the three-parameter criteria of a wetland and abuts a tributary drainage that flows into Curry Creek, which is tributary to the Sacramento River, which is a TNW; therefore, VP-2 is considered adjacent waters.

NON-JURISDICTIONAL FEATURES

A total of 1,160.516 acres of potentially non-jurisdictional features occur in the study area and include 1.899 acres of isolated wetland swales, seasonal wetlands, vernal pools, and ditches; and 1,158.617 acres of uplands, which including orchard and rice field agriculture (Table 6).

Table 6. Potentially Non-Jurisdictional Features

Isolated Wetlands and Other Waters, and Uplands	Acres
Seasonal Wetlands Swale	0.053
Seasonal Wetlands	0.959
Vernal Pools	0.640
Ditches	0.247
Uplands	1,158.617
Total Non-jurisdictional Features	1,160.516

Source: Data compiled by AECOM in 2022

ISOLATED WETLANDS AND OTHER WATERS

A total of 25 isolated ephemeral wetlands and other waters were mapped in the study area. These include one seasonal wetland swale (SWS), six seasonal wetlands (SW), 15 vernal pools (VP), and four ditches (D), all listed

below in Table 7. These features fill seasonally from direct precipitation and normally dry by late spring and remain dry through the summer and early fall dry season, filling again after the arrival of fall/winter rains. Based on field observations and an analysis of online USGS current and historical maps, these features are isolated and rarely overflow, and thus do not flow, connect, or contribute to jurisdictional waters.

Feature Name	Wetland Delineation Map No.	Acres	Linear Feet
SWS-49	6d	0.053	n/a
SW-21	6а	0.020	n/a
SW-22	6а	0.003	n/a
SW-29	6а	0.492	n/a
SW-38	6а	0.234	n/a
SW-47	6d	0.199	n/a
SW-48	6d	0.011	n/a
VP-5	6а	0.528	n/a
VP-6	6а	0.002	n/a
VP-7	6а	0.062	n/a
VP-8	6а	0.002	n/a
VP-9	6а	0.002	n/a
VP-10	6а	0.010	n/a
VP-28	6а	0.010	n/a
VP-33	6а	0.004	n/a
VP-34	6а	0.003	n/a
VP-35	6а	0.004	n/a
VP-52	6d	0.164	n/a
VP-55	6d	0.016	n/a
VP-56	6d	0.005	n/a
VP-58	6d	0.012	n/a
VP-60	6d	0.002	n/a
VP-63	6d	0.005	n/a
D-40	6d	0.083	587.353
D-41	6d	0.007	220.328
D-42	6d	0.067	379.976
D-43	6d	0.090	689.079
	Total	1.899	1,876.737

Table 7. Isolated Wetlands and Other Waters in the SMUD Country Acres Study Area

Source: Data compiled by AECOM in 2021

Note: Numbering of wetland features is based on the sample points as features were mapped in the field. (See Table 5 footnote above)

SEASONAL WETLAND SWALE

SWS-49 is a 0.053 acre isolated seasonal wetland swale in the southern part of the study area (Source: Data compiled by AECOM in 2022

Exhibit 6d, Appendix A). The hydrophytic vegetation in these wetlands is like that described for Seasonal Wetlands in Section 4.2 (Vegetation Communities). Data form 049-A in Appendix B provides additional information about the habitat in this wetland swale. This swale is not connected to any other aquatic features because it is located within a topographical micro-depression and is surrounded by uplands. During the wet season, it collects seasonal precipitation and runoff and then dries out by late spring and remains dry through the summer and early fall.

SEASONAL WETLANDS

Six isolated seasonal wetlands (SW-21, SW-22, SW-29, SW-38, SW-47, SW-48) totaling 0.959 acre were identified in the northwest and southern parts of the study area (Source: Data compiled by AECOM in 2022

Exhibit 6a and 6d, Appendix A). The hydrophytic vegetation in the seasonal wetlands is described in Section 4.2 (Vegetation Communities) Seasonal Wetland. Data forms 021-A, 029-A, and 047-A in Appendix B provide additional information about several of these isolated seasonal wetland habitats. These six seasonal wetlands are not connected to any other aquatic features. They are in topographical depressions, surrounded by uplands, that collect seasonal precipitation and runoff, and then dry out by late spring and remain dry through the summer and early fall.

VERNAL POOLS

There are 15 isolated vernal pools (VP-5 – VP-10, VP-28, VP-33 – VP-35, VP-52, VP-55, VP-56, VP-58, VP-60, and VP-63) mapped in the study area totaling 0.640 acre. These features occur in the northwest and southern portions of the study area (Source: Data compiled by AECOM in 2022

Exhibit 6a and 6d, Appendix A). The hydrophytic vegetation in these wetlands is described in more detail in Section 4.2 (Vegetation Communities) under Vernal Pools. Data sheets 005-A, 006-A, and 035-A in Appendix B provide additional information about the vernal pools in northwestern portion of the study area. All 15 of these vernal pools are not connected to any other aquatic features and are located in topographical depressions that collect seasonal precipitation and runoff, and then dry out by late spring and remain dry through the summer and early fall.

DITCHES

There are four isolated ditches (**D-40**, **D-41**, **D-42**, and **D-43**) totaling 0.247 acre and 1,876.737 linear feet. These ditches are excavated and mapped along the edges of almond orchards in the southern portion of the study area (APNs 017-130-061 and 017-130-058) (Source: Data compiled by AECOM in 2022

Exhibit 6d, Appendix A) and appear to receive occasional ephemeral water from surface runoff associated with irrigation and/or precipitation. All four ditches are not connected to any other features and are not culverted. The ditches have a defined bed and bank, an unconsolidated bottom, range in width from 1 to 5 feet, and are vegetated by upland and facultative herbaceous grassland species.

UPLAND FEATURES

A total of 1,158.617 acres of upland and agricultural land make up the remainder of the study area. The majority (73%) of the study area consists of rice fields (872.755 acres) that have been certified as prior converted cropland (NRCS 2019). According to the EPA and USACE, prior converted cropland and artificially irrigated areas, including fields flooded for agricultural production, that would revert back to upland should the application of irrigation water to that area cease (such is the case of the rice fields in the study area), are not identified as jurisdictional and are not a jurisdictional feature under the CWA (EPA 2021).

The remainder of the study area delineated as non-jurisdictional uplands consists of almond orchards, irrigated pasture for livestock grazing, annual grassland, developed, and ruderal vegetation. These areas are highly disturbed by regular human disturbance, including mowing of vegetation, disking, grading, agricultural activities, pesticide/herbicide application, equipment staging and storage, and vehicle access and parking. Vegetation in these areas is either absent or dominated by upland species, typically consisting of nonnative annual grasses and forbs that are tolerant of regular disturbance. There are no hydric soils or hydrology indicators in these areas.

JURISDICTIONAL DETERMINATION

The approximately 1,170-acre study area contains 9.341 acres of potentially jurisdictional waters of the U.S. (wetlands [8.602 acres] and other waters [0.739 acre]). The remainder of the study area contains 1,160.516 acres of potentially non-jurisdictional features that consists of 1.899 acres of isolated wetlands and other waters and 1,158.617 acres of uplands, including agricultural land, that is highly disturbed from rice and orchard operations. This jurisdictional determination is draft and contingent on verification by USACE.

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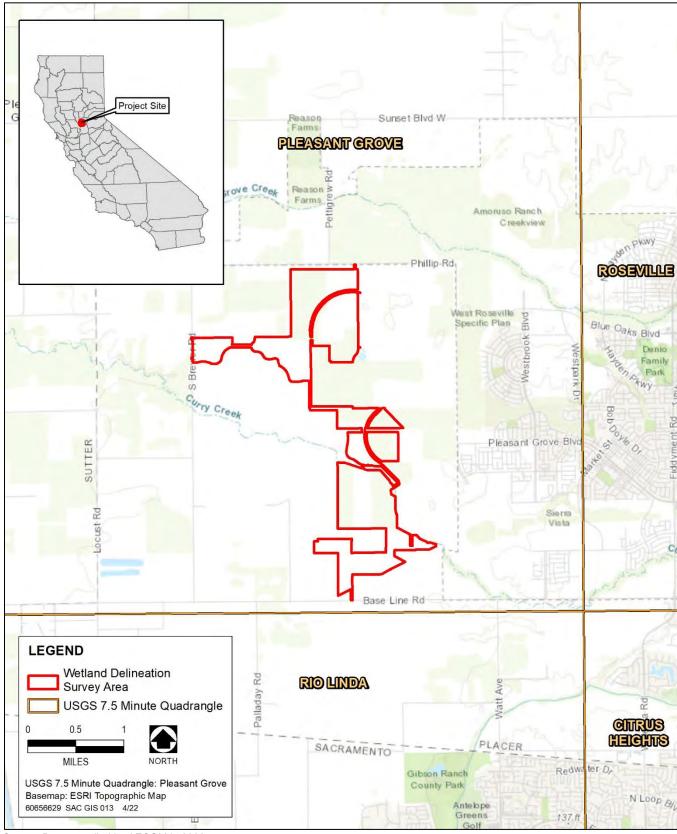
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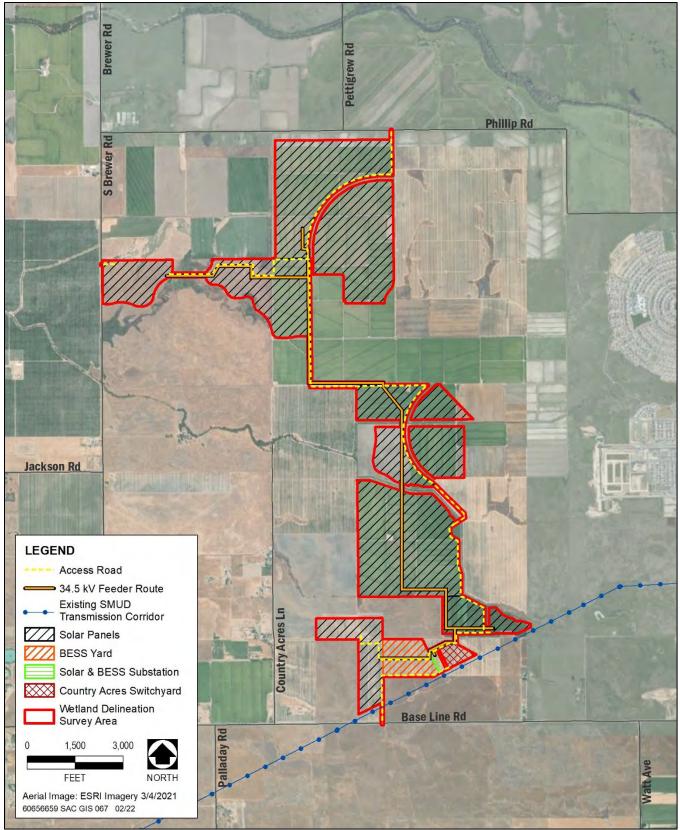
Exhibits

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Source: Data compiled by AECOM in 2022

Exhibit 1. Project Vicinity Map



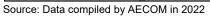
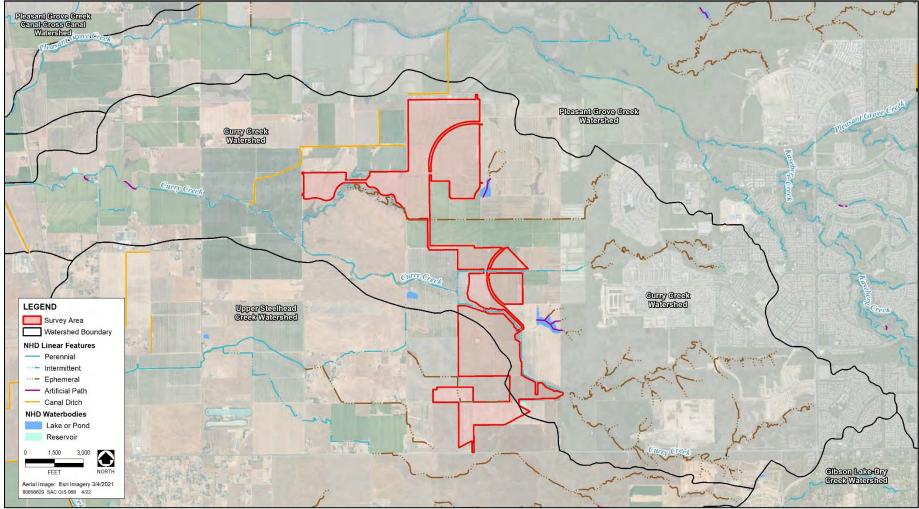


Exhibit 2. Conceptual Project Area Map



Source: USGS 2021a

Exhibit 3. Watershed and Hydrology Map

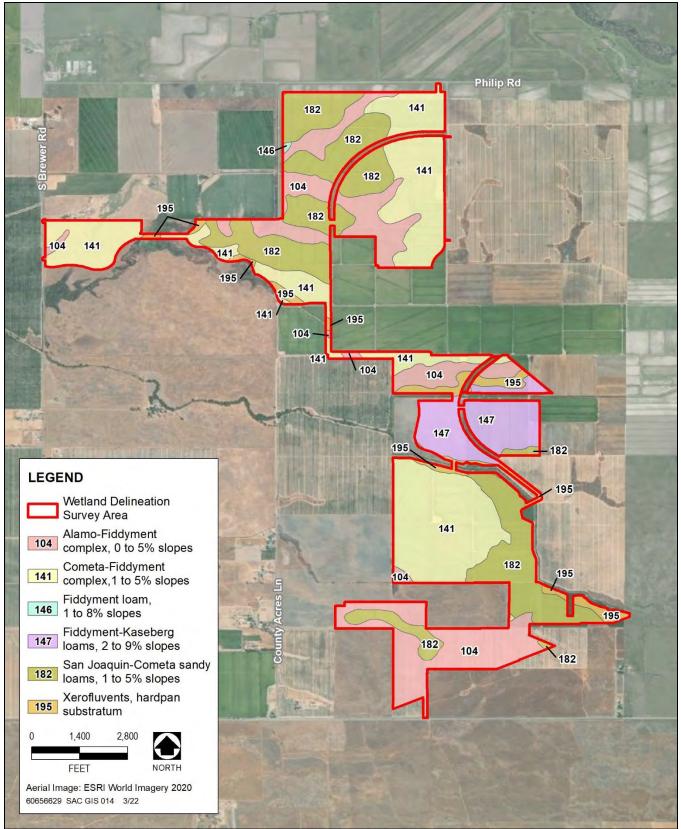
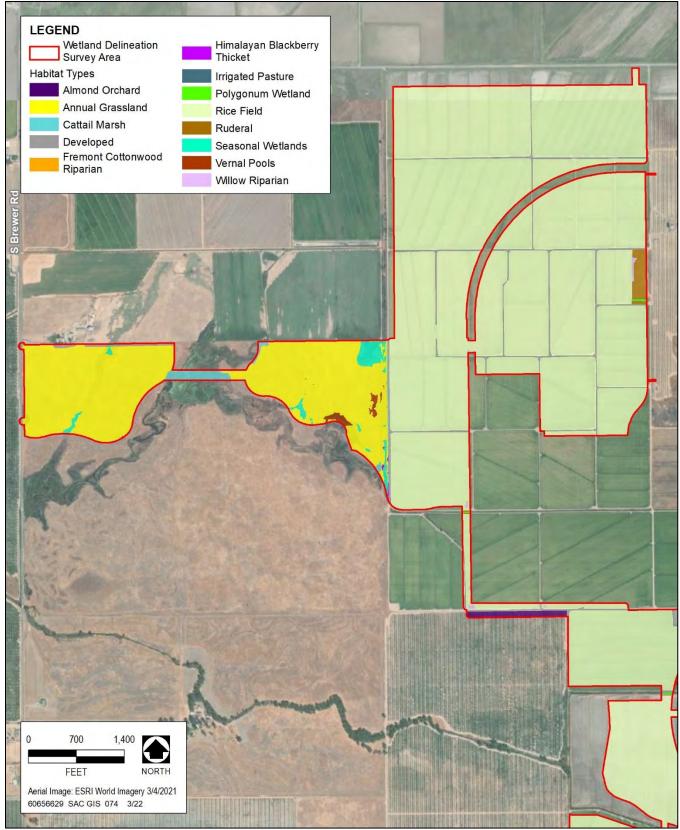


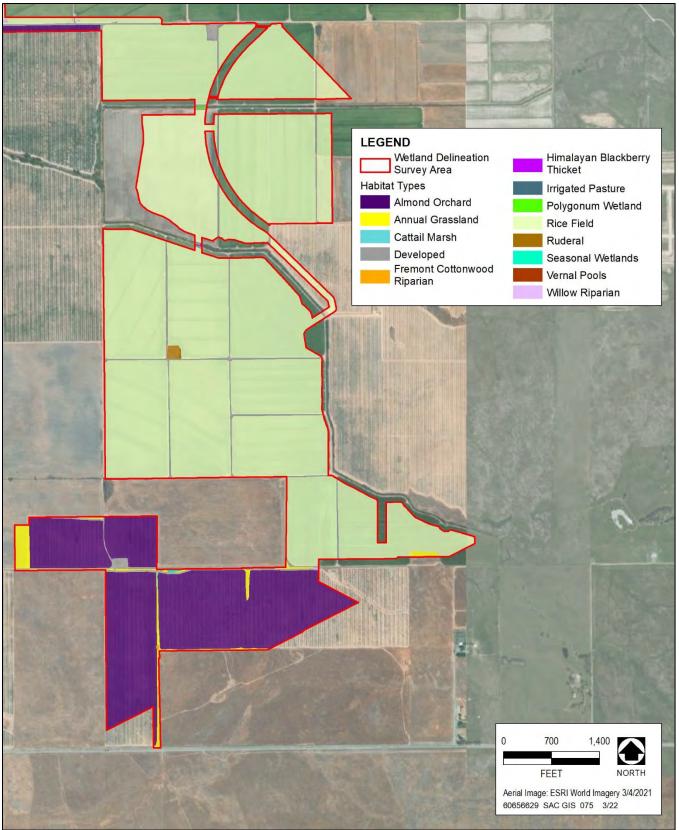


Exhibit 4. Soils Map



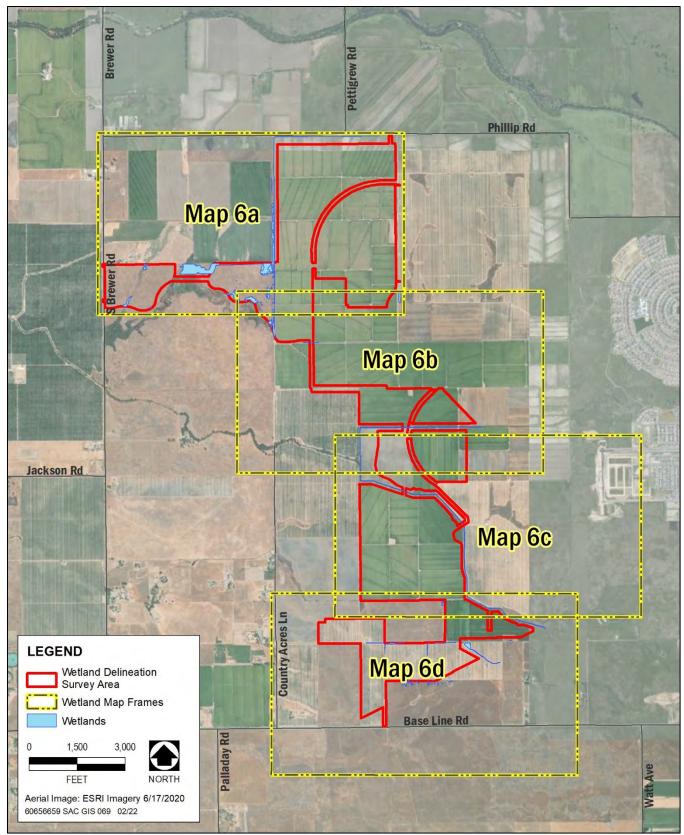
Source: Data compiled by AECOM in 2022

Exhibit 5a. Vegetation Communities and Land Cover Type Map 1 of 2



Source: Data compiled by AECOM in 2022

Exhibit 5b. Vegetation Communities and Land Cover Type Map 2 of 2



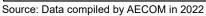
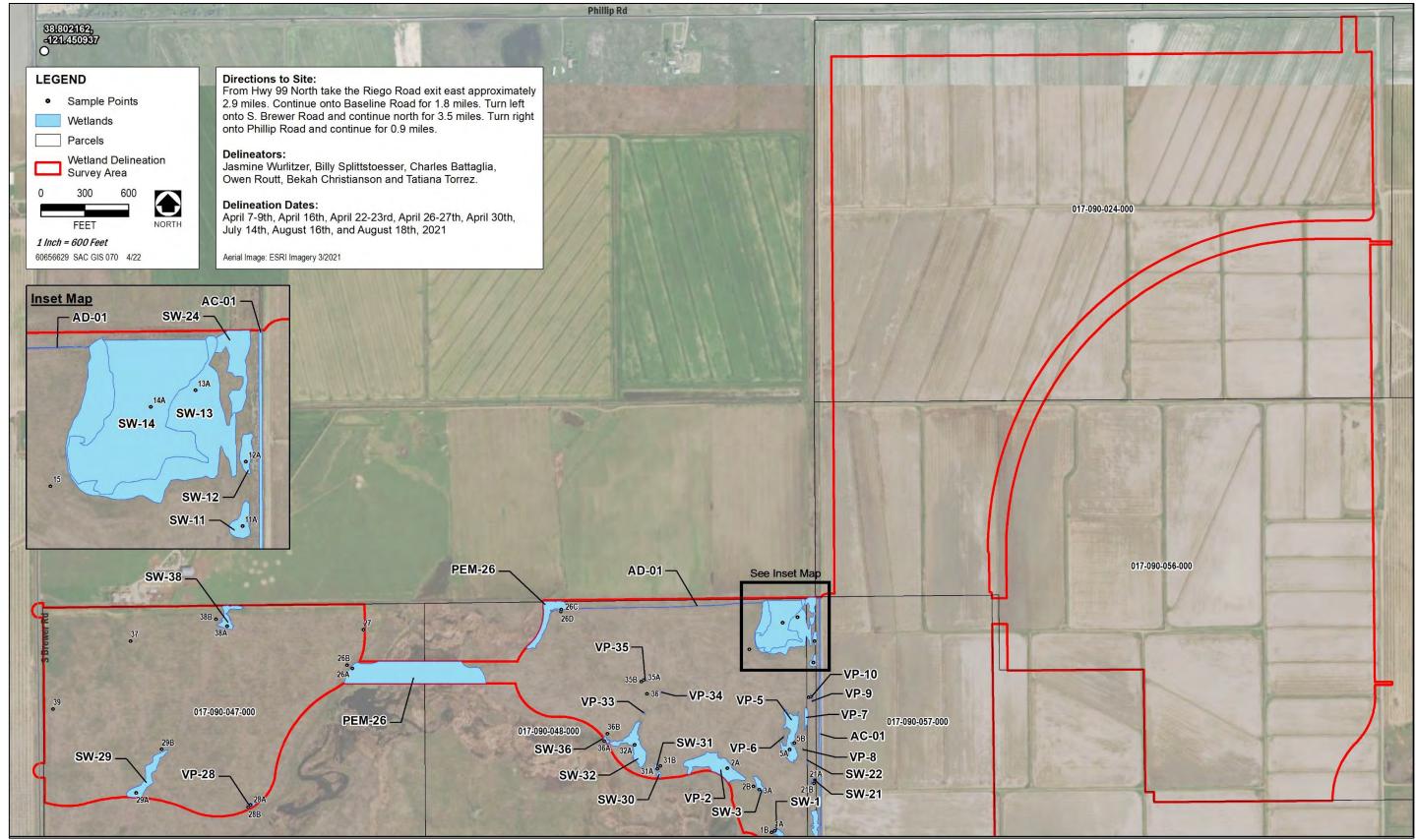
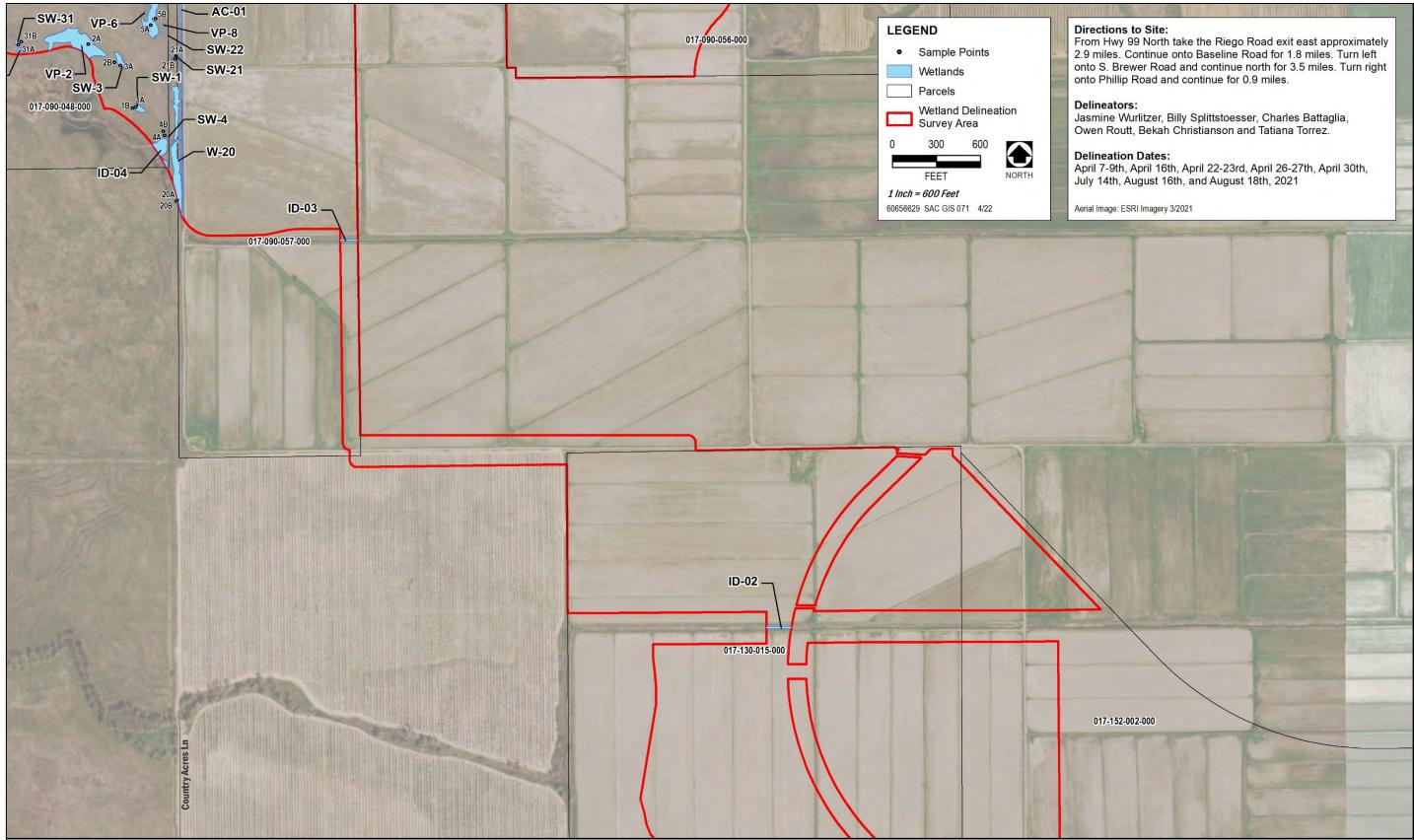


Exhibit 6. Wetland Delineation Overview Map



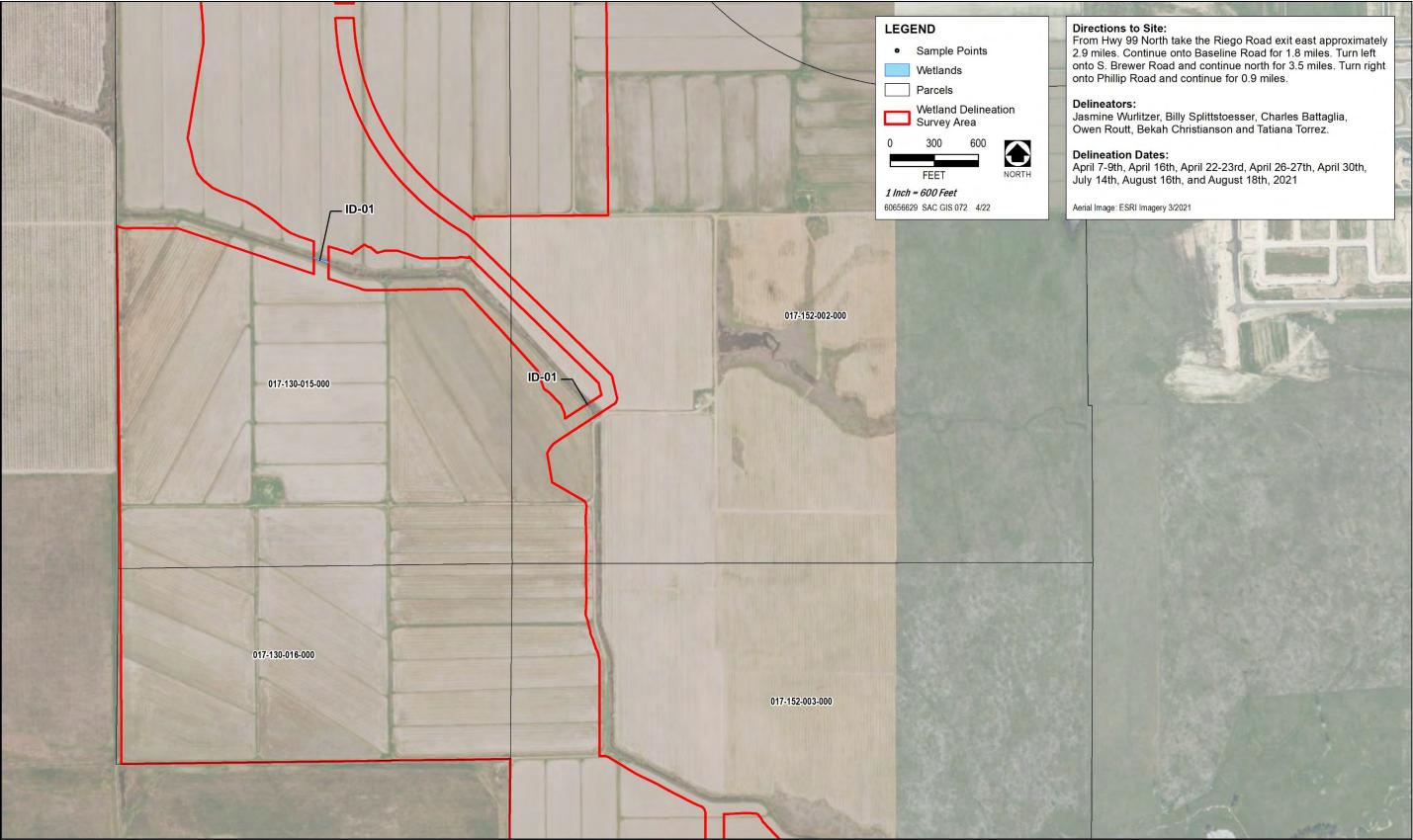
Source: ECORP 2017; Data Compiled by AECOM in 2022

Exhibit 6a. Wetland Delineation Map 1 of 4



Source: ECORP 2017; Data Compiled by AECOM in 2022

Exhibit 6b. Wetland Delineation Map 2 of 4



Source: ECORP 2017; Data Compiled by AECOM in 2022

Exhibit 6c. Wetland Delineation Map 3 of 4

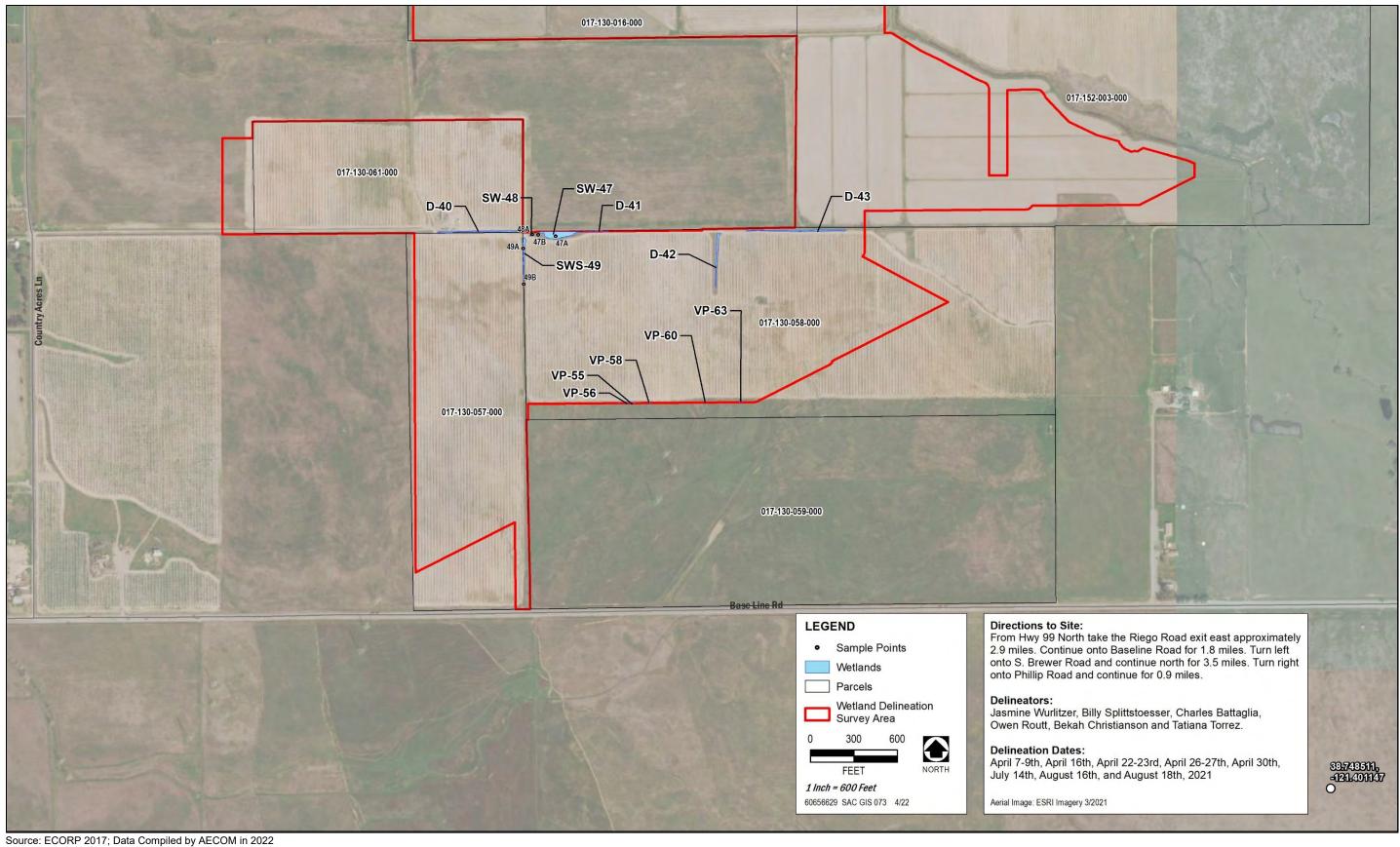


Exhibit 6d. Wetland Delineation Map 4 of 4

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Field Datasheets

Project/Site:	606566	29 SMUD	Country Acres Sola	r	City/County: Placer Coun	ty		Sampling Da	ate:	04/08/21
Applicant/Owner: Investigator(s):	SMUD	toesser, J. V	Vurlitzer, B. Chridtianson	& Q. Routt	Section, Township, I	Range:	State: CA 20 11N 5E	Sampling Point:		001-A
Landform (hillslop	- C.		Low terrace	1 at	Local relief (concave			TALLER TRULES A TEAL	Stope (%):	
Subregion (LRR): Soil Map Unit Nan			iddyment complex,	Lat: 1 to 5 percer		720219	Long: NWI Classification:	-121.4336574 n/a	Datum	NAD 83
Are climatic / hydr	ologic c	onditions o	on the site typical for	this time of	year? Yes_	_	No X	(If no, explain i	n Remarks)
Are Vegetation	110	Soil	or Hydrology		significantly disturbed?	Are "N	Vormal Circumstand	ces" present?	Yes X	No
Are Vegetation	<u>x</u>	Soll	, or Hydrology	<u>x</u>	naturally problematic?	(If nee	ded, explain any ar	nswers in Remai	<u>ks.)</u>	

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

Hydrophytic Vegetation Present?	Yes	1	No	X	Is the Sampled Area			
Hydric Soil Present?	Yes	Х	No		within a Wetland?	Yes	х	No
Wetland Hydrology Present?	Yes	Х	No		within a wettand?			
								hen normal is 35 inches for the County
								t site along Pleasant Grove Creek). The
site is north of a drainage that may f	lood peric	odicall	y and n	ot every y	ear. The project site is in an ar	nnual grassla	and with i	irrigated pastures to the north and rice
fields to the east and may receive on	verland or	r subs	urface f	flow from t	hese adjacent uses during the	summer, or	what wo	ould normally be the dry season. Area

may be grazed occassionally, cows are present on field to the west

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
		<u> </u>		Total Number of Dominant
				Species Across All Strata 3 (B)
h		=Total Cove		Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)
Sapiling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
				Total % Cover of: Multiply by: OBL species 1 x1 = 1
			_	FACW species $3 \times 2 = 6$
				FAC species 33 x3 = 99
	() 			FACU species 44 x4 = 176
a		=Total Cove		UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: r = 6 ft)		Total Doro		Column Totals: 81 (A) 282 (B)
Festuca perennis	33%	Yes	FAC	Prevalence Index = B/A = 3.5
2. Festuca myuros	33%	Yes	FACU	COCISION PROSING BASI
. Lactuca serriola	10%	Yes	FACU	Hydrophytic Vegetation Indicators:
Juncus patens	3%		FACW	Dominance Test is >50%
. Erodium botrys	1%		FACU	Prevalence Index is ≤3.0
. Typha ssp.	1%		OBL	Morphological Adaptation (Provide supporting
				data in Remarks or on a separate sheet)
6	1	1.000		X Problematic Hydrophytic Vegetation ¹ (Explain)
	81%	=Total Cove	t	and the second sec
Woody Vine Stratum (Plot size:)				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
h				Hydrophytic
% Bare Ground in Herb Stratum 19%	% Cover of	=Total Cove Biotic Crust	0	Vegetation Present? Yes No X

US Army Corps of Engineers

Arid West - Version 2.0

SOIL								Sampling Point:	001-A
Profile De:	scription: (Describe to	o the de	pth needed to	document th	ie indicat	or or c	confirm the absence of	of indicators.)	
Depth	Matrix			Redox Featu					
(inches)	Color (moist)	%	Color (moist	t) %	Type ¹	Loc	² Texture	Rem	narks
1-3	10YR 6/4	90	10YR 4/6	10	С	М	Silty loam		
3-6	10YR 5/4	78	10YR 4/6	18	С	М	Silty clay loam		
			7.5 YR 2.5/1	5	С	M		manganese soft mas	ises
-									
¹ Type: C=C	oncentration, D=Depletion	RM=Ree	duced Matrix, CS	=Covered or Co	oated San	d Grains	s. ² Location: PL=Pore L	ining, M=Matrix.	
	and of the second s						an analogopperies and a second		
	il Indicators: (Applical	ble to al						roblematic Hydric Soil	is":
	sol (A1)			dy Redox (S5	2 million (1997)			(A9) (LRR C)	
	Epipedon (A2)			pped Matrix (S	21			(A10) (LRR B)	
	Histic (A3)			my Mucky Mi			Reduced V	Contractor 180 (Proper-	
	ogen Sulfide (A4)			my Gleyed Matrix ()		t Material (TF2)	
	fied Layers (A5) (LRR C Muck (A9) (LRR D)	•)			and an and a second second			lain in Remarks)	
_	eted Below Dark Surface	(011)		lox Dark Surfa bleted Dark Su		7)			
	Dark Surface (A12)	(((1))		lox Depressio)			
	y Mucky Mineral (S1)			nal Pools (F9)				ators of hydrophytic vege	
	y Gleyed Matrix (S4)				, ,			land hydrology must be nless disturbed or proble	
	e Layer (if present):								induo.
(122)									
Type: no			6				Undria Cail Dres ant?	Yes	X No
Depth (inch							Hydric Soil Present?		
	rganic layer on top exter ore linings in a layer that								
	ns are present at 23% co								c sample, redux
	,		,						
HYDROLOG									
	lydrology Indicators:								
	dicators (minimum of on	e require						ndary Indicators (2 or m	
	ce Water (A1)			Crust (B11)				Water Marks (B1) (Rive	and the second sec
	Water Table (A2)			ic Crust (B12)				Sediment Deposits (B2)	
	ation (A3)			atic Invertebra				Drift Deposits (B3) (Riv	
	r Marks (B1) (Nonriveri			Irogen Sulfide				Drainage Patterns (B10	
-	nent Deposits (B2) (Nor					and the second second		Dry-Season Water Tabl	e (C2)
	Deposits (B3) (Nonriver ice Soil Cracks (B6)	ine)		sence of Red				Crayfish Burrows (C8)	arial Imagany (CO)
	lation Visible on Aerial Ir	magany		ent Iron Redu		med St		Saturation Visible on Ae Shallow Aquitard (D3)	marimagery (C9)
	r-Stained Leaves (B9)	nagery		er (Explain in		4		FAC-Neutral Test (D5)	
Field Obse					Remarks	<i>"</i>		TAC-Neutral Test (D3)	
	ater Present? Yes		No X D	epth (inches)					
weighter with a second				epth (inches)	-	_			
Saturation				epth (inches)			Wetland Hydrolo	av Present? Ves	X No
	apillary fringe)		<u> </u>	opar (mones)				3, 1000111 103	
	corded Data (stream gau	uge, mor	nitoring well, ae	rial photos, pr	revious in	spectio	ns), if available:		

Remarks:

US Army Corps of Engineers

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Project/Site:	60656629 SMUD 0	Country Acres Sola	ar	City/County:	Placer Cour	nty		Sampling Da	ite:	04/08/21
Applicant/Owner: Investigator(s):	SMUD W. Splittstoesser, J. Wu	irlitzer. B. Christianson	& O, Routt	Section	n. Township,	Range:	State: CA 20 11N 5E	Sampling Po	lint:	001 B
Landform (hillslop	e, terrace, etc.);	Low terrace		Local re	lief (concave	a, convex	, none): none	3	Slope (%):	1%
Subregion (LRR):	Mediterranean Cali	itomia (LRR C)	Lat		38.78	8717656	Long:	-121.4337327	Datum	NAD 83
Soil Map Unit Nar	ne: Cometa-Fid	Idyment complex,	1 to 5 perce	ent slopes (4603	305)		NWI Classification:	n/a		1000 C
Are climatic / hydr	ologic conditions on	the site typical fo	r this time o	l year?	Yes		No X	(If no, explain in	n Remarks)
Are Vegetation	Soil	, or Hydrology	1.1.1	significantly di	isturbed?	Are 1	Normal Circumstand	es" present?	Yes X	No
Are Vegetation	, Soil	, or Hydrology	<u>x</u>	naturally probl	lematic?	(If nee	eded, explain any ar	nswers in Remar	ks.)	

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

Hydrophytic Vegetation Present?	Yes	No	X	Is the Sampled Area			
Hydric Soil Present?	Yes	No	X	within a Wetland?	Yes	No	X
Wetland Hydrology Present?	Yes	No	х	Willing a Webana.			

inches for the County (Placer County rain gauge #1786, collected from October 1, 2020 to April 08, 2021, located about 3 miles west of project site along Pleasant Grove Creek). The site is north of a drainage that may flood periodically and not every year. The project site is in an annual grassland with imigated pastures to the north and rice fields to the east and may receive overland or subsurface flow from these adjacent uses during the summer, or what would normally be the dry season. Area may be grazed occassionally, cows are present on field to the west.

. Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
	-		_	Total Number of Dominant Species Across All Strata: 3 (B)
		-Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
	· · · · · · · · · · · · · · · · · · ·			OBL species 0 x1 = 0
	1		_	FACW species 0 x2 = 0
	-		· · · · ·	FAC species 8 x3 = 24
-	-			FACU species 3 x4 = 12
		= Total Cover		UPL species 30 x5 = 150
Herb Stratum (Plot size: r = 6 tt)				Column Totals: 41 (A) 186 (B)
Erodium botrys	5%	Yes	FACU	Prevalence Index = B/A = 4.5
Elymus caput-medusae	30%	Yes	NL	
Cirsium vulgare	1%		FACU	Hydrophytic Vegetation Indicators:
Rumex crispus	3%		FAC	33% Dominance Test is >50%
Vicia sativa	2%		FACU	4.5 Prevalence Index is ≤3.0 ¹
Festuca perennis	5%	Yes	FAC	Morphological Adaptationd ¹ (Provide supporting
	-			data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation (Explain)
	46%	- Total Cover	-	
Woody Vine Stratum (Plot size:)			1	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum 54%	% Cover	=Total Cover	0%	Hydrophytic Vegetation Present? Yes No X
and the second	1			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Type1 Loc2 Texture Remarks 0.5-12 10YR 5/4 93 10YR 5/6 4 C M Ioam 10YR 3/2 2 C M Ioam manganese soft masses	-B
Color (moist) % Color (moist) % Type ¹ Loc ² Texture Remarks 0.5-12 10YR 5/4 93 10YR 5/6 4 C M Ioam	
0.5-12 10YR 5/4 93 10YR 5/6 4 C M loam	
	_
10YR 3/2 2 C M manganese soft masses	_
	_
	_
	_
	-
	_
	_
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :	
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C)	
Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B)	
Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2)	
Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks)	
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	
Thick Dark Surface (A12) Redox Depressions (F8) ³ Indicators of hydrophytic vegetation and	
Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology must be present.	
Sandy Gleyed Matrix (S4) unless disturbed or problematic.	
Restrictive Layer (if present):	
Type: no	
Depth (inches): 12 Hydric Soil Present? Yes No X	
Remarks: Single strata included organic layer that reaches about 0.5". To qualify as hydric soils, the manganese soft masses in the sample would have to at 5% or more concentration, and they are at 2%.	be
HYDROLOGY	_
Wetland Hydrology Indicators:	
Primary 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) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine)	

Primary Indicators (minimu	m of one requ	ired; ch	eck a	l that apply)		Secondary Indicators (2 or more required)				
Surface Water (A1)				Salt Crust (B11)		Water Marks (B1) (Riverine)				
High Water Table (A2	2)			Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)				
Saturation (A3)				Aquatic Invertebrates (B13)		Drift Deposits (B3) (Riverine)				
Water Marks (B1) (No	onriverine)	Drainage Patterns (B10)								
Sediment Deposits (B	32) (Nonriveri	Dry-Season Water Table (C2)								
Drift Deposits (B3) (N	onriverine)	Crayfish Burrows (C8)								
Surface Soil Cracks (B6)	ed Soils (C6)	Saturation Visible on Aerial Imagery (C9)							
Inundation Visible on	Aerial Imager	y (B7)	_	Thin Muck Surface (C7)		Shallow Aquitard (D3)				
Water-Stained Leave	s (B9)			Other (Explain in Remarks)		FAC-Neutral Test (D5)				
Field Observations:										
Surface Water Present?	Yes	No	Х	Depth (inches):	_					
Water Table Present?	Yes	No	Х	Depth (inches):						
Saturation Present?	Yes	No	Х	Depth (inches):	Wetland H	lydrology Present? Yes No X				
(includes capillary fringe)		-			_					
Describe Recorded Data (stre	eam gauge, m	nonitorin	ig wel	, aerial photos, previous inspe	ections), if available	e.				
Remarks:										
US Army Corps of Engineers						Arid West - Version 2.0				

Project/Site:	60656	629 SMUD	Country Acres Sola	r c	ity/County: Placer County		Sampling Dat	te: 04/08/21
Applicant/Owner: Investigator(s):			unlitzer, B, Christianson,	& O, Routt	Section, Township, Rang	State: <u>CA</u> je: 20.11N.5E	Sampling Poi	nt: 002-4
Landform (hillslop Subregion (LRR):		1. C. C. C. M.	Low terrace	Lat:	Local relief (concave, con 38,788,382		121,4347823	Slope (%):2% Datum: NAD 83
Soil Map Unit Nar		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	ts, hardpan substra		1.10.110.10	NWI Classification:		Datani (1010-00
Are climatic / hydr	rologic	conditions o	n the site typical for	this time of y	ear? Yes	No X	(If no, explain in	Remarks.)
Are Vegetation		, Soil	, or Hydrology	\$	significantly disturbed? An	e "Normal Circumstani	ces" present? Y	res X No
Are Vegetation	X	, Soil	, or Hydrology	<u>x</u>	naturally problematic? (If a	needed, explain any a	nswers in Remark	.s.)

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

Hydrophytic Vegetation Present?	Yes	X	No	6 11 10 10 10 10 10 10 10 10 10 10 10 10			
Hydric Soil Present?	Yes	X	No	Is the Sampled Area within a Wetland?	Yes	X	No
Wetland Hydrology Present?	Yes	X	No	within a weballur			
Remarks: Wetland #3 Abnormally	low rainfa	ill tota	Is for the sea	sor: only 4.92 Inches of rain for th	e rain vear to	date. w	when normal is 35 inches for the County
							ct site along Pleasant Grove Creek). The
site is north of a drainage that may fi	lood peric	dicall	y and not eve	ry year. The project site is in an ar	unual grassla	nd with	irrigated pastures to the north and rice

site is north of a drainage that may flood periodically and not every year. The project site is in an annual grassland with imgated pastures to the north and rice fields to the east and may receive overland or subsurface flow from these adjacent uses during the summer, or what would normally be the dry season. Area may be grazed occassionally, cows are present on field to the west.

VEGETATION - Use scientific names of plants.

<u>Tree Stratum</u> (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2.		-		Total Number of Dominant
3.				Species Across All Strata: 2 (B)
4.				Percent of Dominant Species
	-	= Total Cove	έr.	That Are OBL, FACW, or FAC:50% (Å/B)
Sapling/Shrub Stratum (Plot size:) 1	_			Prevalence Index Worksheet: Total % Cover of: Multiply by:
2				OBL species 48% x1 = 48
3				FACW species 30% x2 = 60
4.				FAC species _ 2% _ x3 = _ 6
5		1		FACU species 0 x4 - 0
		-Total Cove	st.	UPL species 2 x5 = 10
Herb Stratum (Plot size: r = 6 ft_)				Column Totals: 82% (A) 124 (B)
1. Lasthenia glaberrima	40%	Yes	OBL	Prevalence Index = B/A = 1.5
2. Plagiobothrys stipitatus	30%	Yes	FACW	
3, Hypochaeris glabra	2%		NL	Hydrophytic Vegetation Indicators:
 Eleocharis palustris (macrostachya) 	3%		OBL	X Dominance Test is >50%
5. Achyrachaena mollis	1%		FAC	X Prevalence Index is ≤3.0 ¹
6. Rumex crispus	1%		FAC	Morphological Adaptationd ¹ (Provide supporting
7. Ranunculus bonariensis	5%		OBL	data in Remarks or on a separate sheet)
8.				Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:) 1.	82%	- Total Cove	H.	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2% Bare Ground in Herb Stratum 16%	% Cover of	- Total Cove Biotic Crust	97 0%	Hydrophytic Vegetation Present? Yes X No
Remarks: This welland also had dead standing Typ	ha scattered a	along its soul	hem and w	estern edge. Dominant species indicative of vernal pool; however, ha indicate wetland may be inundated for very long periods in some

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			purmeeue	a to document	the	e indicate	or or con	nfirm the absen	ice of indicator	rs.)	
Depth	Matrix			Redox Fe	atu	ires		_			
(inches)	Color (moist)	%	Color (r	moist) %	_	Type ¹	Loc ²	Texture		Rema	arks
)-6	10YR 5/1	72	7.5 YR 4/	/61	0	С	М	Sandy loam			
<	·		7.5YR 5/			С	М	<u> </u>			
	-	-	7.5YR 5/		_	PL	М	-			
5-12	10YR 5/1	48	5Y 2.5/1			С	М	Sandy loam	mangan	ese masses	
	÷	<u> </u>	7.5YR 3/4			C	M				
	-	<u> </u>	5YR 3/6			C	M				
	-	<u> </u>	5YR 3/6		5	PL	M	- <u>-</u>			
Type: C=C	concentration, D=Depletion	n, RM=Re	duced Matrix	x, CS=Covered or	r Co	ated Sand	Grains.	² Location: PL=P	ore Lining, M=Ma	ıtrix.	
ydric Soi	il Indicators: (Applica	able to al	ll LRRs, ur	nless otherwise	end	oted.)		Indicators f	or Problematic	Hydric Soils	s ³ :
Histor	sol (A1)			Sandy Redox ((\$5))		1 cm M	luck (A9) (LRR	C)	
Histic	: Epipedon (A2)		_	Stripped Matrix	k (S	6)		2 cm M	luck (A10) (LRF	RB)	
Black	(Histic (A3)		-	Loamy Mucky	Min	neral (F1)		Reduce	ed Vertic (F18)		
Hydro	ogen Sulfide (A4)		_	Loamy Gleyed	Ma	atrix (F2)		Red Pa	arent Material (1	FF2)	
Strati	ified Layers (A5) (LRR	C)		Depleted Matri	x (F	=3)		Other (Explain in Rem	arks)	
	Muck (A9) (LRR D)		_	Redox Dark Su							
	eted Below Dark Surfac	ce (A11)	_	Depleted Dark)				
_	Dark Surface (A12)		_X_	Redox Depress				³ lr	dicators of hyd	rophytic vege	tation and
Sand	ly Mucky Mineral (S1)		_	Vernal Pools (F	F9)				wetland hydrol	ogy must be p	present,
Sand	ly Gleyed Matrix (S4)								unless disturt	bed or probler	natic.
estrictive	e Layer (if present):										
ype: <u>no</u>			_				ну	ydric Soil Pres	ent?	Yes X	(No
Type: <u>no</u> Depth (inch	hes): <u>12"</u>	oth. In clo	sed depres	ssions subject to	0 00	ondina. 5		<u>.</u>			
ype: <u>no</u> Depth (inch marks: Org	ne hes): <u>12"</u> ganic layer 0.25" in dep						percent of	or more distinct	or prominent re	dox concentra	ations occurring
ype: <u>no</u> Depth (inch marks: Org masses o	hes): <u>12"</u>	er that is 5	5 cm (2 incl	hes) or more this	ck a	and starts	percent of at a dep	or more distinct oth ≤10 cm (4 in	or prominent re ches) from the	dox concentra soil surface; ir	ations occurring
ype: <u>no</u> epth (inch marks: Org masses o	ne hes): <u>12"</u> ganic layer 0.25" in dep or pore linings in a laye	er that is 5	5 cm (2 incl	hes) or more this	ck a	and starts	percent of at a dep	or more distinct oth ≤10 cm (4 in	or prominent re ches) from the	dox concentra soil surface; ir	ations occurring
ype: <u>no</u> epth (inch narks: Org masses o	ne hes): <u>12"</u> ganic layer 0.25" in dep or pore linings in a laye	er that is 5	5 cm (2 incl	hes) or more this	ck a	and starts	percent of at a dep	or more distinct oth ≤10 cm (4 in	or prominent re ches) from the	dox concentra soil surface; ir	ations occurring
ype: <u>no</u> epth (inch narks: Org masses o	ne hes): <u>12"</u> ganic layer 0.25" in dep or pore linings in a laye	er that is 5	5 cm (2 incl	hes) or more this	ck a	and starts	percent of at a dep	or more distinct oth ≤10 cm (4 in	or prominent re ches) from the	dox concentra soil surface; ir	ations occurring
ype: <u>no</u> epth (inch marks: Or masses of centration	ne hes): <u>12"</u> ganic layer 0.25" in der or pore linings in a laye ns are at 25% masses i	er that is 5	5 cm (2 incl	hes) or more this	ck a	and starts	percent of at a dep	or more distinct oth ≤10 cm (4 in	or prominent re ches) from the	dox concentra soil surface; ir	ations occurring
ype: <u>no</u> epth (inch narks: Org masses of centration OROLOG Vetland H	me hes): <u>12"</u> ganic layer 0.25" in dep or pore linings in a laye ns are at 25% masses i sy sy hydrology Indicators:	er that is S	5 cm (2 incl that is 6 in	hes) or more thi thes thick and s	ck a	and starts	percent of at a dep	or more distinct th ≤10 cm (4 in than 4 inches fr	or prominent re ches) from the : om the surface.	dox concentrasoil surface; ir	ations occurring n the sample, re-
ype: <u>no</u> epth (inch marks: Org masses of centration DROLOG Vetland H rimary Inc	ne hes): <u>12"</u> ganic layer 0.25" in der or pore linings in a laye ns are at 25% masses i sy iydrology Indicators: dicators (minimum of or	er that is S	5 cm (2 incl that is 6 in	hes) or more thic iches thick and s all that apply)	ck a	and starts	percent of at a dep	or more distinct th ≤10 cm (4 in than 4 inches fr	or prominent re ches) from the s om the surface.	dox concentr soil surface; ir ators (2 or mo	ations occurring n the sample, re- pre required)
ype: <u>no</u> epth (inch narks: Or masses o centration DROLOG fetland H rimary Inc Surfa	ne hes): <u>12"</u> ganic layer 0.25" in der or pore linings in a laye ns are at 25% masses i sy lydrology Indicators: dicators (minimum of or ne Water (A1)	er that is S	5 cm (2 incl that is 6 in	hes) or more thic iches thick and s all that apply) Salt Crust (B11	ck a star	and starts	percent of at a dep	or more distinct th ≤10 cm (4 in than 4 inches fr	or prominent re ches) from the s om the surface. <u>secondary Indic</u> Water Mark	dox concentra soil surface; ir ators (2 or mc ks (B1) (Rive	ations occurring n the sample, re- pre required) rine)
ype: <u>no</u> epth (inch narks: Or, masses o centration DROLOG Vetland H rimary Inc Surfa High 1	me hes): <u>12"</u> ganic layer 0.25" in der or pore linings in a layer ns are at 25% masses i sy Hydrology Indicators: dicators (minimum of or nce Water (A1) Water Table (A2)	er that is S	5 cm (2 incl that is 6 in	hes) or more thic ches thick and s all that apply) Salt Crust (B11 Biotic Crust (B1	ck a star 1) 12)	and starts	percent of s at a dep pth less t	or more distinct th ≤10 cm (4 in than 4 inches fr	or prominent re ches) from the s om the surface. Secondary Indic Water Mark Sediment I	ators (2 or mo ks (B1) (River Deposits (B2)	ations occurring n the sample, re- pre required) rine) (Riverine)
ype: <u>no</u> epth (inch narks: Or masses o centration DROLOG Vetland H rimary Inc Surfa Surfa High 1 Satur:	me hes): <u>12"</u> ganic layer 0.25" in deg or pore linings in a layer ns are at 25% masses i sy Hydrology Indicators: dicators (minimum of or nce Water (A1) Water Table (A2) ration (A3)	er that is 5 in a layer ne require	5 cm (2 incl that is 6 in	hes) or more thic ches thick and s all that apply) Salt Crust (B11 Biotic Crust (B1 Aquatic Inverte	ck a star 1) 12) ebra	and starts ts at a de ates (B13))	or more distinct th ≤10 cm (4 in than 4 inches fr	or prominent re ches) from the s om the surface. Secondary Indica Water Mark Sediment I Drift Depos	ators (2 or mo ks (B1) (River Deposits (B2) its (B3) (River	ations occurring n the sample, re- pre required) rine) (Riverine) rine)
ype: <u>no</u> epth (inch marks: Ory masses of centration DROLOG /etland H rimary Inc Surfar High 1 Satur Wate	me hes): <u>12"</u> ganic layer 0.25" in deg or pore linings in a laye ns are at 25% masses i sy Hydrology Indicators: dicators (minimum of or nce Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonriver	er that is 5 in a layer ne require rine)	5 cm (2 incl that is 6 in ed; check a	hes) or more thic iches thick and s all that apply) Salt Crust (B11 Biotic Crust (B1 Aquatic Inverte Hydrogen Sulfi	tk a star 1) 12) ebra	and starts ts at a de ates (B13) Odor (C1)	th ≤10 cm (4 in than 4 inches fr <u>S</u>	or prominent re ches) from the s om the surface. Secondary Indica Water Mark Sediment I Drift Depos Drainage P	ators (2 or mo soil surface; ir ators (2 or mo ks (B1) (River Deposits (B2) sits (B3) (River 'atterns (B10)	ations occurring n the sample, re- pre required) rine) (Riverine) rine)
ype: no epth (inch marks: Ory masses of centration PROLOG etland H imary Inc Surfar Under Surfar Satur Satur Satur Satur Satur	me hes): <u>12"</u> ganic layer 0.25" in deg or pore linings in a laye ns are at 25% masses i sy Hydrology Indicators: dicators (minimum of or nec Water (A1) Water Table (A2) ration (A3) rr Marks (B1) (Nonriver ment Deposits (B2) (No	ne require ne require rine)	5 cm (2 incl that is 6 in ed; check a	hes) or more thic iches thick and s all that apply) Salt Crust (B11 Biotic Crust (B11 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo	1) 12) 12) 12) 12) 12) 12) 12) 12) 12) 1	and starts at a de ates (B13) Odor (C1 heres alo)) Living	th ≤10 cm (4 in than 4 inches fr <u>S</u>	or prominent re ches) from the s om the surface.	ators (2 or mo soil surface; ir ators (2 or mo ks (B1) (River Deposits (B2) sits (B3) (Rive 'atterns (B10) n Water Table	ations occurring n the sample, re- pre required) rine) (Riverine) rine)
ype: no epth (inch marks: Ory masses of centration DROLOG /etland H rimary Inc Surfa Surfa Satura Satura Satura Satura Drift I	me hes): <u>12"</u> ganic layer 0.25" in deg or pore linings in a laye ns are at 25% masses i sy Hydrology Indicators: dicators (minimum of or nee Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonrive	ne require ne require rine)	5 cm (2 incl that is 6 in ed; check a	hes) or more this iccles thick and s all that apply) Salt Crust (B11 Biotic Crust (B11 Biotic Crust (B14 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re	ck a star 1) 12) ebra ide osph edu	and starts ts at a de ates (B13) Odor (C1 heres alo iced Iron)) ng Living (C4)	ror more distinct th ≤10 cm (4 in than 4 inches fr <u>S</u> _	or prominent re ches) from the s om the surface.	ators (2 or mo soil surface; ir ators (2 or mo ks (B1) (Rive i Deposits (B2) sits (B3) (Rive Patterns (B10) n Water Table urrows (C8)	ations occurring n the sample, re- ore required) rine) (Riverine) erine)
ype: no epth (inch marks: Ory masses of centration PROLOG /etland H rimary Inc Surfa Satura Satura Sedin Drift I Surfa	me hes): <u>12"</u> ganic layer 0.25" in deg or pore linings in a laye ns are at 25% masses i gy Hydrology Indicators: dicators (minimum of or nee Water (A1) Water Table (A2) ration (A3) rr Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver nec Soil Cracks (B6)	rine) rine) rine) rine) rine)	5 cm (2 incl that is 6 in ed; check a 	hes) or more thic ches thick and s all that apply) Salt Crust (B11 Biotic Crust (B11 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re	ck a star 1) 12) 20ra ide osph edu	and starts ts at a de ates (B13) Odor (C1 heres alo iced Iron ction in T)) ng Living (C4)	ror more distinct th ≤10 cm (4 in than 4 inches fr <u>S</u> _	or prominent re ches) from the s om the surface.	ators (2 or mo soil surface; ir ators (2 or mo cs (B1) (River Deposits (B2) sits (B3) (Rive Patterns (B10) n Water Table urrows (C8) Visible on Ae	ations occurring n the sample, re- pre required) rine) (Riverine) rine)
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ype: no repth (inch narks: Orn masses of centration DROLOG /etland H rrimary Inc Surfa Satura Sedin Drift I Surfa Inund Wate	ane hes): <u>12"</u> ganic layer 0.25" in deg or pore linings in a layer ns are at 25% masses in a layer sy terms are at 25% masses in a layer sy terms are at 25% masses in a layer ty terms are at 25% masses in a layer ty terms are at 25% masses in ty terms are at 25% ma	rine) rine) rine) rine) rine)	5 cm (2 incl that is 6 in ed; check a 	all that apply) Salt Crust (B11 Biotic Crust (B11 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf	1) 1) 12) 12) 12) 12) 12) 12) 12) 12) 12	ates (B13) Odor (C1 heres alo iced Iron ction in T e (C7))) ng Living (C4)	ror more distinct th ≤10 cm (4 in than 4 inches fr <u>S</u> _	econdary Indica econdary Indica Water Mark Sediment I Drift Depos Drainage P Dry-Season Crayfish Bu Saturation Shallow Aq	ators (2 or mo soil surface; ir ators (2 or mo (s (B1) (River Deposits (B2) sits (B3) (Rive Patterns (B10) n Water Table urrows (C8) Visible on Aer uitard (D3)	ations occurring n the sample, re- ore required) rine) (Riverine) erine)
ype: no hepth (inch marks: Orn marks: Orn masses of centration DROLOG /etland H frimary Inc Surfa Satura Sedin Drift I Surfa Inund Water ield Obse	ane hes): <u>12"</u> ganic layer 0.25" in deg or pore linings in a layer ns are at 25% masses in sy Hydrology Indicators: dicators (minimum of or nec Water (A1) Water Table (A2) ration (A3) rr Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver nent Deposits (B3) (Norriver nent Deposits (B3) (Norriver nent Deposits (B3) (Norriver nent Deposits (B3) (Norriver nent Deposits (B3) (Norriver) (B3) (Noriver) (B3) (Norri	rine) nrine) nriverine rine)	ed; check a	all that apply) Salt Crust (B11 Biotic Crust (B11 Biotic Crust (B11 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Other (Explain	ck a star 1) 12) 20 20 20 20 20 20 20 20 20 20 20 20 20	ates (B13) Odor (C1 heres alo iced Iron ction in T e (C7) Remarks))) ng Living (C4)	ror more distinct th ≤10 cm (4 in than 4 inches fr <u>S</u> _	econdary Indica econdary Indica Water Mark Sediment I Drift Depos Drainage P Dry-Season Crayfish Bu Saturation Shallow Aq	ators (2 or mo soil surface; ir ators (2 or mo (s (B1) (River Deposits (B2) sits (B3) (Rive Patterns (B10) n Water Table urrows (C8) Visible on Aer uitard (D3)	ations occurring n the sample, re- ore required) rine) (Riverine) erine)
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ype: no repth (inch marks: Org masses of centration DROLOG /etland H rrimary Inc Satura Satus	me hes): <u>12"</u> ganic layer 0.25" in deg or pore linings in a laye ns are at 25% masses i gy Hydrology Indicators: dicators (minimum of or nec Water (A1) Water Table (A2) ration (A3) rr Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ment Deposits (B3) (Norriver ment Deposits (B3) (Norriver) (Norriver ment Deposits (B3) (Norriver) (Norriver) (Norriver) (Norri	rine) na require rine) nriverine rine) Imagery i	ed; check a	all that apply) Salt Crust (B11 Biotic Crust (B11 Biotic Crust (B11 Biotic Crust (B11 Covidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Other (Explain _ Depth (inche _ Depth (ck a star 1) 12) ebra ide osph edu edu edu edu face face face s): ===================================	ates (B13) Odor (C1 heres alo iced Iron ction in T e (C7) Remarks))) ng Living (C4)	s (C6)	econdary Indica econdary Indica Water Mark Sediment I Drift Depos Drainage P Dry-Season Crayfish Bu Saturation Shallow Aq	ators (2 or mo soil surface; ir ators (2 or mo (s (B1) (River Deposits (B2) sits (B3) (River Patterns (B10) n Water Table Patterns (B10) n Water Table Patterns (C8) Visible on Aer juitard (D3) al Test (D5)	ations occurring n the sample, re- ore required) rine) (Riverine) erine)
ype: no epth (inch marks: Org masses of centration DROLOG /etland H rrimary Inc Surfa Water Satur: Surfa Unific I Surfa Unific I Surfa Unific I Surfa Unific I Surfa Unific I Surfa Unific I Surfa Unific I Surfa Surfa Surfa Unific I Surfa Surfa Surfa Surfa Surfa Surfa Surfa Surfa Surfa Surfa Surfa Surfa Surfa Surfa Surfa Surfa	ane hes): <u>12"</u> ganic layer 0.25" in deg or pore linings in a laye ns are at 25% masses i sy Hydrology Indicators: dicators (minimum of or nee Water (A1) Water Table (A2) ration (A3) rr Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ment Deposits (B3) (Norriver ment Deposits (B4)	rine) na require rine) nriverine rine) Imagery i	ed; check a ed; check a (B7) No X No X	all that apply) Salt Crust (B11 Biotic Crust (B11 Biotic Crust (B11 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Thin Muck Surf Other (Explain Depth (inche Depth (inche	ck a star 1) 12) ebra ide osph edu edu edu edu face face face s): ===================================	ates (B13) Odor (C1 heres alo iced Iron ction in T e (C7) Remarks))) ng Living (C4)	s (C6)	or prominent re ches) from the s om the surface.	ators (2 or mo soil surface; ir ators (2 or mo (s (B1) (River Deposits (B2) sits (B3) (River Patterns (B10) n Water Table Patterns (B10) n Water Table Patterns (C8) Visible on Aer juitard (D3) al Test (D5)	ations occurring n the sample, re- ore required) (Riverine) erine) e (C2) rial Imagery (C9)

US Army Corps of Engineers

Arid West - Version 2.0

Project/Site:	60656629 SMUD	Country Acres Sola	ir	City/County:	Placer County		Sampling D	ale:	04/08/21
Applicant/Owner:	SMUD			1.4.1.		State: CA	Sampling P	oint:	002.6
Investigator(s):	W. Spill thesser, J. Wi	milizer B. Christianisin	6 O Foult	Section	n, Township, Rang	e: 20 11N SE			
Landform (hillstop	e, tetrace, etc.):	Low terrace		Local re	dief (concave, con	vex. none): none		Slope (%):	0.1%
Subregion (LRR):	Mediterranean Cal	ilomia (LRR C)	Late		38,788040	13 Long:	-121.4341621	Datum	NAD 83
Soil Map Unit Nar	ne: Cometa-Fie	idyment complex.	1 to 5 percer	t slopes (46030	15)	NWI Classification:	N/A		
Are climatic / hydr	rologic conditions of	the site typical for	this time of	year?	Yes	No X	(II no, explain	in Remarks.	X
Are Vegetation	, Soll	, or Hydrology		significantly dis	sturbed? Ar	e Normal Circumstan	ces" present?	Yes X	No
Are Vegetation	. Soll	, or Hydrology	X	naturally proble	ematic? (If)	needed, explain any a	nswers in Rema	rks.)	

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

Hydrophytic Vegetation Present?	Yes		No	X				
Hydric Soil Present?	Yes	X	No	1.1	 Is the Sampled Area with a Wetland? 	in	Yes	No X
Wetland Hydrology Present?	Yes	X	No					

Pleasant Grove Creek). The site is north of a drainage that may flood periodically and not every year. The project site is in an annual grassland with imgated pastures to the north and rice fields to the east and may receive overland or subsurface flow from these adjacent uses during the summer, or what would normally be the dry season. Area may be grazed occassionally, cows are present on field to the west.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL_FACW, or FAC:
	-			(A)
				Total Number of Dominant
				Species Across All Strata: 2 (B)
		=Total Cover		Percent of Dominant Species That Are OBL_FACW, or FAC: 50% (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence index Worksheet:
				Total % Cover of: Multiply by:
				OBL species 0 x1 = 0
		-		FACW species 0 x2 0
		-	_	FAC species x3 = 126
		-		FACU species 2 x4 - 8
		 Total Cover 		UPL species
Herb Stratum (Plot size: t = 5 ft_)				Column Totals: 58% (A) 204 (B)
Vicia villosa	10%	Yes	UPL	Prevalence Index = B/A = 3.5
Lupins bicolor	2%		UPL	
Rumex crispus	1%		FAC	Hydrophytic Vegetation Indicators:
Erodium botrys	2%		FACU	Dominance Test is >50%
Triteleia hyacinthina	1%		FAC	Prevalence Index is ±3.0 ¹
Geranium dissectum	2%		UPL	Morphological Adaptationd ¹ (Provide supporting
Festuca perennis (Lolium perenne)	40%	Yes	FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation' (Explain)
Woody Vine Stratum (Plot size:)	58%	- Total Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum 42%	% Cover	= Fotal Cover	0%	Hydrophytic Vegetation Present? Yes No X

SOIL									Sampling Point:	002-B
Profile Des	scription: (Describe to th	e depth nee	eded to doc	ument th	ne indicat	tor or o	confirm the a	absence	of indicators.)	
Depth	Matrix		Re	dox Feat	ures					
(inches)	Color (moist)	% Cold	or (moist)	%	Type ¹	Loc	2 Tex	ture	Remarks	
0-14	5YR 5/2	5YR 4	/6	1	PL	М	loam			
		5YR 4	/6	5	C	М				
		10YR	2/1	3	С	М			manganese	
¹ Type: C=C	oncentration, D=Depletion, RI	M=Reduced N	latrix, CS=Co	wered or (Coated Sar	nd Grain	ns. ² Location:	PL=Pore	Lining, M=Matrix.	
Hydric Soi	Indicators: (Applicable	to all I PPs	unless of	nerwise r	(hetor		Indicat	ors for P	Problematic Hydric Soils ³ :	
	sol (A1)	to an Errits		Redox (S!					(A9) (LRR C)	
	Epipedon (A2)	_		Matrix (·				(A10) (LRR B)	
	Histic (A3)	_	_		neral (F1)				/ertic (F18)	
	gen Sulfide (A4)	-			atrix (F2)				t Material (TF2)	
	ied Layers (A5) (LRR C)	-	-	d Matrix (lain in Remarks)	
	Muck (A9) (LRR D)	_		Dark Surf			_ ^		,	
	ted Below Dark Surface (A	11) -			urface (F7	7)				
	Dark Surface (A12)		_	Depressio				31		
	Mucky Mineral (S1)		Vernal F	Pools (F9))				ators of hydrophytic vegetation land hydrology must be preser	
Sandy	Gleyed Matrix (S4)	_							nless disturbed or problematic.	
Restrictive	Layer (if present):									
Type: nor	ne									
Depth (inch							Hydric Soil	Present	7 Yes X	No
		inent redex	concentratio	DE OCCUE	ina se ma	20222			yer that is more than 2 inches	thick and starts
	is than 4 inches fromt he s							go in a lag	yer that is more than 2 mones i	These and starts
						<u>ن</u>				
HYDROLOG										
	ydrology Indicators:		1					C		
	licators (minimum of one re	equired; che							ndary Indicators (2 or more re-	juired)
	ce Water (A1)	_		st (B11)				_	Water Marks (B1) (Riverine)	
	Mater Table (A2)	_		rust (B12				_	Sediment Deposits (B2) (Rive	nne)
	ation (A3)	-			ates (B13			_	Drift Deposits (B3) (Riverine)	
	[•] Marks (B1) (Nonriverine) nent Deposits (B2) (Nonriv				Odor (C		ing Roots (C3	-	Drainage Patterns (B10)	
	Deposits (B3) (Nonriverine				uced Iron		ing Roots (C.	» —	Dry-Season Water Table (C2) Crayfish Burrows (C8)	
	ce Soil Cracks (B6)		_		uction in T		oile (C6)	-	Saturation Visible on Aerial Im	adeny (CO)
	ation Visible on Aerial Imag	nerv (B7)		ck Surfac		lileu 3		_	Shallow Aquitard (D3)	agery (Ca)
	-Stained Leaves (B9)	Joi J (01)			Remarks	à		_	FAC-Neutral Test (D5)	
Field Obse	contractor de la contractor	-	- Outor (c		Romands	7			Tric-Hould Tost (Do)	
1001 1001 100100	ater Present? Yes	No	V Donth	i (inches)						
Water Tabl										
Saturation	Present? Yes	No No	X Depth	(inches)		_	Wetland	Hydrold	ogy Present? Yes X	No
	apillary fringe)		N Dopu	(monos)						
	orded Data (stream gauge	, monitoring	well, aerial	photos, p	revious in	spection	ons), if availa	ble:		
Duranda Ori	dies distance because and			0			the state The		the late of a second second second	side inclusion of
									site is in an annual grassland nt uses during the summer, or	
									o compaction of the A horizon	
									• • • • • • • • • • • • • • • • • • •	
US Army Cor	ps of Engineers								Arid W	est - Version 2.0

Project/Site, Applicant/Owner:		Country Acres Solar		y/County: Placer County	State: CA	Sampling Date: Sampling Point	04/08/21 003-A	
Investigator(s):	J. Wurlitzer & W. 5	splittstoesser	-	Section, Township, Rang		gran	-	
Landform (hillslop	ne, lenace, elc.):	Low lenace		Local relief (concave, con	vex, none): concav	e Slo	pe (%): 1%	
Subregion (LRR)	Mediterranean Ca	ifornia (LRR C)	Lat:	38.787977	51 Long:	121.4340229	Daum: NAD 83	
Soil Map Unit Na	me: San Joaquinv	Cometa sandy loams 145%	slopes; and Co	meta-Fiddyment.compleic. 1.5%.siq	SNWI Classificati	on: n/a	4 Y	
Are climatic / hyd	rologic conditions of	the site typical for th	is time of year	ar? Yes	No X	(If no, explain in R	emarks.)	
Are Vegetation	, Soll	, or Hydrology	SÌ	gnificantly disturbed? Are	"Normal Circumst	ances' present? Ye	s X No	
Are Vegetation	, Soil	, or Hydrology	na	iturally problematic? (If n	eeded, explain any	answers in Remarks.)		
Are vegetation	501	, or Hydrology	18	uuraity problematic? (it n	eeded, explain any	answers in Remarks.)		
SUMMARY O	F FINDINGS -	Attach site map s	howing sa	ampling point locations	, transects, im	portant features, o	etc.	

			 Is the Sampled Area 	
Yes	x	No	the particular of the second sec	Yes X No
Yes	х	No		and the second sec
	Yes	Yes X	Ves X No	within a weband?

Tree Stratum (Plot size:r = 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL_FACW, or FAC:
				Total Number of Dominant
	1			Species Across All Strata: 3 (B)
				Percent of Dominant Species
		- Total Cove	6	That Are OBL, FACW, or FAC: 100% (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
	· · · · · ·			Total % Cover of: Multiply by:
	_			OBL species 35 x1 - 35
-	_			FACW species 2 x2 = 4
	_			FAC species 23 x3 = 69
	2			FACU species 5 x4 = 20
		-Total Cove	r	UPL species x5 = 0
Herb Stratum (Plot size: <u>r = 5 (t</u>)				Column Totals: 65 (A) 128 (B)
Lasthenia glaberrima	15%	Yes	OBL	Prevalence Index = B/A = 2.0
Festuca perennis (Lolium perenne)	20%	Yes	TAC	
Hordeum marinum	3%		FAC	Hydrophytic Vegetation Indicators:
Plagiobothrys stipitatus	1%		FACW	X Dominance Test is >50%
Lactuca serriola	1%		FACU	X Prevalence Index is ≤3.0
Ranunculus bonariensis	5%		OBL	Morphological Adaptationd ² (Provide supporting
Eryngium vaseyi	1%	1	FACW	data in Remarks or on a separate sheet)
. Festuca myuros	4%		FACU	
Eleocharis macrostachya (Eleocharis palustris	15%	Yes	OBL	Problematic Hydrophytlo Vegetation ¹ (Explain)
	65%	=Total Cove	r	
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	-			Hydrophytic
% Bare Ground in Herb Stratum	% Cover of	= Total Cove Biotic Crust	-	Vegetation Present? X Ves No

Profile Description: (Description: (Description: Description: Descriptin: Description: Description: Description: Desc	SOIL								Sampling Point:	003-A
Index Coder (most) Sc Type Lock Totature Demarks 14 1078 6/4 92 1078 5/3 8 C M Stardy clay barn Stardy clay 14 1078 6/4 92 1078 5/3 28 C M Stardy clay Stardy clay 14 1078 6/4 92 1078 5/3 28 C M Stardy clay Stardy clay <td>Profile De</td> <td>scription: (Describe</td> <td>to the de</td> <td>pth needed to do</td> <td>cument th</td> <td>ne indica</td> <td>tor or c</td> <td>onfirm the absenc</td> <td>ce of indicators.)</td> <td></td>	Profile De	scription: (Describe	to the de	pth needed to do	cument th	ne indica	tor or c	onfirm the absenc	ce of indicators.)	
14 10YR 6/4 22 10YR 5/0 20 M Stard dy day dearly stipped matix 4:10 10YR 6/4 62 10YR 5/0 20 C M Stardy day dearly stipped matix	Depth	Matrix		Re	dox Feat	ures				
4:10 10YR 6/4 65 10YR 5/8 Zz C M Sandy clay 4:10 10YR 6/4 65 10YR 5/8 Zz C M Sandy clay dearly shipped matrix 1 10YR 6/4 65 10YR 5/8 Zz C M Sandy clay dearly shipped matrix 1 10YR 6/4 65 10YR 5/8 Zz Z M dearly shipped matrix 1 10YR 6/4 65 10YR 6/4 65 10YR 6/4 dearly shipped matrix 1 10YR 6/4 65 10YR 6/4 65 10YR 6/4 dearly shipped matrix 1 10YR 6/4 65 10YR 6/4 65 10YR 6/4 dearly shipped matrix 1 10YR 6/4 10 10YR 6/4 10YR 6/4 dearly shipped matrix dearly shipped matrix 1 10YR 6/4 10YR 6/4 10YR 6/4 10YR 6/4 dearly shipped matrix dearly shipped matrix 1 10YR 6/4 10YR 6/4 10YR 6/4 10YR 6/4 dearly shipped matrix dearly shipped matrix 1 10YR 6/4 10YR 6/4	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc	Texture	Remarks	
Image: Sol Policies (Applicable to all LRRs, unless otherwise noted) Indicators (Problematic Hydric Solis): Hydric Sol Indicators: (Applicable to all LRRs, unless otherwise noted) Indicators for Problematic Hydric Solis): Hydric Sol Indicators: (Applicable to all LRRs, unless otherwise noted) Indicators for Problematic Hydric Solis): Hydric Sol Indicators: (Applicable to all LRRs, unless otherwise noted) Indicators for Problematic Hydric Solis): Hydric Sol Indicators: (Applicable to all LRRs, unless otherwise noted) Indicators for Problematic Hydric Solis): Hydric Sol Indicators: (Applicable to all LRRs, unless otherwise noted) Indicators of Problematic Hydric Solis): Hydric Sol Indicators: (Applicable to all LRRs, unless otherwise noted) Indicators of hydrophytic vegatation and vegata (P) Stands (Hydry (LRR G) Depleted Bark (P) Redox Dark Sufface (P) Depleted Bark (S) Vernal Pools (P) Vernal Pools (P) Sandy Glacyed Maints (S-1) Vernal Pools (P) Vernal Pools (P) Dark redox throughout combined with manganeses. Restrictive layer as shalk was a inches tops runnel and doming. Spectrent or more distuct on pronominet dox concernations occurs in depressional band/orms, such as vernal pools. In the sample point, redox concernations outper solitation to be of suffice. This indicator occurs of depressional band/orms, such as vernal pools. In the sample point, redox concernations outper solitation of thydrophysindicators: Physic Vega	1-4	10YR 6/4	92	10YR 5/8	8	С	М	Silty clay loam	oxidized rhizosphere	
*Type: C-Concentration. D=Depktetion, TRA-Reduced Matrix, CS-Coversor of Coated Stand Carine: *Location: PL-Pore Lining, M=Matrix. *Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: *Hstosel (A1) Sardy Reduc, (S3) 1 cm Mack (M0) (LRR C) Bitsck Hsise Expection (A2) Stripped Matrix (S3) 2 cm Mack (M0) (LRR D) Bitsck Hsise (A3) Loamy Macky Mineral (F1) Reduce Dark Surface (F3) Cther (Explain in Remarks) Term Mack (M0) (LR D) Deapted Matrix (S7) Reduce Dark Surface (F3) Cther (Explain in Remarks) Term Mack (M0) (LR D) Reduce Dark Surface (F3) Cther (Explain in Remarks) No Sandy Macky Mineral (S1) Reduce Dark Surface (F3) 'undicators of hydrophytic vegetation and vetrad thydrology Matrix (S4) Restrictive Layer (If present): Yers Yers No _unless siduated or consont must be present? Type: Claygin Hydric Soil Present? Yers Yers No _unless siduated or consont must be present? Type: Claygin Hydric Soil Present? Yers Yers No _unless siduated or consont must be present? Type: Claygin Matrix Sther Chars (H1) Secondary Indicators (2	4-10	10YR 6/4	65	10YR 5/8	28	С	М	Sandy clay		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils?: Histosoi (A1) Sandy Rodox (S5) 1 cm Muck (A0) (LRR C) Histosoi (A2) Stripped Matrix (F3) 2 cm Muck (A0) (LRR B) Bidak Haiar (A3) Loamy Mucky Mineral (F1) Reduced Venic (F13) Hydrogen Suffick (AA) Loamy Mucky Mineral (F2) Red Parent Material (TF2) Term Muck (A9) (LRR D) Redox Dark Sufface (F3) Chiter (Explain in Remarks) Dapleted Batw Sufface (A12) X Redox Depressions (F8) "Indicators of hydrophytic vegetation and wetand hydrology must be present, unless disturbed or problemate. Sandy Cargen Loamy Mucky Mineral (S1) Vernal Pools (F9) "Indicators are B% in a layer that is 4 mines disturbed or problemate. Dark redox throughout combined with manganese. Restrictive Layer as shallow as 4 linches Bgs. In closed depressions subject to ponding. S parcent or more distand to prominent redox concentrations occuring as soft masses in a layer that is 2 linches or more thick and starts a 1 mch from the sol sufface. HYDEOLOCK Worked Hydrology Indicators: Pimary Indicators (R1) Sat Crust (R11) Secondary Indicators (2 or more required) Mark Marks (R1) (Romriverine) X Dodar (R14) Secondary Indicators (2 or more required) Mark Marks (R1) Sat Crust (R17)	121		<u>e</u>	7.5YR 2.5/2	7	С	М	10	clearly stripped matrix	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils?: Histosoi (A1) Sandy Rodox (S5) 1 cm Muck (A0) (LRR C) Histosoi (A2) Stripped Matrix (F3) 2 cm Muck (A0) (LRR B) Bidak Haiar (A3) Loamy Mucky Mineral (F1) Reduced Venic (F13) Hydrogen Suffick (AA) Loamy Mucky Mineral (F2) Red Parent Material (TF2) Term Muck (A9) (LRR D) Redox Dark Sufface (F3) Chiter (Explain in Remarks) Dapleted Batw Sufface (A12) X Redox Depressions (F8) "Indicators of hydrophytic vegetation and wetand hydrology must be present, unless disturbed or problemate. Sandy Cargen Loamy Mucky Mineral (S1) Vernal Pools (F9) "Indicators are B% in a layer that is 4 mines disturbed or problemate. Dark redox throughout combined with manganese. Restrictive Layer as shallow as 4 linches Bgs. In closed depressions subject to ponding. S parcent or more distand to prominent redox concentrations occuring as soft masses in a layer that is 2 linches or more thick and starts a 1 mch from the sol sufface. HYDEOLOCK Worked Hydrology Indicators: Pimary Indicators (R1) Sat Crust (R11) Secondary Indicators (2 or more required) Mark Marks (R1) (Romriverine) X Dodar (R14) Secondary Indicators (2 or more required) Mark Marks (R1) Sat Crust (R17)										
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Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils?: Histosoi (A1) Sandy Rodox (S5) 1 cm Muck (A0) (LRR C) Histosoi (A2) Stripped Matrix (F3) 2 cm Muck (A0) (LRR B) Bidak Haiar (A3) Loamy Mucky Mineral (F1) Reduced Venic (F13) Hydrogen Suffick (AA) Loamy Mucky Mineral (F2) Red Parent Material (TF2) Term Muck (A9) (LRR D) Redox Dark Sufface (F3) Chiter (Explain in Remarks) Dapleted Batw Sufface (A12) X Redox Depressions (F8) "Indicators of hydrophytic vegetation and wetand hydrology must be present, unless disturbed or problemate. Sandy Cargen Loamy Mucky Mineral (S1) Vernal Pools (F9) "Indicators are B% in a layer that is 4 mines disturbed or problemate. Dark redox throughout combined with manganese. Restrictive Layer as shallow as 4 linches Bgs. In closed depressions subject to ponding. S parcent or more distand to prominent redox concentrations occuring as soft masses in a layer that is 2 linches or more thick and starts a 1 mch from the sol sufface. HYDEOLOCK Worked Hydrology Indicators: Pimary Indicators (R1) Sat Crust (R11) Secondary Indicators (2 or more required) Mark Marks (R1) (Romriverine) X Dodar (R14) Secondary Indicators (2 or more required) Mark Marks (R1) Sat Crust (R17)										
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils?: Histosoi (A1) Sandy Rodox (S5) 1 cm Muck (A0) (LRR C) Histosoi (A2) Stripped Matrix (F3) 2 cm Muck (A0) (LRR B) Bidak Haiar (A3) Loamy Mucky Mineral (F1) Reduced Venic (F13) Hydrogen Suffick (AA) Loamy Mucky Mineral (F2) Red Parent Material (TF2) Term Muck (A9) (LRR D) Redox Dark Sufface (F3) Chiter (Explain in Remarks) Dapleted Batw Sufface (A12) X Redox Depressions (F8) "Indicators of hydrophytic vegetation and wetand hydrology must be present, unless disturbed or problemate. Sandy Cargen Loamy Mucky Mineral (S1) Vernal Pools (F9) "Indicators are B% in a layer that is 4 mines disturbed or problemate. Dark redox throughout combined with manganese. Restrictive Layer as shallow as 4 linches Bgs. In closed depressions subject to ponding. S parcent or more distand to prominent redox concentrations occuring as soft masses in a layer that is 2 linches or more thick and starts a 1 mch from the sol sufface. HYDEOLOCK Worked Hydrology Indicators: Pimary Indicators (R1) Sat Crust (R11) Secondary Indicators (2 or more required) Mark Marks (R1) (Romriverine) X Dodar (R14) Secondary Indicators (2 or more required) Mark Marks (R1) Sat Crust (R17)	17.00							2		
Histosol (A) Sandy Redox (SS) 1 cm Muck (A0) (LRR C) Histic Eppedon (A2) Stripped Matrix (Si) 2 cm Muck (A10) (LRR C) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F16) Hydrogen Suffice (A4) Loamy Mucky Mineral (F2) Red Patern Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Cther (Explain in Remarks) T cm Muck (A0) (LRR D) Redox Dark Surface (F7) Thick Dark Surface (A11) Depleted Bark Surface (F7) Sandy Glayed Matrix (S4) K Redox Derrestons (F8) ¹ Indicators of hydrophytic vegetation and wetand hydrology must be present. Sandy Glayed Matrix (S4) K Redox Copersistons (F8) ¹ Indicators of hydrophytic vegetation and wetand hydrology must be present. Type: Clayged Matrix (S4) K Rob (K P) wemal Pools (F9) Dark redox throughout combined with manyanese. Restrictive layer as shallow as 4 Inches bps. Inclosed dapressions subject to proding. S parcent or more medical dapt S4 inches from the sol surface. HUDROLOGY Wetland Hydrology Indicators: No Phimary Indicators (Gan Concertations occurs on depressional landforms, such as vernal pools. In the sample point, redox concentrations are 8% in a layer that is 4 inches das Inches da	Type: C=C	oncentration, D=Depietro	n, RM=Re	educed Matrix, CS=C	overed or (Joated Sa	nd Grain	s. Location: PL=Po	re Lining, M=Matrix.	
Hsaic Epipedon (A2) Stripped Matrix (S3) 2 cm Mack (A0) (RP B) Black Histic (A3) Loamy Gleyed Matrix (F3) Reduced Vertic (F16) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) T cm Mack (A0) (RP B) Depleted Matrix (F3) Other (Explain in Remarks) T cm Mack (A0) (RP B) Depleted Matrix (F3) Other (Explain in Remarks) T cm Mack (A0) (RP B) Depleted Dark Surface (F1) Thick Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) K Redox Dark Surface (F3) "Undicators of hydrophytic vegatation and wetand hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: (Laypan) Hydric Soil Present? Yes X No	Hydric So	il Indicators: (Applica	able to a	II LRRs, unless ot	herwise r	noted.)		Indicators for	Problematic Hydric Soils ³ :	
Back Histic (A3) Loany Mucky Mineral (F1) Reduced Vertic (F1) Hydrogen Sulfale (A4) Loany Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Chine (Epslain in Remarks) T cm Muck (A9) (LRR D) Redox Dark Surface (F1) Chine (Epslain in Remarks) Depleted Back Surface (A12) X Redox Depressions (F3) ¹ Indicators of hydrophytic vegatation and vetfand Hydrology must be present; Sandy Gleyed Matrix (S4) Urmal Pools (F9) ¹ Indicators of hydrophytic vegatation and vetfand Hydrology must be present; Type: Claygen Hydric Soil Present? Yes No Dark redox throughout combined with menganese. Restrictive layer as shallow as 4 inches bg. In closed depressions subject to ponding, 5 percent or more discing to concentrations occurring as os fmasses in a layer that is 2 inches on more thick and starts at a dept 44 inches from the soil surface. HVDROLOGY Wetand Hydrology Indicators: Secondary Indicators (2 or more required) Pimary Indicators (R2) (Nonriverine) Hydrogen Sulfide Coly (C1) Saturation (A3) Aquuei Interbeats (G13) Sulface Water (A1) Saturation (A3) Aquuei Interbeats (G13) Dift Deposis (G3) (Riverine) Sulface Soil Cracks (B3) Ondrized Riviscapetors ando Lawers (G3) Dift Deposis (G3)	Histo	sol (A1)		Sandy	Redox (S	5)		1 cm Mue	ck (A9) (LRR C)	
Hydrogen Sulfice (A) Leamy Glevel Matrix (F2) Red Parent Material (TF2) Statilied Layers (A) (LRR C) Depleted Matrix (F3) Cther (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Sulface (F7) The Lobark Sulface (A11) Depleted Dark Sulface (F7) 1 Tm Kub Zwi Grey (A11) Depleted Dark Sulface (F7) unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Dark Sulface (F7) unless disturbed or problematic. Restrictive Layer (F present): Type: Claypan Hydric Soil Present? Yes X No Dept redox Throughout combined with manganess. Restrictive Layer as shallow as 4 inches bys. In Cosed depressions are 6% in a layer that is 4 inches think indicator occurring as soft masses in a layer that is 2 inches or more thick and starts at a depth 54 inches from the soft surface. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (Intro) Secondary Indicators (2 or more required) Final Y Motor Table (A2) Solid Crust (B11) Secondary Indicators (2 or more required) Secondary Indicators (2 or more required) Primary Indicators (Intro) Aquasic Invertebrates (B13) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Mater Marks (B1) (Nonriverine) Hydrogen Sulfide Oddr (C1) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) <t< td=""><td> Histic</td><td>: Epipedon (A2)</td><td></td><td>Strippe</td><td>d Matrix (</td><td>S6)</td><td></td><td>2 cm Mue</td><td>ck (A10) (LRR B)</td><td></td></t<>	Histic	: Epipedon (A2)		Strippe	d Matrix (S6)		2 cm Mue	ck (A10) (LRR B)	
Stratified Layers (AS) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Perfected Dark Surface (F7) 1 betweed Below Dark Surface (A12) X Redox Dark Surface (F7) 1 betweed Below Dark Surface (A12) X Redox Dark Surface (F7) 1 betweed Below Dark Surface (A12) X Redox Depressions (F8) 1 betweed Below Dark Surface (A12) X Redox Depressions (F8) 1 betweed Matrix (S4) Vermal Pools (F9) 'Indicators of hydrophytic vegetation and wettending hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: [Layer Carbon Dimed with manganese. Restrictive layer as shallow as 4 inches bgs. In closed depressions subject to pronting. 5 percent or more distinct or prominent redox concentrations occurring as soft masses in a layer that is 2 inches or more thick and starts at a depth 54 inches from the soit sample point, redox concentrations are 6% in a layer that is 4 Notice Concentrations occurring as soft masses in a layer that is 2 inches or more thick and starts at a depth 54 inches from the soit sample point, redox concentrations are 6% in a layer that is 4 Notice Concentrations occurring as soft masses in a layer that is a 2 inches or more thick and starts at a depth 54 inches from the soit sample point, redox concentratinors are 6% in a layer that is 4 <	Black	(Histic (A3)		Loamy	Mucky Mi	neral (F1))	Reduced	Vertic (F18)	
I cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A12) Ledox Dark Surface (F3) Thick Dark Surface (A12) Kedox Dopressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) Type: Charge and the prosent; Type: Charge and the prosent	Hydr	ogen Sulfide (A4)		Loamy	Gleyed M	latrix (F2))	Red Pare	ent Material (TF2)	
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) X Redox Depressions (F6) Sandy Gleyed Matrix (S4) Vernal Pools (F9) Bestrictive Layer (f present): Vernal Pools (F9) Depth (inches): 4-10 inches Dark redox throughout combined with manganese. Restrictive layer as shallow as 4 inches bgs. In closed depressions subject to ponding. 5 percent or more distinct doc concentrations occuring as soft masses in a layer that is 2 inches or more thick and starts at a depth 4 in the store sort more thick and starts at a depth 4 in the store sort more indicators (E) ponding. 5 percent or more distinct doc concentrations are 8% in a layer that is 4 inches for more thick and starts at a depth 4 inches in these or more thick and starts at a depth 4 in the store are thick and starts at a depth 4 in the store are thing as a distart at a depth 4 in the store are thing. PHOROLOGY Wetand Hydrology Indicators: Primary Indicators (B13) Aquatic Inverterbates (B13) Startace Water (A1) Saturation (A3) Aquatic Inverterbates (B13) Drift Deposits (B3) (Riverine) Startace Start Biology Nonriverine) X Oxidized Ritize (C1) Drift Deposits (B3) (Nonriverine) Startace Start Biology Nonriverine) X Oxidized Ritize (C2) Crayfish Burrows (C8) Startace Start Biology Nonriverine) X Pesence of Reduced Iron (C4) Crayfish Burrows (C8)	Strat	ified Layers (A5) (LRR	C)	Deplete	d Matrix ((F3)		Other (E)	xplain in Remarks)	
Thick Dark Surface (A12) X Redox Depressions (F8) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present):	1 cm	Muck (A9) (LRR D)		Redox	Dark Surf:	ace (F6)				
Sindy Mucky Mineral (S1) Vernal Pools (F9) Initiations of right of the present, unless disturbed or problematic. Sandy Cleyed Matrix (S4) Vernal Pools (F9) Vernal Pools (F9) Type: Clayed Matrix (S4) Vernal Pools (F9) Type: Clayed Matrix (S4) Vernal Pools (F9) Dark redox throughout combined with manganese. Restrictive layer as shallow as 4 inches bgs. In closed depressions subject to ponding. 5 percent or more distor or prominent redox concentrations occurring as soft masses in a layer that is 2 inches or more flick and starts at a depth 24 inches from the soft surface. This indicator occurs on depressional landforms, such as vernal pools. In the sample point, redox concentrations are 8% in a layer that is 4 inches the start at a inch from the soft surface. HVDROLOGY Wetland Hydrology indicators: Primary Indicators (minimum of one required: check all that apply) Secondary Indicators (2 or more required) Startace Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) Startace Water (A1) Salt Crust (B12) Sediment Deposits (B2) (Riverine) Startace Water (A1) Salt Crust (B12) Drift Deposits (B3) (Riverine) Startace Soft Cracks (B6) Recent Iron Reduction in Titled Soils (C6) Saturation Visible on Aerial Imagery (C9) Startace Water Present? Yes No X Depth (nches): Shaltow Aquatard	Deple	eted Below Dark Surfac	e (A11)	Deplete	d Dark Si	urface (Fi	7)			
	Thick	Coark Surface (A12)		X Redox	Depressio	ons (F8)		³ Indi	icators of hydrophytic vegetation	n and
Restrictive Layer (if present): Type: Claypan Depth (inches): 4_10 inches Dark redox throughout combined with manganese. Restrictive layer as shallow as 4 inches bgs. In closed depressions subject to ponding. 5 percent or more distinct or prominent redox concentrations occurring as soft masses in a layer that is 2 inches or more thick and starts at a depth s4 inches from the soil surface. This indicator occurs on depressional landforms, such as vernal pools. In the sample point, redox concentrations are 8% in a layer that is 4 inches thick and starts a 1 inch from the soil surface. HVDROLOGY Wetland Hydrology Indicators: Primary Indicators (inimium of one required: check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B12) Surface Water (A3) Aquatic invertebrates (B13) Water Marks (B1) (Nonriverine) X Water Marks (B1) (Nonriverine) X Vifiace C(2) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Recent Iron Reduction in Tiled Soils (C6) Sattrace (C7) X Sattrace (R9) Other (Explain in Remarks) Field Observations: Yes Water Marke (Present? Yes No X Depth (inches): Water Table Present? Yes No X	Sand	ly Mucky Mineral (S1)		Vernal	Pools (F9))				
Type: Claypan Depth (inches): 4.10 inches Dark redox throughout combined with manganese. Restrictive layer as shallow as 4 inches bgs. In closed depressions subject to ponding. 5 percent or more disticts or prominent redox concentrations occurring as soft masses in a layer that is 2 inches or more thick and starts at a depth 4 inches from the soil surface. This indicator occurs on depressional landforms, such as vernal pools. In the sample point, redox concentrations are 9% in a layer that is 4 inches thick and starts at a depth 4 inches from the soil surface. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (2 or more required)	Sand	ly Gleyed Matrix (S4)						1	unless disturbed or problematic	1
Depth (inches): 4.10 inches Hydric Soil Present? Yes _ X _ No Dark redox throughout combined with manganese. Restrictive layer as shallow as 4 inches bgs. In closed depressions subject to ponding. 5 percent or more distinct or prominent redox concentrations occurring as soft masses in a layer that is 2 inches or more thick and starts at a depth 4 inches from the soil surface. This indicator occurs on depressional landforms, such as vernal pools. In the sample point, redox concentrations are 6% in a layer that is 4 inches thick and starts at a depth 4 inches from the soil surface. HYDROLOGY Wetland Hydrology Indicators: Pirmary 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) Hydrigen Sulfide Odor (C1) Sold reaks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) X Oxadzed Ritzospheres along Living Roots (C3) Dry Season Water Table (C2) Drift Deposits (B2) (Nonriverine) Y Presence of Reduced Iron (C4) Crayfish Burrows (C3) Sufface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) X Shallow Aquitard (D3) FAC-Neutral Test (D5) Field Observation	Restrictiv	e Layer (if present):								
Dark redox throughout combined with manganese. Restrictive layer as shallow as 4 inches bgs. In closed depressions subject to ponding, 5 percent or more distinct or prominent redox concentrations occurring as soft masses in a layer that is 2 inches or more thick and starts at a depth 44 inches from the soil surface. This indicator occurs on depressional landforms, such as vernal pools. In the sample point, redox concentrations are 8% in a layer that is 4 inches thick and starts at 1 inch from the soil surface. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B11) Hybrology Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Cdor (C1) Saturation (X3) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Titled Soils (C6) Surface Soil Cracks (B6) Recent Iron Reduction in Titled Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water Table (Lavers (B9) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Water Table Present? Ye	Type: CI	aypan								
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Remarks: vernal pool topography and soil type		capillary fringe)								
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	60656629 SMUD	Country Acres So	lar	City/County:	Placer Co	unty					Date;	
pplicant/Owner:	SMUD W. Spillstnesser, J. Wr	without P. Christmann	P. 2 C. D+14!	1.000			State: (Sn	npling I	Point:	004
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	rologic conditions or						No J	_			in Rema	
re Vegetation	Soil											XN0
re Vegetation	Soll	or Hydrology	X	naturally pr	oblematic?	(If nee	ded, expla	ain any a	ITSWers	in Rema	arks.)	
UMMARY O	F FINDINGS - /	Attach site ma	ıp showing	j sampling	point lo	cations,	transec	ts, imp	ortant	featu	res, etc.	
ydrophytic Vege	etation Present?	Yes X	No			2			1.1			
ydric Soil Prese	01?	Yes X	No		ampled Are a Wetland?		Yes	х	No		_	
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l project site alo rassland with im ummer, or what	mal is 35 inches for ng Pleasant Grove (Igated pastures to th would normally be the I - Use scientifi	Creek). The site is he north and rice the dry season. A	s north of a dr fields to the e rea may be gr	ainage that n ast and may	nay flood pe receive ove	eriodically Intand or su	and not en ubsuiface	very year flow fron	r. The pr n these a	oject sil	le is in an	annual
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free Stratum	(Plot size: r = 6 lt_		% Cover	Species?	Status		of Domin					
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and Assess	. C.I					Total Nr	mber of I	lominant			-	-84
							Across A				3	(B)
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			5	- Total Cove	H.		OBL, FA				66%	(A/B)
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	1 . I			Contraction of the second s		100 100 100						
	(Plot size: r = 6 ft_					Column	Totals:	59	(A)		148	(B)
Eleocharis m	acrostachya (E. p.	alustris)	20%	Yes	OBL		Totals:		_(A)	_	148 .5	(B)
Eleocharis m		alustris)	20%	Yes Yes	FACU				_(A)	_		(B)
Eleocharis m Festuca myu Rumex crisp	acrostachya (E. p. ros (Vulpia myuro: ous	alustris)	20% 10%		FACU	Preva Hydropi	llence Inde hytic Veg	ex - B/A petation I	(A)	2. rs:		(B)
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Eleocharis m Festuca myu Rumex crisp Cyperus era	acrostachya (E. p. ros (Vulpia myuro) ous ogrostis	alustris)	20% 10% 3%	Yes	FACU FAC FACW	Preval Hydroph 66% 2.5	hytic Veg Dominar Prevaler Morphol	ex = B/A netation I nee Test nee Index ogical Ad	(A) _ Indicato is >50% is ≤3.0 laptation	2. rs:) ¹ nd ¹ (Pro	.5 Vide supp	
Eleocharis m Festuca myu Rumex crisp Cyperus era	acrostachya (E. p. ros (Vulpia myuro) ous ogrostis	alustris)	20% 10% 3%	Yes	FACU FAC FACW	Preval Hydroph 66% 2.5	hytic Veg Dominar Prevaler Morpholi data in F	ex - B/A petation I nce Test nce Index ogical Ad Remarks	(A) Indicato is >50% is ±3.0 laptation or on a	z. ors:) ¹ nd ¹ (Pro separate	.5 vide supp e sheet)	onting
Eleochatis m Festuca myu Rumex crisp Cyperus era Rorippa cur	acrostachya (E. p. ros (Vulpia myuro) ous ogrostis	alustris)	20% 10% 3% 1%	Yes Yes	FACU FAC FACW FACW	Preval Hydroph 66% 2.5	hytic Veg Dominar Prevaler Morpholi data in F	ex - B/A petation I nce Test nce Index ogical Ad Remarks	(A) Indicato is >50% is ±3.0 laptation or on a	z. ors:) ¹ nd ¹ (Pro separate	.5 Vide supp	onting
Eleocharis m Festuca myu Rumex crisp Cyperus era Rorippa cum	acrostachya (E. p. ros (Vulpia myuro nus ngrostis vipes	alustrís) s)	20% 10% 3% 1%	Yes	FACU FAC FACW FACW	Preval Hydropi 66% 2.5	hytic Veg Dominar Prevaler Morphole data in F Problem	ex - B/A getation I nce Test i nce Index ogical Ad Remarks natic Hydr	(A) indicato is >50% is ≤3.0 laptation or on a : rophytic	2. rs: p ¹ d ¹ (Pro separate Vegetal	.5 vide supp e sheet) tion' (Expl	orting airi)
Eleocharis m Festuca myu Rumex crisp Cyperus era Rorippa cum	acrostachya (E. p. ros (Vulpia myuro) ous ogrostis	alustrís) s)	20% 10% 3% 1%	Yes Yes	FACU FAC FACW FACW	Preval Hydropi 66% 2.5 'Indicato	lence inde hytic Veg Dominar Prevaler Morphole data in F Problem	ex - B/A petation I nce Test nce Index ogical Ad Remarks natic Hydr nic soll an	(A) Indicato is >50% r is ≤3.0 taptation or on a - rophytic ad wetlar	2. rs: p ¹ d ¹ (Pro separate Vegetal	.5 vide supp e sheet) tion ¹ (Expl	orting airi)
Eleocharis m Festuca myu Rumex crisp Cyperus era Rorippa cum	acrostachya (E. p. ros (Vulpia myuro nus ngrostis vipes	alustrís) s)	20% 10% 3% 1%	Yes Yes	FACU FAC FACW FACW	Preval Hydropi 66% 2.5 'Indicato	hytic Veg Dominar Prevaler Morphole data in F Problem	ex - B/A petation I nce Test nce Index ogical Ad Remarks natic Hydr nic soll an	(A) Indicato is >50% r is ≤3.0 taptation or on a - rophytic ad wetlar	2. rs: p ¹ d ¹ (Pro separate Vegetal	.5 vide supp e sheet) tion ¹ (Expl	orting airi)
Eleocharis m Festuca myu Rumex crisp Cyperus era Rorippa cum	acrostachya (E. p. ros (Vulpia myuro nus ngrostis vipes	alustrís) s)	20% 10% 3% 1%	Yes Yes + Total Cove	FACU FAC FACW FACW	Preval Hydropi 66% 2.5 "Indicato be prese Hydropi	hence inde hytic Veg Dominar Prevaler Morphole data in F Problem ors of hydres hytic	ex - B/A petation I nce Test nce Index ogical Ad Remarks natic Hydr nic soll an	(A) Indicato is >50% r is ≤3.0 taptation or on a - rophytic ad wetlar	2. rs: p ¹ d ¹ (Pro separate Vegetal	.5 vide supp e sheet) tion ¹ (Expl	orting airi)
Eleocharis m Festuca myu Rumex crist Cyperus era Rorippa curu Woody Vine St	acrostachya (E. p. ros (Vulpia myuro ous ous grostis vipes raum (Plot size:	alustris) s)	20% 10% 3% 1%	Yes Yes - Total Cove	FACU FAC FACW FACW	Preval Hydropi 66% 2.5 'Indicato be prese Hydropi Vegetat	hence inde hytic Veg Dominar Prevaler Morpholi data in F Problem ors of hydi ent, unless hytic tion	ex - B/A petation I nce Test nce Index ogical Ad Remarks natic Hydr nic soll an	(A) indicato is >50% c is ≤3.0 laptation or on a rophytic ind wetlan ed or pro	2. rs: / ¹ vegetat vegetat nd hydro blemati	vide supp e sheet) tion" (Expl ology mus	orting airi)
Eleocharis m Festuca myu Rumex crist Cyperus era Ronppa cur Woody Vine Si % Bare Ground	acrostachya (E. p. ros (Vulpia myuro nus ngrostis vipes	alustrís) s)	20% 10% 3% 1%	Yes Yes + Total Cove	FACU FAC FACW FACW	Preval Hydropi 66% 2.5 "Indicato be prese Hydropi	hence inde hytic Veg Dominar Prevaler Morpholi data in F Problem ors of hydi ent, unless hytic tion	ex - B/A petation I nce Test nce Index ogical Ad Remarks natic Hydr nic soll an	(A) Indicato is >50% r is ≤3.0 taptation or on a - rophytic ad wetlar	2. rs: p ¹ d ¹ (Pro separate Vegetal	.5 vide supp e sheet) tion ¹ (Expl	orting airi)
Eleocharis m Festuca myu Rumex crist Cyperus era Rorippa curu Woody Vine Si	acrostachya (E. p. ros (Vulpia myuro ous ous grostis vipes raum (Plot size:	alustris) s)	20% 10% 3% 1%	Yes Yes - Total Cove	FACU FAC FACW FACW	Preval Hydropi 66% 2.5 'Indicato be prese Hydropi Vegetat	hence inde hytic Veg Dominar Prevaler Morpholi data in F Problem ors of hydi ent, unless hytic tion	ex - B/A petation I nce Test nce Index ogical Ad Remarks natic Hydr nic soll an	(A) indicato is >50% c is ≤3.0 laptation or on a rophytic ind wetlan ed or pro	2. rs: / ¹ vegetat vegetat nd hydro blemati	vide supp e sheet) tion" (Expl ology mus	orting airi)
Eleocharis m Festuca myu Rumex crist Cyperus era Rorippa curu Woody Vine Si Sare Ground	acrostachya (E. p. ros (Vulpia myuro ous ous grostis vipes raum (Plot size:	alustris) s)	20% 10% 3% 1%	Yes Yes - Total Cove	FACU FAC FACW FACW	Preval Hydropi 66% 2.5 'Indicato be prese Hydropi Vegetat	hence inde hytic Veg Dominar Prevaler Morpholi data in F Problem ors of hydi ent, unless hytic tion	ex - B/A petation I nce Test nce Index ogical Ad Remarks natic Hydr nic soll an	(A) indicato is >50% c is ≤3.0 laptation or on a rophytic ind wetlan ed or pro	2. rs: / ¹ vegetat vegetat nd hydro blemati	vide supp e sheet) tion" (Expl ology mus	orting airi)
Eleocharis m Festuca myu Rumex crist Cyperus era Ronppa curu Woody Vine Si Sare Ground	acrostachya (E. p. ros (Vulpia myuro ous ous grostis vipes raum (Plot size:	alustris) s)	20% 10% 3% 1%	Yes Yes - Total Cove	FACU FAC FACW FACW	Preval Hydropi 66% 2.5 'Indicato be prese Hydropi Vegetat	hence inde hytic Veg Dominar Prevaler Morpholi data in F Problem ors of hydi ent, unless hytic tion	ex - B/A petation I nce Test nce Index ogical Ad Remarks natic Hydr nic soll an	(A) indicato is >50% c is ≤3.0 laptation or on a rophytic ind wetlan ed or pro	2. rs: / ¹ vegetat vegetat nd hydro blemati	vide supp e sheet) tion" (Expl ology mus	orting airi)
Eleocharis m Festuca myu Rumex crist Cyperus era Ronppa curu Woody Vine Si % Bare Ground	acrostachya (E. p. ros (Vulpia myuro ous ous grostis vipes raum (Plot size:	alustris) s)	20% 10% 3% 1%	Yes Yes - Total Cove	FACU FAC FACW FACW	Preval Hydropi 66% 2.5 'Indicato be prese Hydropi Vegetat	hence inde hytic Veg Dominar Prevaler Morpholi data in F Problem ors of hydi ent, unless hytic tion	ex - B/A petation I nce Test nce Index ogical Ad Remarks natic Hydr nic soll an	(A) indicato is >50% c is ≤3.0 laptation or on a rophytic ind wetlan ed or pro	2. rs: / ¹ vegetat vegetat nd hydro blemati	vide supp e sheet) tion" (Expl ology mus	orting airi)

SOIL							-	
	escription: (Describe t	to the de				tor or con	firm the absence	e of indicators.)
Depth	Matrix			edox Feat		2		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 4/3	88	10YR 4/6	12	С	M	sandy loam	
							-	
¹ Type: C=0	Concentration, D=Depletio	n, RM=Re	duced Matrix, CS=C	overed or (Coated Sar	nd Grains.	² Location: PL=Pore	e Lining, M=Matrix.
Hydric So	oil Indicators: (Applica	able to al	I LRRs, unless ot	herwise I	noted.)		Indicators for I	Problematic Hydric Soils ³ :
Histo	osol (A1)		Sandy	Redox (S	5)		1 cm Much	k (A9) (LRR C)
Histi	c Epipedon (A2)		Strippe	d Matrix (S6)		2 cm Much	k (A10) (LRR B)
Black	k Histic (A3)		Loamy	Mucky Mi	ineral (F1)		Reduced	Vertic (F18)
Hydr	ogen Sulfide (A4)		Loamy	Gleyed M	latrix (F2)		Red Parer	nt Material (TF2)
Strat	ified Layers (A5) (LRR	C)	Deplete	d Matrix	(F3)			plain in Remarks)
	Muck (A9) (LRR D)			Dark Surf				
_	eted Below Dark Surfac	ce (A11)	Deplete	d Dark Si	urface (F7	")		
Thick	k Dark Surface (A12)		X Redox	Depressio	ons (F8)		31	den fleriken betienen bei en end
Sand	dy Mucky Mineral (S1)		Vernal	Pools (F9)			ators of hydrophytic vegetation and tland hydrology must be present,
Sand	ty Gleyed Matrix (S4)							nless disturbed or problematic.
Restrictiv	e Layer (if present):							
Type: no	thes): 16"						dric Soil Present	? Yes X No
				trations o	ccurring a	s soft mas	sses in a layer that	t is 5 cm (2 inches) or more thick and starts a
i depui ≦i o	cm (4 inches) from the							
			001					
Wetland H	Hydrology Indicators:							
Wetland H				pply)			<u>Secc</u>	ondary Indicators (2 or more required)
Wetland H Primary In	Hydrology Indicators:		ed; check all that a	ust (B11)			<u>Secc</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Wetland H Primary In Surfa	Hydrology Indicators: idicators (minimum of or		ed; check all that a)		Secc	
Wetland H Primary In Surfa	Hydrology Indicators: idicators (minimum of or ace Water (A1)		ed; check all that a Salt Cn Biotic C	ust (B11) Crust (B12) rates (B13)	<u>Sect</u>	Water Marks (B1) (Riverine)
Wetland H Primary In Surfa High Satu	Hydrology Indicators: idicators (minimum of or ace Water (A1) Water Table (A2)	ne require	ed; check all that a Salt Cn Biotic C Aquatic	ust (B11) Crust (B12 Invertebr			<u>Secc</u>	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland H Primary In Surfa High Satu Wate	Hydrology Indicators: Idicators (minimum of or ace Water (A1) Water Table (A2) ration (A3)	ne require rine)	ed; check all that a Salt Cr Biotic C Aquatic Hydrog	ust (B11) Crust (B12 Invertebr en Sulfide	ates (B13 Odor (C1	1)	<u>Sect</u> Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland H Primary In Surfa High Satu Wate Sedi	Hydrology Indicators: Idicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver	ne require rine) nriverine	ed; check all that a Salt Cr Biotic C Aquatio Hydrog X Oxidize	ust (B11) Crust (B12 Invertebr en Sulfide d Rhizosp	ates (B13 Odor (C1	i) ing Living		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland H Primary In Surfa High Satu Wate Sedi Drift	Hydrology Indicators: Idicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (No	ne require rine) nriverine	ed; check all that a Salt Cr Biotic C Aquatic Hydrog Y Oxidize Presen	ust (B11) Crust (B12 Invertebr en Sulfide ed Rhizosp ce of Red	rates (B13 e Odor (C1 pheres alo luced Iron	i) ing Living (C4)	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Wetland H Primary In Surfa High Satu Wate Sedi Drift Surfa	Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ace Soil Cracks (B6)	ne require rine) prriverine)	ed; check all that a Salt Cr Biotic C Aquatic Hydrog X Oxidize Presen Recent	ust (B11) Crust (B12 Invertebr en Sulfide ed Rhizosp ce of Red Iron Red	rates (B13 e Odor (C1 pheres alo luced Iron luction in T	i) ing Living (C4)	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland H Primary In Surfa High Satu Wate Sedi Drift Surfa Inun	Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial	ne require rine) prriverine)	ed; check all that a Salt Cr Biotic C Aquatic Hydrog X Oxidize Presen Recent (87) Thin M	ust (B11) Crust (B12 Invertebr en Sulfide ed Rhizosj ce of Red Iron Redu uck Surfa	rates (B13 e Odor (C1 pheres alo uced Iron uction in T ce (C7)	i) ing Living (C4) îlled Soils	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland H Primary In Surfa High Satu Wate Sedi Drift Surfa Inun Wate	Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial ar-Stained Leaves (B9)	ne require rine) prriverine)	ed; check all that a Salt Cr Biotic C Aquatic Hydrog X Oxidize Presen Recent (87) Thin M	ust (B11) Crust (B12 Invertebr en Sulfide ed Rhizosj ce of Red Iron Redu uck Surfa	rates (B13 e Odor (C1 pheres alo luced Iron luction in T	i) ing Living (C4) îlled Soils	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland H Primary In Surfa High Satu Wate Sedi Drift Surfa Inun Wate	Hydrology Indicators: Idicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial er-Stained Leaves (B9) revations:	ne require rine) prriverine prine) Imagery (ed; check all that a Salt Cr Biotic C Aquatic Hydrog X Oxidize Presen Recent (87) Thin M Other (ust (B11) Crust (B12 Invertebr en Sulfide ed Rhizosj ce of Red Iron Redu uck Surfac Explain in	ates (B13 odor (C1 pheres alo uced Iron uction in T ce (C7) Remarks	i) ing Living (C4) îlled Soils	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland I Primary In Surfa High Satu Satu Surfa Surfa Field Obs Surface W	Hydrology Indicators: Idicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (Non Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial er-Stained Leaves (B9) revations: /ater Present? Yes	ne require rine) prriverine erine) Imagery (ed; check all that a Biotic C Aquatic Hydrog X Oxidize Presen Recent (87) Thin M Other (ust (B11) Crust (B12 Invertebr en Sulfide d Rhizosp ce of Red Iron Redu uck Surfar Explain in	ates (B13 e Odor (C1 pheres alo uced Iron uction in T ce (C7) Remarks	i) ing Living (C4) îlled Soils	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland I Primary In Surfa High Satu Wate Sedi Drift Surfa Inum Wate Field Obs Surface W	Hydrology Indicators: Idicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B3) (Nonriver ment Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial er-Stained Leaves (B9) revations: Vater Present? Yes	ne require rine) prriverine erine) Imagery (ed; check all that a Salt Cr Biotic C Aquatic Hydrog X Oxidize Recent (B7) No X Dept No X Dept	ust (B11) Crust (B12 Envertebr en Sulfide d Rhizosj ce of Red Iron Redi uck Surfa Explain in h (inches) h (inches)	ates (B13 o Odor (C1 pheres alo uced Iron uction in T ce (C7) Remarks	i) ing Living (C4) îlled Soils	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland I Primary In Surfa High Satu Wate Sedi Drift Surfa Inum Wate Field Obse Surface W Water Tab Saturation	Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) ar Marks (B1) (Nonriver ment Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial ar-Stained Leaves (B9) Hervations: fater Present? Yes ble Present? Yes Present? Yes	ne require rine) prriverine erine) Imagery (ed; check all that a Salt Cr Biotic C Aquatic Hydrog X Oxidize Recent (B7) No X Dept No X Dept	ust (B11) Crust (B12 Invertebr en Sulfide d Rhizosp ce of Red Iron Redu uck Surfar Explain in	ates (B13 o Odor (C1 pheres alo uced Iron uction in T ce (C7) Remarks	i) ing Living (C4) îlled Soils	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland H Primary In Surfa High Satu Wate Sedi Drift Surfa Inum Wate Field Obs Surface W Water Tab Saturation (includes of	Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) ar Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial ar-Stained Leaves (B9) vervations: /ater Present? Yes ble Present? Yes capillary fringe)	ne require rine) pnriverine srine) Imagery (ed; check all that a Salt Cr Biotic C Aquatic Hydrog No X Oxidize Presen Recent CB7) No X Dept No X Dept Dept	ust (B11) Crust (B12 Invertebr en Sulfide d Rhizosj ce of Red Iron Redi uck Surfa Explain in h (inches) h (inches)	rates (B13 e Odor (C1 pheres alo uced Iron uction in T ce (C7) Remarks	i) ing Living (C4) illed Soils	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland I Primary In Surfa High Satu Wate Sedi Drift Surfa Inum Wate Field Obs Surface W Water Tab Saturation (includes of	Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) ar Marks (B1) (Nonriver ment Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial ar-Stained Leaves (B9) Hervations: fater Present? Yes ble Present? Yes Present? Yes	ne require rine) pnriverine srine) Imagery (ed; check all that a Salt Cr Biotic C Aquatic Hydrog No X Oxidize Presen Recent CB7) No X Dept No X Dept Dept	ust (B11) Crust (B12 Invertebr en Sulfide d Rhizosj ce of Red Iron Redi uck Surfa Explain in h (inches) h (inches)	rates (B13 e Odor (C1 pheres alo uced Iron uction in T ce (C7) Remarks	i) ing Living (C4) illed Soils	Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Project/Site:	60656629 SMUD	Country Acres Sola	r0	ity/County: Placer Count	y		Sampling Da	te;	04/08/21
Applicant/Owner: investigator(s):	SMUD W. Spillstnesser, J. W	unitzer 8 Climstranson	& O. FRAME	Section, Township, R	tange:	State: CA 20 11N 5E	Sampling Po	int:	004 B
Landform (hillstop	e, terrace, etc.):	Low terrace		Local relief (concave.	convex	, none): none		Slope (%):	2%
Subregion (LRR);	Mediterranean Ca	lifornia (LRR C)	Lat:	38.786	74299	Long:	121.4329991	Datum	NAD 83
Soil Map Unit Nar	ne: Cometa-Fi	ddyment complex.	to 5 percent	slopes (460305)	1.1	NWI Classification:	N/A		C
Are climatic / hydr	rologic conditions of	n the site typical for	this time of y	ear? Yes		No X	(If no, explain in	Remarks)
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "I	Normal Circumstant	es present?	Yes X	No
Are Vegetation	Soil	, or Hydrology	<u>X</u>	naturally problematic?	(Il nee	ded, explain any ar	iswers in Remail	(s.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No C No	<u>x</u>	Is the Sampled Area within a Wetland?	Yes	No	x
Wetland Hydrology Present?	Yes	No	X	Contract & Street and St.			
Remarks: Upland point for wetland for the County (Placer County rain g Grove Creek). The site is north of a	auge #1786,	collected	from Octo		located about 3 m	illes west of p	roject site along Pleasant

Grove creek). The site is norm of a drainage that may thood periodically and not every year. The project site is in an annual grassiand with irrigated pastures to the north and rice fields to the east and may receive overland or subsurface flow from these adjacent uses during the summer, or what would normally be the dry season. Area may be grazed occassionally, cows are present on field to the west.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
				That Are OBL, FACW, or FAC: 0 0	A)
			~	Total Number of Dominant	
			()	Species Across All Strata: 2 (I	B)
				Percent of Dominant Species	
		= Total Cove	r		A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:	
				Total % Cover of: Multiply by:	
1			_	OBL speciesx1 =	
				FACW species x2 =	
			-	FAC species X3 =	
	1	· · · · · · · · · · · · · · · · · · ·		FACU species x4	
		= Total Cove	4	UPL speciesx5 =	
Herb Stratum (Plot size: (= 6 ft_)				Column Totals:(A)(I)	B)
Vicia villosa	2%		UPL	Prevalence Index B/A	
Bromus hordeaceus	30%	Yes	FACU	a company of california and call and the	_
Bromus diandrus	20%	Yes	UPL	Hydrophytic Vegetation Indicators:	
Raphanus sp.	1%	1	UPL	Dominance Test is >50%	
Brassica nigra	1%		UPL	Prevalence Index (s ≤3.0)	
Lactuca serriola	1%		FACU	Morphological Adaptationd ¹ (Provide supporting	1
				data in Remarks or on a separate sheet)	
			-	Problematic Hydrophytic Vegetation ¹ (Explain)	
	56	= Total Cove	1		
Woody Vine Stratum (Plot size:)				² Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
		- Total Cove		Hydrophytic	
la en en en en la beren en	% Cover of	• • • • • • • • • • • • • • • • • • •	.0	Vegetation Present? Yes No X	
% Bare Ground in Heib Stratum 44	of Contract MI	rend the Solution	M		-

Profile De	scription: (Describe										
epth	Matrix			Redox Fe	atures		_				
nches)	Color (moist)	%	Color (m	oist) %	Type ¹	Loc ²	Textur	ė		Remarks	S
-5	10YR 4/3	88	10YR 4/6		6 C	М	sandy loa	m			
				-				-			
				-			_	_			
mor C-C	Concentration, D=Depletio	DM-D	ducod Motrix	CS-Coursed a	r Contod So	nd Croinc	² ocation: D	-Doro Lini	ng, M=Matrix.		
ype. v=v	oncentration, D=Depleto	n, RM=Re	duced maura	v 03=00vereu t	n coateu sa	nu Grains.	Location. Pi	L-FOIG LIII	ng, m=maun.		
dric So	il Indicators: (Applica	able to al	I LRRs, uni	less otherwise	e noted.)		Indicators	s for Prob	elematic Hyd	ric Soils ³ :	
	sol (A1)		÷	Sandy Redox ((S5)		1 cm	Muck (As) (LRR C)		
10000	: Epipedon (A2)			Stripped Matrix					10) (LRR B)		
	t Histic (A3)			Loamy Mucky	contraction and			uced Verti	· · · · ·		
	ogen Sulfide (A4)			Loamy Gleyed	and the second s)			aterial (TF2)		
	fied Layers (A5) (LRR	C)		Depleted Matri			Othe	r (Explain	in Remarks)		
_	Muck (A9) (LRR D)	18.4.43		Redox Dark Su							
_	eted Below Dark Surfac	e (A11)		Depleted Dark		/)					
	Dark Surface (A12)			Redox Depres: Vernal Pools (F					s of hydrophy		
_	ly Mucky Mineral (S1) ly Gleyed Matrix (S4)			vernai Pools (r	-9)				l hydrology m s disturbed o		
	e Layer (if present):							unes	s distuibed o	problema	
suicuv	e Layer (il present):										
									v		Ne
				concentrations	s occurring		ydric Soil Pr asses in a lay			es X s) or more	No
epth (inc narks: 5	hes): 5" percent or more distinc			concentrations	s occurring					-	
epth (inc harks: 5 pth ≤10	hes): <u>5"</u> percent or more distinc cm (4 inches) from the			concentrations	s occurring					-	
epth (inc arks: 5 pth ≤10 PROLOG etland F	hes): <u>5"</u> percent or more distinc cm (4 inches) from the (4 inches) from the sy and the system of t	soil surfa	ce		s occurring			er that is s	5 cm (2 inche	s) or more	thick and sta
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epth (inc narks: 5 pth ≤10 PROLOG etland F imary In Surfa High Satu Wate	hes): <u>5"</u> percent or more distinc cm (4 inches) from the SY Hydrology Indicators: dicators (minimum of or icators (minimum of you cav Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonrivel	soil surfa	ed; check al	l that apply) Salt Crust (B11 Biotic Crust (B Aquatic Inverte Hydrogen Sulfi	I) 12) brates (B1: de Odor (C	as soft ma 3) 1)	asses in a lay	Seconda Seconda Sec Drit Drit	5 cm (2 inche ary Indicators ter Marks (B1 diment Depos t Deposits (B inage Patterr	(2 or more) (Rivering its (B2) (Ri 3) (Riverin 1s (B10)	required) a) iverine) ie)
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PROLOCO PROLOCO Petland H imary In Satu Satu Satu Drift Surfa Surfa eld Obs urface W	hes): <u>5</u> " percent or more distinc cm (4 inches) from the (4 inche	ne requir ne requir nriverine rine) Imagery	ed; check al ed; check al 	I that apply) Salt Crust (B1 Biotic Crust (B Aquatic Inverte Hydrogen Sulfi Dydizzed Rhizo Presence of Re Recent Iron Re Thin Muck Surf Other (Explain Depth (inche	I) 12) sbrates (B1: de Odor (C spheres al educed Iror sducetion in ' face (C7) in Remark: s):	as soft ma as soft ma 3) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1)	Roots (C3)	Seconda Seconda Seconda Drit Dri Dri Dri Sat Sta Sha	5 cm (2 inche ry Indicators ter Marks (B1 diment Deposits (B inage Patterr - Season Wat iyfish Burrow: uration Visibl allow Aquitaro	(2 or more (2 or more) (Riverina its (B2) (Ri its (B2) (Ri its (B2) (Ri its (B2) its (B10) er Table (C s (C8) e on Aerial I (D3)	required) a) verine) e)
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PROLOG PROLOG PROLOG Petland H imary In Satu Sat	hes): <u>5</u> " percent or more distinc cm (4 inches) from the (4 inches) from the (4 inches) from the (5 inches) from the (4 inches) from the (4 inches) from the (5 inche	ne require rine) mriverine rine) Imagery	ce ed; check al e) (B7) No No	I that apply) Salt Crust (B1 Biotic Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re Recent Iron Re Cher (Explain Depth (inche Depth (inche	I) 12) brates (B1: de Odor (C spheres al educed Iror eduction in ' face (C7) in Remark: is): is):	as soft ma as soft ma 3) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1)	I Roots (C3)	Seconda Wa Drit Drit Dry Cra Sta FA	5 cm (2 inche ary Indicators ter Marks (B1 diment Deposits (B inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat allow Aquitar C-Neutral Tes	(2 or more (2 or more) (Riverind its (B2) (Ri 3) (Riverind is (B10) er Table (C 5 (C8) e on Aerial I (D3) it (D5)	required) a) iverine) e) :2) Imagery (CS
PROLOG PROLOG etland H imary In Surfa High Satu Wate Sedii Drift Surfa Uvate eld Obs urface W ater Tab aturation ncludes o	hes): <u>5</u> " percent or more distinc cm (4 inches) from the (4 inches) from the (5) (4) (4) (4) (4) (4) (4) (4) (5) (4) (4) (5) (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5	ne require nerequire nriverine rine) Imagery	ce ed; check al 	I that apply) Salt Crust (B11 Biotic Crust (B1 Aquatic Inverte Hydrogen Sulfi Dxidized Rhizo Presence of R Recent Iron Re Thin Muck Surf Other (Explain Depth (inche Depth (inche	I) 12) brates (B1: de Odor (C spheres al- aduced Iror duction in face (C7) in Remark: (s): (s): (s): 	as soft ma as soft ma 3) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1)	I Roots (C3) s (C6)	Seconda Wa Sec Drit Drit Dry Cra Sat Sha FAd Ydrology	5 cm (2 inche ary Indicators ter Marks (B1 diment Deposits (B inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat allow Aquitar C-Neutral Tes	(2 or more (2 or more) (Riverind its (B2) (Ri 3) (Riverind is (B10) er Table (C 5 (C8) e on Aerial I (D3) it (D5)	required) a) iverine) e) :2) Imagery (CS
PROLOC PROLOC PROLOC Petland H imary In Satu Satu Satu Satu Surfa Bruft Surfa Unate Vate eld Obs urface W ater Tab aturation acludes of cribe Re	hes): <u>5</u> " percent or more distinc cm (4 inches) from the (4 inches) from the (4 inches) from the (5 Y) Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ment Deposits (B	ne require nerequire nriverine rine) Imagery	ce ed; check al 	I that apply) Salt Crust (B11 Biotic Crust (B1 Aquatic Inverte Hydrogen Sulfi Dxidized Rhizo Presence of R Recent Iron Re Thin Muck Surf Other (Explain Depth (inche Depth (inche	I) 12) brates (B1: de Odor (C spheres al- aduced Iror duction in face (C7) in Remark: (s): (s): (s): 	as soft ma as soft ma 3) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1)	I Roots (C3) s (C6)	Seconda Wa Sec Drit Drit Dry Cra Sat Sha FAd Ydrology	5 cm (2 inche ary Indicators ter Marks (B1 diment Deposits (B inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat allow Aquitar C-Neutral Tes	(2 or more (2 or more) (Riverind its (B2) (Ri 3) (Riverind is (B10) er Table (C 5 (C8) e on Aerial I (D3) it (D5)	required) a) iverine) e) :2) Imagery (CS
PROLOG PROLOG etland H imary In Surfa High Satu Wate Sedii Drift Surfa Uvate eld Obs urface W ater Tab aturation ncludes o	hes): <u>5</u> " percent or more distinc cm (4 inches) from the (4 inches) from the (4 inches) from the (5 Y) Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ment Deposits (B	ne require nerequire nriverine rine) Imagery	ce ed; check al 	I that apply) Salt Crust (B11 Biotic Crust (B1 Aquatic Inverte Hydrogen Sulfi Dxidized Rhizo Presence of R Recent Iron Re Thin Muck Surf Other (Explain Depth (inche Depth (inche	I) 12) brates (B1: de Odor (C spheres al- aduced Iror duction in face (C7) in Remark: (s): (s): (s): 	as soft ma as soft ma 3) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1)	I Roots (C3) s (C6)	Seconda Wa Sec Drit Drit Dry Cra Sat Sha FAd Ydrology	5 cm (2 inche ary Indicators ter Marks (B1 diment Deposits (B inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat allow Aquitar C-Neutral Tes	(2 or more (2 or more) (Riverind its (B2) (Ri 3) (Riverind is (B10) er Table (C 5 (C8) e on Aerial I (D3) it (D5)	required) a) iverine) e) :2) Imagery (CS
PROLOC PROLOC PROLOC Petland H imary In Satu Satu Satu Satu Surfa Bruft Surfa Unate Vate eld Obs urface W ater Tab aturation acludes of cribe Re	hes): <u>5</u> " percent or more distinc cm (4 inches) from the (4 inches) from the (4 inches) from the (5 Y) Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ment Deposits (B	ne require nerequire nriverine rine) Imagery	ce ed; check al 	I that apply) Salt Crust (B11 Biotic Crust (B1 Aquatic Inverte Hydrogen Sulfi Dxidized Rhizo Presence of R Recent Iron Re Thin Muck Surf Other (Explain Depth (inche Depth (inche	I) 12) brates (B1: de Odor (C spheres al- aduced Iror duction in face (C7) in Remark: (s): (s): (s): 	as soft ma as soft ma 3) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1)	I Roots (C3) s (C6)	Seconda Wa Sec Drit Drit Dry Cra Sat Sha FAd Ydrology	5 cm (2 inche ary Indicators ter Marks (B1 diment Deposits (B inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat allow Aquitar C-Neutral Tes	(2 or more (2 or more) (Riverind its (B2) (Ri 3) (Riverind is (B10) er Table (C 5 (C8) e on Aerial I (D3) it (D5)	required) a) iverine) e) :2) Imagery (CS
PROLOC PROLOC ettand H imary In Satu Satu Satu Satu Satu Uate Surfa Surfa Surfa Unatu Wate eld Obs urface W ater Tab aturation acludes of cribe Re	hes): <u>5</u> " percent or more distinc cm (4 inches) from the (4 inches) from the (4 inches) from the (5 Y) Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ment Deposits (B	ne require nerequire nriverine rine) Imagery	ce ed; check al 	I that apply) Salt Crust (B11 Biotic Crust (B1 Aquatic Inverte Hydrogen Sulfi Dxidized Rhizo Presence of R Recent Iron Re Thin Muck Surf Other (Explain Depth (inche Depth (inche	I) 12) brates (B1: de Odor (C spheres al- aduced Iror duction in face (C7) in Remark: (s): (s): (s): 	as soft ma as soft ma 3) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1)	I Roots (C3) s (C6)	Seconda Wa Sec Drit Drit Dry Cra Sat Sha FAd Ydrology	5 cm (2 inche ary Indicators ter Marks (B1 diment Deposits (B inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat inage Patterr - Season Wat allow Aquitar C-Neutral Tes	(2 or more (2 or more) (Riverind its (B2) (Ri 3) (Riverind is (B10) er Table (C 5 (C8) e on Aerial I (D3) it (D5)	required) a) iverine) e) :2) Imagery (CS

Project/Site: 6	0656629 SMUE	Country Acres Solar	Ci	ty/County: Placer Count	ý.		Sampling Dat	te:	04/09/21
Applicant/Owner: A Investigator(s):	pplicant is Sacr	amento Municipal Utility Nunitzer, B. Christianson, & C	Distinct (SM	IUD) Section, Township, I	tange:	State: CA. 20 11N 5E	Sampling Por	int:	005-A
Landform (hillslope,	terrace, etc.);	Terrace		Local relief (concave,	CONVEX	, none): concave		Slope (%):	1%
Subregion (LRR): A	lediterranean C	alifornia (LRR C)	Lat:	38.788	72889	Long:	121.433283	Datum: N	AD 83
Soil Map Unit Name	: San Joaq	uin-Corneta sandy loar	ns, 1 to 5 per	ment slopes		NWI Classification:	N/A		
Are climatic / hydrol	ogic conditions of	on the site typical for thi	s time of yea	ar7 Yes	_	No X	(If no, explain in	Remarks.)	
Are Vegetation	Sol	, or Hydrology	3	gnificantly disturbed?	Are I	Vormal Circumstanc	es" present?	Yes X N	0
Are Vegetation	. Sort	, or Hydrology	n	aturally problematic?	(If nee	ded, explain any an	swers in Remark	S.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	X	No	Is the Sampled Area	Yes	x	No
Wetland Hydrology Present?	Yes	x	No	within a Wetland?	-	~	
							two additional plant species, Juncos ere present in the other features as well.

Izutionus and Crassula arguitical that were identified in the vegetation understory at low cover, and it is assumed these were present in the other features as well. Abnormally low rainfall totals for the season; only 4.92 inches of rain for the rain year to date, when normal is 35 inches for the County (Placer County rain gauge #1786, collected from October 1, 2020 to April 08, 2021, located about 3 miles west of project site along Pleasant Grove Creek). Area may be grazed occassionally, cows are present on field to the west.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
				A(A)
				Total Number of Dominant
*		. <u> </u>		Species Across All Strata:4 (B)
				Percent of Dominant Species
		- Total Cove		That Are OBL, FACW, or FAC: 100% (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
	C		_	Total % Cover of: Multiply by:
		-	_	OBL species x1 =
1				FACW species x2 =
				FAC species x3 =
			i	FACU species x4 =
a contrar construction of		- Total Cove	r	UPL species x5 -
Herb Stratum (Plot size: F = 6.ft_)	10.00			Column Totals: (A) (B)
Ranunculus bonariensis	10%	Yes	OBL	Frevalence Index = B/A =
Deschampsia caespitosa	3%		FACW	
Lasthenia fremontii	20%	Yes	OBL	Hydrophytic Vegetation Indicators:
Psilocarphus brevissimus	22%	Yes	FACW	X Dominance Test is >50%
Hordeum marinum	2.50%		FAC	Prevalence Index is ≤3.0 [°]
Plagiobothrys stipitatus	12%	Yes	FACW	Morphological Adaptationd ¹ (Provide supporting
. Triphysaria eriantha	1%		NL	data in Remarks or on a separate sheet)
Leontodon saxatillis	1%		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
	71.5	= Total Cove	r	
Woody Vine Stratum (Plot size)				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic
		Total Cove	r	Vegetation
	% Cover of	Biolic Crust	0	Present? Yes X No

SOIL								Sampling Point:	005-A
Profile De	scription: (Describe t	o the de	oth needed to do	cument th	ne indica	tor or co	onfirm the ab	sence of indicators.)	
Depth	Matrix		Re	dox Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	re Pen	arks
0-7	10YR 5/3	25	10YR 3/6	50	C	M	Clay		dirk5
0-7	10110.3/3	25	10YR 2/2	25	c	M	Ciay	manganese masses	
·			101K 2/2	23	C	IVI		manyanese masses	
·									
					-				
0	·	_					-		
		_					_		
17-0-0		DIAD				10	2	Des liste M Mattin	
Type: C=C	oncentration, D=Depletion	1, RM=Re	duced Matrix, CS=C	overed or (Joated Sal	nd Grains	. Location: P	L=Pore Lining, M=Matrix.	
Hydric Soi	il Indicators: (Applica	ble to al	I LRRs, unless ot	herwise r	noted.)		Indicator	s for Problematic Hydric Soi	s ³ :
	sol (A1)			Redox (S				n Muck (A9) (LRR C)	
	Epipedon (A2)		_	d Matrix (n Muck (A10) (LRR B)	
	Histic (A3)				neral (F1))		luced Vertic (F18)	
	ogen Sulfide (A4)		_		atrix (F2)			Parent Material (TF2)	
	fied Layers (A5) (LRR (C)		d Matrix (er (Explain in Remarks)	
	Muck (A9) (LRR D)			Dark Surf				, <u>i</u>	
	eted Below Dark Surfac	e (A11)			urface (F7	7)			
	Dark Surface (A12)			Depressio				3	
	y Mucky Mineral (S1)			Pools (F9)				³ Indicators of hydrophytic veg wetland hydrology must be	
	y Gleyed Matrix (S4)				, 			unless disturbed or proble	
	e Layer (if present):							anoos astarosa er prosis	
Type: ha								Ver V	V No
Depth (incl							lydric Soil Pr		XNo
								ntrations occurring as soft mas	
								. This indicator occurs on depre starting just below the soil surfa	
Such us rem	a pools. In the sample	point, rec	lox concentrations	urc 7570	in a layer	that is 7	incres there .	starting just below the soli surre	
HYDROLOG	Y								
Wetland H	lydrology Indicators:								
Primary Inc	dicators (minimum of or	ne require	d; check all that a	pply)				Secondary Indicators (2 or m	ore required)
Surfa	ce Water (A1)		Salt Cru	ıst (B11)				Water Marks (B1) (Rive	rine)
High	Water Table (A2)		Biotic C	rust (B12)			Sediment Deposits (B2)	(Riverine)
	ation (A3)				ates (B13	3)		Drift Deposits (B3) (Riv	erine)
Wate	r Marks (B1) (Nonriver	ine)			Odor (C			Drainage Patterns (B10	
	nent Deposits (B2) (No						g Roots (C3)	Dry-Season Water Tabl	A second
	Deposits (B3) (Nonrive				uced Iron			Crayfish Burrows (C8)	
	ce Soil Cracks (B6)	,			uction in T		ls (C6)	X Saturation Visible on A	erial Imagery (C9)
	lation Visible on Aerial	magery (ick Surfac				X Shallow Aquitard (D3)	
	r-Stained Leaves (B9)				Remarks	a		FAC-Neutral Test (D5)	
Field Obse				- Aproliti III	rtomanto	/			
101 101 1010			No X Dept	h (inches)					
Paranta Paranta Paran			No X Dept						
Saturation	le Present? Yes Present? Yes	_	No X Dept	h (inches)			Wetland H	lydrology Present? Yes	X No
	apillary fringe)			in (including)				iyarology riesent. Tes	
	corded Data (stream ga	uge, mor	nitoring well, aerial	photos, p	revious in	spection	is), if available	e:	
		~	-	· ·			2		
Remarks:									
LIS Army Co	rps of Engineers								Arid West - Version 2.0
03 Army Col	pa or Engineers							,	and west - version 2.0

Project/Sile:	60656629	SMUD C	ountry Acres Solar	-	City/County: Placer County		Sampling Da	te:	04/09/21
		sor.J. Wur	Rzor, B. Chrisbanson, & Co	Routt	Section, Township, Range:	State: CA 20 11 N 5E	Sampling Po	int	005-B
Landform (hillslop	e. terrace, t	etc.):	Terrace		Local relief (concave, convey	, none): convex		Slope (%):	2%
Subregion (LRR):	Mediterran	earr Calif	omia (LRR C)	Lat:	38.78884947	Long:	-121.4331716	Datum	NAD 83
Soil Map Unit Nar	ne: Sar	Joaquin	Cometa sandy loams	, 1 to 5	percent slopes (460346)	NWI Classification:	N/A	10.00	
Are climatic / hydr	ologic cond	itions on	the site typical for this	time of	year? Yes	No X	(If no, explain in	n Remarks	3
Are Vegetation	St	li	or Hydrology	_	significantly disturbed? Are 1	Iormal Circumstand	es" present?	Yes X	No
Are Vegetation	S	M.	. or Hydrology		naturally problematic? (If nee	ded, explain any ar	swers in Remark	ks.)	1000

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

Is the Sampled Area	
Hydric Soil Present? Yes No X within a Wetland? Yes No X	
Wetland Hydrology Present? Yes No X	_

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Number of Domin				
1100 Shitten / 100 Shite /		_		That Are OBL, FA	AGW, of F	AC	Ó	(0)
		_	_	Total Number of Species Across A			3	(B)
	-=	=Total Cove	1	Percent of Domin That Are OBL, FA			0%	(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Inde Total % Cov		neet:	Multiply by:	
				OBL species	0	x1 -	0	_
		(FACW species	0	x2 =	0	-
			-	FAC species	3	x3 -	9	-
				FACU species	36	x4 =	308	-
	-	=Total Cove	r	UPL species	15	x5 =	75	
Herb Stratum (Plot size: r 6 ft _)	1.000			Column Totals:	54	(A)	392	(B)
Vicia villosa	15%	Yes	UPL	Prevalence Ind	lex = B/A	-	7.3	_
Hordeum murinum	20%	Yes	FACU					
Bromus hordeaceus		Yes	FACU	Hydrophytic Veg			51	
Trifolium dubium	5%		UPL		nce Test			
Triteleia hyacinthina	3%		FAC	Prevale	nce Index	is ≤3.01		
Erodium botrys	1%		FACU				(Provide supp	orting
			_				parate sheet)	
	_			Problem	Tatic Hydr	ophytic Ve	egetation (Exp	ain)
Woody Vine Stratum (Plot size;)	59%	=Total Cove	r	¹ Indicators of hyd be present, unles				я
				Hydrophytic				
4			1	Vegetation				

OIL							San	npling Point:	005
Profile De	scription: (Describe	to the depth	needed to d	locument t	he indicator	or confirm the a	bsence of ind	icators.)	
Depth	Matrix			Redox Feat	tures				
(inches)	Color (moist)	% (Color (moist)		2	Loc ² Textu	ire	Remark	s
10	7.5YR 4/6	100				loamy sa	and		
				_					
				-					
¹ Type: C=C	Concentration, D=Depletio	n. RM=Reduce	ed Matrix, CS-	Covered or	Coated Sand G	rains. ² Location: 1	PL=Pore Lining	M=Matrix.	
							,		
	il Indicators: (Application)	able to all LR	Rs, unless	otherwise	noted.)			matic Hydric Soils ³ :	
	isol (A1)		_	ly Redox (S			m Muck (A9) (
10100	: Epipedon (A2)			ped Matrix (_	m Muck (A10)		
Black	(A3)		Loam	iy Mucky M	ineral (F1)	Re	duced Vertic (F18)	
Hydr	ogen Sulfide (A4)		Loam	ny Gleyed N	Aatrix (F2)	Re	d Parent Mate	rial (TF2)	
Strat	fied Layers (A5) (LRR	C)	Deple	eted Matrix	(F3)	Oth	ner (Explain in	Remarks)	
1 cm	Muck (A9) (LRR D)		Redo	x Dark Sur	face (F6)				
Deple	eted Below Dark Surfac	ce (A11)	Deple	eted Dark S	urface (F7)				
Thick	Coark Surface (A12)		Redo	x Depressi	ons (F8)		³ Indicators o	f hydrophytic vegetati	ion and
Sand	ly Mucky Mineral (S1)		Verna	al Pools (FS	9)			ydrology must be pre:	
Sand	ly Gleyed Matrix (S4)							listurbed or problemat	
Restrictiv	e Layer (if present):								
Type: no	ne								
									1010 Barriel
			_			Hydric Soil P	resent?	Yes	No X
Depth (inc emarks:						Hydric Soil P	resent?	Yes	<u>No X</u>
Depth (inc						Hydric Soil P	resent?	Yes	<u>No X</u>
Depth (inc emarks:	hes): <u>10"</u>					Hydric Soil P	Present?	Yes	<u>No X</u>
Depth (inc emarks: /DROLOG	hes): <u>10"</u>					Hydric Soil P	Present?	Yes	<u>NoX</u>
Depth (inc marks: /DROLOG Wetland H	hes): <u>10"</u>	ne required; c	heck all that	t apply)		Hydric Soil P		Yes	
Depth (inc emarks: /DROLOG Wetland F Primary In	hes): <u>10"</u> ;Y łydrology Indicators:	ne required; c		t apply) Crust (B11)		Hydric Soil P	Secondary		required)
Depth (inc marks: (DROLOG Wetland H Primary In Surfa	hes): <u>10"</u> ;Y iydrology Indicators: dicators (minimum of o	ne required; c	Salt (Hydric Soil P	Secondary Water	Indicators (2 or more	required)
Depth (inc marks: /DROLOG Wetland H Primary In Surfa High	hes): <u>10"</u> BY Hydrology Indicators: dicators (minimum of o ace Water (A1)	ne required; c	Salt C	Crust (B11) c Crust (B12		Hydric Soil P	Secondary Water Sedim	Indicators (2 or more Marks (B1) (Riverin	required) e) iverine)
Depth (inc marks: /DROLOG Wetland F Primary In Surfz High Satu	hes): <u>10"</u> SY Hydrology Indicators: dicators (minimum of o ace Water (A1) Water Table (A2)		Salt C Biotic Aqua	Crust (B11) Crust (B12 tic Inverteb	2)	Hydric Soil P	Secondary Water Sedim Drift D	Indicators (2 or more Marks (B1) (Riverin eent Deposits (B2) (R	required) e) iverine)
Depth (inc marks: /DROLOG Wetland H Primary In Satur Satur Wate Wate	hes): <u>10"</u> SY Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3)	rine)	Salt C Biotic Aqua Hydro	Crust (B11) Crust (B12 tic Inverteb ogen Sulfid	2) rates (B13) e Odor (C1)	Hydric Soil P	Secondary Water Sedim Drift D	Indicators (2 or more Marks (B1) (Riverin tent Deposits (B2) (Ri Deposits (B3) (Riverin	required) e) iverine) ie)
Appenth (inc marks: /DROLOG Wetland H Primary In Satur Satur Satur Satur Satur Satur Satur Satur Satur	hes): <u>10"</u> iydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver	rine) onriverine)	Salt C Biotic Aqua Hydro Oxidi	Crust (B11) c Crust (B12 tic Inverteb ogen Sulfid zed Rhizos	2) rates (B13) e Odor (C1)	Living Roots (C3)	Secondary Water Sedim Drift D Draina Dry-S	Indicators (2 or more Marks (B1) (Riverin tent Deposits (B2) (R Deposits (B3) (Riverin age Patterns (B10)	required) e) iverine) ie)
Appenth (inc marks: Methand H Primary In Satur Satur Satur Satur Satur Drift	hes): <u>10"</u> Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (No	rine) onriverine)	Salt C Biotic Aqua Hydro Oxidi Prese	Crust (B11) Crust (B12 tic Inverteb ogen Sulfid zed Rhizos ence of Rec	2) rates (B13) e Odor (C1) pheres along	Living Roots (C3)	Secondary Water Sedim Drift D Draina Dry-S Crayfi	Indicators (2 or more Marks (B1) (Riverin tent Deposits (B2) (R Deposits (B3) (Riverin age Patterns (B10) eason Water Table (C	required) e) iverine) te) C2)
Appenth (inc marks: More and the primary In Surfa Surfa Surfa	hes): <u>10"</u> Hydrology Indicators: dicators (minimum of or dicators (minimum of or dicators (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive	rine) onriverine) erine)	Salt C Biotic Aqua Hydro Oxidi Prese Rece	Crust (B11) Crust (B12 tic Inverteb ogen Sulfid zed Rhizos ence of Rec	2) rates (B13) e Odor (C1) pheres along fuced Iron (C4 luction in Tilleo	Living Roots (C3)	Secondary Water Sedim Drift D Draina Dry-S Crayfi Satura	Indicators (2 or more Marks (B1) (Riverin ent Deposits (B2) (R Deposits (B3) (Riverin age Patterns (B10) eason Water Table (C sh Burrows (C8)	required) e) iverine) te) C2)
Depth (inc marks:	hes): <u>10"</u> Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ace Soil Cracks (B6)	rine) onriverine) erine)	Salt C Biotic Aqua Hydro Oxidi Prese Rece Thin	Crust (B11) Crust (B12 ntic Inverteb ogen Sulfid zed Rhizos ence of Rec ent Iron Red	2) rates (B13) e Odor (C1) pheres along duced Iron (C4 luction in Tilled ice (C7)	Living Roots (C3)	Secondary Water Sedim Drift D Draina Dry-S Crayfi Satura Shallo	Indicators (2 or more Marks (B1) (Riverin ent Deposits (B2) (R Deposits (B3) (Riverin age Patterns (B10) eason Water Table (C sh Burrows (C8) ation Visible on Aerial	required) e) iverine) te) C2)
Depth (inc marks:	hes): <u>10"</u> Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial	rine) onriverine) erine)	Salt C Biotic Aqua Hydro Oxidi Prese Rece Thin	Crust (B11) c Crust (B12 atic Inverteb ogen Sulfid zed Rhizos ence of Rec ent Iron Red Muck Surfa	2) rates (B13) e Odor (C1) pheres along duced Iron (C4 luction in Tilled ice (C7)	Living Roots (C3)	Secondary Water Sedim Drift D Draina Dry-S Crayfi Satura Shallo	Indicators (2 or more Marks (B1) (Riverin ent Deposits (B2) (Riverin age Patterns (B10) eason Water Table (C sh Burrows (C8) ation Visible on Aerial w Aquitard (D3)	required) e) iverine) te) C2)
CDROLOG Wetland H Primary In Surfa High Satu Satu U Satu Field Obs	hes): <u>10"</u> Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) re Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial r-Stained Leaves (B9)	rine) onriverine) orine) Imagery (B7)	Salt (Biotic Aqua Hydro Oxidi Prese Rece Thin Other	Crust (B11) c Crust (B12 atic Inverteb ogen Sulfid zed Rhizos ence of Rec ent Iron Red Muck Surfa	2) rates (B13) e Odor (C1) pheres along luced Iron (C4 luction in Tilleo ice (C7) 1 Remarks)	Living Roots (C3)	Secondary Water Sedim Drift D Draina Dry-S Crayfi Satura Shallo	Indicators (2 or more Marks (B1) (Riverin ent Deposits (B2) (Riverin age Patterns (B10) eason Water Table (C sh Burrows (C8) ation Visible on Aerial w Aquitard (D3)	required) e) iverine) te) C2)
Depth (inc marks: TDROLOC Wetland H Primary In Satu Satu Satu Surfa Surfa Field Obs Surface W	hes): <u>10"</u> Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (Nor Deposits (B3) (Norriver ace Soil Cracks (B6) dation Visible on Aerial ar-Stained Leaves (B9) ervations: fater Present? Yes	rine) onriverine) orine) Imagery (B7)	Salt (Biotic Aqua Hydro Oxidi Prese Rece Thin Other	Crust (B11) Crust (B12) ditic Inverteb ogen Sulfid- zed Rhizos ence of Rec ant Iron Red Muck Surfa r (Explain ir	2) rates (B13) e Odor (C1) pheres along fuced fron (C4 luction in Tilled ice (C7) i Remarks)	Living Roots (C3)	Secondary Water Sedim Drift D Draina Dry-S Crayfi Satura Shallo	Indicators (2 or more Marks (B1) (Riverin ent Deposits (B2) (Riverin age Patterns (B10) eason Water Table (C sh Burrows (C8) ation Visible on Aerial w Aquitard (D3)	required) e) iverine) te) C2)
Depth (inc marks: /DROLOG Wetland H Primary In Satu Satu Satu Surfa Surfa Surfa Surface W Water Tab	hes): 10" Aydrology Indicators: dicators (minimum of or here Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver here Soil Cracks (B6) dation Visible on Aerial ar-Stained Leaves (B9) ervations: later Present? Yes le Present? Yes	rine) prriverine) erine) Imagery (B7) : No	Salt C Biotic Aqua Hydro Oxidi Prese Rece Thin Other	Crust (B11) Crust (B12) crust (B12) core (B1	2) rates (B13) e Odor (C1) pheres along fuced Iron (C4 luction in Tilled cce (C7) n Remarks)):):)	Living Roots (C3)) d Soils (C6)	Secondary Water Sedim Drift D Draina Dry-S Crayfi Satura Shallo	Indicators (2 or more Marks (B1) (Riverim ent Deposits (B2) (Ri eposits (B3) (Riverin age Patterns (B10) eason Water Table (C sh Burrows (C8) ation Visible on Aerial w Aquitard (D3) Neutral Test (D5)	required) e) iverine) te) C2)
Depth (inc marks:	hes): 10" Aydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial ar-Stained Leaves (B9) ervations: "ater Present? Yes le Present? Yes	rine) prriverine) erine) Imagery (B7) ; No	Salt C Biotic Aqua Hydro Oxidi Prese Rece Thin Other	Crust (B11) Crust (B12) ditic Inverteb ogen Sulfid- zed Rhizos ence of Rec ant Iron Red Muck Surfa r (Explain ir	2) rates (B13) e Odor (C1) pheres along fuced Iron (C4 luction in Tilled cce (C7) n Remarks)):):)	Living Roots (C3)) d Soils (C6)	Secondary Water Sedim Drift D Draina Dry-S Crayfia Stallo FAC-f	Indicators (2 or more Marks (B1) (Riverim ent Deposits (B2) (Ri eposits (B3) (Riverin age Patterns (B10) eason Water Table (C sh Burrows (C8) ation Visible on Aerial w Aquitard (D3) Neutral Test (D5)	required) e) iverine) te) C2) Imagery (C9)
Appenti (inc marks: (DROLOG Wetland I Primary In Sauria Sauria Vate Sedin Drift Surfa Unift Surfa Surfa Surfa Surfa Wate Field Obs Surface W Water Tab Saturation (includes of	hes): <u>10"</u> ydrology Indicators: dicators (minimum of of ace Water (A1) Water Table (A2) ration (A3) or Marks (B1) (Nonrivent ment Deposits (B3) (Nonrivent ment Deposits (B3) (Nonrivent ace Soil Cracks (B6) dation Visible on Aerial r-Stained Leaves (B9) ervations: ater Present? Yes Present? Yes Present? Yes	rine) nriverine) rine) Imagery (B7) i No i No i No	Salt C Biotic Aqua Hydro Oxidi Prese Rece Thin Other Oxidi	Crust (B11) c Crust (B12) c Crust (B12 titic Inverteb ogen Sulfid zed Rhizos ance of Rec nt Iron Red Muck Surfa r (Explain ir pth (inches pth (inches pth (inches	2) rates (B13) e Odor (C1) pheres along fuced Iron (C4 fuction in Tilleo ice (C7) n Remarks)):):	Living Roots (C3)) 1 Soils (C6)	Secondary Water Sedim Drift D Draina Dry-S Crayfi Satura Shallo FAC-1 Hydrology Pr	Indicators (2 or more Marks (B1) (Riverim ent Deposits (B2) (Ri eposits (B3) (Riverin age Patterns (B10) eason Water Table (C sh Burrows (C8) ation Visible on Aerial w Aquitard (D3) Neutral Test (D5)	required) e) iverine) te) C2) Imagery (C9)
Pepth (inc amarks: YDROLOG Wetland H Primary In Satu Surfa Satu Surfa Surfa Surfa Surfa Surface W Water Tab Saturation (includes c ascribe Re	hes): 10" Y Ydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrive ment Deposits (B3) (Nonrive ment Deposits (B3) (Nonrive ace Soil Cracks (B6) dation Visible on Aerial er-Stained Leaves (B9) ervations: later Present? Yes le Present? Yes apillary fringe)	rine) nriverine) rine) Imagery (B7) i No i No i No	Salt C Biotic Aqua Hydro Oxidi Prese Rece Thin Other Oxidi	Crust (B11) c Crust (B12) c Crust (B12 titic Inverteb ogen Sulfid zed Rhizos ance of Rec nt Iron Red Muck Surfa r (Explain ir pth (inches pth (inches pth (inches	2) rates (B13) e Odor (C1) pheres along fuced Iron (C4 fuction in Tilleo ice (C7) n Remarks)):):	Living Roots (C3)) 1 Soils (C6)	Secondary Water Sedim Drift D Draina Dry-S Crayfi Satura Shallo FAC-1 Hydrology Pr	Indicators (2 or more Marks (B1) (Riverim ent Deposits (B2) (Ri eposits (B3) (Riverin age Patterns (B10) eason Water Table (C sh Burrows (C8) ation Visible on Aerial w Aquitard (D3) Neutral Test (D5)	required) e) iverine) te) C2) Imagery (C9)
Pepth (inc marks: PROLOG Wetland H Primary In Satu Surfa Satu Surfa Surfa Surfa Surface W Water Tab Saturation (includes c iscribe Re	hes): 10" Y Ydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrive ment Deposits (B3) (Nonrive ment Deposits (B3) (Nonrive ace Soil Cracks (B6) dation Visible on Aerial er-Stained Leaves (B9) ervations: later Present? Yes le Present? Yes apillary fringe)	rine) nriverine) rine) Imagery (B7) i No i No i No	Salt C Biotic Aqua Hydro Oxidi Prese Rece Thin Other Oxidi	Crust (B11) c Crust (B12) c Crust (B12 titic Inverteb ogen Sulfid zed Rhizos ance of Rec nt Iron Red Muck Surfa r (Explain ir pth (inches pth (inches pth (inches	2) rates (B13) e Odor (C1) pheres along fuced Iron (C4 fuction in Tilleo ice (C7) n Remarks)):):	Living Roots (C3)) 1 Soils (C6)	Secondary Water Sedim Drift D Draina Dry-S Crayfi Satura Shallo FAC-1 Hydrology Pr	Indicators (2 or more Marks (B1) (Riverim ent Deposits (B2) (Ri eposits (B3) (Riverin age Patterns (B10) eason Water Table (C sh Burrows (C8) ation Visible on Aerial w Aquitard (D3) Neutral Test (D5)	required) e) iverine) te) C2) Imagery (C9)
Depth (inc marks: (DROLOG Wetland H Primary In Saura Saura Satur Wate Field Obs Surface W Water Tab Saturation (includes of	hes): 10" Y Ydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrive ment Deposits (B3) (Nonrive ment Deposits (B3) (Nonrive ace Soil Cracks (B6) dation Visible on Aerial er-Stained Leaves (B9) ervations: later Present? Yes le Present? Yes apillary fringe)	rine) nriverine) rine) Imagery (B7) i No i No i No	Salt C Biotic Aqua Hydro Oxidi Prese Rece Thin Other Oxidi	Crust (B11) c Crust (B12) c Crust (B12 titic Inverteb ogen Sulfid zed Rhizos ance of Rec nt Iron Red Muck Surfa r (Explain ir pth (inches pth (inches pth (inches	2) rates (B13) e Odor (C1) pheres along fuced Iron (C4 fuction in Tilleo ice (C7) n Remarks)):):	Living Roots (C3)) 1 Soils (C6)	Secondary Water Sedim Drift D Draina Dry-S Crayfi Satura Shallo FAC-1 Hydrology Pr	Indicators (2 or more Marks (B1) (Riverim ent Deposits (B2) (Ri eposits (B3) (Riverin age Patterns (B10) eason Water Table (C sh Burrows (C8) ation Visible on Aerial w Aquitard (D3) Neutral Test (D5)	required) e) iverine) te) C2) Imagery (C9)
Depth (inc marks: PROLOG Wetland H Primary In Satu Surfa Satu Surfa Surfa Surfa Surface W Water Tab Saturation (includes c ascribe Re	hes): 10" Y Ydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrive ment Deposits (B3) (Nonrive ment Deposits (B3) (Nonrive ace Soil Cracks (B6) dation Visible on Aerial er-Stained Leaves (B9) ervations: later Present? Yes le Present? Yes apillary fringe)	rine) nriverine) rine) Imagery (B7) i No i No i No	Salt C Biotic Aqua Hydro Oxidi Prese Rece Thin Other Oxidi	Crust (B11) c Crust (B12) c Crust (B12 titic Inverteb ogen Sulfid zed Rhizos ance of Rec nt Iron Red Muck Surfa r (Explain ir pth (inches pth (inches pth (inches	2) rates (B13) e Odor (C1) pheres along fuced Iron (C4 fuction in Tilleo ice (C7) n Remarks)):):	Living Roots (C3)) 1 Soils (C6)	Secondary Water Sedim Drift D Draina Dry-S Crayfi Satura Shallo FAC-1 Hydrology Pr	Indicators (2 or more Marks (B1) (Riverim ent Deposits (B2) (Ri eposits (B3) (Riverin age Patterns (B10) eason Water Table (C sh Burrows (C8) ation Visible on Aerial w Aquitard (D3) Neutral Test (D5)	required) e) iverine) te) C2) Imagery (C9)
Pepth (inc marks: PROLOG Wetland H Primary In Satu Surfa Satu Surfa Surfa Surfa Surface W Water Tab Saturation (includes c iscribe Re	hes): 10" Y Ydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrive ment Deposits (B3) (Nonrive ment Deposits (B3) (Nonrive ace Soil Cracks (B6) dation Visible on Aerial er-Stained Leaves (B9) ervations: later Present? Yes le Present? Yes apillary fringe)	rine) nriverine) rine) Imagery (B7) i No i No i No	Salt C Biotic Aqua Hydro Oxidi Prese Rece Thin Other Oxidi	Crust (B11) c Crust (B12) c Crust (B12 titic Inverteb ogen Sulfid zed Rhizos ance of Rec nt Iron Red Muck Surfa r (Explain ir pth (inches pth (inches pth (inches	2) rates (B13) e Odor (C1) pheres along fuced Iron (C4 fuction in Tilleo ice (C7) n Remarks)):):	Living Roots (C3)) 1 Soils (C6)	Secondary Water Sedim Drift D Draina Dry-S Crayfi Satura Shallo FAC-1 Hydrology Pr	Indicators (2 or more Marks (B1) (Riverim ent Deposits (B2) (Ri eposits (B3) (Riverin age Patterns (B10) eason Water Table (C sh Burrows (C8) ation Visible on Aerial w Aquitard (D3) Neutral Test (D5)	required) e) iverine) te) C2) Imagery (C9)
DROLOG Metland H Primary In Satu Satu Satu Satu Surfa Surfa Surface W Mater Tab Saturation (includes o scribe Re	hes): 10" Y Ydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrive ment Deposits (B3) (Nonrive ment Deposits (B3) (Nonrive ace Soil Cracks (B6) dation Visible on Aerial er-Stained Leaves (B9) ervations: later Present? Yes le Present? Yes apillary fringe)	rine) nriverine) rine) Imagery (B7) i No i No i No	Salt C Biotic Aqua Hydro Oxidi Prese Rece Thin Other Oxidi	Crust (B11) c Crust (B12) c Crust (B12 titic Inverteb ogen Sulfid zed Rhizos ance of Rec nt Iron Red Muck Surfa r (Explain ir pth (inches pth (inches pth (inches	2) rates (B13) e Odor (C1) pheres along fuced Iron (C4 fuction in Tilleo ice (C7) n Remarks)):):	Living Roots (C3)) 1 Soils (C6)	Secondary Water Sedim Drift D Draina Dry-S Crayfi Satura Shallo FAC-1 Hydrology Pr	Indicators (2 or more Marks (B1) (Riverim ent Deposits (B2) (Ri eposits (B3) (Riverin age Patterns (B10) eason Water Table (C sh Burrows (C8) ation Visible on Aerial w Aquitard (D3) Neutral Test (D5)	required) e) iverine) te) C2) Imagery (C9)

Project/Site:	60656629 SM	UD Country Acres Solar		City/County: Placer County		Sampling Da	te:	04/09/21
	SMUD W. Splittstousser.	J. Wurftzer, B. Ofvisbanson, 8	O. Routt	Section, Township, Range	State: CA	Sampling Po	int:	006-A
Landlorm (hillslope	, terrace, etc.)	: Tenace		Local relief (concave, convi	ex, none); concave	2	Slope (%):	2%
Subregion (LRR):	Mediterranear	(LRR C)	Laf:	38.78971672	Lorig:	-121.432//26	Datum:	NAD 83
Soil Map Unit Nam	ie: San Jo	aquin-Cometa sandy loai	ns, 1 to 5	percent stopes (460346)	NWI Classification:	N/A	1.1.1.1.1.1	
Are climatic / hydro	logic condition	ns on the site typical for It	ns time of	year? Yes	No X	(If no, explain in	Remarks);
Are Vegetation	, Soll	, or Hydrology		significantly disturbed? Are	Normal Circumstance	es" present?	res X	No
Are Vegetation	, Soil	, or Hydrology	_	naturally problematic? (If nee	ded, explain any an	swers in Remarks	s.)	

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

Hydrophytic Vegetation Present?	Yes	X	No	to the Count of Sec.			
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area within a Wetland?	Yes	X	No
Wetland Hydrology Present?	Yes	Х	No			1.1	

Remarks: Sample point corresponds to mapped Wetland #10 and is also representative of wetland #9. Wetland#10 had three plant species/Lastheria fremontii, Psilocarphus brevissimus, and Navarietia leucocephala, that were not found in Wetland #9. Abnormally low rainfall totals for the season; only 4.92 Inches of rain for the rain year to date, when normal is 35 inches to the County (Place County rain gauge #1786, collected from October 1, 2020 to April 08, 2021, located about 3 miles west of project site along Pleasant Grove Creek). Area may be grazed occassionally, cows are present on field to the west.

Iree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
	_			That Are OBL, FACW, or FAC: 3	(A)
				Total Number of Dominant	
·	_	=	_	Species Across All Strata: 3	(B)
	_	Total Cove	a	Percent of Dominiant Species That Are OBL, FACW, or FAC: 100%	(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:	_
		-	<u> </u>		
		<u> </u>			
	-	, ` 	-	FACW species x2 = FAC species x3 =	
	-	_		FAC species x3 = FACU species x4 =	
		-Total Cove		UPL species x5 =	
Herb Stratum (Plot size: r = 6 ft_)	-	- Total Gove	1		(B)
Eryngium vaseyi	8%		FACW	Prevalence Index + B/A =	(6)
Plagiobothrys stipitatus	15%	Yes	FACW	FIGVARIANCE THERE = DIFN =	
Leontodon saxatilis	10%	16.3	FACU	Hydrophytic Vegetation Indicators:	-
Lasthenia fremontii	25%	Yes	OBL	X Dominance Test is >50%	
Navarretia leucocephala	2.50%		OBL	Prevalence Index is ≤3.0 ¹	
Psilocarphus brevissimus	2.50%	-	FACW	Morphological Adaptation ¹ (Provide supporting	10
Hordeum marinum	22%	Yes	FAC	data in Remarks or on a separate sheet)	1
				Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum (Plot size:)	85	⇒Total Cove	H.	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturtied or problematic.	
% Bare Ground in Herb Stratum 15	% Cover of	- Total Cove Biotic Crust	r D	Hydrophytic Vegetation Present? Yes X No	
bemarks:					

OIL												
Profile De	scription: (Describe	to the de	pth needed	d to docur	ment th	ne indicat	or or con	firm the ab	sence of	indicators.)		
Depth	Matrix			Redo	ox Feat	ures						
(inches)	Color (moist)	%	Color (n	0.000	%	Type ¹	Loc ²	Text	ure		Remarks	
)-4	7.5YR 4/4	98	7.5YR 5/8		2		М	sandy cla	y loam			
-12	10YR 4/3	95	7.5YR 5/8			c	M	clay				
		_	-					-				
		-										
										-		
ype: C=C	oncentration, D=Depleti	on, RM=Re	duced Matri	x, CS=Cov	ered or	Coated Sa	nd Grains.	Location:	PL=Pore L	ining, M=Matrix.		
10	il Indicators: (Applic	able to al				10				blematic Hydric	Soils":	
_	sol (A1)			Sandy Re						9) (LRR C)		
_	Epipedon (A2)			Stripped N						10) (LRR B)		
_	Histic (A3)			Loamy Mu					uced Vert			
	ogen Sulfide (A4)			Loamy Gl						laterial (TF2)		
	fied Layers (A5) (LRR	(C)		Depleted I		1 P		Othe	er (Explaii	n in Remarks)		
	Muck (A9) (LRR D)	(1.44)		Redox Da			2					
_	eted Below Dark Surfa	ce (ATT)		Depleted I)					
_	Dark Surface (A12)			Redox De							ic vegetation and	
	y Mucky Mineral (S1)			Vernal Po	ois (F9)				ind hydrology mi ess disturbed or		
_	y Gleyed Matrix (S4) • Layer (if present):								uni	ess disturbed of	problematic.	
narks: F8	- 5% redox concentra	tions in th	e matrix in	a layer tha	at is 2 ir	nches or n		dric Soil Pr and starts a				e
narks: F8	- 5% redox concentra	tions in th	e matrix in	a layer tha	at is 2 ir	nches or n						<u> </u>
		tions in th	e matrix in	a layer tha	at is 2 ir	nches or n						
ROLOG			e matrix in	a layer tha	at is 2 ir	nches or n						
ROLOG etland H	Ŷ					nches or n			t a depth	of 4 inches or le		9
PROLOG etland H imary Inc	Y ydrology Indicators:		ed; check a		ly)	nches or n			t a depth	of 4 inches or le	or more required)	9
ROLOG etland H imary Ind Surfa	Y lydrology Indicators: dicators (minimum of d	1	ed; check a	II that appl	ly) (B11)				t a depth	of 4 inches or les ary Indicators (2 Water Marks (B	or more required)	e
etland H imary Ind Surfa High 1	Y lydrology Indicators: dicators (minimum of o ce Water (A1)	1	ed; check a	II that appl Salt Crust	ly) (B11) st (B12)	nore thick		t a depth	of 4 inches or les ary Indicators (2 Water Marks (B Sediment Depo Drift Deposits (f	or more required) 1) (Riverine) sits (B2) (Riverine) 33) (Riverine)	e
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Project/Site:	606566	29 SMUD C	ountry Acres Solar		City/County:	Placer County	_	Sampling Da	ite;	04/09/21
	SMUD W. Spills	nesser, J. Wu	ritzer & Christianisus & O	RIM	Section	Township, Range	State: CA 20 11N 5E	Sampling Po	init:	006 B
Landform (hillstop	e, terraci	e, etc.):	Tenace		Local rel	ief (concave, conve	x, none); none		Slope (%);	1%
Subregion (LRR):	Mediten	anean Calil	fornia (LRR C)	Lat:		38.7897037	Long:	-121.4328327	Datum	NAD 83
Soil Map Unit Nan	ne: 3	San Joaquin	- Cometa sandy loam	s, 1 to 5	percent slope	is (460346)	NWI Classification:	NA		1
Are climatic / hydr	ologic co	nditions on	the site typical for this	time of	year?	Yes	No X	(Il no, explain in	1 Remarks)
Are Vegetation		Sol	, or Hydrology	_	significantly	disturbed? Are	Normal Circumstan	ces present?	Yes X	No
Are Vegelation	_	Soil	or Hydrology		naturally prot	blematic? (If ne	eded, explain any ar	swers in Remail	ks.)	

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

No					
140	X	Is the Sampled Area within a Wetland?	Yes	No	X
No	X		1. C		
				pril 08, 2021,	located about 3 miles west
	1, #12, #13 Placer Cour	1, #12, #13, and #14 Placer County rain ga	1, #12, #13, and #14. Abnormally low rainfall totals Placer County rain gauge #1786, collected from Oci	1, #12, #13, and #14. Abnormally low rainfall totals for the season; or	1. #12, #13, and #14. Abnormally low rainfail totals for the season; only 4.92 Inche Vacer County rain gauge #1786, collected from October 1, 2020 to April 08, 2021,

Tree_Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
	_			Total Number of Dominant
				Species Across All Strata: 2 (B)
*				and the second
		= Total Cove		Percent of Dominant Species That Are OBL, FACW, or FAC:0% (A
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
	_			Total % Cover of: Multiply by:
			_	OBI species 0 x1 - 0
		÷		FACW species 0 x2 = 0
12		<u></u>		FAC speciesX3 =
	-		-	FACU species X4 = 60
the contract of the second second second		= Total Cove	£.	UPL species 80 x5 = 400
Herb Stratum (Plot size: t = 6 ft_)	FOR	1400	UPL	Column Totals: 95 (A) 460 (B)
Vicia villosa	50%	Yes	UPL	Prevalence Index = B/A =4.8
Avena sp.	<u>15%</u>	Yes	FACU	1. An advantage of the second on the Print second
Erodium botrys Trifolium dubium	10%		UPL	Hydrophytic Vegetation Indicators:
Hordeum murinum	10%	·	FACU	Dominance Test is >50% Prevalence Index is <3.01
Bromus diandrus	5%		UPL	
Brothus ulanurus	370		UPL	Morphological Adaptationd ¹ (Provide supporting data in Remarks or on a separate sheet)
	<u> </u>	<u> </u>	-	Problematic Hydrophytic Vegetation ¹ (Explain)
	DEV	- Total Cove		elocientatic nyorophytic vegetation (cxptan)
Woody Vine Stratum (Plot size:)	9370	= Total Cove		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		-		Hydrophytic
% Bare Ground in Herb Stratum 5%	% Cover of	Total Cove Biolic Crist	a 10%-	Vegetation Present? Ves No X
enarks:				

Wetland Hydrology Indicators: Primary 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) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxid/zed Rhizospheres along Living Roots (C3) Dry-Season Water Table (A2) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Saturation Present? Yes No Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Saturation Pres	OIL							Sampling Point:	006
Image: statistic state	Profile Desc	ription: (Describe to	the depth ne	eded to docu	ument the indicat	tor or c	onfirm the absenc	e of indicators.)	
Image: statistic state	Depth	Matrix		Red	lox Features				
0.5 7.5YR 4/6 100 none		Color (moist)	% Co			Loc	2 Texture	Rem	arks
"Type: C-Concentration. D-Depktelon. RM-Reduced Matrix, CS-Covered of Coated Sand Grains. "Location: PL-Poe Lining. M-Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils": Histos (1,1) Ssindy Redox (5) 1 cm Mark (Al0) (LRR B) Black Histo, (A3) Loanny Gleged Matrix (5) 2 cm Mark (Al0) (LRR B) Stratifiel Layers (A3) (LRR C) Depleted Matrix (5) Celler (Explain in Remarks) Term Mark (Al0) (LRR C) Depleted Matrix (5) Celler (Explain in Remarks) Term Mark (Al0) (LRR C) Depleted Matrix (5) Celler (Explain in Remarks) Term Mark (Al0) (LRR C) Depleted Matrix (5) Celler (Explain in Remarks) Term Mark (A0) (LRR C) Bedox Dapressions (F8) "Indicators of hydrophytic vegetation and wethan hydroiogy multise bp present, unless disturbed op problematic." Sandy Marky Matrix (4) Red Dark Stafface (7.7) Watrix Matrix (4) Pepten Die Matrix (5) Vermal Pools (F9) "Indicators (2 or more required) Sandy Cleged Matrix (4) Salt Crust (817) Secondary Indicators (2 or more required) Sandy Cleged Matrix (4) Salt Crust (817) Secondary Indicators (2 or more required) Sandy Marky Miter (A) Salt Crust (817) Secondary Indicators (2 or more requir									
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Histosol (A1)	Type, 0=00	centration, D=Depletion,	RM=Reduced	Maura, 03-00	vered of coated sal	iu Grain	is. Location. PL-Po	te cining, m-maura.	
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I cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Redox Depressions (F8) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (f) present): Type: none Depth (inches): 5 ⁻ Hydric Soit Present? Yes No Moltactors: Primary Indicators (f1) Pindicators (minimum of one required; check all that apply) Secondary Indicators (f2) or more required) Surface Water (A1) Salt Crust (B11) Hydric Soit Present? Yes Surface Water (A1) Salt Crust (B11) Hydric Table (A2) Botic Crus (B12) Sufface Water (A1) Salt Crust (B11) Hydrigen Sufface (S1) (Nonriverine) Hydrogen Sufface Or(C1) Sufface (S2) (Nonriverine) Hydrogen Sufface Or(C1) Saturation (A3) Rescent Iron Reduction in Tilled Sols (C3) Dy Season Water Table (C2) Sufface S0it Cracks (B6) Rescent Iron Reduction in Tilled Sols (C6) Saturation Visible on Aerial Imagery (C9) Sufface S0it Cracks (B6) Rescent Iron Reduction in Tilled Sols (C6) Saturation Visible on Aerial Imagery (C9) Sufface S0it Cracks (B6)		and an and an an and an an and an an an and an			and the second of the			and the second sec	
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Sandy Gleyed Matrix (S-4) unless disturbed or problematic. Restrictive Layer (if present): Type: none Type: none Hydric Soil Present? Yes NoX amarks: Hydric Soil Present? Yes NoX marks: Secondary Indicators: Primary Indicators (2 or more required) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) Secondary Indicators (2 or more required) Hydricators (Marks (B1) (Nonriverine) Biotic Crust (B12) Secondary Indicators (B2) (Riverine) Secondary Indicators (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Sufface Soil Cracks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Dift Deposits (B3) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Dift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C6) Sutrace Soil Cracks (B1) Recert Iron Reduction in Tiled Soils (C6) Shallow Aquitard (D3) Water Marks (B1) No X Depth (inches): Mater Marks (B1) Water Table Present? Yes			-						
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escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				boput	(1101105).		literation	logy resource res	
		9 9 1	ge, monitorin	g well, aerial p	hotos, previous in	ispectio	ns), if available:		
		· · ·	~			· ·	2		
	emarks:								
S Army Corps of Engineers Arid West - Versio	A	of Facility and							Arid West - Version

Project/Site:	60656	529 SMUD	Country Acres Sol	ar	City/County: Placer County		Sampling Date	e;	04/09/21
			uritzer B. Climstiansco	& O; Rituit	Section, Township, Ran	State: CA ge: 20.11N.5E	Sampling Poir	nt:	007 A
Landform (hillslop	e, terra	ce, etc.):	Тепасе		Local relief (concave, con	wex, none): concave	5	lope (%);	1%
Subregion (LRR):	Medite	manean Ca	lifornia (LRR C)	Lat:	38,79035	67 Long	-121,4327071	Datum:	NAD 83
Soil Map Unit Nar	ne:	Satr Joaquur slopes (4603	Cometa sandy Joanis, 1 46)	to 5 percent	Alamo-Fiddyment.complex. 0 to 5 percent slopes (460268)	NWI Classification:	N/A	1.100	1
Are climatic / hydr	rologic o	onditions o	in the site typical fo	r this time of	year? Yes	No X	(If no. explain in	Remarks.)
Are Vegelation		Soil	, or Hydrology		significantly disturbed? Ai	e "Normal Circumstan	ces present? Y	es X	No
Are Vegetation		Sol	. or Hydrology	X	naturally problematic? (If	needed, explain any ai	swers in Remarks	s.)	

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

Hydrophytic Vegetation Present?	Yes	X	No	to the Constant Area			
Hydric Soil Present?	Yes	X	No	Is the Sampled Area within a Wetland?	Yes	х	No
Wetland Hydrology Present?	Yes	X	No				

(Placer county rain gauge #1786, collected from october 1, 2020 to April 08, 2021, to cated about 3 miles west or project site along Pleasant Grow Creek). The site is north of a drainage that may flood periodically and not every year. The project site is in an annual grassland with imigated pastures to the north and rice fields to the east and thay receive overland or subsurface flow from these adjacent uses during the summer, or what would normally be the dry season. Area may be grazed occassionally, cows are present on field to the west.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
			_	That Are OBL, FACW, or FAC: 5 (A)
8		_	\equiv	Total Number of Dominant Species Across All Strata: <u>5</u> (B)
		- Total Cove		Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
Sapling/Strub Stratum (Plot size:)				Prevalence Index Worksheet;
Contraction of the Carlos of t			<u> </u>	Total % Cover of: Multiply by:
-				OBL species 12 x1 = 12
	-	<u> </u>		FACW species 10 x2 = 20
				FAC species 30 x3 = 90
-		1		FACU species 3 x4 = 12
		=Total Cove	Ċ.	UPL species x5 = 0
Herb Stratum (Plot size:)	C. Trees	10.11		Columni Totals: 58 (A) 134 (B)
Hordeum marinum	15%	Yes	FAC	Prevalence Index - B/A - 2.3
Eleocharis macrostachya (E. palustris)	10%	Yes	OBL	
Plagiobothrys stipitatus	5%	Yes	FACW	Hydrophytic Vegetation Indicators:
Cyperus eragrostis	3%		FACW	X Dominance Test is >50%
Týthrum hyssopifolium	2%	_	OBL	X Prevalence Index is ≤3.0 ¹
Leontodon saxatilis	3%		FACU	Morphological Adaptation1 (Provide supporting
Juncus effusus	5%	Yes	FACW	data in Remarks or on a separate sheet)
Festuca perennis	15%	Yes	FAG	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	58%	- Total Cove	e .	¹ Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.
	E	S3	1	Hydrophytic
% Bare Ground in Herb Stratum 40%	96 Cover of	= Total Cove Biotic Crust	r D	Vegetation Present? Yes X No

Profile De									Sampling Poin		
	scription: (Describe to	o the de	pth needed	to document t	he indicat	or or con	firm the abse	ence of ir	dicators.)		
Depth	Matrix			Redox Fea	tures						
(inches)	Color (moist)	%	Color (m	ioist) %	Type ¹	Loc ²	Textu	re		Remarks	
0-2	10YR 4/3	90	10YR 4/6	10	С	М	Sandy clay	loam			
2-4	10YR 3/3	82	10YR 4/6	18	С	М	clay loam		-		
4-8	10YR 3/2	92	10YR 4/6	8	С	М	clay				
Time: C-C	Concentration, D=Depletion	DM-D	duced Motrix	CS-Covered or	Control So	nd Croinc	accetion, DI	-Doro Lin	ing, M=Matrix.		
Type. C=C	oncentration, D-Depletion	II, RIVI-RE	uuceu maun	x, 03-00vered 0	Coaled Sa	nu Grains.	Location. Pt	L-FOIG LIN	ing, m-maun.		
Hydric So	il Indicators: (Applica	ble to al	l LRRs, unl	less otherwise	noted.)		Indicators	for Prob	ematic Hydric S	Soils ³ :	
Histo	sol (A1)			Sandy Redox (S	(5)		1 cm	Muck (A9) (LRR C)		
Histic	c Epipedon (A2)			Stripped Matrix	(S6)		2 cm	Muck (A1	0) (LRR B)		
Black	(Histic (A3)			Loamy Mucky M	lineral (F1)		Redu	ced Vertic	: (F18)		
Hydro	ogen Sulfide (A4)			Loamy Gleyed N	Aatrix (F2)		Red P	Parent Ma	terial (TF2)		
	fied Layers (A5) (LRR C	C)		Depleted Matrix			Other	(Explain	in Remarks)		
	Muck (A9) (LRR D)		_	Redox Dark Sur							
	eted Below Dark Surface	e (A11)		Depleted Dark S		0					
	Coark Surface (A12)			Redox Depressi					rs of hydrophytic		d l
	ly Mucky Mineral (S1) ly Gleyed Matrix (S4)			Vernal Pools (F9	")				nd hydrology mus ss disturbed or p		
	e Layer (if present):							unie	ss disturbed of p	obiemauc.	
		ches thic	k starting a	at a depth of less	s than or e		dric Soil Pre		Ye soil surface and		No
emarks: A l	layer that is at least 4 in oma of 2 or less and 5 p					qual to 8 i	nches from the	e mineral	soil surface, and		
emarks: A l	layer that is at least 4 in					qual to 8 i	nches from the	e mineral	soil surface, and		
emarks: A l ss and chro YDROLOG	layer that is at least 4 in orma of 2 or less and 5 p					qual to 8 i	nches from the	e mineral	soil surface, and		
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emarks: A I ss and chro YDROLOG Wetland H Primary In	layer that is at least 4 in oma of 2 or less and 5 j SY Hydrology Indicators: dicators (minimum of or	percent o	or more disti ed; check all	inct or prominer	nt redox co	qual to 8 i	nches from the	e mineral as soft m Seconda	soil surface, and asses y Indicators (2 o	d has a matrix v	value of 3 o
YDROLOG Wetland H Primary In- Surfa	layer that is at least 4 in oma of 2 or less and 5 j sy Aydrology Indicators: dicators (minimum of or ice Water (A1)	percent o	or more disti ed; check all	I that apply) Salt Crust (B11)	nt redox co	qual to 8 i	nches from the	e mineral as soft m Seconda	soil surface, and asses y Indicators (2 o Water Marks (B1	d has a matrix v r more required) (Riverine)	value of 3 o
YDROLOG Wetland H Primary In Surfa High	layer that is at least 4 in oma of 2 or less and 5 j sy tydrology Indicators: dicators (minimum of or ice Water (A1) Water Table (A2)	percent o	or more disti	I that apply) Salt Crust (B11) Biotic Crust (B12)	nt redox co	qual to 8 in ncentratio	nches from the	e mineral as soft m Seconda	soil surface, and asses <u>y Indicators (2 o</u> Water Marks (B1 Sediment Depos	r more required () (Riverine) its (B2) (Riveri	value of 3 o
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Project/Site: 60	656629 SMUD	Country Acres Sol	ar	City/County: Placer Cou	nty		Sampling Da	ite:	04/09/21
	NUD	E Circles		6	-	State: CA	Sampling Po	sints	008-A
and sugar the		utilizer B. Chinstian win	& D FILL	Section, Township,		20 11N SE			
Landform (hillslope, t	errace, etc.):	Terrace		Local relief (concave	s convex	none): conca	Ve	Slope (%);	4%
Subregion (LRR): Me	editerrariean Ca	itomia (LRR C)	Lat:	38.79	075893	1 ong:	-121.4326767	Dah.m.	NAD 83
Soil Map Unit Name:	Alamo-Fide	lyment complex, 0	-5% stopes			NWI Classifical	tion: n/a	1.11.1	
Are climatic / hydrolo	gic conditions of	n the site typical fo	r this time of	year? Yes_		No X	(If no, explain i	n Remarks.))
Are Vegetation	Soll	or Hydrology	X	significantly disturbed?	Are "N	formal Circums	stances' present?	Ves X	No
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	(If nee	ded, explain ar	y answers in Remar	ks.)	
SUMMARY OF F	INDINGS - A	Attach site maj	o showing	sampling point loca	ations,	transects, in	mportant feature	is, etc.	
Hydrophytic Vegetati	on Present?	Yes X N	lo	is the Sampled Area					

 Hydrophytic Vegetation Present?
 Yes
 X
 No

 Hydric Soil Present?
 Yes
 X
 No
 within a Wetland?
 Yes
 X
 No

 Wetland Hydrology Present?
 Yes
 X
 No
 within a Wetland?
 Yes
 X
 No

 Bemarks:
 Wetland #12. Juncus xiphioides dominant. Abnormally tow rainfall totals for the seasor: only 4.92 Inches of rain for the rain year to date, when normal is 35 inches for the County (Placer County rain gauge #1786, collected from October 1, 2020 to April 08, 2021, tocated about 3 miles west of project site along Placasant Corve Creek). The project site is in an annual gassland with inigiated pastures to the north and rice fields to the east and may receive overland or subsurface flow from these adjacent uses during the summer, or what would normally be the dry season. Area may be grazed occassionally, cows are present on field to the west.

Tree Stratum (Plot size: r = 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)	
				Total Number of Dominant	
				Species Across All Strata: 1 (B)	
		Total Cove		Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)	
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:	
	-			Total % Cover of: Multiply by: OBL species 75 x1 = 75	
			_	OBL species 75 x1 = 75 FACW species 5 x2 = 10	
	-			FAC species $1 x_3 = 3$	
	-		-	FACU species 0 x4 - 0	
		=Total Cove		UPL species $10 \times 5 = 50$	
Herb Stratum (Plot size: r = 6.ft.)		Company.		Column Totats: 91 (A) 138 (B)	
Juncus xiphioides	75%	Yes	OBL	Prevalence Index - B/A - 1.5	
Geranium dissectum	10%		NL		
Juncus effusus	5%	1	FACW	Hydrophytic Vegetation Indicators:	
Rumex crispus	1%		FAC	X Dominance Lest is >50%	
				X Prevalence Index is ≤3.0 ¹	
	-			Morphological Adaptationd ¹ (Provide supporting	
				data in Remarks or on a separate sheet)	
			_	Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum (Plot size:)	91%	- Total Cove	91	¹ Indicators of hydric soll and wetland hydrology must be present, unless disturbed or problematic.	
% Bare Ground in Herb Stratum 9%	% Cover of	=Total Cove Biotic Crust	er	Hydrophytic Vegetation Present? Yes X No	

DIL										Sampling I		
Profile Des	scription: (Describe	to the dep	oth neede	d to doc	ument t	he indica	tor or co	onfirm the ab	sence	of indicators	s.)	
Depth	Matrix			Red	dox Feat	ures						
(inches)	Color (moist)	%	Color (r		%	Type ¹	Loc ²	Textu	re		Remark	ks
0-10	10YR 4/2		10YR 4/6		12		м	sandy cla		-		
			10YR 2/1		2		M			mandane	se masses	
										-		
	-											
	-							-		-		
Туре: С=С	oncentration, D=Depletio	n, RM=Red	duced Matri	ix, CS=Co	vered or	Coated Sa	nd Grains	² Location: F	L=Pore	e Lining, M=Mat	trix.	
-	I Indicators: (Applica	able to all	I LRRs, u								Hydric Soils ³ :	:
	sol (A1)			Sandy R						k (A9) (LRR C	·	
10000	Epipedon (A2)		_	Stripped						k (A10) (LRR	B)	
	Histic (A3)		_			ineral (F1)				Vertic (F18)		
_	ogen Sulfide (A4)					latrix (F2))			nt Material (TF		
_	fied Layers (A5) (LRR	C)	<u>_x</u>	Depleted				Oth	er (Exp	plain in Rema	rks)	
_	Muck (A9) (LRR D)		_	Redox D								
_	ted Below Dark Surfac	ce (A11)	_			urface (Fi	7)					
	Dark Surface (A12)		_	Redox D							phytic vegeta	
_	y Mucky Mineral (S1)			Vernal P	ools (F9)					y must be pre	
	y Gleyed Matrix (S4)								u	niess disturbe	ed or problema	atic.
estrictive	e Layer (if present):											
ype: not	ne											
Depth (inch marks: la hes from t	nes): <u>10"</u> yer that has a depleted he soil surface. A depl equired in soils with ma	leted matr	rix requires				r less an		ninimu	m thickness		
Depth (inch marks: la nes from t	yer that has a depleted he soil surface. A depl	leted matr	rix requires				r less an	d that has a n	ninimu	m thickness	of 6 inches sta	arting at a dept
Depth (inch marks: la nes from t sses are r	yer that has a depleted he soil surface. A depl equired in soils with ma	leted matr	rix requires				r less an	d that has a n	ninimu	m thickness	of 6 inches sta	arting at a dept
bepth (inch marks: la nes from t sses are r DROLOG	yer that has a depleted he soil surface. A depl equired in soils with ma	leted matr	rix requires				r less an	d that has a n	ninimu	m thickness	of 6 inches sta	arting at a dept
Pepth (inch marks: la nes from t sses are r DROLOG	yer that has a depleted he soil surface. A depl equired in soils with m Y	leted matri atrix colors	rix requires s of 4/2.	s a value	of 4 or r		r less an	d that has a n	ninimu Redox	m thickness of concentration	of 6 inches sta is, including so ors (2 or more	arting at a dept oft iron-manga e required)
Pepth (inch marks: la nes from t sses are r DROLOG Vetland H trimary Inco Surfa	yer that has a deplete he soil surface. A depl equired in soils with m Y ydrology Indicators: dicators (minimum of or ce Water (A1)	leted matri atrix colors	rix requires s of 4/2.	s a value <u>all that ap</u> Salt Cru:	of 4 or r ply) st (B11)	nore and	r less an	d that has a n	ninimu Redox	m thickness of concentration	of 6 inches sta s, including so ors (2 or more s (B1) (Riverin	arting at a dept oft iron-manga e required) 1e)
Pepth (inch narks: la nes from t sses are r DROLOG Vetland H trimary Inc Surfa High 1	yer that has a deplete he soil surface. A depl equired in soils with m Y ydrology Indicators: dicators (minimum of or ce Water (A1) Water Table (A2)	leted matri atrix colors	rix requires s of 4/2. ed; check a	all that ap Salt Cru: Biotic Cr	of 4 or r ply) st (B11) ust (B12)	r less an chroma	d that has a n	ninimu Redox	m thickness of concentration	of 6 inches sta s, including so ors (2 or more c (B1) (Riverin posits (B2) (R	arting at a dept off iron-manga e required) e required) Riverine)
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Project/Site:	60656629 SMUD	Country Acres Sola	ar	City/County: Placer County		Sampling Date	2: 04/09/21
Applicant/Owner: Investigator(s):	SMUD W. Spüllsneiser, J. V	/unitzer & Climstranisus	& O FILM	Section, Township, Rang	State: <u>CA</u> je: 20.11N.5E	Sampling Poin	if:009 A
Landform (hillstop	e, terrace, etc.):	Terrace		Local relief (concave, con	vex, none): concave	SI	lope (%): 1%
Subregion (LRR):	Mediterrariean Ca	aliforma (LRR C)	Lat:	38.791207	27 Long:	-121.4330/61	Datum: NAU 83
Soil Map Unit Nan	ie: Alamo-Fid	dyment complex, 0	-5% slopes		NWI Classification:	n/a	
Are climatic / hydr	ologic conditions o	in the site typical fo	r this time of	year? Yes	No X	(If no, explain in I	Remarks.)
Are Vegetation	Soil	or Hydrology	X	significantly disturbed? An	e "Normal Circumstan	ces" present? Ye	es No X
Are Vegetation	Soll	, or Hydrology		naturally problematic? (If	needed, explain any a	nswers in Remarks	5.)

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

Hydrophytic Vegetation Present?	Yes	X	No	- Is the Sampled Area	Ver		. in
Hydric Soll Present? Wetland Hydrology Present?	Yes_	X	No No	within a Wetland?	Yes _	x	No
date, when normal is 35 inches for th project site along Pleasant Grove Cr	re County eek), The from thes	(Plac proje	er County rar ct site is in ar	n gauge #1786, collected from Oct Lannual grassland with imgated pa	tober 1, 2020 astures to the	to April north ar	.92 Inches of rain for the rain year to 08, 2021, located about 3 miles west of nd rice fields to the past and may son. Area may be grazed occassionally

Tree Stratum (Plot size: r = 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
	÷			Total Number of Dominant
	-	_		Species Across All Strata: 3 (B)
				Percent of Dominant Species
		Total Cove	t.	That Are OBL, FACW, or FAC: 100% (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet:
	-		_	Total % Cover of: Multiply by:
and the second sec	_		_	OBL species 0 x1 = 0 FACW species 38 x2 76
				FACW species 38 x2 76 FAC species 15 x3 = 45
				FACU species $0 x4 = 0$
		Total Cove		UPL species $5 \times 5 \times 25$
Herb Stratum (Plot size: 1 = 6 ft.)		- Total Cove		Column Totals: 58 (A) 146 (B)
Cyperus eragrostis	30%	Yes	FACW	Prevalence Index = B/A = 2.5
Juncus effusus	8%	Yes	FACW	
Geranium dissectum	5%		NL	Hydrophytic Vegetation Indicators:
Festuca perennís	13%	Yes	FAC	X Dominance Test is >50%
Rumex crispus	2%		FAC	X Prevalence Index is ≤3.0 ⁷
	-			Morphological Adaptationd ¹ (Provide supporting
				data in Remarks or on a separate sheet)
			_	Problematic Hydrophytic Vegetation ¹ (Explain)
	58%	- Total Cove	r i	
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		=Total Cove		Hydrophytic Vegetation
% Bare Ground in Herb Stratum 42%	% Cover of	Biotic Crust	1	Present? Yes X No

								Sampling Point:	009-A
Profile Des	scription: (Describe)	to the de	pth needed to do	ocument t	he indica	tor or cor	firm the absence		
Depth	Matrix			edox Feat					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-4	10YR 4/2	88	10YR 4/6	8		M	sandy clay loar		
0-4	10111 4/2	00	10YR 2/1		c	M	sandy ciay toai	manganese masses	
4-10	10YR 4/3	79	10YR 4/6	18	-	M	sandy clay loar	manganese masses	
4-10	1011 4/3	13	10YR 2/1		c	M	sandy ciay loa	mandanoso massos	
<u>.</u>	<u> </u>	<u> </u>	1018 2/1	3	<u>c</u>	IVI		manganese masses	
			-						
¹ Type: C=C	oncentration, D=Depletio	n RM=Re	duced Matrix CS=0	Covered or (Coated Sa	nd Grains.	² Location: PL=Pore	Lining, M-Matrix,	
,								, ,	
Hydric Soi	I Indicators: (Application)	able to a	ll LRRs, unless o	therwise	noted.)		Indicators for P	roblematic Hydric Soils ³ :	
	sol (A1)		Sandy	Redox (S:	5)		1 cm Muck	(A9) (LRR C)	
Histic	Epipedon (A2)		Strippe	ed Matrix (S6)		2 cm Muck	(A10) (LRR B)	
Black	Histic (A3)		Loamy	Mucky Mi	ineral (F1))	Reduced V	ertic (F18)	
Hydro	ogen Sulfide (A4)		Loamy	Gleyed M	latrix (F2))	Red Parent	t Material (TF2)	
Stratif	fied Layers (A5) (LRR	C)	X Deplet	ted Matrix	(F3)		Other (Expl	lain in Remarks)	
1 cm	Muck (A9) (LRR D)		Redox	Dark Surf	ace (F6)				
Deple	eted Below Dark Surface	ce (A11)		ted Dark S		7)			
Thick	Dark Surface (A12)		Redox	Depressio	ons (F8)		³ Indica	ators of hydrophytic vegetation a	and
Sandy	y Mucky Mineral (S1)		Vernal	Pools (F9)		wetl	and hydrology must be present,	
Sandy	y Gleyed Matrix (S4)						un	less disturbed or problematic.	
ches from the		leted mat	rix requires a valu					n thickness of 2 inches starting concentrations, including soft iro	
ches from the	he soil surface. A depl	leted mat	rix requires a valu						
ches from the	he soil surface. À depi equired in soils with m	leted mat	rix requires a valu						
ches from th asses are n YDROLOG	he soil surface. À depi equired in soils with m	leted mat atrix colo	rix requires a valu						
ches from ti asses are r YDROLOG Wetland H	he soil surface. À depl equired in soils with ma Y	leted mat atrix colo	rix requires a valu rs of 4/2.	ue of 4 or r			f 2 or less. Redox o		n-manganes
ches from th asses are n YDROLOG Wetland H Primary Inc	he soil surface. À depi equired in soils with ma Y ydrology Indicators:	leted mat atrix colo	rix requires a valu rs of 4/2. ed; check all that :	ue of 4 or r			f 2 or less. Redox o	concentrations, including soft iro	n-manganes
YDROLOG Wetland H Primary Inc Surfa High N	he soil surface. À depl equired in soils with m Y ydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2)	leted mat atrix colo	rix requires a valu rs of 4/2. ed; check all that : Salt C Biotic	apply) rust (B11) Crust (B12	nore and	chroma ol	f 2 or less. Redox o	concentrations, including soft iron ndary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riveri	n-manganes uired)
YDROLOG Wetland H Primary Inc Surfac High N Satura	he soil surface. À depl equired in soils with m Y ydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3)	leted mat atrix colo	rix requires a valu rs of 4/2. ed; check all that : Salt C Biotic Aquati	apply) rust (B11) Crust (B12	nore and	chroma ol	f 2 or less. Redox o	concentrations, including soft iro ndary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)	n-manganes uired)
YDROLOG Wetland H Primary Inc Surfac High N Satura Water	he soil surface. À depl equired in soils with m ydrology Indicators: ficators (minimum of or ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriver	ileted mat atrix colo ne requir rine)	rix requires a valu rs of 4/2. ed; check all that i Salt C Biotic Aquati Hydroj	apply) rust (B11) Crust (B12 ic Invertebr gen Sulfide	nore and) rates (B13 e Odor (C	(hroma of)) 1)	f 2 or less. Redox o	encentrations, including soft in ndary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)	n-manganes uired)
VDROLOG Wetland H Primary Inc Surfa High V Satura Satura Satura Satura	he soil surface. À depl equired in soils with m ydrology Indicators: ficators (minimum of or ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriver nent Deposits (B2) (No	ileted mat atrix colo one require rine) onriverine	rix requires a valu rs of 4/2. ed; check all that i Salt C Biotic Aquati Hydro; e) X Oxidiz	apply) rust (B11) Crust (B12) crust (B12 cc Invertebr gen Sulfide gen Sulfide) rates (B13 e Odor (C pheres alo	i) i) i) i) i) i) i) i)	f 2 or less. Redox o	ndary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry Season Water Table (C2)	n-manganes uired)
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YDROLOG Wetland H Primary Inc Surfa High N Satur: Water Surfa Surfa Surfa Surfa Field Obse Surface Wa Water Tabl Saturation (includes c: escribe Rec	he soil surface. À depl equired in soils with m ydrology Indicators: ficators (minimum of or ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive nent Deposits (B3) (Nonrive nent Deposits (B3) (Nonrive ce Soil Cracks (B6) lation Visible on Aerial r-Stained Leaves (B9) ervations: ater Present? Yes le Present? Yes apillary fringe)	rine) one requir rine) onriverine erine) Imagery	rix requires a valu rs of 4/2. ed; check all that i additional state of a s	apply) rust (B11) Crust (B12) ic Invertebr gen Sulfide ed Rhizosp nee of Red Huck Surfar (Explain in eth (inches) th (inches)) rates (B13 e Odor (C pheres ald uced Iron uction in 1 ce (C7) Remarks	i) 1) ng Living (C4) Tilled Soils)	f 2 or less. Redox of	ndary Indicators (2 or more requ Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C9) Saturation Visible on Aerial Ima Shallow Aquitard (D3) FAC-Neutral Test (D5)	n-manganes uired) ine) igery (C9)
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Project/Site:	60656629 SMUD	Country Acr	es Solar		City/County: Placer County			Sampling Dat	e:	04/09/21
Applicant/Owner: Investigator(s);	SMUD W. Spillstnesser, J.W	unitzer E. Cim	stransin a C	Bradt T	Section, Township, Range:	State: C		Sampling Poi	nts	010 A
Landform (hillstop	e, terrace, etc.): Mediterrariean Ca	Тепасе		Lat:	Local relief (concave, conve 38.79110496	x, none): <u>c</u>	oncave	-121.4334354	Slope (%): Datum: N	
Soil Map Unit Nar Are climatic / hyd Are Vegetation Are Vegetation	me: <u>Alamo-Fid</u> rologic conditions o Soil Soil	dyment com n the site typ or Hydr , or Hydr	plex, 0-5% xical for thi ology <u>X</u> ology	is time of y	significantly disturbed? Are "	NWI Class No X Normal Cir eded, explo	afreation: cumstanc iin any ar	(If no, explain in ces" present? \ nswers in Remark	/esX_N 5.)	10
Hydrophytic Vege Hydric Soll Prese Wetland Hydrolog	nt?	Yes Yes Yes			is the Sampled Area within a Wetland?	Yes _	x	No	-	

The run year to date, when normal is 35 inches for the County (Placer County run grugge 41786, collected from October 1, 2020 to April 08, 2021, located about 3 miles west of project site along Pleasani. Grove Creek). The project site is in an annual grassland with imgated pastures to the north and nce fields to the east and may receive overland or subsurface flow from these adjacent uses during the summer, or what would normally be the dry season. Area may be grazed occassionally, cows are present on field to the west,

Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
·			(A)
	_	_	Total Number of Dominant Species Actoss All Strata: 3 (A)
- C			· · · · · · · · · · · · · · · · · · ·
1 ====	Total Cove	IF	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
			Prevalence Index Worksheet:
			Total % Cover of: Multiply by:
		_	OBL speciesX1 =
			FACW species x2
			FAC speciesX3 = FACI/ speciesX4 =
÷ — — — — — — — — — — — — — — — — — — —	Total Cours		
· · · · · · · · · · · · · · · · · · ·	Total Cove	1	UPL speciesx5 Column Totals:(A)(B)
35%	Vos	OBI	Prevalence Index = B/A =
_			Prevalence moex - may -
_	Yes	OBL	Hydrophytic Vegetation Indicators:
15%	Yes	FACW	X Dominance Test is >50%
2			Prevalence Index is ≤3.0 ¹
			Morphological Adaptationd ¹ (Provide supporting
			data in Remarks or on a separate sheet)
0.0		_	Problematic Hydrophytic Vegetation ¹ (Explain)
70%	-Total Cove	ar .	
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Hydrophytic
	=Total Cove	21	Vegetation
	92 Cover	% Cover Species?	% Cover Species? Status

SOIL								Sampling Point:	010-A
Profile Des	scription: (Describe t	o the de	pth needed to do	cument ti	ne indica	tor or o	confirm the ab	osence of indicators.)	
Depth	Matrix		Re	dox Feat	ures			,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc	² Textu	ire Remarks	
0-2	10YR 3/2	99	10YR 4/6	1		M	silty clay		
2-10	10YR 4/1	80	10YR 3/6	20	C	M	silty clay		
10-14	10YR 4/1	95	10YR 3/6		C	M	silty clay		
			10111-0-0				0		
					-				
		_	· · · · · ·		0 <u>—</u>				
							_		
¹ Type: C=C	oncentration, D=Depletion	, RM=Re	duced Matrix, CS=C	overed or (Coated Sar	nd Grain	ns. ² Location: F	PL=Pore Lining, M=Matrix.	
	I Indicators: (Applica	ble to a			1.0			rs for Problematic Hydric Soils ³ :	
	sol (A1)			Redox (S				m Muck (A9) (LRR C)	
Histic	Epipedon (A2)		Strippe	d Matrix (S6)		2 cr	m Muck (A10) (LRR B)	
Black	Histic (A3)		Loamy	Mucky Mi	neral (F1))	Rec	duced Vertic (F18)	
Hydro	gen Sulfide (A4)		Loamy	Gleyed M	latrix (F2))	Rec	d Parent Material (TF2)	
Stratif	fied Layers (A5) (LRR (C)	X Deplete	d Matrix	(F3)		Oth	er (Explain in Remarks)	
1 cm	Muck (A9) (LRR D)		Redox	Dark Surf	ace (F6)				
Deple	ted Below Dark Surfac	e (A11)	Deplete	d Dark S	urface (F7	7)			
Thick	Dark Surface (A12)		Redox	Depressio	ons (F8)			³ Indicators of hydrophytic vegetation a	nd
Sandy	y Mucky Mineral (S1)		Vernal	Pools (F9)			wetland hydrology must be present,	iu ii
Sandy	y Gleyed Matrix (S4)							unless disturbed or problematic.	
Restrictive	a Layer (if present):								
Type: nor	ne								
Depth (inch							Hydric Soil P	resent? Yes X	No
Remarks: Ro	not masses ston growin	a at abo	ut 10" 2nd horizon	almost s	aturated	Fully sa	aturated soils o	occur at 3rd horizon. F3 - Depleted Matri	ix A laver
								ss of 2 inches if the 2 inches starts at a d	
								edox concentrations, including soft iron-	
					. In sampl	e point,	, starting at 2 in	nches below soil surface, matrix layer co	lors are 4/1,
80%, and is a	3 inches deep; redox co	ncentrat	ions are 20% in thi	s tayer.					
HYDROLOG									
The State St	ydrology Indicators:								
	licators (minimum of or	ne require						Secondary Indicators (2 or more requ	ired)
	ce Water (A1)			ust (B11)				Water Marks (B1) (Riverine)	
	Water Table (A2)			crust (B12				Sediment Deposits (B2) (Riverin	1e)
	ation (A3)				ates (B13			Drift Deposits (B3) (Riverine)	
	Marks (B1) (Nonriver				Odor (C			Drainage Patterns (B10)	
	nent Deposits (B2) (No						ing Roots (C3)		
Drift D	Deposits (B3) (Nonrive	rine)	Presen	ce of Red	uced Iron	(C4)		Crayfish Burrows (C8)	
Surfa	ce Soil Cracks (B6)		Recent	Iron Red	uction in T	Filled Se	oils (C6)	Saturation Visible on Aerial Imag	jery (C9)
Inund	ation Visible on Aerial I	Imagery	(B7) Thin Mi	ick Surfa	ce (C7)			Shallow Aquitard (D3)	
Water	-Stained Leaves (B9)		Other (Explain in	Remarks	5)		FAC-Neutral Test (D5)	
Field Obse	ervations:								
Surface Wa			No X Dept						
Water Tabl	e Present? Yes	X	No Dept	h (inches)	: 18				
Saturation	Present? Yes	Х	No Dept No Dept	h (inches)	: 10		Wetland I	Hydrology Present? Yes X	No
	apillary fringe)								
Describe Rec	corded Data (stream ga	uge, mo	nitoring well, aerial	photos, p	revious in	rspectio	ons), if availabl	e:	
Remarks: Cra	ayfish burrows present								
US Army Cor	ps of Engineers							Arid Wes	t - Version 2.0

Project/Site:	60656629 S	MUD Cour	try Ac	res Solar		City/County:	Placer County			Samp	ling Date:		04/09/21
Applicant/Owner:	SMUD W. Spillstoess	- University	an cia		0.000	6	Transition Da		State: CA	Sam	ling Point	í i	011 A
Investigator(s):					O, HOLDL -		n, Township, Ra	- M	20 11N SE			to an allow	-
Landform (hillslop	a state of the second second	· · · · · · · · · · · · · · · · · · ·	епасе			Local re	ellet (coricave: c	conve)	(, none): <u>concave</u>	3	Sld	pe (%);	1%
Subregion (LRR):	Mediterrarie	an Californ	na (LR	RC)	Lat:		38.7906	1364	Long:	-121.43	42399	Datum	NAD 83
Soil Map Unit Nar	ne: Atam	o-Fiddyme	ent con	plex, 0-59	6 stopes			1	NWI Classificatio	m: n/a		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
Are climatic / hyd	ologic conditi	ons on the	site ty	pical for th	is time of	year?	Yes		No X	(If no, e	xplain in R	emarks)
Are Vegetation	X Sol	x	or Hyd	rotogy		significantly	disturbed?	Are "I	Normal Circumsta	ances pres	ent? Ye	s	No X
Are Vegetation			or Hyd	.		naturally pro			ded, explain any	1.			
SUMMARY OF Hydrophytic Vege Hydric Soil Prese	tation Preser	17 Y		X No X No			impled Area		Yes	No	x		
Wetland Hydrolog			RS	No	x	within a	Wetland?		105	_ ""	^	- C	
Remarks: Origina upland near a larg the County (Place Creek). Area may	er welland fe r County rain	ature. Abr gauge #1	ormally 786, co	y low rainfa liected fro	all totals to m October	r the seasor 1, 2020 to A	; only 4.92 inch April 08, 2021, lo	ies of	ram for the ram y	ear to date.	when non	mal is 3	5 inches for

Tree Stratum (Plot size: r = 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
	-			That Are OBL, FACW, or FAC: 2 (A)
				Total Number of Dominant
			_	Species Across All Strata: 2 (B)
			_	Percent of Dominant Species
	-	Total Cove	ie.	That Are OBL, FACW, or FAC: 100% (A/B)
Sapling/Strub Stratum (Plot size:)				Prevalence Index Worksheet:
				Total % Cover of: Multiply by:
			C. II.	OBL speciesX1 ~
				FACW species x2 =
1			_	FAC speciesx3 =
	-			FACU species x4
	-	=Total Cove	at.	UPL speciesx5 =
Herb Stratum (Plot size: r = 5 ft.)			5.0	Column Totals:(A)(B)
Hordeum marinum	20%	Yes	FAC	Prevalence Index -> B/A #DIV/0!
Plagiobothrys stipitatus	12%	Yes	FACW	
. Festuca perennís	3%		FAC	Hydrophytic Vegetation Indicators:
Eleocharis macrostachya	2%		OBL	X Dominance Lest is >50%
. Veronica peregrima	1%		FAC	Prevalence Index is ≤3.0 ¹
. Crassula aquatica	1%		OBL	Morphological Adaptationd ¹ (Provide supporting
. Juncus bulonius	1%		FACW	data in Remarks or on a separate sheet)
. Psilocarphus oregonus	1%		OBL	Problematic Hydrophytic Vegetation' (Explain)
	41%	-Total Cove	90	
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must
		_	-	be present, unless disturbed or problematic.
	1	()		Hydrophytic
and the second second second second		=Total Cove	er.	Vegetation
% Bare Ground in Herb Stratum 59%	% Cover of	Biotic Crust		Present? Yes X No
Remarks:		_	-	

Profile Societybis: Description:	SOIL									Sampling Po	int:	011-A
gint bits Code (most) % Code (most) % Type Total Total Remats 3.7 10YR 4/2 06 10YR 4/6 12 C M day manganese manganese 3.7 10YR 4/2 06 10YR 2/1 2 C M day manganese	Profile De	escription: (Describe	to the de	pth needed	d to document t	he indica	tor or co	nfirm the ab	sence of i	indicators.)		
3.7 7.5/T 322 96 10/TR 46 12 C M day 3.7 10/TR 4/2 96 10/TR 4/6 12 C M day manganese masses 3.7 10/TR 4/2 96 10/TR 4/2 Z M manganese masses manganese masses 3.7 10/TR 4/2 2 C M manganese masses manganese masses 3.7 10/TR 4/2 2 C M manganese masses manganese masses 3.7 10/TR 4/2 2 C M manganese masses manganese masses 3.7 10/TR 4/2 2 C M manganese masses manganese masses 17.5 C-Concentration Di-Diption RM-Reduced Matrix CS Contrast field (A) Contrast field (A)<	Depth	Matrix			Redox Feat	ures		_				
3.7 TVR 4/2 0.8 TVR 2/1 Z C M mangamese masses "Type: C. Concentration D: Depletion RM-Reduced Mattix: CS-Conveed or Coated Sand Grans: Tocation: PL-Pore Lining M-Matrix. "Type: C. Concentration D: Depletion RM-Reduced Matrix: CS-Conveed or Coated Sand Grans: Tocation: PL-Pore Lining M-Matrix. "Hybric Soil Indicators: (Applicable to all LERIS, unless otherwise noted) Indicators for Problematic Hydric Soils': "Hybric Soil Michards (A) Cammy Glayed Matrix (CS) 2 cm Mark (AIO (LRIB P)) Black Hatic (A3) Lammy Glayed Matrix (C2) Red Parent Matrial (TF2) Standard Matrix (A1) Depleted Matrix (C3) Other (Caplan in Remarks) Torm Mark (AIO (LRIB P)) Redox Dark Starlace (F7) True Mark (AIO (LRIB P)) Torm Mark (AIO (LRIB P)) Redox Dark Starlace (F7) Trues Satury Marka Mineral (S1) Under (Caplan in Remarks) Satury Marka Mineral (S1) Under All Pools (F9) "understore of hydrophytic understore, unless disturbed or problematic. Remarks: A layer that has a displated matrix with 60 percent or more chroma of 2 or less. Reduce consentrations, including online or mangunese Type: DTD Satury (Markarks (G1) (Morriverine) Secondary Indicators (2 moror requined) Typetic Soil Prese	(inches)	Color (moist)	%	Color (m	noist) %	Type ¹	Loc ²	Text	ure		Remarks	
Image: the second se	0-3	7.5YR 3/2	96	10YR 4/6	4	С	М	sandy cla	y loam			
Type: C-Concentration D-Depletion RM-Reduced Matrix, CS-Corveed or Coaled Sand Grans. Tocation: Pt-Prore Lining, M-Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histocid (A) Sandy Rodox (S) 2 nm Mack (Al0) (LRR C) Black Histo: Spripped Matrix (S0) 2 nm Mack (Al0) (LRR B) Black Histo: Matrix (S0) Lamry Gregord Matrix (S1) Red Parent Material (F12) Stantified Linity (Al0) RR D) Redox Dark Surface (F17) Note (F18) Depleted Bole Dark Surface (A17) Redox Dark Surface (F7) Note (F18) Sandy Gleged Matrix (S4) Redox Dark Surface (F7) Note (S10) Type: medic Redox Dark Surface (F7) Note (S10) Sandy Gleged Matrix (S4) Redox Dark Surface (F7) Note (S10) Note (S10) Sandy Gleged Matrix (S4) Redox Dark Surface (F7) Note (S10) Note (S10) Restrictive Layer (P resent): Type: more Hydric Soil Present? Yes (X Note (S0)) Restrictive Layer (P resent): Type: (Note (S10) Note (S10) Note (S10) Surface Nation Note Soil surface. Alopited matrix requires a value of 4 or more and chroma of 2 or less	3-7	10YR 4/2	86	10YR 4/6	12	С	М	clay		-		
Hydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted) I cm Muck (A9) (LRR C) Histic Eppedon (A2) Strupped Matrix (S6) 2 cm Muck (A10) (LRR C) Black Histic (A3) Loamy Mucky Meral (F1) Reduced Vertic (F16) Hydrigen Suffiel (A1) Damy Mucky Meral (F3) Reduced Vertic (F16) Hydrigen Suffiel (A1) Depleted Matrix (F3) Reduced Vertic (F16) Depleted Matrix (A3) Reduce Depressions (F3) "Indicators of hydrophytic vegetation and wetand hydrodogy must be present, unless distubed or polested Datrix Starface (F7) Sandy Gleavel Matrix (S1) Wernal Pools (F3) "Indicators of a hydrophytic vegetation and wetand hydrodogy must be present, unless distubed or polesteat Datrix Starface (F7) Pope Internet Hydric Soil Present? Yes	2	(*)		10YR 2/1	2	С	М			manganese	masses	
Hydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted) I cm Muck (A9) (LRR C) Histic Eppedon (A2) Strupped Matrix (S6) 2 cm Muck (A10) (LRR C) Black Histic (A3) Loamy Mucky Meral (F1) Reduced Vertic (F16) Hydrigen Suffiel (A1) Damy Mucky Meral (F3) Reduced Vertic (F16) Hydrigen Suffiel (A1) Depleted Matrix (F3) Reduced Vertic (F16) Depleted Matrix (A3) Reduce Depressions (F3) "Indicators of hydrophytic vegetation and wetand hydrodogy must be present, unless distubed or polested Datrix Starface (F7) Sandy Gleavel Matrix (S1) Wernal Pools (F3) "Indicators of a hydrophytic vegetation and wetand hydrodogy must be present, unless distubed or polesteat Datrix Starface (F7) Pope Internet Hydric Soil Present? Yes	-											
Hydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted) I cm Muck (A9) (LRR C) Histic Eppedon (A2) Strupped Matrix (S6) 2 cm Muck (A10) (LRR C) Black Histic (A3) Loamy Mucky Meral (F1) Reduced Vertic (F16) Hydrigen Suffiel (A1) Damy Mucky Meral (F3) Reduced Vertic (F16) Hydrigen Suffiel (A1) Depleted Matrix (F3) Reduced Vertic (F16) Depleted Matrix (A3) Reduce Depressions (F3) "Indicators of hydrophytic vegetation and wetand hydrodogy must be present, unless distubed or polested Datrix Starface (F7) Sandy Gleavel Matrix (S1) Wernal Pools (F3) "Indicators of a hydrophytic vegetation and wetand hydrodogy must be present, unless distubed or polesteat Datrix Starface (F7) Pope Internet Hydric Soil Present? Yes		-										
Hydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted) I cm Muck (A9) (LRR C) Histic Eppedon (A2) Strupped Matrix (S6) 2 cm Muck (A10) (LRR C) Black Histic (A3) Loamy Mucky Meral (F1) Reduced Vertic (F16) Hydrigen Suffiel (A1) Damy Mucky Meral (F3) Reduced Vertic (F16) Hydrigen Suffiel (A1) Depleted Matrix (F3) Reduced Vertic (F16) Depleted Matrix (A3) Reduce Depressions (F3) "Indicators of hydrophytic vegetation and wetand hydrodogy must be present, unless distubed or polested Datrix Starface (F7) Sandy Gleavel Matrix (S1) Wernal Pools (F3) "Indicators of a hydrophytic vegetation and wetand hydrodogy must be present, unless distubed or polesteat Datrix Starface (F7) Pope Internet Hydric Soil Present? Yes												
Hydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted) I cm Muck (A9) (LRR C) Histic Eppedon (A2) Strupped Matrix (S6) 2 cm Muck (A10) (LRR C) Black Histic (A3) Loamy Mucky Meral (F1) Reduced Vertic (F16) Hydrigen Suffiel (A1) Damy Mucky Meral (F3) Reduced Vertic (F16) Hydrigen Suffiel (A1) Depleted Matrix (F3) Reduced Vertic (F16) Depleted Matrix (A3) Reduce Depressions (F3) "Indicators of hydrophytic vegetation and wetand hydrodogy must be present, unless distubed or polested Datrix Starface (F7) Sandy Gleavel Matrix (S1) Wernal Pools (F3) "Indicators of a hydrophytic vegetation and wetand hydrodogy must be present, unless distubed or polesteat Datrix Starface (F7) Pope Internet Hydric Soil Present? Yes			-									
Hydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted) I cm Muck (A9) (LRR C) Histic Eppedon (A2) Strupped Matrix (S6) 2 cm Muck (A10) (LRR C) Black Histic (A3) Loamy Mucky Meral (F1) Reduced Vertic (F16) Hydrigen Suffiel (A1) Damy Mucky Meral (F3) Reduced Vertic (F16) Hydrigen Suffiel (A1) Depleted Matrix (F3) Reduced Vertic (F16) Depleted Matrix (A3) Reduce Depressions (F3) "Indicators of hydrophytic vegetation and wetand hydrodogy must be present, unless distubed or polested Datrix Starface (F7) Sandy Gleavel Matrix (S1) Wernal Pools (F3) "Indicators of a hydrophytic vegetation and wetand hydrodogy must be present, unless distubed or polesteat Datrix Starface (F7) Pope Internet Hydric Soil Present? Yes	17.00						10.0	- 2				
Histosal (4)	Type: C=0	Concentration, D=Depieti	on, RM=Re	educed Matri	x, CS=Covered or	Coated Sa	ind Grains	. Location:	PL=Pore Li	ning, M=Matrix.		
Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Mutex (A10) (LRR B) Histic Epipedon (A2) Loamy Mutexy Mineral (F1) Reduced Vertic (F1B) Hydrogen Sulfide (A4) Loamy Gleved Matrix (F3) Other (Explain in Remarks) T cm Mutex (A9) (LRR D) Redox Dark Surface (F7) Redox Dark Surface (A11) Depleted Dark Surface (F7) Trick Dark Surface (A12) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Batrix (S4) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Batrix (S4) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Type: inone	Hydric So	oil Indicators: (Applic	able to a	ll LRRs, un	less otherwise I	noted.)		Indicator	s for Prob	olematic Hydri	c Soils ³ :	
Black Heise (A3) Learny Macky Mineral (F1) Reduced Vertice (F8) Hydrogen Suffale (A4) Learny Gleyed Matrix (F2) Red Parent Material (F72) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Depleted Mark Surface (F7) Redox Dark Surface (F7) Prediced Mark (S4) Sandy Gleyed Mark (S4) Vernal Pools (F9) *unless disturbed or problematic. Particitive Layer (IF present): Tork Surface (F7) Yes X No Topp: Indee Implementation (S4) Present (S4) No	Histo	osol (A1)		_	Sandy Redox (S	5)		1 cn	Muck (A	9) (LRR C)		
Hydrogen Sulfide (A) L cam yGleyed Mattix (F2) Red Parent Material (FF2) Stratified Layers (A5) (LRR C) X Depleted Mattix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matk Surface (F7) Thick Dark Surface (A11) Depleted Dark Surface (F7) Trick Dark Surface (A11) Depleted Dark Surface (F7) "Indicators of hydrophytic vegetation and wetand hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S1) Vermal Pools (F9) "Indicators of hydrophytic vegetation and wetand hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): T Indicators (A11) Depleted matrix with f0 precent or more chroma of 2 or less. Redox concentrations, including soft iron manganese Type: Indicators (A11) Sal Crust (B11) Wetand Hydrology Indicators (2 or more required) Primary Indicators (Intrimum of one required: check all that apply) Secondary Indicators (2 or more required) Primary Indicators (Intrimum of one required: check all that apply) Secondary Indicators (2 or more required) Stafface Water (A1) Sal Crust (B12) Secondary Indicators (2 or more required) Stafface Water (A1) Sal Crust (B12) Dint Deposits (B3) (Riverine) Sediment Deposits (B2) (Nonriverine) Hydrology Indicators (C10)	Histi	c Epipedon (A2)			Stripped Matrix (S6)		2 cn	Muck (A	10) (LRR B)		
Stratified Layers (A5) (LRR C) X Depleted Matrix (T3) Other (Explain in Remarks) In cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Matrix (F3) 'Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S1) Vernal Pools (F9) 'Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Prime:	Blac	k Histic (A3)			Loamy Mucky M	ineral (F1))	Red	uced Verti	ic (F18)		
1 cm Muck (A9) (LRR 0) Redx Dark Surface (Fr) Depleted Boark Surface (A11) Depleted Boark Surface (Fr) Sandy Mucky Mineral (S1) Redx Depressions (F8) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (ff present):	Hydr	ogen Sulfide (A4)		_	Loamy Gleyed M	latrix (F2))	Red	Parent M	aterial (TF2)		
Bepleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: point Depth (inches): 7 Restrictive Layer (f) present): Yes Depth (inches): 7 Remarks: A layer that bas a depleted matrix with 60 percent or more chroma of 2 or less and that bas a minimum thickness of 2 inches starting at a depth 54 inches tom the soil surface. A depted matrix colors of 4/2. HYDROLOSY Wetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Secondary Indicators (2 or more required) Surface Vater (A1) Salt Crust (B11) Water Marks (B1) (Reverine) Surface Vater (A1) Biolic Crust (B12) Sediment Deposits (B2) (Reverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Reverine) Water Marks (B1) (Konriverine) Presence of Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Startace Sid Cracks (B6) Recernine) Pridized Sid (C2) Craftish Burrows (C8) Water Marks (B1) (Konriverine) Prese	Strat	tified Layers (A5) (LRR	(C)	X	Depleted Matrix	(F3)		Othe	er (Explain	in Remarks)		
Thick Dark Surface (A12) Redox Depressions (F8) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleged Matrix (S4) Vernal Pools (F9) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present):												
Sandy Mucky Mineral (S1) Vernal Pools (F9) wetland hydrology must be present. Sandy Gleyed Matrix (S1) unless disturbed or problematic. Type: none unless disturbed or problematic. Restrictive Layer (If present): unless disturbed or problematic. No Remarks: A layer that has a depleted matrix with 60 percent or more chroma of 2 or less. Redox concentrations, including soft ron-manganese No Remarks: A layer that has a depleted matrix requires a value of 4 or more and chroma of 2 or less. Redox concentrations, including soft ron-manganese No HVDROLOGY Wetland Hydrology indicators: Primary Indicators (inininum of one required: check all that apply) Secondary Indicators (2 or more required) Sufface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) Sufface Water (A2) Biolic Crust (B12) Sodiment Deposits (B2) (Riverine) Sufface Water (A1) Salt Crust (B12) Sodiment Deposits (B2) (Riverine) Sufface Water (A2) Biolic Crust (B12) Sodiment Deposits (B2) (Riverine) Sufface Water (A6) Ortic Deposits (B2) (Nonriverine) Ortic Deposits (B2) (Riverine) Sufface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Acrial Imagery (B7)			ce (A11)				7)					
									³ Indicate	ors of hydrophy	tic vegetation	and
Restrictive Layer (if present): Type: none Depth (inches): 7' Depth (inches): 7' Remarks: Aleyer that has a depleted matrix requires a value of 4 or more and chroma of 2 or less. Redox concentrations, including soft iron manganese memarks: Aleyer that has a depleted matrix requires a value of 4 or more and chroma of 2 or less. Redox concentrations, including soft iron manganese memarks: Aleyer that has a depleted matrix requires a value of 4 or more and chroma of 2 or less. Redox concentrations, including soft iron manganese masses, are required in soils with matrix colors of 4/2. HVDROLOCY Wetand Hydrology Indicators: Primary Indicators (iniminum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Nonriverine) Salt Crust (B12) Sufface Water (A1) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Nonriverine) Vater Marks (B1) (Nonriverine) Oxidace Rhizopheres along Living Roots (C3) Dry:Season Water Table (C2) Sutface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Sturface Mater Present? Yes No X Depth (inches):				-	Vernal Pools (F9)						t,
Type: nome Depth (inches): 7 Yes X No Remarks: Alayer that has a depleted matrix with 60 percent or more chroma of 2 or less and that has a minimum thickness of 2 inches starting at a depth 44 inches from the object matrix requires a value of 4 or more and chroma of 2 or less. Redox concentrations, including soft iron-manganesis masses, are required in soils with matrix colors of 4/2. Hybric Soft Secondary Indicators: Primary Indicators (iniminum of one required: check all that apply) Secondary Indicators (2 or more required) Hybric Soft Cock Salt Crust (B11) Water Marks (B1) (Riverine) Hybric Soft Cock Salt Crust (B12) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B12) Water Marks (B1) (Riverine) Surface Vater (A1) Salt Crust (B12) Secondary Indicators (2 or more required) Surface Soft Cracks (B1) Aquatic Invertebrates (B13) Dnth Deposits (B3 (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Dnth Deposits (B3 (Riverine) Dry:Seasom Water Table (C2) Dift Deposits (B2) (Nonriverine) Dxiddeel Rhizospheres along Living Roots (C3) Dry:Seasom Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (B7) Thin Muc		•							unle	ess disturbed o	r problematic.	
Depth (inches): T Hydric Soil Present? Yes X No Remarks: Alayer that has a depleted matrix with 60 percent or more chroma of 2 or less and that has a minimum thickness of 2 inches starting at a depth 44 inches the soil surface. A depleted matrix requires a value of 4 or more and chroma of 2 or less. Redox concentrations, including soft iron-manganese masses, are required in soils with matrix colors of 4/2. HYDROLOCY Wetland Hydrology Indicators: Secondary Indicators (niminum of one required: check all that apply) Secondary Indicators (2 or more required) Sturface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) Hydrogen Sulface Water (A1) Salt Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (\u03) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Cxid/zed Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Salturation Visible on Aerial Imagery (C9) Surface Water Present? Yes No X Depth (inches): Water Salide Soils (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitad (U3) FAC Neutral Test (D5) Freed Observations:<	Restrictiv	/e Layer (if present):										
Remarks: A layer that has a depleted matrix with 60 percent or more chroma of 2 or less and that has a minimum thickness of 2 inches starting at a depth \$4 inches from the soil surface. A depleted matrix requires a value of 4 or more and chroma of 2 or less. Redox concentrations, including soft iron-manganese masses, are required in soils with matrix colors of 4/2. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Secondary Indicators (2 or more required) Hydrology Indicators (A2) Biolic Crust (B11) Water Marks (B1) (Riverine) Hydrology Indicators (A3) Aquate Invertebrates (B13) Drift Deposits (B2) (Riverine) Sufface Water (A1) Hydrogen Sufface Or (C1) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sufface Or (C1) Drift Deposits (B3) (Nonriverine) Sufface Soil Cracks (B6) Recent Iron Reduced Iron (C4) Crayfish Burrows (C8) Sufface Soil Cracks (B6) Recent Iron Reduced Iron (C4) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Sufface (C7) Shallow Aquitard (D3) Water Table Present? No X Depth (inches): Metar Table (A2) Sufface Water Present? Yes No X Depth (inches): Metar Table Present? Yes No </td <td></td>												
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Wetland Hydrology Indicators:	HYDROLOG	GΥ										
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Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Saturation 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: Wetland Hydrology indicators present. No inundation or saturation visible on aerial imagery. Feature is very small and consists of old tire ruts in upland.			-	No. Y	Dopth (inchos)							
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X (includes capillary fringe) Depth (inches):							-					
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Remarks: No wetland hydrology indicators present. No inundation or saturation visible on aerial imagery. Feature is very small and consists of old tire ruts in upland.				<u></u>	- Deptir (menes)			- Heliana I	.juliologj	, resent.		
upland.			auge, mo	nitoring well	l, aerial photos, p	revious ir	spection	s), if available):			
upland.	Domarke: N	o wotland hydrology in	dicatore p	recent No.i	nundation or cat	rationvic	ible on a	orial imagony	Foaturo is	wony small on	d consists of o	ld tiro rute in
		o wetrand nydrology ind	dicators pi	resent. No li	nundation of satt	Tation vis	ible on a	enarimagery.	reature is	s very small an	1 COLISISTS OF 0	ia ure ruts in
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	US Army Co	orps of Engineers									Arid V	Vest - Version 2

Project/Site:	60656629 SMUD	Country Acres Sola	ar d	City/County: Placer County		Sampling Date:	04/21/21
Applicant/Owner:	SMUD				State: CA	Sampling Point:	020 A
Investigator(s):	J. Wurlitzer & C. B	attaglia		Section: Township, Rang	je: 20 11N 5E		C
Landform (hillslop	e, terrace, etc.):	Terrace		Local relief (concave, con	vex, none): none	Slop	e (%): 12%
Subregion (LRR):	Mediterranean Ca	lifornia (LRR C)	Lat:	38,7854	51_ Long:	121.432676	Datum: NAD 83
Soil Map Unit Nan	ie: Xeifluvents,	hardpan substratum			NWI Classificat	ion: n/a	
Are climatic / hydr	ologic conditions of	n the site typical for	this time of y	vear? Yes	No X	(If no, explain in Re	emärks.)
Are Vegetation	, Soll	, or Hydrology	х	significantly disturbed? Ar	e "Normal Circums	tances present? Yes	No X
Are Vegetation	Soil	or Hydrology		naturally problematic? (If)	needed, explain an	y answers in Remarks.)	

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

Hydrophytic Vegetation Present?	Yes	X	No	Is the Sampled Area			
Hydric Soil Present?	Yes	Х	No	within a Wetland?	Yes	X	No
Wetland Hydrology Present?	Yes	X	No	within a weband:			
Zemarks: Wetland ≢20 Adjacent Io	ditch foot	TRA AT	id connects to	the ditch via several breaks in he	m hatvoan	this wall	land and the ditch. Fice fields to the ens
influence hydrology, whereby this we							
rainfall totals for the season; only 4.5							
collected from October 1, 2020 to Ar							

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
				That Are OBL, FACW, or FAC:4 (A)
	=	· <u> </u>	_	Total Number of Dominant Species Across All Strata:(B)
	_	=Total Cove	r	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
Sapling/Shrub.Stratum (Plot size;)				Prevalence Index Worksheet: fotal % Cover of: Multiply by:
	_			
-	-			OBL species x1 -
			_	FACW species X2 = FAC species X3 =
	<u> </u>			FAC species x3 =
han		=Total Cove		UPL speciesX1 =
Herb Stratum (Plot size:t = 10 (t_))		- Total Cove		Column Totals:(A)(B)
Eleocharis macrostachya [palustris]	20%	ves	OBL	Prevalence Index = B/A =
Cyperus eragrostis	25%	ves	FACW	
Rumex crispus	5%		FAC	Hydrophytic Vegetation Indicators:
. Helminthotheca echioides	5%		FAC	X Dominance Test is >50%
Juncus effusus	8%	yes	FACW	Prevalence Index is ≤3.0 [™]
Alopecunis aequalis	8%	yes	OBL	Morphological Adaptationd ¹ (Provide supporting
Sorichus asper	3%		FAC	data in Remarks or on a separate sheet)
. Erodium brachycarpum	3%		NL	Problematic Hydrophytic Vegetation ¹ (Explain)
and the second second second second	77%	-Total Cove	er	THE REPORT OF A DESCRIPTION OF A DESCRIP
Woody Vine Stratum (Plot size:)			_	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
(1) · · · · · · · · · · · · · · · · · · ·				Hydrophytic
% Bare Ground in Herb Stratum10%		-Total Cove Biotic Crust		Vegetation Present? Yes X No
Remarks:				

	escription: (Describe)	to the de				ator or co	nfirm the ab	sence o	f indicators.)		
Depth	Matrix			dox Feat							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textur	re	-	Remarks	
.4	7.5YR 4/2	90	2.5YR 3/6	10	<u>c</u>	M	sandy clay				
-8	5YR 3/2	95	7.5YR 2.5/2	5	С	M	clay		manganese ma	isses	
		\equiv		=	=	\equiv					
ype: C=(Concentration, D=Depletio	n, RM=R	educed Matrix, CS=0	overed or	Coated Sa	nd Grains.	² Location: P	L=Pore L	ining, M=Matrix.		
wdric Sc	oil Indicators: (Applica	abletea		thonwise	noted)		Indicatore	for Drol	blematic Hydric S	coile ³	
	osol (A1)			Redox (S					9) (LRR C)		
_	c Epipedon (A2)			d Matrix (10) (LRR B)		
	k Histic (A3)				ineral (F1)			ced Verti			
_	ogen Sulfide (A4)				latrix (F2)				aterial (TF2)		
_	ified Layers (A5) (LRR	C		d Matrix					in Remarks)		
_	Muck (A9) (LRR D)	0)		Dark Surf				(Lypian	rin Kemarks)		
	eted Below Dark Surfac	A (A 11)			urface (F)	0					
_	k Dark Surface (A12)	e (ATT)		Depressio		,					
	dy Mucky Mineral (S1)			Pools (F9					ors of hydrophytic		d
	ty Gleyed Matrix (S4)		venar	0013 (1 3	,				nd hydrology must ess disturbed or pr		
	layer that has a deplete					or less an		minimum		(2 inches) if	
ts at a de uding sof	layer that has a deplete epth ≤10 cm (4 inches) f ft iron-manganese mass na of 2 in a layer 4 inche	from the ses and/o	soil surface. A dep or pore linings, are	leted mai required	trix requir in soils wi	or less an es a value th matrix (d that has a r of 4 or more colors of 4/1,	minimum and chr 4/2. In th	n thickness of 5 cm oma of 2 or less. F he sample, 90% de	(2 inches) if Redox concen	the 5 cn trations,
ts at a de uding sol nd chrom	epth ≤10 cm (4 inches) i ft iron-manganese mass na of 2 in a layer 4 inche GY	from the ses and/o	soil surface. A dep or pore linings, are	leted mai required	trix requir in soils wi	or less an es a value th matrix (d that has a r of 4 or more colors of 4/1,	minimum and chr 4/2. In th	n thickness of 5 cm oma of 2 or less. F he sample, 90% de	(2 inches) if Redox concen	the 5 cm trations,
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rts at a de luding sol ind chrom DROLOC Wetland H Primary In Surfa High X Satu Satu Drift X Surfa Brunk Wate Field Obs Surface W Water Tab Saturation includes of scribe Re	epth ≤10 cm (4 inches) i ft iron-manganese mass ia of 2 in a layer 4 inches) a of 2 in a layer 4 inches Hydrology Indicators: idicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) ar Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial ar-Stained Leaves (B9) servations: /ater Present? Yes ble Present? Yes ace and the server of the server of the server present? Yes ace and the server of the se	from the ses and/ as thick a ne requir rine) priverin prine) Imagery 	soil surface. A dep or pore linings, are t a depth of 0-4 ind ed; check all that a 	apply) apply) ist (B11) ist (B12) invertebr en Sulfide d Rhizosj ce of Red Iron Red ick Surfa Explain in n (inches) n (inches) n (inches) n (inches)	trix requirin soils wi the soil s wi the soil s) ates (B13 e Odor (C oheres ald uced Iron uced Iron uced Iron ucetion in 1 ce (C7) Remarks : previous i	or less an es a value th matrix e urface; ree ()))))))) (C4) (C4) (C4) (C4) (C	d that has a r of 4 or more colors of 4/1, dox concentra 	minimum and chir- 4/2. In the ations at Seconds	n thickness of 5 cm oma of 2 or less. F he sample, 90% de 10%. any Indicators (2 or Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Wate Crayfish Burrows Saturation Visible Shallow Aquitard FAC-Neutral Test	((2 inches) if Redox concen epleted matrix (Riverine) s (B2) (Riverine) ((B10) r Table (C2) (C8) on Aerial Ima (D3) (D5)	the 5 cm trations, with vai d) ne)
rts at a de luding sol nd chrom DROLOC Vetland F Primary In Surfa High X Satu Vate Sedin Drift X Surfa Inum Wate Field Obs Surface W Vater Tab Saturation includes of Scribe Re	epth ≤10 cm (4 inches) i ft iron-manganese mass ia of 2 in a layer 4 inches) a of 2 in a layer 4 inches Hydrology Indicators: idicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) ar Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial ar-Stained Leaves (B9) servations: /ater Present? Yes ble Present? Yes ace and the server of the server of the server present? Yes ace and the server of the se	from the ses and/ as thick a ne requir rine) priverin prine) Imagery 	soil surface. A dep or pore linings, are t a depth of 0-4 ind ed; check all that a 	apply) apply) ist (B11) ist (B12) invertebr en Sulfide d Rhizosj ce of Red Iron Red ick Surfa Explain in n (inches) n (inches) n (inches) n (inches)	trix requirin soils wi the soil s wi the soil s) ates (B13 e Odor (C oheres ald uced Iron uced Iron uced Iron ucetion in 1 ce (C7) Remarks : previous i	or less an es a value th matrix e urface; ree ()))))))) (C4) (C4) (C4) (C4) (C	d that has a r of 4 or more colors of 4/1, dox concentra 	minimum and chir- 4/2. In the ations at Seconds	n thickness of 5 cm oma of 2 or less. F he sample, 90% de 10%. any Indicators (2 or Water Marks (B1) Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry-Season Wate Crayfish Burrows Saturation Visible Shallow Aquitard FAC-Neutral Test	((2 inches) if Redox concen epleted matrix (Riverine) s (B2) (Riverine) ((B10) r Table (C2) (C8) on Aerial Ima (D3) (D5)	the 5 crations trations with va d) d) ne)

Project/Site: 60656629 SMUD Country Acres Solar	_0	ity/County: Placer County		Sampling Da	le:	04/21/21
Applicant/Owner: SMUD			State: CA	Sampling Poi	int:	020 B
Investigator(s): J. Wurlitzer & C. Battaglia	1.1	Section: Township, Range:	20 11N 5E	S	- 10-11-1	
Landform (hillslope, terrace, etc.): Terrace		Local relief (concave, convex	none): none	4	Slope (%):	1%
Subregion (LRR): Mediterranean California (LRR.C)	at:	38,785435	Long:	121.432704	Datum:	NAD 83 _
Soil Map Unit Name: Xerfluvents, hardpan substratum	1		NWI Classification:	n/a	1. 10. 1	
Are climatic / hydrologic conditions on the site typical for this time.	of ye	sar? Yes	No X	(If no, explain in	1 Remarks.)	-
Are Vegetation, Soil X, or Hydrology	5	ignificantly disturbed? Are "M	Normal Circumstant	es present?	Yes x	No
Are Vegetation , Soil or Hydrology	П	aturally problematic? (If nee	ded, explain any ar	swers in Remark	(5.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х	IS NO PERMIT			
Hydric Soil Present?	Yes	No	X	Is the Sampled Area within a Wetland?	Yes	No	X
Wetland Hydrology Present?	Yes	No	X	within a weband:			
Remarks: Upland point paired to we							

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
		_	=	Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species
L		-Total Cove	r	That Are OBL, FACW, or FAC:50% (A/
Sapling/Shrub.Stratum (Plot size;)				Prevalence Index Worksheet: fotal % Cover of: Multiply by:
			-	OBL species 0 x1 - 0
				FACW species 0 x2 = 0
				FAC species 40 x3 = 120
				FACU species 10 x1 = 40
Second and the second		=Total Cove	f	UPL species X5 =
Herb Stratum (Plot size: _1 = 5 ft_)				Column Totals: 75 (A) 285 (B)
Erodium brachycarpum	20%	yes	NL	Prevalence Index - B/A - 3.8
Plantago lanceolata	13%	yes	FAC	
Bromus diandrus	_ 5%		NL	Hydrophytic Vegetation Indicators
Bromus hordeaceous	10%	yes	FACU	Dominance Test is >50%
Festuca perennis	25%	yes	FAC	Prevalence Index is ≤3.0 ¹
Sonchus asper	2%		FAC	Morphological Adaptationd' (Provide supporting
				data in Remarks or on a separate sheet)
	700	-	_	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		- I otal Cove	r	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum	% Cover of	-Total Cove Biolic Crust	r 0%	Hydrophytic Vegetation Present? Yes No X
		1000		

OIL										Sampling	Point:			020-E
Profile Des	cription: (Describe t	o the dept	th needed	to docu	ment the	indicat	or or co	nfirm the a	bsence o	f indicators.)				
Depth	Matrix				ox Featur									
(inches)	Color (moist)	%	Color (mo	oist)	%	Type ¹	Loc ²	Te	dure		Rer	narks		
0-6	7.5YR 3/3	98 2	2.5YR 3/6		2		М	sandy c	ay					
¹ Type: C=Co	oncentration, D=Depletio	n, RM=Redi	uced Matrix,	CS=Cov	ered or Co	ated Sa	nd Grains	Location	PL=Pore	Lining, M=Mat	rix.			
	I Indicators: (Applica	able to all I				ted.)				oblematic Hy	dric Soils"	:		
	iol (A1)				dox (S5)				100 million (1990)	A9) (LRR C)				
	Epipedon (A2)				Matrix (Se					A10) (LRR B)				
	Histic (A3)				ucky Mine				duced Ve					
	gen Sulfide (A4)				eyed Mat					Material (TF2)				
	ied Layers (A5) (LRR (C)			Matrix (F:	· · · · · · · · · · · · · · · · · · ·		Ot	her (Expla	iin in Remark	5)			
	Muck (A9) (LRR D)				ark Surfac									
	ted Below Dark Surfac	e (A11)			Dark Surf)							
	Dark Surface (A12)				pression	s (F8)			³ Indica	ators of hydro	phytic vege	tation an	d	
	Mucky Mineral (S1)		V	ernal Po	ols (F9)					land hydrolog				
_	Gleyed Matrix (S4)								u	nless disturbe	d or proble	matic.		
Restrictive	Layer (if present):													
Type: nor	ne													
Depth (inch	les).										Yes		No	х
	depleted matrix; redox	: features a	nt 2%				н	ydric Soil I	Present?		163			
		: features a	nt 2%				н	ydric Soil I	Present?					
emarks: No	depleted matrix; redox	c features a	nt 2%				н	ydric Soil I	Present?					
emarks: No YDROLOG	depleted matrix; redox	t features a	 at 2%				H	ydric Soil I	Present?					
emarks: No YDROLOG [*] Wetland H	depleted matrix; redox Y ydrology Indicators:			that app	19		H	ydric Soil I		dary Indicator		e require		
emarks: No YDROLOG Wetland H Primary Ind	depleted matrix; redox Y ydrology Indicators: licators (minimum of or		l; check all				H	ydric Soil I		dary Indicator Water Mark	s (2 or more			
emarks: No YDROLOG [*] Wetland H Primary Ind Surfac	depleted matrix; redox Y ydrology Indicators: licators (minimum of or ce Water (A1)		l; check all	alt Crus	(B11)		H	ydric Soil I		Water Mark	s (2 or mor s (B1) (Riv	erine)		
YDROLOG Wetland H Primary Ind Surfac High N	depleted matrix; redox Y ydrology Indicators: licators (minimum of or ce Water (A1) Water Table (A2)		l; check all S B	alt Crus iotic Cru	t (B11) ist (B12)	es (B13		ydric Soil I		Water Mark Sediment D	s (2 or mor ss (B1) (Riv Deposits (B2	erine) 2) (River		
YDROLOG Wetland H Primary Ind Surfac High V Satura	depleted matrix; redox Y ydrology Indicators: licators (minimum of or ce Water (A1) Water Table (A2) tition (A3)	ne required	l; check all S B A	alt Crus iotic Cru quatic Ir	t (B11) ist (B12) ivertebrat)	ydric Soil I		Water Mark Sediment D Drift Depos	s (2 or mor ts (B1) (Riv Deposits (B2 its (B3) (Riv	erine) 2) (River verine)		
YDROLOG Wetland H Primary Ind Surfac High V Satura Water	depleted matrix; redox ydrology Indicators: licators (minimum of or ze Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver	ne required	l; check all S B A H	ialt Crus liotic Cru quatic Ir lydroger	t (B11) ist (B12) ivertebrat i Sulfide (Odor (C1)		Secon	Water Mark Sediment D Drift Depos Drainage P	s (2 or mor ts (B1) (Riv Jeposits (B2 its (B3) (Riv atterns (B1	erine) 2) (River verine) 0)		
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YDROLOG [®] Wetland H Primary Infa Suffa Satura Water Sedim Sedim Sedim	depleted matrix; redox ydrology Indicators: licators (minimum of or se Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver ient Deposits (B2) (No ieposits (B3) (Nonrive	ne required ine) nriverine)	l: check all S A A H P	alt Crus tiotic Cru quatic Ir lydroger exidized tresence	t (B11) ist (B12) ivertebrat Sulfide C Rhizosph of Reduc	Odor (C1 eres alo ced Iron)) ng Living (C4)	J Roots (C3	Secon	Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Crayfish Bu	s (2 or mor ts (B1) (Riv Jeposits (B2 its (B3) (Ri atterns (B1 atterns (B1 atterns (C8)	verine) 2) (River verine) 0) ble (C2)	ine)	
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Primarks: No Primary Ind Primary Ind Surfac High V Satura Water Sedim Drift Surfac Surfac Inund	depleted matrix; redox ydrology Indicators: licators (minimum of or se Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver ent Deposits (B2) (No peposits (B3) (Nonrive se Soil Cracks (B6) ation Visible on Aerial	ne required ine) nriverine) rine)	I; check all S B A H P P R 7) T	alt Crus iotic Cru quatic Ir lydrogen xidized resence tecent In hin Muc	t (B11) ist (B12) wertebrat Sulfide C Rhizosph of Reduc on Reduc & Surface	Odor (C1 eres alo ced Iron tion in T (C7)))) ng Living (C4) illed Soil	J Roots (C3	Secon	Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Crayfish Bu Saturation Shallow Aq	s (2 or mor ts (B1) (Riv beposits (B2 its (B3) (Riv atterns (B1 atterns (B1 atterns (B1 atterns (CB) Visible on A visible on A visible on A	verine) 2) (Riveri verine) 0) ble (C2) verial Ima	ine)	
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YDROLOG Wetland H Primary Ind Surfac High V Satura Vater Sedim Drift D Surfac Incurd Water Field Obse Surface Wa	depleted matrix; redox y ydrology Indicators: licators (minimum of or the Water (A1) Water Table (A2) tition (A3) Marks (B1) (Nonriver leent Deposits (B2) (No peposits (B3) (Nonriver te Soil Cracks (B6) ation Visible on Aerial I -Stained Leaves (B9) rvations: ter Present? Yes e Present? Yes	ine) nriverine) rine) Imagery (B	I; check all S B A H O P R T 7) No X	alt Crus iotic Cru quatic Ir lydrogen exidized resence tecent In hin Muc other (Ex Depth	t (B11) ist (B12) ivertebrat o Sulfide C Rhizosph of Reduc on Reduc k Surface plain in R (inches):	Odor (C1 eres alo ced Iron tion in T (C7) temarks))) ng Living (C4) illed Soil	g Roots (C3) s (C6)	<u>Secon</u>	Water Mark Sediment E Drift Depos Drainage P Dry-Seasor Crayfish Bu Saturation Shallow Aq FAC-Neutra	s (2 or mor ts (B1) (Riv Þeposits (B2) its (B3) (Rir atterns (B1) 1 Water Tal irrows (C8) Visible on A Visible on A Visible on A Juitard (D3) al Test (D5)	erine) 2) (River verine) 0) ole (C2) erial Ima	ine) agery (C	(9)
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YDROLOG Wetland H Primary Ind Surfac High V Satura Satura Drift C Surfac Surface Water Field Obse Surface Water Trield Obse Surface Water Surface Mater Surface Mater Surf	depleted matrix; redox y ydrology Indicators: licators (minimum of or the Water (A1) Water Table (A2) tition (A3) Marks (B1) (Nonriver leent Deposits (B2) (No peposits (B3) (Nonriver te Soil Cracks (B6) ation Visible on Aerial I -Stained Leaves (B9) rvations: ter Present? Yes e Present? Yes	ine) nriverine) rine) Imagery (B	I; check all S B A H O P R 7) No X No X No X	alt Crus iotic Cru quatic Ir lydroger exidized resence eccent In hin Muc other (Ex Depth Depth	(B11) ist (B12) ivertebrat sulfide (Rhizosph of Reduc on Reduc k Surface plain in R (inches): (inches):	Odor (C1 eres alo ced Iron tion in T (C7) Remarks)) ng Living (C4) illed Soil) Roots (C3) s (C6) Wetland	Secon	Water Mark Sediment E Drift Depos Drainage P Dry-Season Crayfish Bu Saturation Shallow Aq FAC-Neutra	s (2 or mor ts (B1) (Riv Þeposits (B2) its (B3) (Rir atterns (B1) 1 Water Tal irrows (C8) Visible on A Visible on A Visible on A Juitard (D3) al Test (D5)	erine) 2) (River verine) 0) ole (C2) erial Ima	ine) agery (C	(9)
YDROLOG Wetland H Primary Ind Surfac High V Satura Water Sedim Drift D Surfac Inund Water Field Obse Surface Wa Water Tabl Saturation I (includes ca ascribe Rec	depleted matrix; redox y ydrology Indicators: licators (minimum of or the Water (A1) Water Table (A2) tition (A3) Marks (B1) (Nonriver aent Deposits (B2) (No peposits (B3) (Nonriver tition Visible on Aerial I -Stained Leaves (B9) rvations: ther Present? Yes Present? Yes Present? Yes pillary fringe) orded Data (stream ga	ine) nriverine) rine) Imagery (B	I; check all S B A H O P R 7) No X No X No X	alt Crus iotic Cru quatic Ir lydroger exidized resence eccent In hin Muc other (Ex Depth Depth	(B11) ist (B12) ivertebrat sulfide (Rhizosph of Reduc on Reduc k Surface plain in R (inches): (inches):	Odor (C1 eres alo ced Iron tion in T (C7) Remarks)) ng Living (C4) illed Soil) Roots (C3) s (C6) Wetland	Secon	Water Mark Sediment E Drift Depos Drainage P Dry-Season Crayfish Bu Saturation Shallow Aq FAC-Neutra	s (2 or mor ts (B1) (Riv Þeposits (B2) its (B3) (Rir atterns (B1) 1 Water Tal irrows (C8) Visible on A Visible on A Visible on A Juitard (D3) al Test (D5)	erine) 2) (River verine) 0) ole (C2) erial Ima	ine) agery (C	(29)
YDROLOG Wetland H Primary Ind Surfac High V Satura Water Sedim Drift D Surfac Inund Water Field Obse Surface Wa Water Tabl Saturation I (includes ca ascribe Rec	depleted matrix; redox ydrology Indicators: licators (minimum of or the Water (A1) Water Table (A2) ation (A3) Marks (B1) (Nonriver tent Deposits (B2) (No eposits (B3) (Nonriver tes Soil Cracks (B6) ation Visible on Aerial I -Stained Leaves (B9) rvations: ter Present? Yes Present? Yes Present? Yes present? Yes present? Yes present? Yes present? Yes present? Yes present? Yes	ine) nriverine) rine) Imagery (B	I; check all S B A H O P R 7) No X No X No X	alt Crus iotic Cru quatic Ir lydroger exidized resence eccent In hin Muc other (Ex Depth Depth	(B11) ist (B12) ivertebrat sulfide (Rhizosph of Reduc on Reduc k Surface plain in R (inches): (inches):	Odor (C1 eres alo ced Iron tion in T (C7) Remarks)) ng Living (C4) illed Soil) Roots (C3) s (C6) Wetland	Secon	Water Mark Sediment E Drift Depos Drainage P Dry-Season Crayfish Bu Saturation Shallow Aq FAC-Neutra	s (2 or mor ts (B1) (Riv Þeposits (B2) its (B3) (Rir atterns (B1) 1 Water Tal irrows (C8) Visible on A Visible on A Visible on A Juitard (D3) al Test (D5)	erine) 2) (River verine) 0) ole (C2) erial Ima	ine) agery (C	(29)
YDROLOG Wetland H Primary Ind Surfac High V Satura Water Sedim Drift D Surfac Inund Water Field Obse Surface Wa Water Tabl Saturation I (includes ca ascribe Rec	depleted matrix; redox y ydrology Indicators: licators (minimum of or the Water (A1) Water Table (A2) tition (A3) Marks (B1) (Nonriver aent Deposits (B2) (No peposits (B3) (Nonriver tition Visible on Aerial I -Stained Leaves (B9) rvations: ther Present? Yes Present? Yes Present? Yes pillary fringe) orded Data (stream ga	ine) nriverine) rine) Imagery (B	I; check all S B A H O P R 7) No X No X No X	alt Crus iotic Cru quatic Ir lydroger exidized resence eccent In hin Muc other (Ex Depth Depth	(B11) ist (B12) ivertebrat sulfide (Rhizosph of Reduc on Reduc k Surface plain in R (inches): (inches):	Odor (C1 eres alo ced Iron tion in T (C7) Remarks)) ng Living (C4) illed Soil) Roots (C3) s (C6) Wetland	Secon	Water Mark Sediment E Drift Depos Drainage P Dry-Season Crayfish Bu Saturation Shallow Aq FAC-Neutra	s (2 or mor ts (B1) (Riv Þeposits (B2) its (B3) (Rir atterns (B1) 1 Water Tal irrows (C8) Visible on A Visible on A Visible on A Juitard (D3) al Test (D5)	erine) 2) (River verine) 0) ole (C2) erial Ima	ine) agery (C	(29)
YDROLOG Wetland H Primary Ind Surfac High V Satura Water Sedim Drift D Surfac Inund Water Field Obse Surface Wa Water Tabl Saturation I (includes ca ascribe Rec	depleted matrix; redox y ydrology Indicators: licators (minimum of or the Water (A1) Water Table (A2) tition (A3) Marks (B1) (Nonriver aent Deposits (B2) (No peposits (B3) (Nonriver tes Soil Cracks (B6) ation Visible on Aerial I -Stained Leaves (B9) rvations: ther Present? Yes Present? Yes Present? Yes pillary fringe) orded Data (stream ga	ine) nriverine) rine) Imagery (B	I; check all S B A H O P R 7) No X No X No X	alt Crus iotic Cru quatic Ir lydroger exidized resence eccent In hin Muc other (Ex Depth Depth	(B11) ist (B12) ivertebrat sulfide (Rhizosph of Reduc on Reduc k Surface plain in R (inches): (inches):	Odor (C1 eres alo ced Iron tion in T (C7) Remarks)) ng Living (C4) illed Soil) Roots (C3) s (C6) Wetland	Secon	Water Mark Sediment E Drift Depos Drainage P Dry-Season Crayfish Bu Saturation Shallow Aq FAC-Neutra	s (2 or mor ts (B1) (Riv Þeposits (B2) its (B3) (Rir atterns (B1) 1 Water Tal irrows (C8) Visible on A Visible on A Visible on A Juitard (D3) al Test (D5)	erine) 2) (River verine) 0) ole (C2) erial Ima	ine) agery (C	(9)
YDROLOG Wetland H Primary Ind Surfac High V Satura Water Sedim Drift D Surfac Inund Water Field Obse Surface Wa Water Tabl Saturation I (includes ca ascribe Rec	depleted matrix; redox y ydrology Indicators: licators (minimum of or the Water (A1) Water Table (A2) tition (A3) Marks (B1) (Nonriver aent Deposits (B2) (No peposits (B3) (Nonriver tes Soil Cracks (B6) ation Visible on Aerial I -Stained Leaves (B9) rvations: ther Present? Yes Present? Yes Present? Yes pillary fringe) orded Data (stream ga	ine) nriverine) rine) Imagery (B	I; check all S B A H O P R 7) No X No X No X	alt Crus iotic Cru quatic Ir lydroger exidized resence eccent In hin Muc other (Ex Depth Depth	(B11) ist (B12) ivertebrat sulfide (Rhizosph of Reduc on Reduc k Surface plain in R (inches): (inches):	Odor (C1 eres alo ced Iron tion in T (C7) Remarks)) ng Living (C4) illed Soil) Roots (C3) s (C6) Wetland	Secon	Water Mark Sediment E Drift Depos Drainage P Dry-Season Crayfish Bu Saturation Shallow Aq FAC-Neutra	s (2 or mor ts (B1) (Riv Þeposits (B2) its (B3) (Rir atterns (B1) 1 Water Tal irrows (C8) Visible on A Visible on A Visible on A Juitard (D3) al Test (D5)	erine) 2) (River verine) 0) ole (C2) erial Ima	ine) agery (C	(9)
YDROLOG Wetland H Primary Ind Surfac High V Satura Water Sedim Drift D Surfac Inund Water Field Obse Surface Wa Water Tabl Saturation I (includes ca ascribe Rec	depleted matrix; redox y ydrology Indicators: licators (minimum of or the Water (A1) Water Table (A2) tition (A3) Marks (B1) (Nonriver aent Deposits (B2) (No peposits (B3) (Nonriver tes Soil Cracks (B6) ation Visible on Aerial I -Stained Leaves (B9) rvations: ther Present? Yes Present? Yes Present? Yes pillary fringe) orded Data (stream ga	ine) nriverine) rine) Imagery (B	I; check all S B A H O P R 7) No X No X No X	alt Crus iotic Cru quatic Ir lydroger exidized resence eccent In hin Muc other (Ex Depth Depth	(B11) ist (B12) ivertebrat sulfide (Rhizosph of Reduc on Reduc k Surface plain in R (inches): (inches):	Odor (C1 eres alo ced Iron tion in T (C7) Remarks)) ng Living (C4) illed Soil) Roots (C3) s (C6) Wetland	Secon	Water Mark Sediment E Drift Depos Drainage P Dry-Season Crayfish Bu Saturation Shallow Aq FAC-Neutra	s (2 or mor ts (B1) (Riv Þeposits (B2) its (B3) (Rir atterns (B1) 1 Water Tal irrows (C8) Visible on A Visible on A Visible on A Juitard (D3) al Test (D5)	erine) 2) (River verine) 0) ole (C2) erial Ima	ine) agery (C	(9)

Project/Site:	60656629 SMUD	Country Acres Solar	-	City/County: Placer County		Sampling Da	te: 04/21/21
Applicant/Owner: Investigator(s):	SMUD) Wurkluser, C. Battag	ka, O. Roull & S. Constrains:	0	Section, Township, Range	State: CA 20 11N 5E	Sampling Po	int: 021-A
Landform (hillstop	e, terrace, etc.):	Tenace		Local relief (concave, conve	x, none): concave	e	Slope (%): 1%
Subregion (LRR);	Mediterranean Ca	lifornia (LRR C)	Lat:	30,78814853	Long:	121.4326891	Datum: NAD 83
Soil Map Unit Nan	ne: San Joaq	in Cometa sandy loan	IS, 1-5% S	lopes	NWI Classificatio	on: n/a	1.0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
Are climatic / hydr	ologic conditions o	in the site typical for thi	s time of y	/ear? Yes	No X	(If no, explain it	n Remarks.)
Are Vegetation	, Soil	, or Hydrology		significantly disturbed? Are	Normal Groumst	ances' present?	Yes X No
Are Vegetation	. Soil	, or Hydrology	_	naturally problematic? (If ne	eded, explain any	answers in Remail	(5.)

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

Hydrophytic Vegetation Present? Hydric Soll Present? Wettand Hydrology Present?	Yes Yes Yes	X X	No No No	- Is the Sampled Area - within a Wetland?	Yes _	x	No
	season; c 20 to Apri	only 4. 1 08, 2	92 Inches of ra 021, located a	in for the rain year to date, when	normal is 35	inches I	to the east and a fence line to the west for the County (Placer County rain gaug Creek). NOTE: Wetland #22 is

Tree Stratum (Plot size:)	Absolute 34 Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
				That Are OBL, FACW, or FAC: 1 (A)
	=	_		Total Number of Dominant Species Across All Strata: <u>1</u> (B)
	-	=Total Cove	-	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
	-		-	OBL species x1 =
	10 mm	_		FACW species x2 =
				FAC species x3 =
		-		FACU species x4
E O TO CARLON		=Total Cove		UPL speciesx5 =
Herb Stratum (Plot size: _r = 10 ft_)				Column Totals:(A)(B)
Festuca perennis	50%	Yes	FAC	Prevalence Index B/A
Tritilera hyacinthina	10%		FAC	
. Holocarpha virgata	15%	<u></u>	NL	Hydrophytic Vegetation Indicators:
Festuca [Vulpia] bromoides	10%		FACU	X Dominarice Test is >50%
Erodium botrys	2%		FACU	Prevalence Index is ≤3.0 ¹
. Bromus hordeaceous	3%		FACU	Morphological Adaptationd ³ (Provide supporting
Hordeum mannum	1%		FAC	data in Remarks or on a separate sheet)
. Elymus caput medusae	3%	_	NL	Problematic, Hydrophytic Vegetation' (Explain)
Woody Vine Stratum (Plot size:)	94%	=Total Cove		³ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic
		Total Cover Biolic Criest	0%	Vegetation Present? Yes X No

Remarks Remarks Remarks Remarks Remarks Remarks Remarks RR C) (LRR B) R8) R1(TF2)	
nanganese masses , M-Matrix. natic Hydric Soils ³ : .RR C) (LRR B) 18) al (TF2)	
nanganese masses , M-Matrix. natic Hydric Soils ³ : .RR C) (LRR B) 18) al (TF2)	
, M=Matrix. natic Hydric Soils ³ : .RR C) (LRR B) 18) al (TF2)	
, M=Matrix. natic Hydric Soils ³ : .RR C) (LRR B) 18) al (TF2)	
, M=Matrix. natic Hydric Soils ³ : .RR C) (LRR B) 18) al (TF2)	
natic Hydric Soils ³ : .RR C) (LRR B) 18) al (TF2)	
natic Hydric Soils ³ : .RR C) (LRR B) 18) al (TF2)	
natic Hydric Soils ³ : .RR C) (LRR B) 18) al (TF2)	
natic Hydric Soils ³ : .RR C) (LRR B) 18) al (TF2)	
natic Hydric Soils ³ : .RR C) (LRR B) 18) al (TF2)	
natic Hydric Soils ³ : .RR C) (LRR B) 18) al (TF2)	
RR C) (LRR B) 18) al (TF2)	
(LRR B) 18) al (TF2)	
18) al (TF2)	
al (TF2)	
5	
Remarks)	
f hydrophytic vegetation and	
ydrology must be present,	
listurbed or problematic.	
Yes X No	»
t is 3 inches thick and starts ju	IST DEIOW
ndicators (2 or more required)	
er Marks (B1) (Riverine)	
iment Deposits (B2) (Riverine	9
Deposits (B3) (Riverine)	
nage Patterns (B10)	
Season Water Table (C2)	
fish Burrows (C8)	(0.0)
Iration Visible on Aerial Image	ry (C9)
llow Aquitard (D3) 2-Neutral Test (D5)	
-Neutral Test (D5)	
sent? Ves X Nr	
	·
	esent? Yes <u>X</u> No

Project/Site:	60656629 SML	D Country Acres Solar	0	ity/County: Placer County		Sampling Da	te:	04/21/21
	SMUD J. Wurlitzler: C. Batt	aglia, O. Routi & B. Christians	on	Section, Township, Range	State: CA 20 11N 5E	Sampling Po	int:	021 B
Landform (hillslope	e, terrace, etc.):	Terrace	-	Local relief (concave, conve	x, none): none		Stope (%):	0-1%
Subregion (LRR):	Mediterranean	California (LRR C)	Lat:	38.7880929	Lorig:	-121.4327074	Datum	NAD 83
Soil Map Unit Nam	ie: San Joa	quin-Cométa sandy loa	ns, 1-5% sl	opes	NWI Classification:	n/a	Libba i	
Are climatic / hydro	ologic condition:	s on the site typical for th	is time of y	ear? Yes	No X	(If no, explain in	Remarks.)
Are Vegetation	. Soil	, or Hydrology		significantly disturbed? Are	Normal Circumstant	ces" present?	Yes X	No
Are Vegetation	, Soil	, or Hydrology		naturally problematic? (If ne	eded, explain any ar	swers in Remark	(s.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes	×	No	x	Is the Sampled Area within a Wetland?	Yes	No	x
Remarks: Upland point paired to wet inches for the County (Placer County Pleasant Grove Creek).	land #21.							

	Total Cover		That Are OBL, FACW, or FAC: 0 (A Total Number of Dominant Species Across All Strata: 1 (R Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A	3)
	Total Cover		Species Across All Strata:(f Percent of Dominant Species	1
-	Total Cover		Percent of Dominant Species	1
-	Total Cover	c		-
-	Total Cover	E.	That Are OBL, FACW, of FAC: 0% (A	
				VB)
			Prevalence Index Worksheet:	
		_	Total % Cover of: Multiply by:	
_			OBL speciesx1 =	
_				
	- Total Cover	t	UPL speciesx5 =	
			a structure of the stru	5)
	Yes		Prevalence Index = B/A =	
5%		FACU		_
0%	1	NL	Hydrophytic Vegetation Indicators:	
~		NL	Dominance Test is >50%	
	(FAG	Prevalence Index is ≤3.01	
1%		FAC	Morphological Adaptationd ¹ (Provide supporting	
1%	· · · · · · · · · · · · · · ·	NL	data in Remarks or on a separate sheet)	
			Problematic Hydrophytic Vegetation ¹ (Explain)	
00%	=Total Cover	r		
			Indicators of hydric soil and wetland hydrology must	
			be present, unless disturbed or problematic.	
			the designed of	
	-Total Cover			
ver of			Present? Yes No X	
	1% 2% 1% 1%	0% Yes 5% 0% 2% 1% 1% 1% 00% = Total Cover	5% FACU 0% NL 1% FAC 2% FAC 1% FAC 1% NL 00% = Total Cover	FACW species x2 FAC species x3 = FAC species x3 = FACU species x4 = OW6 Yas FACU Prevalence Index + 8/A = OW6 Yas FACU Prevalence Index + 8/A = OW6 NL Hydrophytic Vegetation Indicators: OW6 NL Dominance Test is >50% FACU Prevalence Index is ≤3.0 ¹ Dominance Test is >50% FAC Prevalence Index is ≤3.0 ¹ 1% FAC Problematic Hydrophytic Vegetation1* (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation1* (Explain) OD% *Total Cover Hydrophytic Vegetation

rofile De	southusin (pessines i									
epth	Matrix			Redox Feat	ures					
iches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remar	ks
3	10YR 4/3	95	5YR 5/6	5	С	RC	loam			
8	7.5YR 4/3	50	5YR 4/6	30	С	М	loamy sand			
			5YR 3/2	20	С	М				
						10.3	2			
/pe: C=C	Concentration, D=Depletion	, RM=R	auced Matrix, Ca	s=Covered or	Coated Sa	and Grains	. Location: PL=P	ore Lining, M=Mat	IIIX.	
dric So	il Indicators: (Applica	ble to a	II LRRs, unless	s otherwise	noted.)		Indicators for	Problematic Hy	dric Soils ³ :	
Histo	sol (A1)		Sand	dy Redox (S	5)		1 cm Muc	k (A9) (LRR C)		
Histic	: Epipedon (A2)			ped Matrix (2 cm Muc	k (A10) (LRR B))	
-	(Histic (A3)			ny Mucky Mi				Vertic (F18)		
-	ogen Sulfide (A4)			ny Gleyed M)		nt Material (TF2)		
-	fied Layers (A5) (LRR C	.)		eted Matrix			Other (Ex	plain in Remark	s)	
	Muck (A9) (LRR D)			ox Dark Surf						
	eted Below Dark Surface) (A11)		eted Dark Si		7)				
	Dark Surface (A12)			ox Depressio				licators of hydro		
	y Mucky Mineral (S1)		Vern	al Pools (F9	9		v	vetland hydrolog		
	y Gleyed Matrix (S4)							unless disturbe	d or problema	tic.
strictiv	a laver (if present):									
pe: <u>no</u> pth (inc	hes):	Ionross	ion subject to pe	anding		Ну	dric Soil Presen	t?	Yes	No
rpe: <u>no</u> epth (inc	ne	depress	ion subject to po	onding		Ну	dric Soil Presen	t?	Yes	No
pe: <u>no</u> pth (inc arks: Sa	ne hes): imple is not in a closed o	depress	ion subject to po	onding		Ну	dric Soil Presen	17	Yes	No
pe: <u>no</u> pth (inc arks: Sa ROLOG	ne hes): imple is not in a closed o	depress	ion subject to po	onding		Ну	dric Soil Presen	t?	Yes	No
pe: <u>no</u> pth (inc arks: Sa ROLOG etland F	ne hes):					Ну				
pe: <u>no</u> pth (inc arks: Sa ROLOG etland F mary In	ne hes): imple is not in a closed o sy lydrology Indicators: dicators (minimum of on		ed; check all that	at apply)		ну		ondary Indicator	s (2 or more re	equired)
pe: <u>no</u> pth (inc arks: Sa ROLOG etland F mary In _ Surfa	ne hes): imple is not in a closed of ty lydrology Indicators: dicators (minimum of on ice Water (A1)		ed; check all tha	at apply) Crust (B11)	2)	ну		ondary Indicator Water Mark	s (2 or more re	equired)
pe: <u>no</u> pth (inc arks: Sa ROLOG etland H mary In _ Surfa _ High	ne hes): imple is not in a closed o ry lydrology Indicators: dicators (minimum of on		ed; check all that	at apply) Crust (B11) c Crust (B12				ondary Indicator Water Mark Sediment D	s (2 or more re s (B1) (Riveri Jeposits (B2) (equired) ine) Riverine)
pe: <u>no</u> pth (inc arks: Sa ROLOG etland F mary In _ Surfa _ High _ Satur	ne hes):	e requir	ed; check all the Salt (Biotic Aqua	at apply) Crust (B11)	rates (B13))		ondary Indicator Water Mark Sediment D Drift Deposi	s (2 or more re	equired) ine) Riverine)
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US Army Corps of Engineers

Arid West - Version 2.0

Project/Site: 60656629 SMUD Country Acres Solar	c	ity/County: Placer County		Sampling Date	2: 04/23/21
Applicant/Owner: SMUD			State: CA	Sampling Poin	1: 026 A
Investigator(s): J. Wurlitzer, C. Battagila, & B. Christianson		Section, Township, Range:	20 11N 5E		
Landform (hillstope, terrace, etc.): Terrace		Local relief (concave, convex	, none); concave	SI	lope (%): 2%
Subregion (LRR): Mediterranean California (LRR C)	Lat-	38,798197	Long:	121.432802	Datum: NAD 83
Soil Map Unit Name: Xerfluvents, hardpan substratum			NWI Classification:	n/a	
Are climatic / hydrologic conditions on the site typical for this tin	ne of y	ear? Yes	No X	(If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology		significantly disturbed? Are "N	lormal Circumstan	ces present? Y	es X No
Are Vegetation, Soil, or Hydrology		naturally problematic? (If nee	ded, explain any a	nswers in Remarks	i.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X X	No No No	is the Sampled Area within a Wetland?	Yes _	x	No
	al is 35 ind	ches lo	r the County				s for the season; only 4.92 Inches of ran ber 1, 2020 to April 08, 2021, located

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL_FACW. or FAC:
				Total Number of Dominant
	=			Species Across All Strata: 2 (B)
	_			Percent of Dominant Species
		Total Cove	at	That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
				OBL species x1 =
				FACW species x2
	(T	FAC speciesX3 =
	-			FACU speciesx4 =
	_	Total Cove	sc.	UPL speciesx5
Herb Stratum (Plot size: _r = 10 ft_)			and a the	Column Totals:(A)(B)
Paspalum distichum	30%	Yes	FACW	Prevalence Index = B/A =
Eleocharis macrostachya (palustris)	20%	Yes	OBL	
Typha latifolia	10%		OBL	Hydrophytic Vegetation Indicators:
Lythrum hyssopitolium			OBL	X Dominance Test is >50%
Vicia villosa ssp. varia	1%		NL	Prevalence Index is ≤3.01
Cyperus eragrostis	1%		FACW	Morphological Adaptationd ¹ (Provide supporting
Rumex crispus	1%		FAC	data in Remarks or on a separate sheet)
Juncus effusus	1%		FACW	
Festuca perennis [Lolium perenne]	10%		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
	80%	-Total Cove	1	
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must be present, unless distuibed or problematic.
	_	Total Cove		Hydrophytic Vegetation
% Bare Ground in Herb Stratum 20%	% Cover of	Biolic Crust	0%	Present? Yes X No

epth	Matrix			Redox Fe	eatu	Ires						
iches)	Color (moist)	%	Color (m			Type ¹	Loc ²	Texture	1		Remarks	
3	10YR 3/2	97	10YR 3/6		3	C	M	loam		-		
11	10YR 4/2	25	5YR 4/6		55	С	М	silty clay loa	m			
	а.	_	7.5YR 2.5/	1	20	С	М	<u>.</u>		manganese	masses	
		=			=	=	\equiv					
	Concentration, D=Depletion						and Grains.				5	
	oil Indicators: (Applica	bletoa								lematic Hydrid	: Soils ³ :	
-	osol (A1)			Sandy Redox) (LRR C)		
	c Epipedon (A2)			Stripped Matri						10) (LRR B)		
_	k Histic (A3)			_oamy Mucky					ed Vertie			
_	ogen Sulfide (A4)	~		oamy Gleye			1			aterial (TF2)		
-	ified Layers (A5) (LRR (-)		Depleted Mat				Other	(Exprain	in Remarks)		
	Muck (A9) (LRR D)	0 (811)		Redox Dark S Depleted Darl			7)					
	eted Below Dark Surface	e (ATT)		Redox Depres			0					
	k Dark Surface (A12)			Vernal Pools		1.2		3		rs of hydrophyti		
	ty Mucky Mineral (S1) ty Gleyed Matrix (S4)		^	remai Pools	(гэ)					nd hydrology mu ss disturbed or		
strictiv	re Layer (if present):						_				<u>.</u>	
r that is	one thes): closed depressions sub 5 cm (2 inches) or more in a layer that is 8 inche	thick ar	nd starts at a	a depth ≤10 c	m (4	4 inches)	prominent from the s	oil surface; in	trations	occurring as so		
arks: In that is	closed depressions sub 5 cm (2 inches) or more	thick ar	nd starts at a	a depth ≤10 c	m (4	4 inches)	prominent from the s	redox concer oil surface; in	trations	occurring as so	oft masses or	pore lining
arks: In that is masses	ches):	thick ar	nd starts at a	a depth ≤10 c	m (4	4 inches)	prominent from the s	redox concer oil surface; in	trations	occurring as so	oft masses or	pore lining
arks: In that is nasses ROLO(etland I	thes):	thick ar	nd starts at a and starts at	a depth ≤10 ci t a depth of 3	m (4	4 inches)	prominent from the s	redox concen ioil surface; in rface.	trations the sam	occurring as so iple, 75% redox	oft masses or concentratio	pore lining ns occurri
arks: In that is masses ROLOG etland I	thes):	thick ar	nd starts at a and starts at red; check a	a depth ≤10 ci t a depth of 3 Il that apply)	m (4 incl	4 inches)	prominent from the s	redox concen ioil surface; in rface.	trations the sam	occurring as so iple, 75% redox ry Indicators (2	oft masses or c concentratio	pore lining ns occurri
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ROLOC ROLOC ettand l imary Ir Surfa Surfa Surfa Surfa Drift Surfa Sur	chosel depressions sub 5 cm (2 inches) or more in a layer that is 8 inche 35 cm (2 inches) or more in a layer that is 8 inche 37 Hydrology Indicators: ndicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) ar Marks (B1) (Nonriver ment Deposits (B2) (Non Deposits (B3) (Nonriver ment Deposits (B2) (Non Deposits (B3) (Nonriver ace Soil Cracks (B6) dation Visible on Aerial I ar-Stained Leaves (B9) servations: /ater Present? Yes ple Present? Yes ple Present? Yes papillary fringe) accorded Data (stream ga	ithick ai s thick : ne require nriverin magery 	red; check a and starts at red; check a S A _A	a depth ≤10 ci t a depth of 3 II that apply) Salt Crust (B1 Biotic Crust (B1 Biotic Crust (B1 Biotic Crust (B1 Aquatic Invert Hydrogen Sul Dxidized Rhiz Presence of F Recent Iron R Chin Muck Su Dther (Explain Depth (inch Depth (inch Depth (inch I, aerial photo	n (4 incl incl 1) 312) ebra fide cosp teos teos teos teos teos teos teos teos	4 inches) hes from) ates (B13 Odor (C oheres ald uced Iron uced Iron uced Iron iction in T ce (C7) Remarks 	a)))))))))))))))))))	redox concer oil surface; in rface. Roots (C3) (C6) - - - - - - - - - - - - - - - - - - -	Seconda Seconda I I I I I I I I I I I I I I I I I I I	occurring as so pple, 75% redox ry Indicators (2 Water Marks (B Sediment Depo Drift Deposits (f Drainage Patter Dry-Season Wa Crayfish Burrow Saturation Visib Shallow Aquitar FAC-Neutral Te Present?	or more requi (1) (Riverine) (1) (Ri	pore lining ns occurrit red) prine)) nagery (C

Project/Site: 60656629 SMUD Country Acres Solar Ci	ty/County: Placer County		Sampling Date	. 04/23/21
Applicant/Owner: SMUD		State: CA	Sampling Point	t: <u>026-B</u>
Investigator(s); J. Wurlitzer, C. Battaglia, & B. Christianson	Section, Township, Range:	20 11N 5E	Annual and the liter	Y
Landform (hillstope, terrace, etc.): Terrace	Local relief (concave, convex	none): none	SI	ope (%): 2%
Subregion (LRR): Mediterranean California (LRR C) Lat:	38,79109	Long:	121.442648	Datum: NAD 83
Soil Map Unit Name: Cometa-Fiddyment complex, 1-5% slopes		NWI Classification:	n/a	
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes	No X	(If no, explain in I	Remarks.)
Are Vegetation, Soil X, or Hydrology si	gnificantly disturbed? Are "N	lormal Circumstant	es present? Ye	s X No
Are Vegetation, Soil, or Hydrology na	aturally problematic? (If nee	ded, explain any ar	swers in Remarks	0

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No	x	is the Sampled Area	Yes	No	x
Wetland Hydrology Present?	Yes	No	X	within a Wetland?			
Remarks: Upland point paired to we							
only 4.92 Inches of rain for the rain y April 08, 2021, located about 3 miles					county rain gauge	#1/8b, collect	ed from October 1, 2020 to

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
				(A)
	\equiv	_	-	Total Number of Dominant Species Across All Strata: 2 (B)
		Total Cove		Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
	-			OBL speciesx1 =
		-		FACW species x2
	÷;	-		FAC species x3 =
				FACU species x4 =
		Total Cove		UPL species x5
Herb Stratum (Plot size: _ r = 10 ft_)				Column Totals:(A)(B)
Cynodon dactylon	40%	Yes	FACU	Prevalence Index = B/A =
Vicia villosa ssp. varia	35%	Yes	NL	
Bromus diandrus	15%		NL	Hydrophytic Vegetation Indicators:
Cypenis eragrostis	1%		FACW	Dominance Test is >50%
Bromus hordeaceous	3%		FACU	Prevalence Index is ≤3.01
Trifolium hinum	2%		NL	Morphological Adaptationd ¹ (Provide supporting
Festuca perennis [Lohum perenne]	2%		FAC	data in Remarks or on a separate sheet)
Geranium dissectum	4%		NL	and a set of the set
	_			Problematic Hydrophytic Vegetation ¹ (Explain)
	102%	-Total Cove	r	
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must be present, unless distuibed or problematic.
% Bare Ground in Herb Stratum 0%	at Coursed	Total Cove Biolic Crust	0%	Hydrophytic Vegetation Present? Yes No X
75 Date Ground in Fight Strattin 075	20 COVEL OF	COULT CLUST	1/20	Present? res NO A

onth	Matrice			a day Frat	IFOO						
epth	Matrix	01		edox Feat		1 2	Turks			Demerke	
nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	re	<u></u>	Remarks	
1.5	5YR 4/2	99	5YR 4/6			M	loam				
5-7.5	5YR 3/3	82	2.5YR 5/8	3	C	M	clay loam				
		<u> </u>	5YR 3/2	3	с	M			manganese r	masses	
		\equiv		=	=	\equiv		_			
/pe: C=0	Concentration, D=Depletio	n, RM=R	educed Matrix, CS=	Covered or	Coated Sa	and Grains.	² Location: P	PL=Pore Lir	ning, M=Matrix.		
/dric Sc	oil Indicators: (Applica	able to a	all LRRs, unless	otherwise	noted.)		Indicators	for Prob	lematic Hydric	: Soils ³ :	
	osol (A1)			Redox (S) (LRR C)		
-	c Epipedon (A2)			ed Matrix (0) (LRR B)		
	k Histic (A3)			y Mucky Mi)	_	ced Vertic	Standbarran 10		
-	ogen Sulfide (A4)			Gleyed M					terial (TF2)		
_	ified Layers (A5) (LRR	C)		ted Matrix					in Remarks)		
-	Muck (A9) (LRR D)	1		Dark Surf			_		,		
	eted Below Dark Surfac	e (A11)		ted Dark S		7)					
	k Dark Surface (A12)	- en of		Depressio				3.		10.100	
_	ty Mucky Mineral (S1)			Pools (F9						ic vegetation an	nd
	ly Gleyed Matrix (S4)			1 0013 (1 0	<i>,</i>				d hydrology mu ss disturbed or		
strictiv	e Layer (if present):										
epth (inc	one	to have (depleted matrix; h	owever, to	qualify fo	1	dric Soil Pre		22	es	No) k.
pth (inc	one :hes):	to have (depleted matrix; h	owever, to	qualify fo	1			22		
arks: T	one ches): op 1.5 inches appears t	to have (depleted matrix; h	owever, to	qualify fo	1			22		
npth (inc arks: T ROLOC etland F	one ihes): op 1.5 inches appears I op 1.5 inches appears I SY SY Hydrology Indicators:				qualify fo	1	leted Matrix,	the layer	must be 2 inch	nes or more thic	k.
ROLOC etland F	one thes): op 1.5 inches appears t op 1.5 inches appears t SY SY Hydrology Indicators: Idicators (minimum of of		red; check all that	apply)	qualify fo	1	leted Matrix,	the layer	must be 2 inch	or more require	k.
ROLOC etland H mary In Surfa	one thes):		red; check all that Salt C	apply) rust (B11)		1	leted Matrix,	the layer Secondar	must be 2 inch y Indicators (2 Vater Marks (B	or more thic or more require 1) (Riverine)	
ROLOC etland H _ Surfa _ High	one thes):		red; check all that Salt C Biotic	apply) rust (B11) Crust (B12	2)	r F3 - Dep	leted Matrix,	Secondar Secondar	must be 2 inch y Indicators (2 Vater Marks (B Sediment Depo	or more require (1) (Riverine) sits (B2) (River	
ROLOG etland H Surfa J Surfa J Satu	one thes): op 1.5 inches appears to SY Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3)	ne requii	red; check all that Salt C Biotic Aquat	apply) rust (B11) Crust (B12 ic Invertebr	?) rates (B13	r F3 - Dep	leted Matrix,	Secondar Secondar Secondar	must be 2 inch <u>y Indicators (2</u> Vater Marks (B Sediment Depo Jrift Deposits (f	or more thic or more require (1) (Riverine) sits (B2) (River 33) (Riverine)	
ROLOC etland H Surfa Surfa Satu Wate	one thes): op 1.5 inches appears to SY Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver	ne requii rine)	red; check all that Salt C Biotic Aquat Hydro	apply) rust (B11) Crust (B12 ic Invertebr gen Sulfide	?) Parates (B13 e Odor (C	r F3 - Dep 3) 1)	leted Matrix,	Secondar Secondar Secondar	must be 2 inch y Indicators (2 Vater Marks (B Sediment Depo Drift Deposits (F Drainage Patter	or more thic or more require (1) (Riverine) sits (B2) (River 33) (Riverine) ms (B10)	
ROLOC ROLOC etland F imary In Surfa High Satu Wate Sedin	one thes): op 1.5 inches appears to SY Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriver ment Deposits (B2) (No	ne requii rine) nriverin	red; check all that Salt C Biotic Aquat Hydro Ie) Oxidiz	apply) rust (B11) Crust (B12 ic Invertebri gen Sulfide gen Sulfide	2) Parates (B13 e Odor (C pheres alo	r F3 - Dep 3) 1) ong Living	leted Matrix,	Secondar Secondar Secondar S S S S S S S S S S S S S S S S S S S	must be 2 inch y Indicators (2 Vater Marks (B Sediment Depo Drift Deposits (E Drainage Patter Drainage Patter	or more require (1) (Riverine) sits (B2) (River 33) (Riverine) ms (B10) iter Table (C2)	
ROLOC etland F mary In Surfa High Satu Satu Satu Drift	one thes): op 1.5 inches appears to inches appears to inc	ne requii rine) nriverin	red; check all that Salt C Biotic Aquat Hydro Didi Prese	apply) rust (B11) Crust (B12 ic Inverteb gen Sulfide red Rhizosj nce of Red	2) rates (B13 e Odor (C pheres alo	s) 1) 1) (C4)	Roots (C3)	Secondar V C C C C C C C C C C C C	must be 2 inch y Indicators (2 Vater Marks (B Sediment Depo Drift Deposits (E Drainage Patter Drainage Patter Dry-Season Wa Crayfish Burrow	or more thic or more require (1) (Riverine) sits (B2) (River 33) (Riverine) ms (B10) ter Table (C2) vs (C8)	k. ed) ine)
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ROLOC etland F Surfa Surfa Satu Satu Satu Satu Satu Satu Satu Sat	one thes): op 1.5 inches appears to inches appears to inc	ne requii rine) nriverin rine)	red; check all that Salt C Biotic Hydro ie) Oxidiz Prese Recer (B7) Thin M	apply) rust (B11) Crust (B12 ic Invertebi gen Sulfide ded Rhizosj nce of Red it Iron Red fuck Surfa	2) rates (B13 e Odor (C pheres ald luced Iron uction in 1 ce (C7)	ar F3 - Dep 3) 1) ong Living (C4) Filled Soils	Roots (C3)	Secondar Secondar Secondar S C C S S S S S S	must be 2 inch y Indicators (2 Vater Marks (B Sediment Depo Drift Deposits (E Drainage Patter Drainage Patter Dry-Season Wa Crayfish Burrow	or more require (1) (Riverine) sits (B2) (River 3) (Riverine) ms (B10) ater Table (C2) /s (C8) ele on Aerial Ima d (D3)	k. ed) ine)
pth (inc arks: T ROLOC ettand I mary In Surfa Satu Vate Sedii Surfa Surf	one thes):	ne requii rine) nriverin rine)	red; check all that Salt C Biotic Hydro ie) Oxidiz Prese Recer (B7) Thin M	apply) rust (B11) Crust (B12 ic Invertebi gen Sulfide red Rhizosj nce of Red it Iron Redi	2) rates (B13 e Odor (C pheres ald luced Iron uction in 1 ce (C7)	ar F3 - Dep 3) 1) ong Living (C4) Filled Soils	Roots (C3)	Secondar Secondar Secondar S C C S S S S S S	must be 2 inch y Indicators (2 Vater Marks (B Sediment Depo Drift Deposits (E Drainage Patter Dry-Season Wa Crayfish Burrow Saturation Visib Shallow Aquitar	or more require (1) (Riverine) sits (B2) (River 3) (Riverine) ms (B10) ater Table (C2) /s (C8) ele on Aerial Ima d (D3)	k. ed) ine)
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ROLOC etland H imary In Sufa Sufa Sufa Sufa Sufa Sufa Sufa Sufa	one thes):	ne requi nriverin rine) lmagery	red; check all that Salt C Biotic Aquat Hydro Oxidiz Prese Recer (B7) Thin N Other No X Dep No X Dep	apply) rust (B11) Crust (B12) ic Invertebi gen Sulfide red Rhizosp nee of Red at Iron Red Auck Surfar (Explain in th (inches) th (inches) th (inches)	2) rates (B13 a Odor (C pheres ald luced fron uction in 1 ce (C7) i Remarks i:; ::;	3) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1	Roots (C3)	Secondar V S C C S S S S S S S S S S S S S S S S	must be 2 inch y Indicators (2 Vater Marks (B Sediment Depo Jrift Deposits (E Jrainage Patter Jry-Season Wa Crayfish Burrow Saturation Visib Shalow Aquitar FAC-Neutral Te	or more require (1) (Riverine) sits (B2) (River 33) (Riverine) ms (B10) ater Table (C2) rs (C8) ele on Aerial Ima d (D3) st (D5)	k. ed) ine) agery (Cs
Ppth (inc arks: T ROLOC etland H imary In Surfa	one thes):	ne requir nriverin rine) Imagery	red; check all that Salt C Biotic Aquat Hydro Oxidiz Prese Recer (B7) Thin N Other No X Dep No X Dep	apply) rust (B11) Crust (B12) ic Invertebi gen Sulfide red Rhizosp nee of Red at Iron Red Auck Surfar (Explain in th (inches) th (inches) th (inches)	2) rates (B13 a Odor (C pheres ald luced fron uction in 1 ce (C7) i Remarks i:; ::;	3) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1	Roots (C3)	Secondar V S C C S S S S S S S S S S S S S S S S	must be 2 inch y Indicators (2 Vater Marks (B Sediment Depo Jrift Deposits (E Jrainage Patter Jry-Season Wa Crayfish Burrow Saturation Visib Shalow Aquitar FAC-Neutral Te	or more require (1) (Riverine) sits (B2) (River 33) (Riverine) ms (B10) ater Table (C2) rs (C8) ele on Aerial Ima d (D3) st (D5)	k. ed) ine) agery (Cs
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Project/Site: 60656629 SMUD Country Acres Solar	City/County: Placer County		Sampling Date:	04/23/21
Applicant/Owner: SMUD		State: CA	Sampling Point:	27
Investigator(s): J. Wurlitzer & B. Christianson	Section, Township, Range:	20 11N 5E		
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex	, none): concave	Slop	e (%): 0-136
Subregion (LRR): Mediterranean California (LRR C) Lat	38.791022	Long:	-121.443495	Datum: NAD 63
Soil Map Unit Name: Cometa-Fiddyment complex, 1-5% slope	5	NWI Classification	n: n/a	
Are climatic / hydrologic conditions on the site typical for this time o	year? Yes	No X	(If no, explain in Re	marks.)
Are Vegetation X , Soil X , or Hydrology	significantly disturbed? Are "M	Iomal Circumstan	nces' present? Yes	X No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If nee	ded, explain any a	answers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map showing	g sampling point locations,	transects, împ	portant features, e	etc.
Hydrophytic Vegetation Present? Yes No X	in the second second			
Hydric Soil Present? Yes X No	 Is the Sampled Area within a Wetland? 	Yes	No X	
Wetland Hydrology Present? Yes No X				

Remarks: Sample #27. Site has been firstoncally and regularly disked and farmed for hay. Abnormally low rainfail totals for the season; only 4.92 inches of rain for the rain year to date, when normal is 35 inches for the County (Placer County rain gauge #1786, collected from October 1, 2020 to April 08, 2021, located about 3 miles west of project site along Pleasant Grove Creek).

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL_FACW, or FAC:		
the second se				That Are OBL FAGW, OF FAC:	1	(Å)
		_	_	Total Number of Dominant Species Across All Strata:	2	(B)
		-Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC:	50%	(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of:	5.4. Mar. 1. Co.	
		-		OBL species 0 x1 -	Multiply by:	-
				FACW species 0 x2		_
		<u> </u>	-	FAC species 48 x3 :		- 2
				FACU species 52 x4	-	-
	-	- Total Cover		UPL species 3 x5		-
Herb Stratum (Plot size: r = 6 ft)	-			Column Totals: 103 (A)		(B)
Festuca perennis [Lolium perenne]	45%	Yes	FAC	Prevalence Index = B/A =	3.6	
Lactuca serriola	8%		FACU			_
Bromus hordeaceous	5%		FACU	Hydrophytic Vegetation Indica	tors:	
Vicia sativa	38%	Yes	FACU	Dominance Test is >50		
Elymus caput medusae	3%		NL	Prevalence Index is ≤3	3.0 ⁷	
Hordeum marinum	3%		FAC	Morphological Adaptatr	and ¹ (Provide supp	ortion
Erodium botrys	1%	_	FACU	data in Remarks or on		oning
			200	Problematic Hydrophyti	rc Vegetation ¹ (Exp	lam)
Woody Vine Stratum (Plot size:)	108%	-Total Cover		¹ Indicators of hydric soil and wet be present, unless disturbed or p		ı
% Bare Ground in Herb Stratum 0%	% Cover of	= Total Cover Biotic Crust	0%	Hydrophytic Vegetation Present? Yes	s No	x

Profile De										it:	
	scription: (Describe)	to the de	epth neede	ed to docume	nt the india	ator or co	onfirm the abs	sence of i	ndicators.)		
Depth	Matrix			Redox Fe	eatures						
(inches)	Color (moist)	%	Color (n		Type ¹	Loc ²	- Textur	e		Remarks	
0-5	7.5YR 4/3	87	5YR 5/8		10 C	M	loam	0	2	Romanto	
			5YR 2.5/1		7 C	M	-				
5-11	10YR 4/3	75	2.5YR 4/8		7 PL	M	loam				
5-11	10114/3		2.5YR 4/8		8 C	M	Ioan				
						M			mongonoco		
			5YR 2.5/1		10 <u>C</u>	IVI			manganese n	1122262	
					_			_			
							·	-			
¹ Type: C=C	oncentration, D=Depletio	n RM=R	educed Matr	ix CS=Covered	or Coated S	and Grains	s. ² Location: Pl	L=Pore Lini	ng. M=Matrix.		
					1001.14 10.27.07.08.07.08.07.08.07.08.07.08.07.08.07.08.07.08.07.08.07.08.07.08.07.08.07.08.07.08.07.08.07.08.0						
	il Indicators: (Applica	able to a			100 M				matic Hydric	Soils*:	
	sol (A1)			Sandy Redox			_	Muck (A9)			
	Epipedon (A2)			Stripped Matri				Muck (A10	in the second		
Black	Histic (A3)			Loamy Mucky				ced Vertic			
Hydro	ogen Sulfide (A4)			Loamy Gleyed	Matrix (F2	2)	Red P	Parent Mate	erial (TF2)		
Strati	fied Layers (A5) (LRR	C)	_	Depleted Mat	ix (F3)		Other	(Explain in	i Remarks)		
1 cm	Muck (A9) (LRR D)		_	Redox Dark S	urface (F6)						
Deple	eted Below Dark Surface	ce (A11)		Depleted Dark	Surface (F	7)					
	Dark Surface (A12)		_X	Redox Depres				³ Indicators	of hydrophyti	c vegetation a	nd
Sand	y Mucky Mineral (S1)			Vernal Pools	(F9)			wetland	hydrology mu	st be present,	
Sand	y Gleyed Matrix (S4)							unless	disturbed or	problematic.	
Restrictive	e Layer (if present):										
Type: no	ne										
Depth (incl	nes):					H	ydric Soil Pre	sent?	Y	es X	No
layer that is 7% promine	closed depressions suits s 5 cm (2 inches) or mo ent redox concentration landforms, such as ve	ore thick is occurri	and starts a	at a depth ≤10 masses in a la	cm (4 inche yer that is 5	es) from the inches the	nick and starts j	sample is just below	from a closed	depressional	feature with
layer that is 7% promine epressional	s 5 cm (2 inches) or mo ent redox concentration landforms, such as ve	ore thick is occurri	and starts a	at a depth ≤10 masses in a la	cm (4 inche yer that is 5	es) from the inches the	ie soil surface; hick and starts j	sample is just below	from a closed	depressional	feature with
layer that is 7% promine epressional YDROLOG	s 5 cm (2 inches) or mo nt redox concentration landforms, such as ve	ore thick is occurri	and starts a	at a depth ≤10 masses in a la	cm (4 inche yer that is 5	es) from the inches the	ie soil surface; hick and starts j	sample is just below	from a closed	depressional	feature with
layer that is 7% promine epressional YDROLOG Wetland H	s 5 cm (2 inches) or mo nt redox concentration landforms, such as ve Y lydrology Indicators:	ore thick is occurri rnal pool	and starts a ing as soft Is, playa lal	at a depth ≤10 masses in a la kes, rainwater	cm (4 inche yer that is 5	es) from the inches the	ne soil surface; nick and starts j s, and pothole:	sample is just below s	from a closed the soil surfac	depressional e. This indicat	feature with or occurs on
layer that is 7% promine epressional YDROLOG Wetland H Primary Inc	s 5 cm (2 inches) or mo nt redox concentration landforms, such as ve Y lydrology Indicators: dicators (minimum of o	ore thick is occurri rnal pool	and starts a ing as soft Is, playa lai	at a depth ≤10 masses in a la kes, rainwater all that apply)	cm (4 inche yer that is 5 basins, "Gr	es) from the inches the	ne soil surface; nick and starts j s, and pothole:	sample is just below s Secondary	from a closed the soil surfac	depressional e. This indicat	feature with or occurs on
layer that is 7% promine epressional YDROLOG Wetland H Primary Inc Surfa	s 5 cm (2 inches) or mo nt redox concentration landforms, such as ve Y lydrology Indicators: dicators (minimum of or ce Water (A1)	ore thick is occurri rnal pool	and starts a ing as soft Is, playa lai red; check	at a depth ≤10 masses in a la kes, rainwater all that apply) Salt Crust (B1	cm (4 inche yer that is 5 basins, "Gr 1)	es) from the inches the	ne soil surface; nick and starts j s, and pothole:	sample is just below s Secondary W	from a closed the soil surfact Indicators (2 ater Marks (B	depressional e. This indicat or more require (Riverine)	feature with or occurs on ed)
layer that is 7% promine epressional YDROLOG Wetland H Primary Ind Surfa High 1	s 5 cm (2 inches) or mo nt redox concentration landforms, such as ve Y ydrology Indicators: dicators (minimum of or ce Water (A1) Water Table (A2)	ore thick is occurri rnal pool	and starts a ing as soft Is, playa lai	at a depth ≤10 masses in a la kes, rainwater all that apply) Salt Crust (B1 Biotic Crust (B	cm (4 inche yer that is 5 basins, "Gr 1) 11)	es) from th 5 inches th ady" pond	ne soil surface; nick and starts j s, and pothole:	sample is just below s Secondary W	from a closed the soil surfac Indicators (2 ater Marks (B ediment Depos	depressional e. This indicat or more requir 1) (Riverine) sits (B2) (River	feature with or occurs on ed)
VDROLOG Wetland H Primary Ind Surfa Satur	s 5 cm (2 inches) or mo nt redox concentration landforms, such as ve Y Ydrology Indicators: dicators (minimum of or ce Water (A1) Water Table (A2) ation (A3)	re thick is occurri rnal pool	and starts a ing as soft is, playa lai	at a depth ≰10 masses in a la kes, rainwater all <u>that apply)</u> Salt Crust (B1 Biotic Crust (B Aquatic Invert	cm (4 inche yer that is 5 basins, "Gr 1) 1) 212) ebrates (B1	es) from th 5 inches th ady" pond 3)	ne soil surface; nick and starts j s, and pothole:	sample is just below s Secondary W Se D	from a closed the soil surfac Indicators (2 ater Marks (B ediment Deposits (B	depressional e. This indicat or more requir 1) (Riverine) sits (B2) (Riveri 3) (Riverine)	feature with or occurs on ed)
Primary Ind Wetland H Primary Ind Surfa High ' Satur Wated	s 5 cm (2 inches) or mo nt redox concentration landforms, such as ve y y ydrology Indicators: dicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriver	rine)	and starts a ing as soft is, playa lai	at a depth ≰10 masses in a la kes, rainwater all that apply) Salt Crust (B1 Biotic Crust (B Aquatic Invert Hydrogen Sull	cm (4 inche yer that is 5 basins, "Gr 1) 1) 12) ebrates (B1 ide Odor (0	 as) from the inchest the ady" pond ady" pond 3) 3) 	e soil surface; iick and starts s, and potholes	sample is just below s Secondary W Secondary D D D	from a closed the soil surfac Indicators (2 ater Marks (B ediment Deposits (B ainage Pattern ainage Pattern	depressional e. This indicat or more requir 1) (Riverine) sits (B2) (Riveri 3) (Riverine) ns (B10)	feature with or occurs on ed)
VDROLOG Wetland H Primary Ind Surfa High Y Satur Satur Satur Satur Satur	s 5 cm (2 inches) or mo nt redox concentration landforms, such as ve y y ydrology Indicators: dicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriver nent Deposits (B2) (No	rine)	and starts is ing as soft is, playa lai	at a depth ≰10 masses in a la kes, rainwater all that apply) Salt Crust (B1 Biotic Crust (B Aquatic Invert Hydrogen Sull Oxidized Rhiz	cm (4 inche yer that is 5 basins, "Gr 1) 11 12) ebrates (B1 ide Odor (C ospheres a	as) from th 5 inches th ady" pond 3) 21) long Living	e soil surface; iick and starts s, and potholes	sample is just below s Secondary W Secondary D D D D D	from a closed the soil surfac Indicators (2 ater Marks (B ediment Deposits (B ainage Pattern y-Season Wal	depressional e. This indicat or more requir 1) (Riverine) sits (B2) (Riveri 3) (Riverine) ns (B10) ter Table (C2)	feature with or occurs on ed)
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Project/Site: 60656629 SMUD Country Acres Solar City	V/County: Placer County		Sampling Date	04/23/21
Applicant/Owner: SMUD		State: CA	Sampling Point	1: 028 A
Investigator(s); J. Wurlitzer, C. Battagila, & B. Christianson	Section, Township, Range:	20 11N 5E		V
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex	none): concave	SI	ope (%): 1%
Subregion (LRR): Mediterranean California (LRR C) Lat:	38,78775	Long:	121.446225	Datum: NAD 83
Soil Map Unit Name: Cometa-Fiddyment complex, 1-5% slopes		NWI Classification:	ri/a	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes	No X	(If no, explain in F	Remarks.)
Are Vegetation X Soll X or Hydrology sig	prificantly disturbed? Are "N	lormal Circumstand	es present? Ye	s X No
Are Vegetation, Soil, or Hydrology na	turally problematic? (If nee	ded, explain any ar	swers in Remarks.	.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	XXX	No No No	- Is the Sampled Area - within a Wetland?	Yes	x	No
	he rain ye	ar to d	ate, when not	mails 35 inches for the County (ire. Abnormally low rainfall totals for the luge #1786, collected from October 1.

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL_FACW, or FAC:
	\equiv	_	_	Total Number of Dominant Species Across All Strata: 3 (B)
	=	Total Cove		Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B)
Sapling/Shrub Stratum (Plot size:)			_	Prevalence Index Worksheet: Total % Cover of: Multiply by:
				OBL species x1 =
				FACW species x2
	0	· · · · · ·	7	FAC speciesx3 =
		-		FACU speciesx4 =
		Total Cove	¢	UPL species x5
Herb Stratum (Plot size: _ r = 8 ft_)			Saularos	Column Totals:(A)(B)
Plagiobothrys greenei	15%	Yes	FACW	Prevalence Index = B/A =
Castilleja campestris	15%	Yes	FACW	
Leontodori saxatilis	20%	Yes	FACU	Hydrophytic Vegetation Indicators:
Holocarpha virgata	12%		NL	X Dominance Test is >50%
Briza minor	3%		FAC	Prevalence index is ≤3.0 ¹
Aīra caryophylla	2%		FACU	Morphological Adaptationd ¹ (Provide supporting
Gratiola ebracteata	2%	<u></u>	-	data in Remarks or on a separate sheet)
Juncus butonius	1%			
Woody Vine Stratum (Plot size:)	70%	=Total Cove	ŕ	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum 25%	% Cover of	-Total Cove Biolic Crust		Hydrophytic Vegetation Present? Yes X No

0.0	and the second sec	1 AL		and the state		de la de		- C		in diana tanàna tanàna tanàna tanàna kaominina dia kao		
	scription: (Describe t	to the de	epth need				tor or co	nfirm the ab	sence of	indicators.)		
Depth	Matrix	01	Calard		lox Featu	1.01	12	Tester			Dumor	
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textur	re	-	Remar	KS
-4	7.5YR 4/4	95	5YR 5/8	<u>c</u>	5	<u>c</u>	M	clay loam				
-8.5	7.5YR 4/4	73	2.5YR 4/	-	20	<u>c</u>	M	silty clay lo	am			
		<u> </u>	2.5YR 2.	5/1	/	С	М					
									_			
			-		_				-	-		
	- <u> </u>				_					-		
ype: C=C	Concentration, D=Depletio	n, RM=R	educed Ma	trix, CS=Co	wered or	Coated Sa	nd Grains.	² Location: P	L=Pore Li	ning, M=Matrix.		
ydric So	il Indicators: (Applica	able to a	all LRRs, u	unless oth	herwise	noted.)		Indicators	for Prob	lematic Hydr	ic Soils ³ :	
Histo	sol (A1)			Sandy R	edox (S	5)		1 cm	Muck (As) (LRR C)		
Histic	c Epipedon (A2)		_	Stripped	Matrix (S6)		2 cm	Muck (A1	(LRR B)		
Black	k Histic (A3)		_	Loamy M	lucky Mi	neral (F1)	0	Redu	ced Verti	c (F18)		
Hydr	ogen Sulfide (A4)			Loamy G	leyed M	atrix (F2)	6	Red F	Parent Ma	aterial (TF2)		
Strat	ified Layers (A5) (LRR	C)		Depleted	Matrix ((F3)		Other	(Explain	in Remarks)		
1 cm	Muck (A9) (LRR D)			Redox D	ark Surfa	ace (F6)						
Depl	eted Below Dark Surfac	ce (A11)		Depleted	Dark St	urface (F7)					
Thick	Coark Surface (A12)		_X	Redox D	Aug. 1997				³ Indicato	rs of hydrophy	tic vegetati	on and
	ly Mucky Mineral (S1)		_	Vernal P	ools (F9))			wetlar	nd hydrology m	nust be pres	sent,
_	ly Gleyed Matrix (S4) e Layer (if present):								unle	ss disturbed o	r problemat	ic.
yer that i minent re	closed depressions sul s 5 cm (2 inches) or mo edox concentrations occ I landforms, such as ver	ore thick	and starts s soft mas	at a depth ses in a la	h ≤10 cm iyer that	i (4 inches is 4 inche	prominen s) from the s thick an	e soil surface; d starts just b	entrations ; sample pelow the	occurring as is from a close	ed depression	onal feature v
yer that i minent re	s 5 cm (2 inches) or mo dox concentrations occ	ore thick	and starts s soft mas	at a depth ses in a la	h ≤10 cm iyer that	i (4 inches is 4 inche	prominen s) from the s thick an	t redox conce e soil surface; d starts just b	entrations ; sample pelow the	occurring as is from a close	soft masse	es or pore lini onal feature v
yer that i minent re ressiona	s 5 cm (2 inches) or mo dox concentrations occ I landforms, such as ver	ore thick	and starts s soft mas	at a depth ses in a la	h ≤10 cm iyer that	i (4 inches is 4 inche	prominen s) from the s thick an	t redox conce e soil surface; d starts just b	entrations ; sample pelow the	occurring as is from a close	soft masse	es or pore lini onal feature v
yer that i ninent re ressiona OROLOG	s 5 cm (2 inches) or mo dox concentrations occ I landforms, such as ver GY Hydrology Indicators:	ore thick curring as rnal pool	and starts s soft mas ls, playa la	at a depth ses in a la ikes, rainw	h ≤10 cm iyer that vater bas	i (4 inches is 4 inche	prominen s) from the s thick an	t redox conce soil surface; d starts just b , and pothole	entrations ; sample below the es	s occurring as is from a close soil surface. T	soft masse ed depressi This indicate	es or pore linii onal feature v or occurs on
yer that i minent re ressiona DROLOG /etland H rimary In	s 5 cm (2 inches) or mo dox concentrations occ I landforms, such as ver SY Hydrology Indicators: dicators (minimum of or	ore thick curring as rnal pool	and starts s soft mas ls, playa la	at a depth ses in a la ikes, rainw	h ≤10 cm iyer that vater bas	i (4 inches is 4 inche	prominen s) from the s thick an	t redox conce soil surface; d starts just b , and pothole	entrations ; sample below the ss Seconda	s occurring as is from a close soil surface. T ry Indicators (;	soft masse ad depressi This indicate 2 or more re	es or pore linii onal feature v or occurs on equired)
ver that i ninent re ressiona ROLOG etland H imary In Surfa	s 5 cm (2 inches) or mo dox concentrations occ I landforms, such as ver GY Hydrology Indicators: (dicators (minimum of or ace Water (A1)	ore thick curring as rnal pool	and starts s soft mas ls, playa la	at a depth ses in a la kes, rainw <u>all that ap</u> Salt Crus	h ≤10 cm iyer that vater bas oply) st (B11)	i (4 inche is 4 inche sins, "Gra	prominen s) from the s thick an	t redox conce soil surface; d starts just b , and pothole	entrations ; sample below the ss Seconda	s occurring as is from a close soil surface. T ry Indicators (Water Marks (soft masse ad depression This indicate 2 or more re B1) (Riveri	es or pore linini onal feature v or occurs on equired) ne)
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Project/Site: 60656629 SMUD Country Acres Solar City	County: Placer County		Sampling Date	e: 04/23/21
Applicant/Owner: SMUD		State: CA	Sampling Poir	t: 028-B
Investigator(s); J. Wurlitzer, C. Battaglia, & B. Christianson	Section, Township, Range:	20 11N SE	And the second	Y
Landform (hillstope, terrace, etc.): Terrace	Local relief (concave, convex	, none); none	S	lope (%); 0%
Subregion (LRR): Mediterranean California (LRR C) Lat:	38.78771	Long:	-121.446285	Datum: NAD 83
Soil Map Unit Name: Cometa-Fiddyment complex, 1-5% slopes		NWI Classification:	n/a	
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes	No X	(If no, explain in	Remarks.)
Are Vegetation, Soll X, or Hydrology sign	nificantly disturbed? Are "N	Iormal Circumstant	es present? Y	es X No
Are Vegetation, Soll, or Hydrology nati	urally problematic? (If nee	ded, explain any ar	swers in Remarks	s.)

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

Hydrophytic Vegetation Present?	Yes	No	X	In the Constitution of August			
Hydric Soil Present?	Yes	No	X	is the Sampled Area within a Wetland?	Yes	No	X
Wetland Hydrology Present?	Yes	No	X	within a wettante:			
Remarks: Upland point paired to we				ly and regularly disked and far tches for the County (Placer C			

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
	-			That Are OBL, FACW, or FAC: 0 (A)
	=	_	-	Total Number of Dominant Species Across All Strata: 1 (B)
	=	Total Cove		Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/E
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
				OBL speciesx1 =
				FACW species x2 =
		-	Y	FAC species x3
		-		FACU species x4 =
		Total Cove	0	UPL species x5
Herb Stratum (Plot size: r = 8 ft_)				Column Totals:(A)(B)
Bromus hordeaceous	50%	YES	FACU	Prevalence Index = B/A =
Erodium botrys	10%		FACU	
Holocarpha virgata	5%		NL	Hydrophytic Vegetation Indicators:
Leontodon saxatilis	5%		FACU	Dominance Test is >50%
Acmispon americanus			UPL	Prevalence Index is ≤3,0 ¹
Festuca (Vulpia) bromoides	15%		FACU	Morphological Adaptationd ¹ (Provide supporting
Briza minor	3%		FAC	data in Remarks or on a separate sheet)
			1.00	
Woody Vine Stratum (Plot size:)	91%	=Total Cove		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		-Total Cove Biolic Crust		Hydrophytic Vegetation Present? Yes No X

rofile De	escription: (Describe	to the d	epth needed to	uocument	the multi-		minin the ab		indicator 5.7		
epth	Matrix			Redox Feat	ures						
nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textur	e		Remarks	
8.5	5YR 4/4	92	2.5YR 3/6	5	С	М	clay loam				
			2.5YR 3/1	2	С	М			manganese	masses	
						=					
	-1										
		=			_	=					
		=			_	=		_			
/pe: C=(Concentration, D=Depleti	on, RM=R	educed Matrix, CS	=Covered or	Coated Sa	and Grains.	² Location: P	L=Pore Lin	ing, M=Matrix.		
	oil Indicators: (Applie	cable to a							ematic Hydri	c Soils ³ :	
-	osol (A1)			y Redox (S				Muck (A9)			
	c Epipedon (A2)			oed Matrix (Contraction of Contract)) (LRR B)		
-	k Histic (A3)			iy Mucky M				ced Vertic			
_	ogen Sulfide (A4)			iy Gleyed N)			erial (TF2)		
-	ified Layers (A5) (LRR	(C)		eted Matrix			Other	(Explain i	n Remarks)		
	Muck (A9) (LRR D)			x Dark Surf							
Depl	eted Below Dark Surfa	ace (A11)		eted Dark S		7)					
Thick	k Dark Surface (A12)		Redo	x Depression	ons (F8)			³ Indicator	s of hydrophyt	tic vegetation	and
Sand	ly Mucky Mineral (S1)		Verna	al Pools (F9))					ust be presen	
Sand	ly Gleyed Matrix (S4)							unles	s disturbed or	problematic.	
strictiv	e Layer (if present):										
pe: <u>no</u>	no										
	лю										
pth (inc			_			Ну	dric Soil Pre	sent?	1	/es	No
epth (inc narks: Ne						Ну	dric Soil Pre	sent?	١	/es	No
arks: N	hes): o closed depression					Ну	dric Soil Pre	sent?		/es	No
arks: No	hes): o closed depression o closed depression					Ну	dric Soil Pre	isent?		/es	No
arks: No ROLOC etland H	hes): o closed depression o closed depression SY SY Hydrology Indicators		red: check all that	it apply)		Ну					
ROLOC etland I	ihes): o closed depression GY Hydrology Indicators Idicators (minimum of 4		10.0			Ну		Secondar	y Indicators (2	2 or more requ	iired)
ROLOC etland H imary In Surfa	thes): o closed depression GY Hydrology Indicators Idicators (minimum of dace Water (A1)		Salt (Crust (B11)	2	Ну		Secondar	y Indicators (2 /ater Marks (E	2 or more requ 31) (Riverine)	iired)
ROLOC etland H _ Surfa _ High	hes): o closed depression SY Hydrology Indicators Idicators (minimum of ace Water (A1) Water Table (A2)		Salt (Biotic	Crust (B11) Crust (B12				Secondar M	y Indicators (2 /ater Marks (E ediment Depo	2 or more requ 31) (Riverine) osits (B2) (Riv	nired)) erine)
ROLOC etland H mary In Surfa High Satu	thes): o closed depression GY Hydrology Indicators Idicators (minimum of ace Water (A1) Water Table (A2) ration (A3)	one requi	Salt (Biotic Aqua	Crust (B11) Crust (B12 tic Inverteb	rates (B13	3)		Secondar W S D	y Indicators (2 /ater Marks (E ediment Depo rift Deposits (2 or more requ 31) (Riverine) osits (B2) (Riverine B3) (Riverine	nired)) erine)
ROLOC etland H Surfa High Satu Wate	thes):	one requi erine)	Salt (Biotic Aqua Hydro	Crust (B11) Crust (B12 tic Inverteb ogen Sulfide	rates (B13 e Odor (C	3) 1)		Secondar W S D D	y Indicators (2 /ater Marks (E ediment Depo rift Deposits (rainage Patte	2 or more requ 31) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10)	iired)) erine))
ROLOC etland H Surfa High Satu Satu Satu Satu	thes):	one requi erine) onriverin	Salt (Biotic Aqua Hydro Oxidi	Crust (B11) Crust (B12 tic Inverteb ogen Sulfide zed Rhizos	rates (B13 e Odor (C pheres alo	3) 1) Dong Living		Secondar W S D D D D	y Indicators (2 /ater Marks (E ediment Depo rift Deposits (rainage Patte ry-Season Wa	2 or more requ 31) (Riverine) ssits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2	iired)) erine))
ROLOC etland F imary In Surfa High Satu Wate Sedii Sedii Drift	thes):	one requi erine) onriverin	Example 2 Salt (Salt C Biotic Aqua Hydro Oxidi Prese	Crust (B11) Crust (B12 tic Inverteb ogen Sulfide zed Rhizos ence of Rec	rates (B13 e Odor (C pheres ald luced Iron	3) 1) ong Living ((C4)	Roots (C3)	Secondar W S D D D C C	y Indicators (2 /ater Marks (E ediment Depo rift Deposits (rainage Patte ry-Season Wa rayfish Burrow	2 or more requ 31) (Riverine) ssits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2 ws (C8)	iired)) eerine))
ROLOC etland F mary In Surfa High Satu Satu Sedii Drift Surfa	thes):	one requi erine) onriverin erine)	Aqua Aqua Hydra Oxidi Prese Rece	Crust (B11) Crust (B12 tic Inverteb ogen Sulfide zed Rhizos ence of Red nt Iron Red	rates (B13 e Odor (C pheres ald luced Iron uction in 1	3) 1) ong Living ((C4)	Roots (C3)	Secondar W D D D C S	y Indicators (2 /ater Marks (E ediment Depo rift Deposits (rainage Patte ry-Season Wa rayfish Burrov aturation Visit	2 or more requ 31) (Riverine) ssits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2 ws (C8) ble on Aerial I	iired)) eerine))
ROLOC etland F mary In Surfa Satu Satu Satu Satu Drift Surfa Surfa Surfa	hes):	one requi erine) onriverin rerine) I Imagery	e (B7) Thin	Crust (B11) Crust (B12 tic Inverteb ogen Sulfide zed Rhizos ence of Red nt Iron Red Muck Surfa	rates (B13 a Odor (C pheres ald luced Iron uction in 1 ce (C7)	3) 1) ong Living (C4) Filled Soils	Roots (C3)	Secondar W S D D C C S S S	y Indicators (2 /ater Marks (E ediment Depo rift Deposits (rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquita	2 or more requ 31) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2 ws (C8) ble on Aerial I rd (D3)	iired)) eerine))
ROLOC etland I mary In Surfa Satu Satu Satu Satu Satu Satu Satu Sat	hes):	one requi erine) onriverin rerine) I Imagery	e (B7) Thin	Crust (B11) Crust (B12 tic Inverteb ogen Sulfide zed Rhizos ence of Red nt Iron Red	rates (B13 a Odor (C pheres ald luced Iron uction in 1 ce (C7)	3) 1) ong Living (C4) Filled Soils	Roots (C3)	Secondar W S D D C C S S S	y Indicators (2 /ater Marks (E ediment Depo rift Deposits (rainage Patte ry-Season Wa rayfish Burrov aturation Visit	2 or more requ 31) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2 ws (C8) ble on Aerial I rd (D3)	iired)) eerine))
ROLOC etland I imary In Satu Satu Satu Satu Satu Satu Surfa Surfa Nate Nate Nate 	hes):	one requi erine) onriverin verine) I Imagery	Salt (Biotic Aqua Hydra Oxidi Presa Rece (B7) Thin Other	Crust (B11) Crust (B12 tic Inverteb ogen Sulfide zed Rhizos ence of Rec nt Iron Red Muck Surfa r (Explain in	rates (B13 a Odor (C pheres ald luced Iron uction in 1 ce (C7) a Remarks	3) 1) ong Living (C4) Filled Soils	Roots (C3)	Secondar W S D D C C S S S	y Indicators (2 /ater Marks (E ediment Depo rift Deposits (rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquita	2 or more requ 31) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2 ws (C8) ble on Aerial I rd (D3)	iired)) eerine))
PROLOC etland H imary In Surfa Gurfa Satu Satu Satu Satu Satu Satu Satu Sat	thes):	erine) onriverin erine) I Imagery) s	Salt (Biotic Aqua Hydr Oxidi Presc (B7) Thin Other No X Dej	Crust (B11) Crust (B12) tic Inverteb ogen Sulfide zed Rhizos ence of Rec nt Iron Red Muck Surfa r (Explain in pth (inches)	rates (B13 a Odor (C pheres ald luced Iron uction in 1 ce (C7) a Remarks	3) 1) ong Living (C4) Filled Soils	Roots (C3)	Secondar W S D D C C S S S	y Indicators (2 /ater Marks (E ediment Depo rift Deposits (rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquita	2 or more requ 31) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2 ws (C8) ble on Aerial I rd (D3)	iired)) eerine))
ROLOC ettland I imary In Surfa	thes):	one requi onriverin onriverin erine) I Imagery s s	Salt (Biotic Aqua Hydr Oxidi Press (B7)	Crust (B11) Crust (B12) tic Inverteb ogen Sulfide zed Rhizos ence of Rec nt Iron Red Muck Surfa r (Explain in pth (inches)	rates (B13 e Odor (C pheres ald luced Iron uction in 1 ce (C7) n Remarks	3) 1) ong Living (C4) Filled Soils	Roots (C3)	Secondar W D D D C S S F	y Indicators (2 /ater Marks (E ediment Deposits (rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquita AC-Neutral Te	2 or more requ 31) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2 ws (C8) ble on Aerial I rd (D3) est (D5)	iired)) e crine))) 2) magery (C
ROLOC ettand I imary In Surfa	thes):	one requi onriverin onriverin erine) I Imagery s s	Salt (Biotic Aqua Hydr Oxidi Press (B7)	Crust (B11) Crust (B12) tic Inverteb ogen Sulfide zed Rhizos ence of Rec nt Iron Red Muck Surfa r (Explain in pth (inches)	rates (B13 e Odor (C pheres ald luced Iron uction in 1 ce (C7) n Remarks	3) 1) ong Living (C4) Filled Soils	Roots (C3)	Secondar W D D D C S S F	y Indicators (2 /ater Marks (E ediment Deposits (rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquita AC-Neutral Te	2 or more requ 31) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2 ws (C8) ble on Aerial I rd (D3)	iired)) eerine))
ROLOC etland H imary In Surfa Surfa Satu Satu Satu Wate Satu Wate Satu Wate Tab turation Cludes of	hes):	one requi onriverine) onriverine) I Imagery I ss		Crust (B11) c Crust (B12) c crust (B12 bgen Sulfide zed Rhizos ence of Rec nt Iron Red Muck Surfar r (Explain in pth (inches) pth (inches)	ates (B13 a Odor (C pheres ald luced from uction in T ce (C7) a Remarks : :	3) 1) ong Living (C4) filled Soils ;)	Roots (C3)	Secondar W D D D C S S S S S S S S S	y Indicators (2 /ater Marks (E ediment Deposits (rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquita AC-Neutral Te	2 or more requ 31) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2 ws (C8) ble on Aerial I rd (D3) est (D5)	iired)) e crine))) 2) magery (C
ROLOC ettland I imary In Surfa Surfa Surfa Surfa Surfa Drift Surfa Unun Wate Inun Wate Inun Wate Inun Child Obs Surface W ater Tat tuturation Child So Surfa	thes):	one requi onriverine) onriverine) I Imagery I ss		Crust (B11) c Crust (B12) c crust (B12 bgen Sulfide zed Rhizos ence of Rec nt Iron Red Muck Surfar r (Explain in pth (inches) pth (inches)	ates (B13 a Odor (C pheres ald luced from uction in T ce (C7) a Remarks : :	3) 1) ong Living (C4) filled Soils ;)	Roots (C3)	Secondar W D D D C S S S S S S S S S	y Indicators (2 /ater Marks (E ediment Deposits (rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquita AC-Neutral Te	2 or more requ 31) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2 ws (C8) ble on Aerial I rd (D3) est (D5)	iired)) e crine))) 2) magery (C
PROLOC etfland I imary In Surfa Surfa Surfa Surfa Surfa Drift Surfa Unun Wate Inun Wate Inun Wate Inun Wate Coribe Re	thes):	one requi onriverine) onriverine) I Imagery I ss		Crust (B11) c Crust (B12) c crust (B12 bgen Sulfide zed Rhizos ence of Rec nt Iron Red Muck Surfar r (Explain in pth (inches) pth (inches)	ates (B13 a Odor (C pheres ald luced from uction in T ce (C7) a Remarks : :	3) 1) ong Living (C4) filled Soils ;)	Roots (C3)	Secondar W D D D C S S S S S S S S S	y Indicators (2 /ater Marks (E ediment Deposits (rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquita AC-Neutral Te	2 or more requ 31) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2 ws (C8) ble on Aerial I rd (D3) est (D5)	iired)) e crine))) 2) magery (C
PROLOC etland H imary In Satu Satu Wate Satu Wate Drift Surfa Unation Wate Eld Obs urface W ater Tab aturation cludes of cribe Re	thes):	one requi onriverine) onriverine) I Imagery I ss		Crust (B11) c Crust (B12) c crust (B12 bgen Sulfide zed Rhizos ence of Rec nt Iron Red Muck Surfar r (Explain in pth (inches) pth (inches)	ates (B13 a Odor (C pheres ald luced from uction in T ce (C7) a Remarks : :	3) 1) ong Living (C4) filled Soils ;)	Roots (C3)	Secondar W D D D C S S S S S S S S S S S S S S S S	y Indicators (2 /ater Marks (E ediment Deposits (rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquita AC-Neutral Te	2 or more requ 31) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2 ws (C8) ble on Aerial I rd (D3) est (D5)	iired)) e crine))) 2) magery (C
PROLOC etland H imary In Satu Satu Satu Satu Satu Satu Satu Satu	thes):	one requi onriverine) onriverine) I Imagery I ss		Crust (B11) c Crust (B12) c crust (B12 bgen Sulfide zed Rhizos ence of Rec nt Iron Red Muck Surfar r (Explain in pth (inches) pth (inches)	ates (B13 a Odor (C pheres ald luced from uction in T ce (C7) a Remarks : :	3) 1) ong Living (C4) filled Soils ;)	Roots (C3)	Secondar W D D D C S S S S S S S S S S S S S S S S	y Indicators (2 /ater Marks (E ediment Deposits (rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquita AC-Neutral Te	2 or more requ 31) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2 ws (C8) ble on Aerial I rd (D3) est (D5)	iired)) e crine))) 2) magery (C
ROLOC ettland I imary In Surfa Surfa Surfa Surfa Surfa Drift Surfa Unun Wate Inun Wate Inun Wate Inun Child Obs Surface W ater Tat tuturation Child So Surfa	thes):	one requi onriverine) onriverine) I Imagery I ss		Crust (B11) c Crust (B12) c Crust (B12 bgen Sulfide zed Rhizos ence of Rec nt Iron Red Muck Surfar r (Explain in pth (inches) pth (inches)	ates (B13 a Odor (C pheres ald luced from uction in T ce (C7) a Remarks : :	3) 1) ong Living (C4) filled Soils ;)	Roots (C3)	Secondar W D D D C S S S S S S S S S S S S S S S S	y Indicators (2 /ater Marks (E ediment Deposits (rainage Patte ry-Season Wa rayfish Burrov aturation Visit hallow Aquita AC-Neutral Te	2 or more requ 31) (Riverine) osits (B2) (Riv B3) (Riverine rns (B10) ater Table (C2 ws (C8) ble on Aerial I rd (D3) est (D5)	iired)) e crine))) 2) magery (C

Project/Site: 60656629 SMUD Country Acres Solar City/County: Placer Col	ounty Sampling Date: 04/23/2
Applicant/Owner: SMUD	State: CA Sampling Point: 029
Investigator(s): J. Wurlitzer, C. Battaglia, & B. Christianson Section, Township	ip, Range: 20 11N SE
Landform (hillslope, terrace, etc.): Terrace Local relief (concav	ave, convex, none); concave Slope (%); 2.5%
Subregion (LRR): Mediterranean California (LRR C) Lat:	38.78798 Long: -121.44897 Datum: NAD 83
Soil Map Unit Name: Cometa-Fiddyment complex, 1-5% slopes	NWI Classification: ri/a
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No X (If no, explain in Remarks.)
Are Vegetation, Soil X, or Hydrology significantly disturbed?	? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problematic?	(If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	XXX	No No	is the Sampled Area within a Wetland?	Yes	x	No	-
Remarks: Welfand #29. Site has bee for the rain year to date, when norma about 3 miles west of project site alo	al is 35 inc	thes to	r the County					

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
	=	=		Total Number of Dominant Species Across All Strata: 1 (B)
	_	Total Cove		Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
				OBL speciesx1 =
	-	· · · · · · ·	-	FACW species x2 -
	0	1	T	FAC species x3 =
				FACU speciesx4 =
		Total Cove	0	UPL species x5
Herb Stratum (Plot size: _r = 10 ft_)	2.00			Column Totals:(A)(B)
Festuca perennis (Lolium perenne)	80%	Yes	FAC	Prevalence Index = B/A =
Lactuca serriola	10%		FACU	
Rumex crispus	5%		FAC	Hydrophytic Vegetation Indicators:
Convolvulus arverisis	2%		NL	X Dominance Test is >50%
Plagiobothrys stipitatus	1%		FACW	Prevalence Index is ≤3.01
Hordeum marinum	1%		FAC	Morphological Adaptationd ¹ (Provide supporting
Hypochaen's radicata	1%	<u> </u>	FACU	data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size:)	100%	=Total Cove		¹ Indicators of hydric soil and wetland hydrology must be present, linless disturbed or problematic.
% Bare Ground in Herb Stratum0%	% Cover of	-Total Cove Biolic Crust		Hydrophytic Vegetation Present? Yes X No

			epun need	ed to doci	ument	he indica	ator or co	nfirm the at	osence o		
epth	Matrix				ox Featu					,	
iches)	Color (moist)	%	Color (r	noist)	%	Type ¹	Loc ²	Textu	re	Rema	arks
3	10YR 4/3	80	2.5YR 3/		20	PL	М	silty clay lo	am		
			2.5YR 3/	6	10	С	М				
12	7.5YR 3/2	68	5YR 3/4		20	С	М	silty clay lo	am		
	-	0	10YR 2/1		12	С	М	2		manganese masses	
-		=	_		=	\equiv			_		
	Concentration, D=Depletio						and Grains.				
	oil Indicators: (Applic	able to a	all LRRs, u							blematic Hydric Soils ³ :	
-	osol (A1)		_	Sandy Re				_		(LRR C)	
	ic Epipedon (A2)		_	Stripped I						(LRR B)	
-	k Histic (A3)		_	Loamy M						tic (F18)	
-	rogen Sulfide (A4)		_	Loamy G						Aaterial (TF2)	
-	tified Layers (A5) (LRR	C)		Depleted				Othe	r (Explai	n in Remarks)	
	n Muck (A9) (LRR D)		<u></u> X	Redox Da							
	leted Below Dark Surfac	ce (A11)		Depleted			()				
	k Dark Surface (A12)			Redox De	Aug. 1000 10	121 21			³ Indicat	ors of hydrophytic vegeta	tion and
100	dy Mucky Mineral (S1)			Vernal Po	ools (F9))			wetla	and hydrology must be pre	esent,
Sano	dy Gleyed Matrix (S4)								unl	less disturbed or problem	atic.
ce, and		or less ar	nd chroma	of 2 or les	s and 5	percent o	hes thick,		depth ≤8	Yes X 3 inches from the mineral adox concentrations occur	soil
ce, and	n the sample, redox dark d has matrix value of 3 d	or less ar	nd chroma	of 2 or les	s and 5	percent o	hes thick,	starting at a	depth ≤8	inches from the mineral	soil
ce, and nasses ROLOG	n the sample, redox dark d has matrix value of 3 o s or pore linings. Few sn	or less ar nall pebb	nd chroma	of 2 or les	s and 5	percent o	hes thick,	starting at a	depth ≤8	inches from the mineral	soil
ce, and nasses ROLO(etland l	n the sample, redox dark d has matrix value of 3 o s or pore linings. Few sn GY Hydrology Indicators:	or less ar nall pebb	nd chroma bles in sam	of 2 or les ple, aroun	s and 5 d 1% of	percent o	hes thick,	starting at a	depth≤8 ninent re	Binches from the mineral dox concentrations occur	soil ring as
ce, and nasses ROLOG stland I mary Ir	n the sample, redox dark d has matrix value of 3 o s or pore linings. Few sn GY Hydrology Indicators: ndicators (minimum of o	or less ar nall pebb	nd chroma bles in sam	of 2 or les ple, aroun all that ap	s and 5 d 1% of ply)	percent o	hes thick,	starting at a	depth≤8 ninent re	Binches from the mineral dox concentrations occur any Indicators (2 or more	soil ring as required)
ce, and nasses ROLOG stland I mary Ir _ Surfa	n the sample, redox dark d has matrix value of 3 c s or pore linings. Few sn GY Hydrology Indicators: ndicators (minimum of o ace Water (A1)	or less ar nall pebb	nd chroma bles in sam	of 2 or les ple, aroun <u>all that ap</u> Salt Crusi	es and 5 d 1% of ply) t (B11)	percent c matrix.	hes thick,	starting at a	depth≤8 ninent re	a inches from the mineral edox concentrations occur and the second second second second lary Indicators (2 or more Water Marks (B1) (Rive	soil ring as required) rine)
ce, and nasses ROLOG atland I mary Ir Surfa High	n the sample, redox dark d has matrix value of 3 c s or pore linings. Few sn GY Hydrology Indicators: ndicators (minimum of o ace Water (A1) n Water Table (A2)	or less ar nall pebb	nd chroma bles in sam	of 2 or les ple, aroun <u>all that ap</u> Salt Crus Biotic Cru	s and 5 d 1% of ply) t (B11) ust (B12)	percent c matrix.	hes thick, or more dis	starting at a	depth≤8 ninent re	B inches from the mineral dox concentrations occur lary Indicators (2 or more Water Marks (B1) (Rive Sediment Deposits (B2)	soil ring as required) rine) (Riverine)
ROLOG Mary Ir Mary Ir Surfa High Satu	n the sample, redox dark d has matrix value of 3 c s or pore linings. Few sm GY Hydrology Indicators: ndicators (minimum of o ace Water (A1) n Water Table (A2) iration (A3)	n less ar nall pebb	nd chroma bles in sam	of 2 or les ple, aroun all that ap Salt Crus Biotic Cru Aquatic Ir	s and 5 d 1% of ply) t (B11) ust (B12) nvertebr	percent c matrix.) ates (B13	nes thick, or more dis	starting at a	depth≤8 ninent re	Binches from the mineral dox concentrations occur lary Indicators (2 or more Water Marks (B1) (Rive Sediment Deposits (B2) Drift Deposits (B3) (Rive	soil ring as required) rine) (Riverine) rine)
ROLOG atland I mary Ir Surfa High Satu Wate	n the sample, redox dark d has matrix value of 3 c s or pore linings. Few sm GY Hydrology Indicators: ndicators (minimum of o ace Water (A1) n Water Table (A2) iration (A3) er Marks (B1) (Nonriver	n less ar hall pebb ne requi rine)	red; check	of 2 or les ple, aroun all that ap Salt Crus Biotic Cru Aquatic Ir Hydroger	s and 5 d 1% of ply) t (B11) ust (B12) nvertebr n Sulfide	percent c matrix.) ates (B13 : Odor (C'	nes thick, r more dis	starting at a stinct or pron	depth≤8 ninent re	B inches from the mineral dox concentrations occur lary Indicators (2 or more Water Marks (B1) (Rive Sediment Deposits (B2) Drift Deposits (B3) (Rive Drainage Patterns (B10)	soil ring as required) rine) (Riverine) vrine)
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Project/Site: 60656629 SMUD Country Acres Solar	City/County: Placer County		Sampling Da	te: 04/30/21
Applicant/Owner: SMUD		State: CA	Sampling Po	int: 029 B
Investigator(s); J. Wurlitzer and O. Routt	Section, Township, Range:	20 11N 5E		- Y
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, conve)	, none): none	13	Slope (%);0%
Subregion (LRR): Mediterranean California (LRR C) Lat:	38.78880374	Long:	-121.4483532	Datum: NAD 83
Soil Map Unit Name: Cometa-Fiddyment complex, 1-5% slopes		NWI Classification:	n/a	
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes	No X	(If no, explain in	n Remarks.)
Are Vegetation X	significantly disturbed? Are "	Normal Circumstand	es present?	Yes X No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If nee	ded, explain any an	swers in Remark	(S.)

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

Hydrophytic Vegetation Present?	Yes	No	X	to the Constitution of the			
Hydric Soil Present?	Yes	No X is the Sampled Area within a Wetland?	Yes	No	X		
Hydric Soil Present? Netland Hydrology Present?	Yes	No	X	within a wettand:			
Remarks: Upland point paired to we				ally and regularly disked and la riches for the County (Placer C			

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
	\equiv	=	_	Total Number of Dominant Species Across All Strata: 1 (B)
		Total Cove	r	Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
			i	OBL species x1 =
-				FACW species x2 =
		1	r i	FAC species x3 -
				FACU species x4 =
and the second s		Total Cove	0	UPL species x5
Herb Stratum (Plot size: _r = 6 ft_)				Column Totals:(A)(B)
Avena fatua	50%	Yes	NL	Prevalence Index = B/A =
Elymus caput-medusae	25%		NL	
Bromus hordeaceous	5%		FACU	Hydrophytic Vegetation Indicators:
Holocarpha virgata			NL	Dominance Test is >50%
Erodium botrys	5%		FACU	Prevalence Index is ≤3.01
Lactuca serriola	2%	_	FACU	Morphological Adaptationd1 (Provide supporting
Leontodon saxatilis	2%	() C	FACU	data in Remarks or on a separate sheet)
A CONTRACTOR OF		1		
Woody Vine Stratum (Plot size:)	92%	=Total Cove	ŕ	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum 0%		-Total Cove Biolic Crust		Hydrophytic Vegetation Present? Yes No X

Profile Description: (Describe to the depth needed to document the indica		Sampling Point:	029-
	ator or confirm the absence	of indicators.)	
Depth Matrix Redox Features			
(inches) Color (moist) % Color (moist) % Type ¹	Loc ² Texture	Remarks	
0-8 10YR 4/4 98 black 2 C	M sandy loam	manganese masses	
	M Sandy Ioan	manganese masses	
		<u>. </u>	
		-	
	2		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sa	and Grains. "Location: PL=Por	e Lining, M=Matrix.	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for P	roblematic Hydric Soils ³ :	
Histosol (A1) Sandy Redox (S5)		(A9) (LRR C)	
Histic Epipedon (A2) Stripped Matrix (S6)		(A10) (LRR B)	
Black Histic (A3) Loamy Mucky Mineral (F1)		And the first of t	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)		Material (TF2)	
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)		ain in Remarks)	
	- Other (Expr		
	7)		
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	0		
Thick Dark Surface (A12) Redox Depressions (F8)		ators of hydrophytic vegetation and	
Sandy Mucky Mineral (S1) Vernal Pools (F9)		land hydrology must be present,	
Sandy Gleyed Matrix (S4)	u	nless disturbed or problematic.	
Restrictive Layer (if present):			
Type: none			
Depth (inches):	Hydric Soil Present?	Yes N	lo X
'DROLOGY			
/DROLOGY Wetland Hydrology Indicators:			
	Secor	idary Indicators (2 or more required)
Wetland Hydrology Indicators:	Secor	idary Indicators (2 or more required Water Marks (B1) (Riverine))
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secor		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverin	
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Project/Site: 60656629 SMUD Country Acres Solar	City/County: Placer County		Sampling Date	04/26/21
Applicant/Owner: SMUD		State: CA	Sampling Point	t: 031 A
Investigator(s): J. Wurlitzer and T. Torrez	Section, Township, Range:	20 11N 5E	and the second	Y
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex	, none): concave	Sl	ope (%); 2%
Subregion (LRR): Mediterranean California (LRR C) Lat:	38.78838069	Long:	-121.4364595	Datum: NAD 83
Soil Map Unit Name: Xerfluvents, hardpan substratum		NWI Classification:	ri/a	
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes	No X	(If no, explain in F	Remarks.)
Are Vegetation, Soil X, or Hydrology	significantly disturbed? Are "I	Normal Circumstan	es present? Ye	s X No
Are Vegetation, Soll, or Hydrology X	naturally problematic? (If nee	ded, explain any an	nswers in Remarks)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X X	No No No	is the Sampled Area within a Wetland?	Yes _	x	No
drainage/creek and appear to receiv the nearby nce fields are flooded. Si	e hydrolog le has beg al is 35 ing	gy troi en hist ches li	n this draina lorically distu or the County	ge/creek when it floods, which may rbed by berning activities. Abnom	y happen in th nally low cam	në Winter all totals	e to the northern boundary of a perenn r and also in the spring/summer when s for the season; only 4.92 linches of ra ber 1, 2020 to April 08, 2021, located

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
				(A
			-	Total Number of Dominant Species Across All Strata: <u>2</u> (B
	=	Total Cover	_	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
				OBL species x1 =
				FACW species x2
			Y	FAC speciesx3 =
	1			FACU speciesX4 =
		Total Cover	0	UPL species x5
Herb Stratum (Plot size: _r = 6 ft_)	0.00			Column Totals:(A)(B
Epilobium brachycarpum	25%	Yes	FAC	Prevalence Index = B/A =
Eleocharis macrostachya (palustris)	38%	Yes	OBL	
Hordeum maninum	8%		FAC	Hydrophytic Vegetation Indicators:
Lactuca serriola	8%		FACU	X Dominance Test is >50%
Festuca perennis [Lolium perenne]	5%		FAC	Prevalence Index is ≤3,0 ¹
Rumex crispus	2%		FAC	Morphological Adaptationd1 (Provide supporting
Acmispon americanus	1%	<u> </u>	UPL	data in Remarks or on a separate sheet)
		-	10.000	
Woody Vine Stratum (Plot size:)	87%	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	-			Hydrophytic
% Bare Ground in Herb Stratum 13%	% Cover of	-Total Cover Biotic Crust	0%	Vegetation Present? Yes X No

			epui needeo			ator or co	nfirm the ab	sence o	i indicator 3.)		
lepth	Matrix			Redox Feat	1.2						
nches)	Color (moist)	%	Color (m	oist) %	Type ¹	Loc ²	Textur	re	-	Remarks	
-2	7.5YR 4/1	97	7.5YR 4/4	3	PL	M	silty clay lo	am			
7	5YR 4/1	92	2.5YR 3/4	1	С	M	silty clay lo	am			
	<u>a</u>	<u> </u>	2.5YR 2.5/	1 7	С	M	<u>.</u>		manganese n	nasses	
		_				\equiv					
		_		_	_	=					
ype: C=(Concentration, D=Depletion	n, RM=R	educed Matrix	x, CS=Covered or	r Coated Sa	and Grains.	² Location: P	L=Pore L	ining, M=Matrix.		
/dric Sc	il Indicators: (Applica	able to a	II LRRs, un	less otherwise	e noted.)		Indicators	for Prot	olematic Hydric	Soils ³ :	
Histo	sol (A1)		S	Sandy Redox (S	(5)				9) (LRR C)		
Histi	c Epipedon (A2)			Stripped Matrix					10) (LRR B)		
Blac	k Histic (A3)		— L	oamy Mucky M	lineral (F1))	Redu	ced Verti	c (F18)		
_	ogen Sulfide (A4)			oamy Gleyed M			Red F	Parent Ma	aterial (TF2)		
_	ified Layers (A5) (LRR (C)		Depleted Matrix					in Remarks)		
-	Muck (A9) (LRR D)	1		Redox Dark Sur			_				
	eted Below Dark Surfac	e (A11)		Depleted Dark S		7)					
_	Dark Surface (A12)			Redox Depressi				3		10.104	
	ly Mucky Mineral (S1)			/ernal Pools (F9					ors of hydrophytic		nd
	ly Gleyed Matrix (S4)		_	, and the second second second	·/				nd hydrology mu ess disturbed or p		
arks: A s at a d iding sol	hes): layer that has a deplete epth ≤10 cm (4 inches) f t iron-manganese mass	from the ses and/o	soil surface. or pore lining	. A depleted ma gs, are required	atrix requir I in soils w	or less an es a value	of 4 or more	minimum and chr	oma of 2 or less.	m (2 inches) i Redox conce	entrations
arks: A s at a d iding so	layer that has a deplete epth ≤10 cm (4 inches) f	from the ses and/o	soil surface. or pore lining	. A depleted ma gs, are required	atrix requir I in soils w	or less an es a value	d that has a i of 4 or more	minimum and chr	thickness of 5 coma of 2 or less.	m (2 inches) i Redox conce	f the 5 cr
narks: A s at a do uding sol that sta	layer that has a deplete ppth ≤10 cm (4 inches) I it iron manganese mass rts immediately below t SY	from the ses and/o	soil surface. or pore lining	. A depleted ma gs, are required	atrix requir I in soils w	or less an es a value	d that has a i of 4 or more	minimum and chr	thickness of 5 coma of 2 or less.	m (2 inches) i Redox conce	f the 5 cr
arks: A s at a do ding sol that sta ROLOC etland I	layer that has a deplete ppth ≤10 cm (4 inches) i ti iron manganese mass rits immediately below ti sy sy Hydrology Indicators:	from the ses and/o he soil s	soil surface or pore lining urface, with	. A depleted ma gs, are required 3% pore linings	atrix requir I in soils w	or less an es a value	d that has a i of 4 or more colors of 4/1.	minimum and chro In the sa	thickness of 5 c oma of 2 or less. mple, 97% chro	m (2 inches) i Redox conce ma of 1 in a la	f the 5 cr entrations yer 2 inc
aarks: A is at a du iding sol t that sta DROLOG etland I imary In	layer that has a deplete spth ≤10 cm (4 inches) i ti rion manganese mass ints immediately below t sy Hydrology Indicators: dicators (minimum of or	from the ses and/o he soil s	soil surface or pore lining urface, with ed; check al	. A depleted ma gs, are required 3% pore linings Il that apply)	atrix requir l in soils w s.	or less an es a value	d that has a i of 4 or more colors of 4/1.	minimum and chro In the sa	thickness of 5 c oma of 2 or less. ample, 97% chro ry Indicators (2 d	m (2 inches) i Redox conce ma of 1 in a la or more requir	f the 5 cr entrations yer 2 inc
earks: A s at a d ding sol that sta PROLOG etland I imary In Surfa	layer that has a deplete epth ≤10 cm (4 inches) f t iron-manganese mass rrts immediately below t sy dydrology Indicators: dicators (minimum of or ace Water (A1)	from the ses and/o he soil s	soil surface or pore lining urface, with ed; check al	. A depleted ma gs, are required 3% pore linings II that apply) Salt Crust (B11)	atrix requir l in soils w s.	or less an es a value	d that has a i of 4 or more colors of 4/1.	minimum e and chr In the sa Seconda	thickness of 5 c oma of 2 or less. ample, 97% chro ny Indicators (2 d Water Marks (B1	m (2 inches) i Redox conce ma of 1 in a la or more requir I) (Riverine)	f the 5 cm entrations yer 2 inc ed)
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Project/Site: 60656629 SMUD Country Acres Solar	City/County: Placer County		Sampling Dat	te: 04/26/21
Applicant/Owner: SMUD		State: CA	Sampling Poi	nt: 031-B
Investigator(s); J. Wurlitzer, O. Routt and T. Torrez	Section, Township, Range:	20 11N 5E	A. A. A. A.	- Y
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex	none): convex	9	Slope (%): 5%
Subregion (LRR): Mediterranean California (LRR C) Lat:	38.78843647	Long:	-121.4363873	Datum: NAD 83
Soil Map Unit Name: Cometa-Fiddyment complex, 1-5% slopes		NWI Classification:	n/a	
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes	No X	(If no, explain in	Remarks.)
Are Vegetation, Soil X, or Hydrology	significantly disturbed? Are "I	Iormal Circumstant	es present?)	res X No
Are Vegetation, Soil X, or Hydrology	naturally problematic? (If nee	ded, explain any ar	swers in Remark	(S.)

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

Hydrophytic Vegetation Present?	ioil Present? Yes X No Is the Sampled Area Yes	-		- A			
Hydric Soil Present?		Yes	No	x			
Hydric Soll Present? Wetland Hydrology Present?	Yes	No	X	in the second second			
Remarks: Upland point paired to well drainage/creek and often is flooded i rain year to date, when normal is 35 miles west of project site along Plea:	in spring/sun inches for th	nmer due t le County	o rice field	d operations. Abnormally low ra	aintall totals for the	e season; only	4.92 Inches of rain for the

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
	\equiv	_	_	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
	=	Total Cove	-	Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
Sapling/Shrub Stratum (Plof size:)			-	Prevalence Index Worksheet: Total % Cover of: Multiply by:
			1	OBL species x1 =
		1	1	FACW species x2
	(<u> </u>		7	FAC speciesx3 =
	-	-		FACU species x4 =
		Total Cove	¢	UPL species x5
Herb Stratum (Plot size: _ r = 6 ft_)			1.0	Column Totals:(A)(B)
Vicia villosa ssp. varia	60%	Yes	NL	Prevalence Index = B/A =
Bromus diandrus	25%		NL	
Geranium dissectum	2%		NL	Hydrophytic Vegetation Indicators:
Festuca perennis [Lolium perenne]	2%		FAC	Dominance Test is >50%
Epilobium brachycarpum	1%			Prevalence index is ≤3.01
Bromus hordeaceous	1%		FACU	Morphological Adaptationd ¹ (Provide supporting
Erodium botrys	3%	<u></u>	FACU	data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size:)	94%	=Total Cove	6	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum 10%	% Cover of	-Total Cove Biolic Crust	¢ 0%	Hydrophytic Vegetation Present? Yes No X

							-				
	scription: (Describe	to the dep	oth needed			ator or co	nfirm the ab	sence of ir	idicators.)		
Depth	Matrix			Redox Fea	1.0	2					
nches)	Color (moist)	%	Color (mo	ist) %	Type ¹	Loc ²	Textur	re		Remarks	
.3	10R 4/4	100 -		-		-	clay				
10	10YR 4/1	99 2	2.5YR 4/3	1	С	<u>M</u>	clay	·	-		
						_					
		\equiv				=					
_		_				_					
ype: C=C	oncentration, D=Depletio	on, RM=Red	luced Matrix,	CS=Covered o	r Coated S	and Grains.					
	Indicators: (Application)	able to all							matic Hydric	Soils ³ :	
	sol (A1)			andy Redox (S				Muck (A9)			
Histic	Epipedon (A2)		St	ripped Matrix	(S6)		2 cm	Muck (A10)	(LRR B)		
Black	Histic (A3)		Lo	amy Mucky N	Aineral (F1)	Reduc	ced Vertic (F18)		
Hydro	gen Sulfide (A4)		Lo	amy Gleyed I	Matrix (F2)	Red F	Parent Mate	rial (TF2)		
Stratif	ied Layers (A5) (LRR	C)	X D	epleted Matrix	(F3)		Other	(Explain in	Remarks)		
-	Muck (A9) (LRR D)			edox Dark Su							
	ted Below Dark Surfac	ce (A11)		epleted Dark S		7)					
	Dark Surface (A12)	, <u>,</u>		edox Depress				2		1.114	
	Mucky Mineral (S1)			ernal Pools (F					of hydrophytic		
	Gleyed Matrix (S4)				3)				hydrology mu: disturbed or r		
pe: <u>nor</u> pth (inch arks: Sm	ies):		_			Ну	dric Soil Pre	sent?	Ye	s X	No
	all pebbles at low con cm (2 inches) if the 5						rcent or more	chroma of			
kness of 5 lox conce		cm starts in soils wit	at a depth a h matrix col	10 cm (4 inch	nes) from t	he soil sur	rcent or more face. Require	e chroma of es a value o	f 4 or more an	d chroma of	2 or less.
kness of 5 lox conce w the soil	i cm (2 inches) if the 5 ntrations are required surface, with 1% redo	cm starts in soils wit	at a depth a h matrix col	10 cm (4 inch	nes) from t	he soil sur	rcent or more face. Require	e chroma of es a value o	f 4 or more an	d chroma of	2 or less.
mess of 5 ox conce w the soil	i cm (2 inches) if the 5 ntrations are required surface, with 1% redo	i cm starts in soils wit ox concent	at a depth a h matrix col	10 cm (4 inch	nes) from t	he soil sur	rcent or more face. Require	e chroma of es a value o	f 4 or more an	d chroma of	2 or less.
ROLOG	i cm (2 inches) if the 5 ntrations are required surface, with 1% redo	i cm starts in soils wit ox concent	at a depth a h matrix col trations.	s10 cm (4 inc) ors of 4/1. In :	nes) from t	he soil sur	rcent or more face. Require a of 1 in a laye	e chroma of es a value o er 7 inches	f 4 or more an	ad chroma of ts at a depth	2 or less. of 3 inche
ROLOG ROLOG	is cm (2 inches) if the 5 ntrations are required surface, with 1% redo Y ydrology Indicators:	i cm starts in soils wit ox concent	at a depth a h matrix col trations. d; check all	s10 cm (4 inc) ors of 4/1. In :	nes) from t sample, 99	he soil sur	rcent or more face. Require a of 1 in a laye	e chroma of es a value o er 7 inches Secondary	f 4 or more an thick that stan	ad chroma of ts at a depth	2 or less. of 3 inche
ROLOG ROLOG etland H imary Ind Surfac	is cm (2 inches) if the 5 Intrations are required I surface, with 1% rede Y ydrology Indicators: licators (minimum of o	i cm starts in soils wit ox concent	at a depth : h matrix col trations. d; check all	≤10 cm (4 inch ors of 4/1. In s that apply)	nes) from t sample, 99	he soil sur	rcent or more face. Require a of 1 in a laye	e chroma of es a value o er 7 inches Secondary	of 4 or more an thick that stan	ad chroma of is at a depth or more requi) (Riverine)	2 or less. of 3 inche red)
PROLOGY PROLOGY etland H imary Ind Surfac High V	s cm (2 inches) if the 5 Intrations are required I surface, with 1% rede Y ydrology Indicators: licators (minimum of o ce Water (A1)	i cm starts in soils wit ox concent	at a depth : h matrix col rrations. d; check all Sa Bi	s10 cm (4 inc) ors of 4/1. In : that apply) alt Crust (B11)	nes) from t sample, 99	he soil sur 9% chroma	rcent or more face. Require a of 1 in a laye	e chroma of es a value o er 7 inches Secondary Wa Se	Indicators (2 of ater Marks (B1 diment Depos	or more requi) (Riverine) its (B2) (Rive	2 or less. of 3 inche red) erine)
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	656629 SN	UD Co	untry Acres Sol	ar	City/County: Placer	County		Sampling Da	ale:	04/26/2
	JUD	_		_			State: CA	Sampling Po	Sirit:	032-4
Investigator(s): J.	Wurlitzer (). Rout	Land T. Torrez		Section, Towns	hip, Range:	20 11N 5E	-		
Landform (hillslope, te	rrace etc.)		Terrace		Local relief (con	cave, conve)	(none): concave	1	Slope (%):	0-1%
Subregion (LRR): M	editerranea	n Califo	omia (LRR C)	Lat	3	8.78883428	Long:	-121.4370025	Datum:	NAD 83
Soil Map Unit Name:	Conie	ta-Fidd	yment complex.	1-5% slopes	7		NWI Classification	n: n/a		1.00
Are climatic / hydrolog	ic condition	s on th	e site typical for	this time of y	ear? Y	es	No X	(If no, explain i	n Remarks.)
Are Vegetation	Sol	х	or Hydrology		significantly disturbe	d? Are T	Normal Circumsta	nces" present?	Yes X	No
Are Vegetation	Sol		or Hydrology	x	naturally problematic	? (If nee	eded, explain any	answers in Remar	ks.)	

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

Is the Sampled Area	Yes	x	No
Within a wenand:			
	within a Wetland?	within a Wetland? Yes	within a Wetland? Yes X

year to date, when normal is 35 inches for the County (Placer County rain gauge #1786, collected from October 1, 2020 to April 08, 2021, located about 3 miles west of project site along Pleasant Grove Creek).

	Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
l,					That Are OBL FACW, or FAC: 2 (A)
		=	_	_	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
ĺ	and the second second	-	= Total Cove	-	Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B)
	Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
			-	1.1	OBL species x1 =
			-	_	FACW species x2 =
					FAC species X3 -
					FACU species X4 =
ſ			= Total Cove	P 1	UPL species x5 =
	Herb Stratum (Plot size: i = 10.it.)	1.1.1	a serve the		Column Totals:(A)(B)
	Festuca perennis [Lolium perenne]	20%	Yes	FAG	Prevalence Index = B/A
	Epilobium brachycarpum	15%	Yes	FAC	
	Lactuca serriola	12%	Yes	FACU	Hydrophytic Vegetation Indicators:
	Tritelieia hyacinthina	5%		FAC	
	Lupinus bicolor	3%	-	NL	X Dominance Test is >50%
	Geranium dissectum	.5%	-	NL	Prevalence Index is ≤3.0 ¹
	Hordeum marinum	.3%		FAC	Morphological Adaptationd ¹ (Provide supporting
1	Trifolium dubrum	5%		UPL	data in Remarks or on a separate sheet)
	Achylacheana mollis	3%	-	FAC	
D.	Plantago fanceolata	1%		FAC	
١.	Rumex crispus	1%		FAC	
2.	Leontodon saxatilis	2%		FACU	
	Woody Vine Stratum (Plot size:)	78%	= Total Cove		¹ Indicators of hydric soil and welland hydrology must
Ì	Troopy vine stratum (FIOLSIDE.				be present, unless disturbed or problematic.
4					Hydrophytic
	% Bare Ground in Herb Stratum 22%		 Total Cove Biotic Crust 	0%	Vegetation Present? Yes X No
	narks:	75 Cover of	blooc Gruse	070	Present: 105 A NO

										Sampling Point	: <u> </u>	032-A
Profile De	scription: (Describe t	to the d	epth need	ed to doc	ument	the indica	ator or co	nfirm the abs	ence of	indicators.)		
Depth	Matrix			Red	lox Featu	ures						
(inches)	Color (moist)	%	Color (noist)	%	Type ¹	Loc ²	Texture	9	-	Remarks	
0-3	10YR 4/2	96	5YR 4/6		1	С	М	clay				
	<u>e</u>		5YR 4/6		3	PL	М					
3-10	5Y 4/2	98	black		2	С	М	clay		manganese m	asses	
10-14	2.5Y 4/1	99	black		1	С	М	silty clay		manganese m	asses	
			_		_			-	-	.		
¹ Type: C=C	oncentration, D=Depletion	n, RM=R	educed Mat	rix CS=Co	wered or	Coated Sa	and Grains.	² Location: PL	=Pore Lin	ing. M=Matrix.		
	il Indicators: (Applica	abletoa	all LRRs, u							ematic Hydric	Soils ^a :	
	sol (A1)		_	Sandy R						(LRR C)		
	Epipedon (A2)		_	Stripped)) (LRR B)		
	Histic (A3) ogen Sulfide (A4)		_			ineral (F1) latrix (F2)			ed Vertic	erial (TF2)		
	fied Layers (A5) (LRR (3	x	Depleted			1			n Remarks)		
	Muck (A9) (LRR D)	0)		Redox D				- Other ((CAPIairi i	in Kemarks)		
	ted Below Dark Surfac	e (A11)	_			urface (F:	7)					
	Dark Surface (A12)	, the second	_	Redox D			· ·	3				
	y Mucky Mineral (S1)		_	Vernal P	A					s of hydrophytic I hydrology mus		
	y Gleyed Matrix (S4)		_							s disturbed or p		
Restrictive	e Layer (if present):											
Type: no	ne											
Depth (incl							Lux	dric Soil Pres	ent?	Ye	s X	No
a minimum thess. Redox of	ttom 4 inches of pedon nickness of 5 cm (2 inch concentrations are requ ce. with 4% redox conc	hes) if th uired in s	ne 5 cm sta soils with m	rts at a de	epth≤10	cm (4 inc	natrix = A I thes) from	ayer that has 6 the soil surfac	60 percer ce. Requi	res a value of 4	or more a	nd chroma of 2
minimum thess. Redox of	nickness of 5 cm (2 inch	hes) if th uired in s	ne 5 cm sta soils with m	rts at a de	epth≤10	cm (4 inc	natrix = A I thes) from	ayer that has 6 the soil surfac	60 percer ce. Requi	res a value of 4	or more a	nd chroma of 2
i minimum th ess. Redox (he soil surfa	nickness of 5 cm (2 inch concentrations are requ ce, with 4% redox conc	hes) if th uired in s	ne 5 cm sta soils with m	rts at a de	epth≤10	cm (4 inc	natrix = A I thes) from	ayer that has 6 the soil surfac	60 percer ce. Requi	res a value of 4	or more a	nd chroma of 2
a minimum th ess. Redox (he soil surfa HYDROLOG Wetland H	nickness of 5 cm (2 inch concentrations are requ ce, with 4% redox conc Y lydrology Indicators:	hes) if th uired in s centratio	ie 5 cm sta soils with m ns.	rts at a de natrix colo	epth≤10 rs of 4/1	cm (4 inc	natrix = A I thes) from	ayer that has 6 the soil surfac rroma of 2 in a	60 percer ce. Requi a layer 3 i	res a value of 4 nches thick that	or more a starts at a	nd chroma of 2 (a depth just belo
n minimum th ess. Redox of he soil surfa HYDROLOG Wetland H Primary Inc	nickness of 5 cm (2 inc) concentrations are requ ce, with 4% redox conc Y lydrology Indicators: dicators (minimum of or	hes) if th uired in s centratio	ie 5 cm sta soils with m ns.	all that ap	epth≤10 rs of 4/1 oply)	cm (4 inc	natrix = A I thes) from	ayer that has 6 the soil surfac rroma of 2 in a	60 percer ce. Requi a layer 3 i Secondary	res a value of 4 nches thick that y Indicators (2 o	or more a starts at a r more rec	nd chroma of 2 (depth just below
minimum th ass. Redox of the soil surfa Wetland H Primary Inc Surfa	nickness of 5 cm (2 inch concentrations are requ ce, with 4% redox conc Y lydrology Indicators: dicators (minimum of or ce Water (A1)	hes) if th uired in s centratio	ie 5 cm sta soils with m ns.	all that ap	epth≤10 rs of 4/1 oply) st (B11)	cm (4 inc	natrix = A I thes) from	ayer that has 6 the soil surfac rroma of 2 in a	60 percer ce. Requi a layer 3 i Secondar	res a value of 4 nches thick that y Indicators (2 o /ater Marks (B1)	or more a starts at a <u>r more rec</u>) (Riverin	nd chroma of 2 i depth just belo uired) ə)
A minimum thess. Redox of the soil surfation	nickness of 5 cm (2 inch concentrations are requ ce, with 4% redox conc Y Y Vdrology Indicators: dicators (minimum of or ce Water (A1) Water Table (A2)	hes) if th uired in s centratio	ie 5 cm sta soils with m ns.	all that an Balt Crus Biotic Crus	epth ≤10 rs of 4/1 oply) st (B11) ust (B12	cm (4 inc . In samp	hatrix = A I thes) from le, 96% cf	ayer that has 6 the soil surfac rroma of 2 in a	60 percer ce. Requi a layer 3 i Secondan W S	res a value of 4 nches thick that y Indicators (2 o Vater Marks (B1) ediment Deposi	or more a starts at a <u>r more rec</u>) (Riverin ts (B2) (Ri	nd chroma of 2 o o depth just below uired) e) verine)
A minimum thess. Redox of the soil surfation	nickness of 5 cm (2 inc) concentrations are requ ce, with 4% redox conc Y Ydrology Indicators: dicators (minimum of or ce Water (A1) Water Table (A2) ation (A3)	hes) if th uired in s centratio	ie 5 cm sta soils with m ns.	all that ap Biotic Crus Biotic Cru	epth≤10 rs of 4/1 oply) st (B11) ust (B12 nvertebr	cm (4 inc . In samp .) rates (B13	atrix = A I hes) from le, 96% cf	ayer that has 6 the soil surfac rroma of 2 in a	60 percer ce. Requi layer 3 i Secondar M S S D D	res a value of 4 nches thick that y Indicators (2 o /ater Marks (B1), ediment Deposit rift Deposits (B3	or more a starts at a <u>r more rec</u>) (Riverin ts (B2) (Ri 3) (Riverin	nd chroma of 2 o o depth just below uired) e) verine)
A minimum the ass. Redox of the soil surfation of the solution of the	nickness of 5 cm (2 inc) concentrations are requ ce, with 4% redox conc y y ydrology Indicators: dicators (minimum of or ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriver	hes) if th uired in s centratio ne requi rine)	ne 5 cm sta soils with m ns. red; check	rts at a de atrix color all that ap Salt Crus Biotic Cru Aquatic I Hydroger	oply) st (B11) ust (B12) nvertebr n Sulfide	cm (4 inc . In samp) rates (B13 e Odor (C	atrix = A I shes) from le, 96% ch	ayer that has 6 the soil surfac rroma of 2 in a S	60 percer ce. Requi layer 3 i Secondar Secondar M S D D D	res a value of 4 nches thick that y Indicators (2 o /ater Marks (B1) ediment Deposit rift Deposits (B3 rainage Pattern	or more a starts at a <u>r more rec</u>) (Riverin ts (B2) (Ri 3) (Riverin s (B10)	nd chroma of 2 d depth just below uired) e) verine) e)
	nickness of 5 cm (2 inc) concentrations are requ ce, with 4% redox conc Y Ydrology Indicators: dicators (minimum of or ce Water (A1) Water Table (A2) ation (A3)	hes) if th uired in s centratio ne requi ne requi rine) nriverin	ne 5 cm sta soils with m ns. red; check	all that ag all that ag Salt Crus Biotic Cru Aquatic I Hydroger Oxidized	oply) st (B11) ust (B12) nvertebr n Sulfide I Rhizosp	cm (4 inc . In samp) rates (B13 e Odor (C	atrix = A n hes) from le, 96% ch 96% ch 3) 1) ng Living	ayer that has 6 the soil surfac rroma of 2 in a	60 percer ce. Requi a layer 3 i Secondar W S D D D D D	res a value of 4 nches thick that y Indicators (2 o /ater Marks (B1), ediment Deposit rift Deposits (B3	or more a starts at a <u>r more rec</u>) (Riverin ts (B2) (Ri 3) (Riverin s (B10) er Table (C	nd chroma of 2 d depth just below uired) e) verine) e)
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Project/Site:	60656629 SMUD	Country Acres Solar	C	ity/County: Placer County		Sampling Date	e:	04/26/21
Applicant/Owner:	SMUD				State: CA	Sampling Poir	10	035 A
Investigator(s):	J. Wurlitzer, O. Ro	outt and T. Tonez		Section, Township, Range	: 20 11N SE	- many		
Landform (hillstope	e, terrace, etc.):	Terrace		Local relief (concave, conve	ex, none): concave	S	lope (%): 0	1%
Subregion (LRR):	Mediterranean Ca	lifornia (LRR C)	Lat	38.79004721	Long:	-121.4367788	Datum: N	VAD 83
Soil Map Unit Nam	e: San Joaqu	in-Cometa sandy loa	ms, 1-5% sl	opes	NWI Classification:	n/a		
Are climatic / hydro	ologic conditions on	the site typical for thi	s time of yea	ar? Yes	No X	(If no, explain in	Remarks.)	
Are Vegetation	Soil X	, or Hydrology	5	ignificantly disturbed? Are	Normal Circumstan	ces' present? Y	es X M	Vo
Are Vegetation	Soil	, or Hydrology	r	naturally problematic? (If ne	eded, explain any a	nswers in Remarks	5.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X X	No No No	is the Sampled Area within a Wetland?	Yes	x	No
Remarks: Welfand #35; sample is als	to represent to for the C	County	of wetlands				on; only 4.92 Inches of rain for the rain o April 08, 2021, located about 3 miles

Tree Stratum (Plot size:	1	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL_FACW, or FAC:
			_	_	Total Number of Dominant Species Across All Strata: 2 (1)
				_	
		_	Total Cove	r	Percent of Dominant Species That Are OBL, FACW, or FAC:100%(
Sapling/Shrub Stratum (Pl	of size:)				Prevalence index Worksheet: Total % Cover of: Multiply by:
					OBL speciesx1 =
					FACW species x2 -
		_			FAC species X3 -
			-		FACU species x4 =
			Total Cove	r	UPL speciesx5 =
Herb Stratum (Plot size:	r-5ft_)	1.1.1.1			Column Totals: (A) (I
Lasthenia fremontii		22%	Yes	OBL	Prevalence Index = B/A =
Festuca perennis (Loliun	n perenne]	12%	Yes	FAC	
Ranunculus bonariensis		5%		OBL	Hydrophytic Vegetation Indicators:
Psilocarphus oregonus		5%		OBL	
Leontodon saxatilis		10%		FACU	X Dominance Test is >50%
Briza minor		5%		FAC	Prevalence Index is ≤3.0 ¹
Plagiobothrys stipitatus		5%		FACW	Morphological Adaptationd ¹ (Provide supporting
Hordeum marinum		2%	1.1	FAC	data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot	size:)	66%	=Total Cove	24	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	atum		- Total Cove Biolic Crust		Hydrophytic Vegetation Present? Yes X No

onth	scription: (Describe)							
epth	Matrix	01		edox Feat		Loc ²	·	Demedia
nches)	Color (moist)	%	Color (moist)	%	Type ¹		Texture	Remarks
5	10YR 5/3 10YR 4/4	95	2.5YR 4/4	5	PL	M	sandy loam	
11	101K 4/4	45	2.5YR 3/6	35%	PL		sandy loam	
	· <u>· · · · · · · · · · · · · · · · · · </u>	_	black	15		<u>M</u>		manganese masses
		_		_		_	-	
pe: C=0	Concentration, D=Depletio	n, RM=R	educed Matrix, CS=(Covered or	Coated Sa	and Grains.	² Location: PL=Pc	re Lining, M=Matrix.
dric So	il Indicators: (Applica	able to a	all LRRs, unless o	therwise	noted.)		Indicators for	Problematic Hydric Soils ³ :
	sol (A1)			Redox (S				(A9) (LRR C)
-	Epipedon (A2)			d Matrix ((A10) (LRR B)
	(Histic (A3)			Mucky Mi	1 N			/ertic (F18)
_	ogen Sulfide (A4)			Gleyed M				t Material (TF2)
_	ified Layers (A5) (LRR	C)		ed Matrix				plain in Remarks)
_	Muck (A9) (LRR D)	-/		Dark Surf				
	eted Below Dark Surfac	0 (811)		ed Dark Sun		7)		
	C Dark Surface (A12)	~ (411)		Depressio		· ·		
-	ly Mucky Mineral (S1)			Pools (F9				cators of hydrophytic vegetation and
100			vemal	F0015 (F9	2			etland hydrology must be present, unless disturbed or problematic.
	ly Gleyed Matrix (S4) e Layer (if present):							uniess disturbed of problematic.
								ions occurring as soft masses or pore lining ndicator occurs on depressional
	5 cm (2 inches) or more							
forms, s ROLOG	5 cm (2 inches) or more uch as vernal pools. SY							
ROLOG	5 cm (2 inches) or more uch as vernal pools. SY Hydrology Indicators:	e thick a	nd starts at a depth	1 ≤10 cm (soil surface. This i	ndicator occurs on depressional
ROLOG etland F imary In	5 cm (2 inches) or more uch as vernal pools. SY Hydrology Indicators: dicators (minimum of or	e thick a	nd starts at a depth	apply)			soil surface. This i	ndicator occurs on depressional
ROLOG etland H imary In Surfa	5 cm (2 inches) or more uch as vernal pools. 3Y 4ydrology Indicators: dicators (minimum of or uce Water (A1)	e thick a	nd starts at a depth	apply) ust (B11)	(4 inches)		soil surface. This i	ndicator occurs on depressional ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Forms, s ROLOG etland F imary In Surfa High	5 cm (2 inches) or more uch as vernal pools. 5Y 4ydrology Indicators: dicators (minimum of or ince Water (A1) Water Table (A2)	e thick a	nd starts at a depth red; check all that Salt Cr Sitt Cr	apply) ust (B11) Crust (B12	(4 inches)	from the s	soil surface. This i	ndicator occurs on depressional ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Forms, s ROLOG etland H imary In Surfa High Satu	5 cm (2 inches) or more uch as vernal pools. 5Y 4ydrology Indicators: dicators (minimum of on ace Water (A1) Water Table (A2) ration (A3)	e thick a	red; check all that Salt Cr Salt Cr Biotic C Aquatic	apply) ust (B11) Crust (B12 c Invertebr	(4 inches) () () rates (B13	from the s	soil surface. This i	ndicator occurs on depressional ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
ROLOG etland H imary In Surfa High Satur Wate	5 cm (2 inches) or more uch as vernal pools. Y Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonriver	ne requi rine)	red; check all that Salt Cr Salt Cr Biotic C Aquatic Hydrog	apply) ust (B11) Crust (B12) c Invertebi en Sulfide	(4 inches) () rates (B13 e Odor (C	from the s	soil surface. This i	ndicator occurs on depressional ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
ROLOC etland H imary In Surfa High Satur Wate Sediu	5 cm (2 inches) or more uch as vernal pools. Y Ydrology Indicators: dicators (minimum of or ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonriver ment Deposits (B2) (No	ne requi rine)	red; check all that Salt Cr Biotic C Aquatic Hydrog he) Oxidize	apply) ust (B11) Crust (B12) : Invertebr gen Sulfide ad Rhizosj	(4 inches) () rates (B13 e) Odor (C pheres alo	from the s	soil surface. This i	ndicator occurs on depressional ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
ROLOC etland H imary In Surfa High Satur Satur Satur Satur Satur Drift	5 cm (2 inches) or more uch as vernal pools. y ydrology Indicators: dicators (minimum of or cace Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver)	ne requi rine)	red; check all that red; check all that Salt Cr Biotic C Aquatic Hydrog presen	apply) ust (B11) Crust (B12) : Invertebr gen Sulfide ad Rhizosp	(4 inches) () rates (B13 e Odor (C pheres alo uced Iron	(C4)	Roots (C3)	ndicator occurs on depressional ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Forms, s ROLOG etland F imary In Satur Satur Wate Satur Drift Surfa	5 cm (2 inches) or more uch as vernal pools. SY Hydrology Indicators: dicators (minimum of or coce Water (A1) Water Table (A2) ration (A3) rr Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver coce Soil Cracks (B6)	ne requi ne requi rine) pariverin erine)	red; check all that red; check all that Salt Cr Biotic C Aquatic Hydrog presen Recent	apply) ust (B11) Crust (B12) c Invertebi gen Sulfide ed Rhizosj ice of Red i Iron Red	(4 inches) () rates (B1: e Odor (C pheres alo luced Iron uction in 1	from the s	coots (C3) coots	ndicator occurs on depressional ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3)
ROLOC etland H imary In Surfa High Satu Wate Sedii Drift Surfa Surfa	5 cm (2 inches) or more uch as vernal pools. SY Hydrology Indicators: dicators (minimum of or ice Water (A1) Water Table (A2) ration (A3) rr Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ice Soil Cracks (B6) fation Visible on Aerial	ne requi ne requi rine) pariverin erine)	red; check all that red; check all that Salt Cr Biotic C Aquatic Hydrog he) Oxidize Presen Recent (B7) Thin M	apply) ust (B11) Crust (B12) clinvertebi gen Sulfide ed Rhizosj ice of Red t Iron Red uck Surfa	(4 inches) () ates (B13 e Odor (C pheres ald luced Iron uction in 1 ce (C7)	(C4) from the s from the s	Roots (C3)	ndicator occurs on depressional mdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C4) Shallow Aquitard (D3)
ROLOC etland H Surfa High Satur Wate Sedir Drift Surfa Surfa Nurfa	5 cm (2 inches) or more uch as vernal pools. SY Hydrology Indicators: dicators (minimum of or ice Water (A1) Water Table (A2) ration (A3) rr Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ice Soil Cracks (B6) dation Visible on Aerial rr-Stained Leaves (B9)	ne requi ne requi rine) pariverin erine)	red; check all that red; check all that Salt Cr Biotic C Aquatic Hydrog he) Oxidize Presen Recent (B7) Thin M	apply) ust (B11) Crust (B12) c Invertebi gen Sulfide ed Rhizosj ice of Red i Iron Red	(4 inches) () ates (B13 e Odor (C pheres ald luced Iron uction in 1 ce (C7)	(C4) from the s from the s	coots (C3) coots	ndicator occurs on depressional mdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
PROLOG etland H imary In Surfa Urfa Satur	5 cm (2 inches) or more uch as vernal pools. 4ydrology Indicators: dicators (minimum of or icce Water (A1) Water Table (A2) ration (A3) ir Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver icce Soil Cracks (B6) dation Visible on Aerial ir-Stained Leaves (B9) ervations:	ne requi ne requi porriverin prine) Imagery	red; check all that red; check all that Salt Cr Biotic C Aquatic Hydrog re) Oxidize Presen Recent (B7) Thin M Other (apply) ust (B11) Crust (B12) clust (B12) clust (B12 clust (B12 clust (B12 clust (B12 clust (B12) clust	(4 inches) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	(C4) from the s from the s	Roots (C3)	ndicator occurs on depressional mdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
PROLOC etland F imary In Satu Satu Satu Satu Satu Satu Satu Satu	5 cm (2 inches) or more uch as vernal pools. 4 4 4 4 4 4 4 4 4 4 4 4 4	ne requi ne requi porriverin prine) Imagery	red; check all that Salt Cr Salt Cr Biotic C Aquatic Presen Presen (B7) Thin M Other (No Dept	apply) ust (B11) Crust (B12) Invertebi gen Sulfide ad Rhizosj ce of Red I fron Red Uron Red Uron Red Uron Red Uron Red Uron Red Lano Kaufan Manan Holdon	(4 inches) (5) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	(C4) from the s from the s	Roots (C3)	ndary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
PROLOC ettand F imary In Surfa High Satu Sedii Sedii Surfa Unift 	5 cm (2 inches) or more uch as vernal pools. 3Y 4ydrology Indicators: dicators (minimum of or icce Water (A1) Water Table (A2) ration (A3) rr Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ce Soil Cracks (B6) dation Visible on Aerial rr-Stained Leaves (B9) ervations: 'ater Present? Yes le Present? Yes	ne requi ne requi nrine) prriverin prine) Imagery	red; check all that red; check all that Salt Cr Biotic C Aquatic Hydrog Presen (B7) Thin M C(B7) No X Dept No X Dept	apply) ust (B11) Crust (B12) crust (B12) c	(4 inches) (5) rates (B13 a Odor (C pheres ald luced Iron uction in 1 ce (C7) Remarks :	(C4) from the s from the s	Roots (C3)	ndicator occurs on depressional ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Forms, s	5 cm (2 inches) or more uch as vernal pools. 5Y 4ydrology Indicators: dicators (minimum of or nee Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonriver ment Deposits (B3) (Nonriver ment Deposits (B3) (Nonriver ice Soil Cracks (B6) dation Visible on Aerial r-Stained Leaves (B9) ervations: ater Present? Yes Present? Yes Present? Yes	ne requi ne requi nrine) prriverin prine) Imagery	red; check all that Salt Cr Salt Cr Biotic C Aquatic Presen Presen (B7) Thin M Other (No Dept	apply) ust (B11) Crust (B12) crust (B12) c	(4 inches) (5) rates (B13 a Odor (C pheres ald luced Iron uction in 1 ce (C7) Remarks :	(C4) from the s from the s	Roots (C3)	ndicator occurs on depressional ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Morris, s PROLOC /etland H imary In Surfa High Satur Vate Sedii Drift Surfa Unit Wate Edd Obs urface W fater Tab aturation cludes of cribe Re	5 cm (2 inches) or more uch as vernal pools. 44 4ydrology Indicators: dicators (minimum of or nee Water (A1) Water Table (A2) ration (A3) rf Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ce Soil Cracks (B6) dation Visible on Aerial rf-Stained Leaves (B9) ervations: later Present? Yes le Present? Yes Present? Yes present? Yes apillary fringe) corded Data (stream gr	ne requi nine) nriverin srine) Imagery	red; check all that red; check all that Salt Cr Biotic C Aquatic Hydrog resen (B7) No X Dept No X Dept	apply) ust (B11) Crust (B12) crust (B12) chvertebrigen Sulfide ed Rhizospice of Red chor Red uck Surfar Explain in h (inches) h (inches)	(4 inches) (7) rates (B13 a Odor (C pheres ald luced fron uction in 1 ce (C7) I Remarks :	3) 1) ng Living (C4) Filled Soils ;)	Roots (C3)	ndicator occurs on depressional ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3 Shallow Aquitard (D3) FAC-Neutral Test (D5)
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dforms, s PROLOC /etland F trimary In Surfa High Satur Wate Sedii Drift Surfa Inune Wate ield Obs aturation ncludes c scribe Re	5 cm (2 inches) or more uch as vernal pools. 44 4ydrology Indicators: dicators (minimum of or nee Water (A1) Water Table (A2) ration (A3) rf Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ce Soil Cracks (B6) dation Visible on Aerial rf-Stained Leaves (B9) ervations: later Present? Yes le Present? Yes Present? Yes present? Yes apillary fringe) corded Data (stream gr	ne requi nine) nriverin srine) Imagery	red; check all that red; check all that Salt Cr Biotic C Aquatic Hydrog resen (B7) No X Dept No X Dept	apply) ust (B11) Crust (B12) crust (B12) chvertebrigen Sulfide ed Rhizospice of Red chor Red uck Surfar Explain in h (inches) h (inches)	(4 inches) (7) rates (B13 a Odor (C pheres ald luced fron uction in 1 ce (C7) I Remarks :	3) 1) ng Living (C4) Filled Soils ;)	Roots (C3)	ndicator occurs on depressional ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
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ROLOCC estimate for the second secon	5 cm (2 inches) or more uch as vernal pools. 44 4ydrology Indicators: dicators (minimum of or nee Water (A1) Water Table (A2) ration (A3) rf Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver ce Soil Cracks (B6) dation Visible on Aerial rf-Stained Leaves (B9) ervations: later Present? Yes le Present? Yes Present? Yes present? Yes apillary fringe) corded Data (stream gr	ne requi nine) nriverin srine) Imagery	red; check all that red; check all that Salt Cr Biotic C Aquatic Hydrog resen (B7) No X Dept No X Dept	apply) ust (B11) Crust (B12) crust (B12) chvertebrigen Sulfide ed Rhizospice of Red chor Red uck Surfar Explain in h (inches) h (inches)	(4 inches) (7) rates (B13 a Odor (C pheres ald luced fron uction in 1 ce (C7) I Remarks :	3) 1) ng Living (C4) Filled Soils ;)	Roots (C3)	ndicator occurs on depressional ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site:	60656629 SMUD	Country Acres Solar	Cit	y/County: Placer Court	11Y		Sampling Da	te:	04/27/21
Applicant/Owner:	SMUD				-	State: CA	Sampling Po	int:	034 B
Investigator(s):	J. Wurlitzer and O	Routt	1	Section, Township,	Range:	20 11N 5E			
Landform (hillstop	e, terrace, etc.):	Terrace		Local relief (concave	convex	(, none): concave		Slope (%):	0.1%
Subregion (LRR):	Mediterranean Cal	ilomia (LRR C)	Lat		-	Long:		Datum	NAD 83
Soil Map Unit Nan	ne: San Joaqu	in-Cometa sandy loam	IS, 1-5% Slop	pes	_	NWI Classification	n: n/a		
Are climatic / hydr	ologic conditions or	n the site typical for this	s time of yea	ar? Yes_		No X	(If no, explain in	Remarks	.)
Are Vegetation	Soll X	, or Hydrology	sig	gnificantly disturbed?	Are "	Normal Circumsta	nces" present?	Yes X	No
Are Vegetation	Soll	, or Hydrology	na	iturally problematic?	(If nee	eded, explain any	answers in Remark	(s.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X	No No No	x	is the Sampled Area within a Wetland?	Yes	No	x
Remarks: Upland point paired to wel rain for the rain year to date, when n located about 3 miles west of project	ormal is 3	35 Inct	ies for t	he County	(Placer County rain gauge #			

	Total Cover		That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
=	Total Cover	=	Species Across All Strata: 1 (B) Percent of Dominant Species
-	Total Cover	-	
			That Are OBL, FACW, or FAC:(A/B)
			Prevalence Index Worksheet: Total % Cover of: Multiply by:
			OBL species x1 =
	1		FACW species x2
	-		FAC species x3 -
			FACU species x4 =
	Total Cover		UPL species x5
115		Contail.	Column Totals:(A)(B)
	Yes		Prevalence Index = B/A =
		1	
	, <u> </u>		Hydrophytic Vegetation Indicators:
	i		X Dominance Test is >50%
1%		FAC	Prevalence Index is ≤3.0 ¹
1%	_	NL	Morphological Adaptationd ¹ (Provide supporting
3%	2	NL	data in Remarks or on a separate sheet)
1%	-	FACU	
62%	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Hydrophytic Vegetation Present? Yes X No
	3% 1% 62%	35% Yes 8% 8% 5% 1% 1% 3% 1% 62% = Total Cover -Total Cover	8% FACU 8% NL 5% FACU 1% FAC 1% NL 3% NL 1% FACU 3% NL 62% =Total Cover

	scription: (Describe)	to the de	onth nood	d to document	the indice	ator or co	nfirm the abo	ance of india	atore)		
		to the de	han ueege			ator or co	mini the abs	ence of India	ators.)		
epth	Matrix	01	Calar (n	Redox Feat	1.2	Loc ²	Turker			Deservative.	
nches)	Color (moist)	%	Color (n		Type		Texture	<u> </u>	1	Remarks	
4	2.5YR 5/6	75	10R 4/6	25	c c	M	loamy sand loamy sand				
10	5YR 5/4	15	10R 4/6	85	<u> </u>	M	loamy sand				
		_				_					
		_	_		_	_					
pe: C=C	Concentration, D=Depletio	n, RM=Re	educed Matr	ix, CS=Covered o	r Coated Sa	and Grains.	² Location: PL	=Pore Lining, M	1=Matrix.		
/dric So	il Indicators: (Applica	able to a	II LRRs, u	nless otherwise	e noted.)		Indicators f	or Problemat	ic Hydric So	vils ³ :	
	sol (A1)			Sandy Redox (S				luck (A9) (LR			
-	Epipedon (A2)			Stripped Matrix				luck (A10) (LI			
	(Histic (A3)			Loamy Mucky M		1		ed Vertic (F18			
-	ogen Sulfide (A4)			Loamy Gleyed M				arent Material			
_	ified Layers (A5) (LRR	C		Depleted Matrix		/		Explain in Re			
-							- Other (c.vpraint in Re	ndiks)		
	Muck (A9) (LRR D)	0 /844		Redox Dark Sur		71					
	eted Below Dark Surfac	e (A11)		Depleted Dark S		0					
-	Dark Surface (A12)			Redox Depressi			3	Indicators of h			d
100	ly Mucky Mineral (S1)			Vernal Pools (F9	9)				rology must b		
	ly Gleyed Matrix (S4) e Layer (if present):							unless dis	urbed or prol	blematic.	
ling, 5 p	ew small pieces of grave ercent or more distinct a depth ≤10 cm (4 inch	or promin	nent redox	concentrations of		les. Root p		ve no redox. I			
ling, 5 p	ercent or more distinct	or promin	nent redox	concentrations of		les. Root p	ore linings have	ve no redox. I	n closed dep	ressions sul	bject to
ding, 5 p starts at	ercent or more distinct a depth ≤10 cm (4 inch	or promin	nent redox	concentrations of		les. Root p	ore linings have	ve no redox. I	n closed dep	ressions sul	bject to
ling, 5 p starts at ROLOG etland H	ercent or more distinct a depth ≤10 cm (4 inch sy lydrology Indicators:	or promit nes) from	nent redox the soil su	concentrations of		les. Root p	ore linings have	ve no redox. I	n closed dep	ressions sul	bject to
ting, 5 p starts at ROLOG etland H	ercent or more distinct a depth ≤10 cm (4 inch	or promit nes) from	nent redox the soil su	concentrations of		les. Root p	oore linings haves or pore lin	ve no redox. I	n closed depi r that is 5 cm	ressions sul (2 inches)	bject to or more
ling, 5 p starts at ROLOG etland H imary In	ercent or more distinct a depth ≤10 cm (4 inch sy lydrology Indicators:	or promit nes) from	nent redox the soil su ed; check :	concentrations of	occurring a	les. Root p	oore linings haves or pore lin	ve no redox. I nings in a laye	n closed depi r that is 5 cm	ressions sul (2 inches) (2 inches)	bject to or more
ling, 5 p starts at ROLOG etland F imary In _ Surfa	ercent or more distinct a depth ≤10 cm (4 inch sy sy sy drology Indicators: dicators (minimum of or	or promit nes) from	ed; check :	concentrations of riface.	occurring a	les. Root p	oore linings haves or pore lin	ve no redox. I nings in a laye econdary Indi Water	n closed dep r that is 5 cm cators (2 or r	nore require Riverine)	bject to or more
ROLOG etland H mary In _ Surfa _ High	ercent or more distinct a depth ≤10 cm (4 inch sy Aydrology Indicators: dicators (minimum of or nce Water (A1)	or promit nes) from	ed; check :	concentrations of rface. all that apply) Salt Crust (B11)	2)	les. Root p as soft mas	oore linings haves or pore lin	ve no redox. I nings in a laye iecondary Indi Water Sedim	n closed dep r that is 5 cm cators (2 or r Marks (B1) (nore require Riverine) (B2) (River	bject to or more
ROLOG etland F mary In Surfa High Satur	ercent of more distinct a depth ≤10 cm (4 inch sy Hydrology Indicators: dicators (minimum of on ince Water (A1) Water Table (A2)	or promin nes) from ne requir	ed; check :	concentrations of Inface. all that apply) Salt Crust (B11) Biotic Crust (B12)	2) prates (B13	les. Root p iss soft mas	oore linings haves or pore lin	ve no redox. I nings in a laye econdary Indi Water Sedim Drift D	n closed dep r that is 5 cm cators (2 or r Marks (B1) (ent Deposits	nore require Riverine) (B2) (Riverine)	bject to or more
ROLOG etland H mary In Surfa High Satur Vate	ercent of more distinct a depth ≤10 cm (4 inch sy 4ydrology Indicators: dicators (minimum of on ace Water (A1) Water Table (A2) ration (A3)	or promin nes) from ne requir rine)	ed; check :	concentrations of Inface. all that apply) Salt Crust (B11) Biotic Crust (B12 Aquatic Inverteb	2) e Odor (C	les. Root p is soft mas	ore linings has ses or pore lin SS	ve no redox. I nings in a laye econdary Indi Water Sedim Drift D Draina	n closed depr r that is 5 cm cators (2 or r Marks (B1) (ent Deposits eposits (B3)	ressions sul (2 inches) ((2 inches) ((2 inches) ((2 inches) (B2) (Riverine) (B10)	bject to or more
ROLOG etland F mary In Surfa High Satur Vate Sedir	ercent of more distinct a depth ≤10 cm (4 inch sy Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonriver	or promin hes) from ne requir ne requir nrine) nriverin	ed; check :	concentrations of Inface. all that apply) Salt Crust (B11) Biotic Crust (B13) Aquatic Inverteb Hydrogen Sulfid	2) rates (B13 e Odor (C pheres alo	les. Root p is soft mas 3) 1) ong Living	ore linings has ses or pore lin SS	ve no redox. I nings in a laye secondary Indi Water Sedim Drift D Draina Dry-Se	n closed depr r that is 5 cm <u>cators (2 or r</u> Marks (B1) (ent Deposits eposits (B3) ge Patterns (ressions sul (2 inches) ((2 inches) ((2 inches) ((2 inches) ((2 inches) ((8 in	bject to or more
ROLOG etland H mary In Surfa Batur Satur Satur Satur Satur Satur Drift	ercent of more distinct a depth ≤10 cm (4 incl sy Hydrology Indicators: dicators (minimum of or cace Water (A1) Water Table (A2) ration (A3) rr Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver	or promin hes) from ne requir ne requir nrine) nriverin	ed; check :	all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec	2) rates (B13 e Odor (C pheres alo duced Iron	 a) a) b) b) c) <	ore linings has ses or pore lin 	ve no redox. I nings in a laye iecondary Indi Water Sedim Drift D Draina Dry-Se Crayfi:	n closed depr r that is 5 cm cators (2 or n Marks (B1) (ent Deposits eposits (B3) ge Patterns (eason Water sh Burrows ((ressions sul (2 inches) ((2 in	ed)
ROLOG etland H mary In Surfa High Satur Satur Sedir Drift Surfa Surfa	ercent of more distinct a depth ≤10 cm (4 inch sy Hydrology Indicators: dicators (minimum of or cace Water (A1) Water Table (A2) ration (A3) rr Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver cce Soil Cracks (B6)	or promin nes) from ne requir rine) mriverine	ed; check :	all that apply) Salt Crust (B11) Biotic Crust (B11) Biotic Crust (B13) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec	2) rates (B13 e Odor (C spheres ald duced Iron luction in 1	 a) a) b) b) c) <	ore linings has ses or pore lin 	ve no redox. I nings in a laye secondary Indi Water Sedim Drift D Draina Dry-Si Crayfi: Satura	n closed depr r that is 5 cm cators (2 or r Marks (B1) (ent Deposits eposits (B3) ge Patterns (eason Water ih Burrows (0 tion Visible o	ressions sul (2 inches) + (2 inches) + (2 inches) + (2 inches) + (2 inches) + (3 inches) (3 inches) (3 inches) (3 inches) (3 inches) + (3 inches) +	ed)
ROLOG etland H mary In Surfa High Satur Satur Sedir Drift Surfa Inunc	ercent of more distinct a depth ≤10 cm (4 inch sy Hydrology Indicators: dicators (minimum of or icce Water (A1) Water Table (A2) ration (A3) rr Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver icce Soil Cracks (B6) fation Visible on Aerial	or promin nes) from ne requir rine) mriverine prine)	ed; check : (B7)	concentrations of Inface. all that apply) Salt Crust (B11) Biotic Crust (B11) Biotic Crust (B11) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rer Recent Iron Rec Thin Muck Surfa	2) rates (B13 e Odor (C spheres ald duced from fuction in T icce (C7)	 a) a) b) b) c) <	ore linings has ses or pore lin 	ve no redox. I nings in a laye econdary Indi Water Sedim Drift D Draina Dry-Se Crayfi: Satura Shallo	n closed depr r that is 5 cm cators (2 or r Marks (B1) (ent Deposits eposits (B3) ge Patterns (ason Water th Burrows (0 tion Visible o w Aquitard (D	(2 inches) ((2 inches) ((2 inches) ((2 inches) ((2 inches) ((8 iverine) (8 i) ((2 inches) ((8 iverine) (8 inches) ((8 iverine) (8 inches) ((8 iverine) (8 inches) ((2 inches) ((1	ed)
ROLOG etland F imary In Surfa High Satur Vate Sedir Drift I Surfa Nurfa Wate Wate	ercent of more distinct a depth ≤10 cm (4 inch sy Aydrology Indicators: dicators (minimum of or icce Water (A1) Water Table (A2) ration (A3) rr Marks (B1) (Nonriver ment Deposits (B2) (No Deposits (B3) (Nonriver icce Soil Cracks (B6) dation Visible on Aerial rr-Stained Leaves (B9)	or promin nes) from ne requir rine) mriverine prine)	ed; check : ed; check : e) (B7)	all that apply) Salt Crust (B11) Biotic Crust (B11) Biotic Crust (B13) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec	2) rates (B13 e Odor (C spheres ald duced from fuction in T icce (C7)	 a) a) b) b) c) <	ore linings has ses or pore lin 	ve no redox. I nings in a laye econdary Indi Water Sedim Drift D Draina Dry-Se Crayfi: Satura Shallo	n closed depr r that is 5 cm cators (2 or r Marks (B1) (ent Deposits eposits (B3) ge Patterns (eason Water ih Burrows (0 tion Visible o	(2 inches) ((2 inches) ((2 inches) ((2 inches) ((2 inches) ((8 iverine) (8 i) ((2 inches) ((8 iverine) (8 inches) ((8 iverine) (8 inches) ((8 iverine) (8 inches) ((2 inches) ((1	ed)
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ding, 5 p starts at DROLOG /etland H rimary In Satur Satur Wate Sedir Drift I Surfa Unum Wate ield Obs urface W /ater Tab aturation ncludes c cribe Re	ercent of more distinct a depth ≤10 cm (4 incl a depth ≤10 cm (4 in	or promines) from ne requir nriverine) magery	ed; check : ed; check : ed; check : e) (B7) No X No X X	concentrations of Inface. all that apply) Salt Crust (B11) Biotic Crust (B11) Biotic Crust (B11) Aquatic Inverteb Hydrogen Sulfid Oxidized Rhizos Presence of Ret Recent Iron Rec Thin Muck Surfa Other (Explain in Depth (inches Depth (inches	2) rates (B1: e Odor (C pheres ald duced fron luction in T ice (C7) n Remarks): 	 a) soft mas a) 1) a) Constraints b) Constraints c) Constr	Nore linings has ses or pore lin Roots (C3) (C6) Wetland Hyd	ve no redox. I nings in a laye econdary Indi Water Sedim Drift D Draina Dry-Sa Crayfie Satura Shallo FAC-N	n closed depr r that is 5 cm cators (2 or r Marks (B1) (ent Deposits eposits (B3) ge Patterns (ge Patterns (ge Patterns (ge Patterns (dion Visible o w Aquitard (E leutral Test ()	ressions sul (2 inches) ((2 inches) ((2 inches) ((2 inches) ((2 inches) ((3 inches) ((2 inches) ((3 in	bject to or more 33d) ine)
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Project/Site: 60656629 SMUD Country Acres Solar	City/County: Placer County		Sampling Date	04/26/21
Applicant/Owner: SMUD		State: CA	Sampling Point	635 B
Investigator(s); J. Wurlitzer, T. Torrez, and O. Routt	Section, Township, Range:	20 11N 5E		V
Landform (hillslope, terrace, etc.): Terrace	Local relief (concave, convex	none): convex	SI	ope (%); 2%
Subregion (LRR): Mediterranean California (LRR C) Lat:	38.79001778	Long:	-121,4368313	Datum: NAD 83
Soil Map Unit Name: San Joaquin-Cometa sandy loams, 1-5% s	lopes	NWI Classification:	n/a	
Are climatic / hydrologic conditions on the site typical for this time of y	rear? Yes	No X	(If no, explain in F	Remarks.)
Are Vegetation, Soll X, or Hydrology	significantly disturbed? Are "I	Iormal Circumstant	es present? Ye	s X No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If nee	ded, explain any ar	swers in Remarks	.)

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	X	No No	is the Sampled Area within a Wetland?	Yes	No	x
Wetland Hydrology Present? Remarks: Upland point paired to wet Inches of rain for the rain year to dat	e. when n	ormal	IS 35 II	he County (Placer County rain			

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
Tree Suatum (Plot size:)				That Are OBL, FACW, or FAC: 0 (A)
		_		Total Number of Dominant Species Across All Strata: 3 (B)
	_	Total Cove	; 	Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
				OBL species x1 =
	_		_	FACW species x2
			7	FAC speciesX3 =
		_		FACU species x4 =
		Total Cove	0	UPL species x5
Herb Stratum (Plot size: _r = 6.ft_)		10.00		Column Totals:(A)(B)
Avena fatua	25%	Yes	NL	Prevalence Index = B/A =
Elymus caput-medusae	20%	Yes	NL	
Bromus hordeaceous	20%	Yes	FACU	Hydrophytic Vegetation Indicators:
Vicia villosa ssp. varia	15%		NL	Dominance Test is >50%
Bromus diandrus	10%		NL	Prevalence Index is ≤3,0 ¹
Rumex crispus	1%		FAC	Morphological Adaptationd1 (Provide supporting
Erodium botrys	3%	<u> </u>	FACU	data in Remarks or on a separate sheet)
A REAL PROPERTY AND A REAL	-			
Woody Vine Stratum (Plot size:)	94%	=Total Cove	f	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum6%		-Total Cove Biolic Crust		Hydrophytic Vegetation Present? Yes No X
% Bare Ground in Herb Stratum6% Remarks:				

OIL										Sampling I	Point:		03	35-E
Profile De	scription: (Describe	to the de	pth neede	d to do	cument	the indica	ator or co	onfirm the a	absence	of indicators.)			
Depth	Matrix				dox Feat									
(inches)	Color (moist)	%	Color (m		%	Type ¹	Loc ²	Text	ture		Rem	arks		
0-10	2.5YR 4/3	60	10R 4/4	ioloty	40		M	loam	curo -	Neither co	arse nor si			
0-10	2.511(4)5		101(4/4		40	<u> </u>	141	Ioan		Neither et	al 36 Hot 31	noour		
	·													
							-			-				
							-	-		-				
								-	-	-				
Trans C. C	encentration D Doulatio	DM D	durand Market			Contrad Co	- d Croine	2 anotion	DI Dere	Lining, M=Matri	6			
Type: C=C	oncentration, D=Depletio	n, RM=Re	auced Mau	IX, CS=C	overed or	Coated Sa	and Grains	. Location:	PL=Pore	Lining, M=Mau	х.			
Hydric So	il Indicators: (Application	able to al	ll LRRs, ur	nless ot	herwise	noted.)		Indicator	rs for Pro	oblematic Hyd	tric Soils ³ :			
Histo	sol (A1)			Sandy R	edox (S	5)		1 cr	n Muck (A9) (LRR C)				
Histic	Epipedon (A2)		_	Stripped	Matrix (S6)		2 cr	n Muck (A10) (LRR B)				
	Histic (A3)					ineral (F1))		luced Ve					
	ogen Sulfide (A4)					latrix (F2)				Material (TF2)				
	fied Layers (A5) (LRR	C)		-	d Matrix		·			in in Remarks	5			
	Muck (A9) (LRR D)					ace (F6)				are streaming				
	ted Below Dark Surfac	ce (A11)				urface (F:	7)							
	Dark Surface (A12)				epressio				3					
	y Mucky Mineral (S1)				Pools (F9					tors of hydrop and hydrology				
	y Gleyed Matrix (S4)		_			/				less disturbed				
_	e Layer (if present):													
	ne													
	1200						11.	daia Call D			Vac			v
Type: <u>no</u> Depth (incl emarks: Ev	hes): en though sample has	greater ti	han 5% red	dox, the	sample i	s from a c		edric Soil P ea and is no		depression so	Yes F8 would n	_	_	x
Depth (incl		greater ti	han 5% red	dox, the	sample i	s from a c				depression so	-	_	_	<u>x</u>
Depth (incl emarks: Ev	en though sample has	greater ti	han 5% rec	dox, the	sample i	s from a c				depression so	-	_	_	<u>x</u>
Depth (incl emarks: Ev /DROLOG Wetland H	Y lydrology Indicators:					s from a c			ot from a		F8 would r	ot apply.		<u>x</u>
Depth (incl emarks: Ev /DROLOG Wetland H Primary In	Y lydrology Indicators: dicators (minimum of o		ed; check a	all that a	pply)	s from a c			ot from a	dary Indicators	F8 would n	ot apply.		<u>x</u>
Depth (incl emarks: Ev /DROLOG Wetland H Primary In- Surfa	Y Y dicators: (minimum of o ce Water (A1)		ed; check a	all that a Salt Cru	pply) st (B11)				ot from a	dary Indicators Water Marks	F8 would r (2 or more (B1) (Rive	ot apply. required)	x
Depth (incl marks: Ev /DROLOG Wetland H Primary In Surfa High	en though sample has Y Ydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2)		ed; check a	all that a Salt Cru Biotic Cr	pply) st (B11) rust (B12	0	convex ar		ot from a	lary Indicators Water Marks Sediment De	F8 would n (2 or more (B1) (Rive sposits (B2)	required rine) (Riverin)	<u>x</u>
Depth (incl emarks: Ev /DROLOG Wetland H Primary In Surfa High Satur	en though sample has Y lydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3)	one require	ed; check a	all that a Salt Cru Biotic Cr Aquatic	pply) st (B11) rust (B12 Inverteb	?)	convex ar		ot from a	lary Indicators Water Marks Sediment De Drift Deposit	F8 would r (2 or more (B1) (Rive posits (B2) s (B3) (Rive	required rine) (Riverin erine))	<u>x</u>
Depth (incl marks: Ev /DROLOG Wetland H Primary In Surfa High Satur Wate	en though sample has Y lydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriver	ne require rine)	ed; check a	all that a Salt Cru Biotic Cr Aquatic Hydroge	pply) st (B11) rust (B12 Inverteb en Sulfide	?) rates (B13 ≩ Odor (C	3) 1)	ea and is no	Second	lary Indicators Water Marks Sediment De Drift Deposit Drainage Pa	E8 would r (2 or more (B1) (Rive posits (B2) s (B3) (Rive tterns (B10	required rine) (Riverin erine))	<u>x</u>
Appendix (inclosed of the second of the seco	en though sample has Y lydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonriven nent Deposits (B2) (No	ne require rine)	ed; check a	all that a Salt Cru Biotic Cr Aquatic Hydroge Oxidized	pply) st (B11) rust (B12 Inverteb en Sulfide 1 Rhizos	?) rates (B13 e Odor (C pheres alo	3) 1) 2000 Living		Second	lary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season	F8 would r (2 or more (B1) (Rive posits (B2) s (B3) (Riv tterns (B10 Water Tabl	required rine) (Riverin erine))	<u>x</u>
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Pepth (inc) marks: Ev YDROLOG Wetland H Primary In Satur Surfa Bedir Surfa Surfa Surfa Surface W Water Tab Saturation (includes c ascribe Re	en though sample has Y ydrology Indicators: ficators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive nent Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6) ation Visible on Aerial r-Stained Leaves (B9) ervations: ater Present? Yes le Present? Yes Present? Yes apillary fringe) corded Data (stream gi	rine) priverine erine) Imagery (ed; check a	all that a Salt Cru Biotic Cr Aquatic I Hydroge Oxidizerc Present I Thin Mu Other (E Depth Depth Depth	pply) st (B11) ust (B12) Inverteb an Sulfide I Rhizos e of Red ron Red ck Surfa xplain in (inches) (inches) (inches)	() rates (B13 o Odor (C pheres ald luced fron uction in 1 ce (C7) Remarks :	3) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1	Roots (C3) s (C6)	Second Second	lary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu FAC-Neutral	F8 would r (2 or more (B1) (Rive sposits (B2) s (B3) (Rive tterns (B10 Water Tabl rows (C8) isible on Ae tard (D3) Test (D5)	required rrine) (Riverin erine)) e (C2) erial Imag) ie) iery (C:	:9)
Pepth (inc) marks: Ev YDROLOG Wetland H Primary In Satur Surfa Bedir Surfa Surfa Surfa Surface W Water Tab Saturation (includes c ascribe Re	en though sample has Y ydrology Indicators: ficators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive nent Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6) ation Visible on Aerial r-Stained Leaves (B9) ervations: ater Present? Yes le Present? Yes Present? Yes apillary fringe) corded Data (stream gi	rine) priverine erine) Imagery (ed; check a	all that a Salt Cru Biotic Cr Aquatic I Hydroge Oxidizerc Present I Thin Mu Other (E Depth Depth Depth	pply) st (B11) ust (B12) Inverteb an Sulfide I Rhizos e of Red ron Red ck Surfa xplain in (inches) (inches) (inches)	() rates (B13 o Odor (C pheres ald luced fron uction in 1 ce (C7) Remarks :	3) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1	Roots (C3) s (C6)	Second Second	lary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu FAC-Neutral	F8 would r (2 or more (B1) (Rive sposits (B2) s (B3) (Rive tterns (B10 Water Tabl rows (C8) isible on Ae tard (D3) Test (D5)	required rrine) (Riverin erine)) e (C2) erial Imag) ie) iery (C:	:9)
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Depth (incl marks: Ev /DROLOG Wetland H Primary In Surfa High Satur Wate Surfa Inunc Wate Field Obs Surface W Water Tab Saturation (includes c iscribe Re marks: No	en though sample has Y ydrology Indicators: ficators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive nent Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6) ation Visible on Aerial r-Stained Leaves (B9) ervations: ater Present? Yes le Present? Yes Present? Yes apillary fringe) corded Data (stream gi	rine) priverine erine) Imagery (ed; check a	all that a Salt Cru Biotic Cr Aquatic I Hydroge Oxidizerc Present I Thin Mu Other (E Depth Depth Depth	pply) st (B11) ust (B12) Inverteb an Sulfide I Rhizos e of Red ron Red ck Surfa xplain in (inches) (inches) (inches)	() rates (B13 o Odor (C pheres ald luced fron uction in 1 ce (C7) Remarks :	3) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1	Roots (C3) s (C6)	Second Second	lary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V Shallow Aqu FAC-Neutral	F8 would r (2 or more (B1) (Rive posits (B2) s (B3) (Rive tterns (B10 Water Tabl rows (C8) isible on Ae itard (D3) Test (D5) Yes	required rrine) (Riverin erine)) e (C2) erial Imag) ie) iery (Cs	:9) X

Project/Site:	60656629 SMUL	O Country Acres Solar		City/County: Placer County	- S	Sampling Date:	-	04/27/21
Applicant/Owner:	SMUD				State: CA	Sampling Point	1	026 C
Investigator(s):	T. Torrez and G.	Battaglia		Section, Township, Range:	20 11N 5E			
Landform (hillstope	e, terrace, etc.):	Terrace		Local relief (concave, conve	x, none): concave	Slú)pe (%):	2%
Subregion (LRR):	Mediterranean C	alifornia (LRR.C)	Lat	38.79138	Long:	121.43874	Datum: N	AD 83
Soil Map Unit Nam	e: Xerfluver	its, hardpari substratum	<u></u>		NWI Classification	n: n/a		
Are climatic / hydro	ologic conditions o	n the site typical for this !	time of y	ear? Yes	No X	(If no, explain in R	temarks.)	
Are Vegetation	Soil X	. or Hydrology		significantly disturbed? Are	Normal Circumsta	nces' present? Yes	s <u>X</u> N	o
Are Vegetation	, Sóil	, or Hydrology	_	naturally problematic? (If ne	eded, explain any	answers in Remarks.))	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X X	No No No	is the Sampled Area within a Wetland?	Yes_	x	No
							The rain year to date, when normal is 35 miles west of project site along Pleasan

	- Total Cover		That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC; <u>100%</u> (A/E
	- Total Cover		Species Across All Strata:(B) Percent of Dominant Species
-	Total Cover	_	
			THREATE ODE THOM, OTTAG, 100% (A/E
			Prevalence index Worksheet: Total % Cover of; Multiply by:
			OBL species x1 =
			FACW species x2 -
			FAC species x3
			FACU species x4 =
	Total Cover		UPL species x5 =
			Column Totals: (A) (B)
20%	Yes	FACW	Prevalence Index = B/A =
5%	Yes	OBL	
0%		FACW	Hydrophytic Vegetation Indicators:
0%		NL	
5%	Yes		X Dominance Test is >50%
5%	_	FAC	Prevalence Index is ≤3.0 ¹
5%		OBL	Morphological Adaptationd ¹ (Provide supporting
3%	1 I I I	OBL	data in Remarks or on a separate sheet)
13%	=Total Cover	≥ 1	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		0%	Hydrophytic Vegetation Present? Yes X No
	5% 0% 0% 5% 5% 3% 3%	Yes 5% Yes 0% Yes 5% Yes	Yes FACW 5% Yes OBL 0% FACW NL 5% Yes FAC 3% Yes FAC 3% OBL 000 3% OBL 00 3% OBL 00 3% OBL 00 3%

			eptn neer		cumenr	the indica	ator or co	nfirm the at	osence a			
pth	Matrix	to the u	epurneet		dox Feat			initia che ui	Joender	or indicator s.y		
ches)	Color (moist)	%	Color		%	Type ¹	Loc ²	Textu	re		Remar	ks
4	10YR 4/2	80	2.5YR 3	<u>`</u>	20	C	M	clay loam			rtoma	
11	10YR 4/2	65	2.5YR 3		30%	c	M	sandy clay	loam			
	-		10R 2.5			C	M	-	Todam			
		_		_			\equiv					
		=	_	_	_	_	_		_			
pe: C=(Concentration, D=Depletion	on, RM=R	educed Ma	atrix, CS=C	overed or	Coated Sa	and Grains.					
	oil Indicators: (Applic	able to a	all LRRs,							blematic Hydr	ic Soils ³ :	
-	osol (A1)		_	· · · ·	Redox (S					(LRR C)		
	c Epipedon (A2)		_		Matrix ((LRR B)		
-	k Histic (A3)		_	1 D D		ineral (F1)				tic (F18)		
	rogen Sulfide (A4)	~	_			latrix (F2)).			Aaterial (TF2)		
-	tified Layers (A5) (LRR 1 Muck (A9) (LRR D)	0)	<u></u>		d Matrix (Dark Surf:			- Othe	(Expial	n in Remarks)		
	leted Below Dark Surfa		_				7)					
		ce (ATT)	_		u Dark Si Depressio	urface (F)	0					
	k Dark Surface (A12)		_		Pools (F9					ors of hydrophy		
	dy Mucky Mineral (S1)		_	ventar	-0015 (F9)				and hydrology m less disturbed o		
	dy Gleyed Matrix (S4) ve Layer (if present):								un	less distuibed o	i problema	ю.
s at a de	ches): <u>11 inches</u> 3 = A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas	from the	soil surfa	ce. A dep	leted mat	trix requir	a of 2 or le es a value	of 4 or more	nas a mi e and ch	nimum thicknes		
s at a de	3 = A layer that has a d epth ≤10 cm (4 inches)	from the	soil surfa	ce. A dep	leted mat	trix requir	a of 2 or le es a value	ss and that I of 4 or more	nas a mi e and ch	nimum thicknes	s of 5 cm (2	inches) if the
s at a de ding sol	3 – A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas	from the sses and/	soil surfa	ce. A dep	leted mat	trix requir	a of 2 or le es a value	ss and that I of 4 or more	nas a mi e and ch	nimum thicknes	s of 5 cm (2	inches) if the
s at a de ding sol ROLOC etland I	3 = A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas GY Hydrology Indicators:	from the sses and/	soil surfa	ce. À dep ings, are	leted mai required	trix requir	a of 2 or le es a value	ss and that I of 4 or more	nas a mii e and ch , 4/2.	nimum thicknes roma of 2 or les	s of 5 cm (ź s. Redox c	2 inches) if the oncentrations,
s at a de ding sol ROLOC etland I mary In	3 = A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas GY Hydrology Indicators: ndicators (minimum of c	from the sses and/	soil surfa	ce. À dep ings, are call that a	leted ma required	trix requir	a of 2 or le es a value	ss and that I of 4 or more	nas a mii e and ch , 4/2.	nimum thicknes roma of 2 or les lary Indicators (;	s of 5 cm (2 s. Redox c 2 or more re	2 inches) if the oncentrations equired)
s at a de ding sol ROLOC etland I mary In Surfa	3 – A layer that has a d epth ≾10 cm (4 inches) ft iron-manganese mas GY Hydrology Indicators: ndicators (minimum of c ace Water (A1)	from the sses and/	soil surfa	ce. À dep ings, are <u>call that a</u> Salt Cru	leted ma required apply) ist (B11)	trix requir in soils w	a of 2 or le es a value	ss and that I of 4 or more	nas a mii e and ch , 4/2.	nimum thicknes roma of 2 or les lary Indicators (; Water Marks (s of 5 cm (2 s. Redox c 2 or more re B1) (Riveri	P inches) if the oncentrations equired) ne)
ROLOC etland I mary In Surfa High	3 – A layer that has a d epth ≾10 cm (4 inches) ft iron-manganese mas GY Hydrology Indicators: Idicators (minimum of o ace Water (A1) Water Table (A2)	from the sses and/	soil surfa	ce. À dep ings, are <u>call that a</u> Salt Cru Biotic Ci	leted mai required apply) ist (B11) rust (B12	trix requir in soils w	a of 2 or le es a value ith matrix	ss and that I of 4 or more	nas a mii e and ch , 4/2.	nimum thicknes roma of 2 or les lary Indicators (Water Marks (Sediment Dep	s of 5 cm (2 s. Redox c 2 or more re B1) (Riveri osits (B2) (1	e inches) if the oncentrations equired) ne) Riverine)
s at a de ding sol ROLOC etland I mary In Surfa High Satu	3 – A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas GY Hydrology Indicators: idicators (minimum of d ace Water (A1) Water Table (A2) iration (A3)	from the ses and/ : one requi	soil surfa	ce. À dep ings, are <u>call that a</u> Salt Cru Biotic Ci Aquatic	leted mai required pply) ist (B11) rust (B12) Invertebr	trix requir in soils w) ;ates (B13	a of 2 or le es a value ith matrix	ss and that I of 4 or more	nas a mii e and ch , 4/2.	nimum thicknes roma of 2 or les lary Indicators (Water Marks (Sediment Dep Drift Deposits	s of 5 cm (2 s. Redox c 2 or more re B1) (Riveri osits (B2) (1 (B3) (River	e inches) if the oncentrations equired) ne) Riverine)
ROLOC atland I mary In Surfa High Satu Wate	3 = A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas GY Hydrology Indicators: dicators (minimum of of ace Water (A1) Water Table (A2) iration (A3) er Marks (B1) (Nonrive	from the sees and/ one requi	e soil surfa for pore lin red; check	ce. À dep ings, are <u>call that a</u> Salt Cru Biotic Ci Aquatic Hydroge	leted mai required pply) ist (B11) rust (B12) Invertebr en Sulfide	trix requir in soils w) rates (B1: e) Odor (C	a of 2 or le es a value ith matrix 3) 1)	ss and that I of 4 or more colors of 4/1,	nas a mii e and ch , 4/2.	nimum thicknes roma of 2 or les lary Indicators (Water Marks (Sediment Dep Drift Deposits Drainage Patte	s of 5 cm (2 s. Redox c 2 or more re B1) (Riveri osits (B2) (((B3) (River arms (B10)	Prinches) if the oncentrations equired) ne) Riverine) ine)
ROLOC etland I mary In Surfa High Satu Wate Sedi	3 = A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas GY Hydrology Indicators: dicators (minimum of c ace Water (A1) i Water Table (A2) iration (A3) er Marks (B1) (Nonrive ment Deposits (B2) (No	from the sees and/ one requi	e soil surfa for pore lin red; check	ce. À depi ings, are <u>call that a</u> Salt Cru Biotic Ci Aquatic Hydroge Oxidized	leted mai required pply) ist (B11) rust (B12) Invertebr en Sulfide d Rhizosp	trix requir in soils w) rates (B13 9 Odor (C pheres alo	a of 2 or le es a value ith matrix ith matrix 3) 1) ng Living	ss and that I of 4 or more	nas a mili e and ch , 4/2. Second	nimum thickness roma of 2 or les lary Indicators (; Water Marks (Sediment Dep Drift Deposits Drainage Patte Dry-Season W	s of 5 cm (s. Redox c 2 or more re B1) (Riveri osits (B2) ((B3) (River erns (B10) fater Table	Prinches) if the oncentrations equired) ne) Riverine) ine)
ROLOC etland I mary In Surfa High Satu Satu Satu Drift	3 = A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas GY Hydrology Indicators: ndicators (minimum of c ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonrive ment Deposits (B2) (Norrive	from the sees and/ one requi	e soil surfa for pore lin red; check	ce. À depi ings, are <u>call that a</u> Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presenc	Ieted mai required pply) ist (B11) rust (B12) Invertebr en Sulfide d Rhizosp e of Red) ates (B13) Odor (Coheres alo uced Iron	a of 2 or le es a value ith matrix ()))) 1) ong Living (C4)	ss and that I e of 4 or more colors of 4/1,	nas a mii e and ch , 4/2.	nimum thickness roma of 2 or les lary Indicators (; Water Marks (Sediment Dep Drift Deposits Drainage Patte Dry-Season W Crayfish Burro	s of 5 cm (2 s. Redox co 2 or more re B1) (Riveri osits (B2) ((B3) (River erns (B10) fater Table ws (C8)	P inches) if the oncentrations equired) ne) Riverine) ine) (C2)
ROLOC etland I surfa Surfa Satu Satu Satu Drift Surfa	3 = A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas gy Hydrology Indicators: ndicators (minimum of c ace Water (A1) Water Table (A2) aration (A3) er Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ace Soil Cracks (B6)	from the sses and/ one requi orine) onriverin erine)	red; check	ce. À dep ings, are <u>call that a</u> Salt Cru Biotic C Aquatic Hydroge Oxidized Presenc Recent	Ieted mai required pply) ist (B11) rust (B12) Invertebr en Sulfide d Rhizosp e of Red Iron Redi) ates (B13) Odor (C pheres alo uced Iron uction in 1	a of 2 or le es a value ith matrix ith matrix 3) 1) ng Living	ss and that I e of 4 or more colors of 4/1,	nas a mili e and ch , 4/2. Second	nimum thickness roma of 2 or les lary Indicators (; Water Marks (Sediment Dep Drift Deposits Drainage Patte Dry-Season W Crayfish Burro Saturation Visi	s of 5 cm (2 s. Redox co 2 or more re B1) (Riveri osits (B2) ((B3) (River arms (B10) (ater Table ws (C8) ble on Aeri	P inches) if the oncentrations equired) ne) Riverine) ine) (C2)
ROLOC stland I Surfa Surfa Satu Satu Drift Surfa Surfa Inun	3 = A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas GY Hydrology Indicators: idicators (minimum of c ace Water (A1) Water Table (A2) ration (A3) ar Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ace Soil Cracks (B6) dation Visible on Aerial	from the sses and/ one requi onriverine) erine) I Imagery	red; check	ce. À dep ings, are <u>call that a</u> Salt Cru Biotic C Aquatic Hydroge Oxidized Presenc Recent Thin Mu	Ieted mai required ppply) ist (B11) rust (B12) Invertebr an Sulfide d Rhizosp ce of Red Iron Redu ick Surfac	trix requir in soils w) ates (B13 e Odor (C pheres ald uced Iron ucetion in 1 ce (C7)	a of 2 or le es a value ith matrix (ith matrix ()))))))))))))) (C4) Filled Soils	ss and that I e of 4 or more colors of 4/1,	nas a mili e and ch , 4/2. Second	nimum thickness roma of 2 or les lary Indicators (; Water Marks (Sediment Dep Drift Deposits Drainage Patte Dry-Season W Crayfish Burro Saturation Visi Shallow Aquita	s of 5 cm (2 s. Redox co 2 or more re B1) (Riveri osits (B2) (((B3) (River rms (B10) (ater Table ws (C8) ible on Aeria ard (D3)	P inches) if the oncentrations equired) ne) Riverine) ine) (C2)
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ROLOC ROLOC Relations Surfa Garage Satu Satu Satu Satu Satu Satu Satu Satu	3 – A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas A management of the distribution A management of the distribution (A) ar Marks (B1) (Nonrive ment Deposits (B2) (No ment Deposits (B3) (Nonrive ace Soil Cracks (B6) dation Visible on Aerial ar-Stained Leaves (B9) Servations: Arter Present? Yes b Present? Yes 1 Present? Yes	rine) onriverine) I Imagery	red; check red; check (B7) No <u>X</u> No <u>X</u>	ce. À dep ings, are call that a Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E Depth Depth Depth	leted mai required ppply) ist (B11) rust (B12) Invertebr en Sulfide d Rhizosp e of Red Iron Redi Iron Redi	trix requir in soils w () rates (B13 e) Odor (C pheres alo uced Iron uction in 1 ce (C7) Remarks : :	a) a) a) a) b) c) c) c) c) c) c) c) c) c) c	ss and that I of 4 or more colors of 4/1, Roots (C3) (C6) Wetland H	Aas a miinas a miin a miinas a mi	nimum thickness roma of 2 or les lary Indicators (Water Marks (Sediment Dep Drift Deposits Drainage Patte Dry-Season W Crayfish Burro Saturation Visi Shallow Aquita FAC-Neutral T	s of 5 cm (2 s. Redox cd 2 or more re B1) (Riveri osits (B2) (((B3) (River arms (B10) (ater Table ws (C8) ble on Aeria ard (D3) iest (D5)	2 inches) if the oncentrations equired) ne) Riverine) ine) (C2) al Imagery (C
ROLOC etland I imary Ir Surfa	3 – A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas GY Hydrology Indicators: Idicators (minimum of c ace Water (A1) Water Table (A2) Iration (A3) ar Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ace Soil Cracks (B6) dation Visible on Aerial ace Soil Cracks (B6) dation Visible on Aerial ar-Stained Leaves (B9) Servations: /ater Present? Yes ble Present? Yes capillary fringe) accorded Data (stream g	erine) one requi prine) onriverin erine) I Imagery	red; check red; check (B7) No <u>X</u> No <u>X</u>	ce. À dep ings, are call that a Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E Depth Depth Depth	leted mai required ppply) ist (B11) rust (B12) Invertebr en Sulfide d Rhizosp e of Red Iron Redi Iron Redi	trix requir in soils w () rates (B13 e) Odor (C pheres alo uced Iron uction in 1 ce (C7) Remarks : :	a) a) a) a) b) c) c) c) c) c) c) c) c) c) c	ss and that I of 4 or more colors of 4/1, Roots (C3) (C6) Wetland H	Aas a miinas a miin a miinas a mi	nimum thickness roma of 2 or les lary Indicators (Water Marks (Sediment Dep Drift Deposits Drainage Patte Dry-Season W Crayfish Burro Saturation Visi Shallow Aquita FAC-Neutral T	s of 5 cm (2 s. Redox cd 2 or more re B1) (Riveri osits (B2) (((B3) (River arms (B10) (ater Table ws (C8) ble on Aeria ard (D3) iest (D5)	2 inches) if the oncentrations equired) ne) Riverine) ine) (C2) al Imagery (C
ROLOC etland I imary Ir Surfa	3 = A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas GY Hydrology Indicators: dicators (minimum of c ace Water (A1) Water Table (A2) Iration (A3) er Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ace Soil Cracks (B6) dation Visible on Aerial er-Stained Leaves (B9) servations: Vater Present? Yes Depresent? Yes capillary fringe)	erine) one requi prine) onriverin erine) I Imagery	red; check red; check (B7) No <u>X</u> No <u>X</u>	ce. À dep ings, are call that a Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E Depth Depth Depth	leted mai required ppply) ist (B11) rust (B12) Invertebr en Sulfide d Rhizosp e of Red Iron Redi Iron Redi	trix requir in soils w () rates (B13 e) Odor (C pheres alo uced Iron uction in 1 ce (C7) Remarks : :	a) a) a) a) b) c) c) c) c) c) c) c) c) c) c	ss and that I of 4 or more colors of 4/1, Roots (C3) (C6) Wetland H	Aas a miinas a miin a miinas a mi	nimum thickness roma of 2 or les lary Indicators (Water Marks (Sediment Dep Drift Deposits Drainage Patte Dry-Season W Crayfish Burro Saturation Visi Shallow Aquita FAC-Neutral T	s of 5 cm (2 s. Redox cd 2 or more re B1) (Riveri osits (B2) (((B3) (River arms (B10) (ater Table ws (C8) ble on Aeria ard (D3) iest (D5)	2 inches) if the oncentrations equired) ne) Riverine) ine) (C2) al Imagery (C
ROLOC etland I imary Ir Surfa	3 – A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas GY Hydrology Indicators: Idicators (minimum of c ace Water (A1) Water Table (A2) Iration (A3) ar Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ace Soil Cracks (B6) dation Visible on Aerial ace Soil Cracks (B6) dation Visible on Aerial ar-Stained Leaves (B9) Servations: /ater Present? Yes ble Present? Yes capillary fringe) accorded Data (stream g	erine) one requi prine) onriverin erine) I Imagery	red; check red; check (B7) No <u>X</u> No <u>X</u>	ce. À dep ings, are call that a Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E Depth Depth Depth	leted mai required ppply) ist (B11) rust (B12) Invertebr en Sulfide d Rhizosp e of Red Iron Redi Iron Redi	trix requir in soils w () rates (B13 e) Odor (C pheres alo uced Iron uction in 1 ce (C7) Remarks : :	a) a) a) a) b) c) c) c) c) c) c) c) c) c) c	ss and that I of 4 or more colors of 4/1, Roots (C3) (C6) Wetland H	Aas a miinas a miin a miinas a mi	nimum thickness roma of 2 or les lary Indicators (Water Marks (Sediment Dep Drift Deposits Drainage Patte Dry-Season W Crayfish Burro Saturation Visi Shallow Aquita FAC-Neutral T	s of 5 cm (2 s. Redox cd 2 or more re B1) (Riveri osits (B2) (((B3) (River arms (B10) (ater Table ws (C8) ble on Aeria ard (D3) iest (D5)	2 inches) if the oncentrations equired) ne) Riverine) ine) (C2) al Imagery (C
ROLOC etland I imary Ir Surfa	3 – A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas GY Hydrology Indicators: Idicators (minimum of c ace Water (A1) Water Table (A2) Iration (A3) ar Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ace Soil Cracks (B6) dation Visible on Aerial ace Soil Cracks (B6) dation Visible on Aerial ar-Stained Leaves (B9) Servations: /ater Present? Yes ble Present? Yes capillary fringe) accorded Data (stream g	erine) one requi prine) onriverin erine) I Imagery	red; check red; check (B7) No <u>X</u> No <u>X</u>	ce. À dep ings, are call that a Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E Depth Depth Depth	leted mai required ppply) ist (B11) rust (B12) Invertebr en Sulfide d Rhizosp e of Red Iron Redi Iron Redi	trix requir in soils w () rates (B13 e) Odor (C pheres alo uced Iron uction in 1 ce (C7) Remarks : :	a) a) a) a) b) c) c) c) c) c) c) c) c) c) c	ss and that I of 4 or more colors of 4/1, Roots (C3) (C6) Wetland H	Aas a miinas a miin a miinas a mi	nimum thickness roma of 2 or les lary Indicators (Water Marks (Sediment Dep Drift Deposits Drainage Patte Dry-Season W Crayfish Burro Saturation Visi Shallow Aquita FAC-Neutral T	s of 5 cm (2 s. Redox cd 2 or more re B1) (Riveri osits (B2) (((B3) (River arms (B10) (ater Table ws (C8) ble on Aeria ard (D3) iest (D5)	2 inches) if the oncentrations equired) ne) Riverine) ine) (C2) al Imagery (C
ROLOC etland I imary Ir Surfa	3 – A layer that has a d epth ≤10 cm (4 inches) ft iron-manganese mas GY Hydrology Indicators: Idicators (minimum of c ace Water (A1) Water Table (A2) Iration (A3) ar Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive ace Soil Cracks (B6) dation Visible on Aerial ace Soil Cracks (B6) dation Visible on Aerial ar-Stained Leaves (B9) Servations: /ater Present? Yes ble Present? Yes capillary fringe) accorded Data (stream g	erine) one requi prine) onriverin erine) I Imagery	red; check red; check (B7) No <u>X</u> No <u>X</u>	ce. À dep ings, are call that a Salt Cru Biotic Ci Aquatic Hydroge Oxidized Presenc Recent I Thin Mu Other (E Depth Depth Depth	leted mai required ppply) ist (B11) rust (B12) Invertebr en Sulfide d Rhizosp e of Red Iron Redi Iron Redi	trix requir in soils w () rates (B13 e) Odor (C pheres alo uced Iron uction in 1 ce (C7) Remarks : :	a) a) a) a) b) c) c) c) c) c) c) c) c) c) c	ss and that I of 4 or more colors of 4/1, Roots (C3) (C6) Wetland H	Aas a miinas a miin a miinas a mi	nimum thickness roma of 2 or les lary Indicators (Water Marks (Sediment Dep Drift Deposits Drainage Patte Dry-Season W Crayfish Burro Saturation Visi Shallow Aquita FAC-Neutral T	s of 5 cm (2 s. Redox cd 2 or more re B1) (Riveri osits (B2) (((B3) (River arms (B10) (ater Table ws (C8) ble on Aeria ard (D3) iest (D5)	2 inches) if the oncentrations equired) ne) Riverine) ine) (C2) al Imagery (C

Project/Site:	60656629 SMUD	Country Acres Solar		City/County: Placer County		Sampling Date:	04/27/21
Applicant/Owner:	SMUD	1. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			State: CA	Sampling Point	026 0
Investigator(s):	T. Torrez and C.	Battaglia		Section, Township, Range:	20 11N 5E		
Landform (hillstope,	terrace, etc.):	Terrace		Local relief (concave, conve)	k, none): none	Sk	pe (%): 0.1%
Subregion (LRR):	Mediterranean Ca	alifornia (LRR C)	Lat	38.791343	Long:	121.43875	Datum: NAD 83
Soil Map Unit Name	xerfluveri	s, hardparı substratum	0		NWI Classifica	tion: n/a	
Are climatic / hydrol	logic conditions or	the site typical for this	time of ye	ar? Yes	No X	(If no, explain in F	emarks.)
Are Vegetation	Soil X	, or Hydrology	-	significantly disturbed? Are "	Normal Circum	stances' present? Ye	s X No
Are Vegetation	, Sóil	, or Hydrology		naturally problematic? (If nee	eded, explain an	ny answers in Remarks.)

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

ly 4.92 Inc

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL FACW, or FAC:
-		_		Total Number of Dominant Species Across All Strata: 1 (B)
-	-			
	_	Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC;0% (A/B)
Sapling/Strub Stratum (Plot size:)				Prevalence index Worksheet: Total % Cover of: Multiply by:
	1.			OBL species x1 =
				FACW species x2 -
				FAC species x3 -
				FACU speciesx4 =
		Total Cover		UPL species x5 =
Herb Stratum (Plot size: 1 - 6.ft_)	S			Column Totals: (A) (B)
Bromus diandrus	60%	Yes	NL	Prevalence Index = B/A =
Plantago lanceolata	30%		FAC	
Geranium dissectum	2%		NL	Hydrophytic Vegetation Indicators:
Bromus hordeaceous	1%		FACU	
Elymus caput-medusae	5%		NL	Dominance Test is >50%
Rumex crispus	1%		FAG	Prevalence Index is ≤3.0 ¹
Vicia villosa ssp. varla	1%	_	NL	Morphological Adaptationd ¹ (Provide supporting
and the set of the survey of the set	106%	_	_	data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size:)		=Total Cover	≥ 1	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum 0%		-Total Cover Biotic Crust		Hydrophytic Vegetation Present? Yes No X
	 PORT 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	and the former second		

	b.d. antonio			day Fast			nfirm the abse			
epth	Matrix			edox Feat		2				
nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remark	(S
2	7.5YR 3/4	60	7YR 2.5/1	40	<u>c</u>	M	clay loam			
4.5	10YR 4/3	50	7.5YR 2.5/1	50%	C	M	clay loam			
5-10	10YR 4/2	60	7.5YR 4/6	30	C	M	loam			
		_	7.5YR 2.5/1	10	C	M	<u> </u>			
		_				—				
ype: C=0	Concentration, D=Depletic	n, RM=R	educed Matrix, CS=	Covered or	Coated Sa	and Grains.	² Location: PL=	=Pore Lining, M=M	atrix.	
dric So	il Indicators: (Applic	able to a	all LRRs, unless o	therwise	noted.)		Indicators fo	or Problematic H	lvdric Soils ³ :	
	sol (A1)			Redox (S				uck (A9) (LRR C		
-	Epipedon (A2)			d Matrix (uck (A10) (LRR B		
	(Histic (A3)			Mucky Mi)		ed Vertic (F18)	1	
_	ogen Sulfide (A4)			Gleyed M				rent Material (TF	2)	
_	ified Layers (A5) (LRR	C)		ed Matrix				Explain in Remar		
_	Muck (A9) (LRR D)	1		Dark Surf						
_	eted Below Dark Surfac	e (A11)		ed Dark S		7)				
	Dark Surface (A12)			Depressio		× .	2			
	ly Mucky Mineral (S1)			Pools (F9			3	ndicators of hydro		
100	ly Gleyed Matrix (S4)			1 0013 (1 3	/			wetland hydrolo	gy must be pres ed or problemat	
strictiv	e Layer (if present):									
epth (inc		atrix valı	ue of 4/2 starts mo	re than 4 i	nches de		dric Soil Prese ess than 6 inch		Yes	<u>No x</u>
epth (inc	hes):	atrix valı	ue of 4/2 starts mo	re than 4 i	nches de				Yes	<u>No </u>
proLOG	hes): o closed depression; m SY	atrix valı	ue of 4/2 starts mo	re than 4 i	nches de				Yes	Nox
epth (inc arks: No PROLOG etland H	hes): o closed depression; m SY łydrology Indicators:			2.0	nches de		ess than 6 inch	ies		
PROLOG etland F imary In	hes): o closed depression; m o closed		red; check all that	apply)	nches de		ess than 6 inch	econdary Indicato	ors (2 or more re	quired)
PROLOG etland H imary In Surfa	hes): o closed depression; m o closed		red; check all that Salt Cr	apply) ust (B11)			ess than 6 inch	econdary Indicato	ors (2 or more re ks (B1) (River in	equired)
ROLOG etland H Surfa High	hes): o closed depression; m o closed depression; m o closed depression; m dicators (minimum of o nee Water (A1) Water Table (A2)		red; check all that Salt Cr Biotic C	apply) ust (B11) Crust (B12	0	ep and is I	ess than 6 inch	econdary Indicato	ors (2 or more re ks (B1) (River in Deposits (B2) (F	equired) ne) Riverine)
PROLOG etland H Surfa Juntary In Surfa Juntary Surfa Juntary Satur	hes): o closed depression; m o closed depression; m ydrology Indicators: dicators (minimum of o nce Water (A1) Water Table (A2) ration (A3)	ne requi	red; check all that Salt Cr Biotic C Aquatie	apply) ust (B11) Crust (B12 ; Invertebr	?)	ep and is I	ess than 6 inch	econdary Indicate Water Mar Sediment Drift Depo	ors (2 or more re ks (B1) (Riveri i Deposits (B2) (R sits (B3) (Riveri	equired) ne) Riverine)
ROLOG etland H Surfa Surfa Satur Wate	hes): o closed depression; m iydrology Indicators: dicators (minimum of o ace Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonrive	ne requi rine)	red; check all that Salt Cr Biotic (Aquatie Hydrog	apply) ust (B11) Crust (B12 : Invertebi en Sulfide	') iates (B13 3 Odor (C	3) 1)	ess than 6 inch	econdary Indicato Water Mar Sediment Drift Depo	ors (2 or more re ks (B1) (Riveri Deposits (B2) (F sits (B3) (Riveri Patterns (B10)	equired) ne) Riverine) ne)
PROLOG PROLOG	hes): o closed depression; m b closed depression; m Hydrology Indicators: dicators (minimum of o ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No	ne requi rine) onriverin	red; check all that Salt Cr Biotic (Aquatio Hydrog Dxidize	apply) ust (B11) Crust (B12 : Invertebr en Sulfide ad Rhizosj	?) rates (B13 e Odor (C pheres alo	a) 1) ong Living	ess than 6 inch	econdary Indicato Water Mar Sediment Drift Depo Drainage Dry-Seaso	ns (2 or more re ks (B1) (Riveriu Deposits (B2) (f sits (B3) (Riveri Patterns (B10) ın Water Table (equired) ne) Riverine) ne)
PROLOG PROLOG etland H imary In Satur Satur Satur Satur Satur Satur Drift	hes): o closed depression; m o closed depression; m lydrology Indicators: dicators (minimum of o cators (minimum of o cators (minimum of o cators (minimum of o cators (Marks water Table (A2) ration (A3) r Marks (B1) (Nonrive ment Deposits (B2) (Norrive Deposits (B3) (Nonrive	ne requi rine) onriverin	red; check all that Salt Cr Biotic C Aquatio Hydrog Die) Oxidize Presen	apply) ust (B11) Crust (B12 : Invertebr en Sulfide ed Rhizosj ce of Red	?) rates (B13 ∋ Odor (C pheres alo	 and is I and is I and is I base of the second se	ess than 6 inch	econdary Indicato Water Mai Sediment Drift Depo Drainage Dry-Seaso Crayfish B	rs (2 or more re ks (B1) (Riveri Deposits (B2) (F sits (B3) (River Patterns (B10) in Water Table (urrows (C8)	equired) ne) Xiverine) ne) (C2)
PROLOG PROLOG etland H mary In Surfa High Satur Sat	hes): o closed depression; m o closed depression; m Hydrology Indicators: dicators (minimum of o ce Water (A1) Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Norrive ce Soil Cracks (B6)	ne requi rine) porriverin prine)	red; check all that Salt Cr Biotic (Aquati Hydrog Dxidize Presen Recent	apply) ust (B11) Crust (B12 Invertebr en Sulfide ed Rhizosj ce of Red Iron Red	e) rates (B13 ∋ Odor (C pheres alo luced Iron uction in 1	a) 1) ong Living	ess than 6 inch	econdary Indicato Water Mai Sediment Drift Depo Drainage I Dry-Seaso Crayfish B Saturation	rs (2 or more re ks (B1) (Riveri Deposits (B2) (Riveri sits (B3) (Riveri Patterns (B10) in Water Table (urrows (C8) Visible on Aeria	(quired) ne) Xiverine) ne) (C2)
Peth (inc arks: No PROLOG etland F imary In Satu Satu Satu Satu Satu Satu Satu Satu	hes): o closed depression; m o closed depression; m sy Hydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive nect Soil Cracks (B6) fation Visible on Aerial	ne requi rine) porriverin prine)	red; check all that Salt Cr Biotic (Aquati Hydrog Oxidize Presen (87) Thin M	apply) ust (B11) Crust (B12 Invertebr en Sulfide ed Rhizosj ce of Red Iron Red uck Surfa	c) ates (B13 e Odor (C pheres ald luced Iron uction in 1 cce (C7)	a) 3) 1) cong Living (C4) Filled Soils	ess than 6 inch	econdary Indicato Water Mai Sediment Drift Depo Drainage I Dry-Seaso Crayfish B Saturation Shallow A	ors (2 or more re ks (B1) (Riveri n Deposits (B2) (Riveri sits (B3) (Riveri Patterns (B10) on Water Table (urrows (C8) Visible on Aeria quitard (D3)	(quired) ne) Xiverine) ne) (C2)
Peth (inc arks: No PROLOG etland H imary In Satu Satu Satu Satu Satu Satu Satu Satu	hes):	ne requi rine) porriverin prine)	red; check all that Salt Cr Biotic (Aquati Hydrog Oxidize Presen (87) Thin M	apply) ust (B11) Crust (B12 Invertebr en Sulfide ed Rhizosj ce of Red Iron Red	c) ates (B13 e Odor (C pheres ald luced Iron uction in 1 cce (C7)	a) 3) 1) cong Living (C4) Filled Soils	ess than 6 inch	econdary Indicato Water Mai Sediment Drift Depo Drainage I Dry-Seaso Crayfish B Saturation Shallow A	rs (2 or more re ks (B1) (Riveri Deposits (B2) (Riveri sits (B3) (Riveri Patterns (B10) in Water Table (urrows (C8) Visible on Aeria	(quired) ne) Xiverine) ne) (C2)
PROLOC etland H mary In Surfa Surfa Satu Satu Drift Surfa Surfa Unate Surfa Surfa Surfa Surfa Surfa Surfa Surfa Surfa Surfa	hes):	ne requi rine) mriverin erine) Imagery	red; check all that Salt Cr Biotic (Aquati Hydrog Ne) Oxidiza Presen Recent (B7) Thin M Other (apply) ust (B11) Trust (B12 Invertebr en Sulfide ed Rhizosj ed Rhizosj ce of Red Iron Red Iron Red uck Surfa Explain in	c) ates (B13 o Odor (C pheres alo pheres alo	a) 3) 1) cong Living (C4) Filled Soils	ess than 6 inch	econdary Indicato Water Mai Sediment Drift Depo Drainage I Dry-Seaso Crayfish B Saturation Shallow A	ors (2 or more re ks (B1) (Riveri n Deposits (B2) (Riveri sits (B3) (Riveri Patterns (B10) on Water Table (urrows (C8) Visible on Aeria quitard (D3)	(quired) ne) Xiverine) ne) (C2)
PROLOCO PROLOCO PROLOCO ettand H imary In Satur Satu	hes):	ne requi rine) mriverin erine) Imagery	red; check all that Salt Cr Biotic C Aquati Hydrog Presen (B7) Thin M (B7) Thin M No X Dept	apply) ust (B11) Crust (B12) Invertebi ed Rhizosj ce of Red. Iron Red uck Surfa Explain in h (inches)	e) ates (B13 e) Odor (C pheres ald luced from ucetion in 1 ce (C7) i Remarks	a) 3) 1) cong Living (C4) Filled Soils	ess than 6 inch	econdary Indicato Water Mai Sediment Drift Depo Drainage I Dry-Seaso Crayfish B Saturation Shallow A	ors (2 or more re ks (B1) (Riveri n Deposits (B2) (Riveri sits (B3) (Riveri Patterns (B10) on Water Table (urrows (C8) Visible on Aeria quitard (D3)	equired) ne) Xiverine) ne) (C2)
Pepth (inc aarks: No PROLOC fetland H imary In Satu Satu Satu Satu Satu Satu Satu Satu	hes):	ne requi rine) onriverin erine) Imagery	red; check all that Salt Cr Biotic (Aquati Hydrog Presen (B7) Thin M (B7) No X Dept No X Dept	apply) ust (B11) Crust (B12) Invertebi en Sulfide ed Rhizosj ce of Red Iron Red uck Surfa Explain in h (inches) h (inches)	e) rates (B13 3 Odor (C pheres ald luced Iron uction in 1 ce (C7) Remarks :	a) 3) 1) cong Living (C4) Filled Soils	ess than 6 inch	econdary Indicato Water Mai Sediment Drift Depo Drainage I Dry-Seasc Crayfish B Saturation Shallow A FAC-Neut	ors (2 or more re ks (B1) (Riverin Deposits (B2) (F sits (B3) (Riveri Patterns (B10) ni Water Table (urrows (C8) Visible on Aeria quitard (D3) ral Test (D5)	rquired) ne) tiverine) ne) (C2) al Imagery (CS
PROLOG PROLOG PROLOG PROLOG Partial Provided Provi	hes):	ne requi rine) onriverin erine) Imagery	red; check all that Salt Cr Biotic (Aquatic Hydrog Presen (B7) Thin M (B7) Other (No X Dept No X Dept	apply) ust (B11) Crust (B12) Invertebi ed Rhizosj ce of Red. Iron Red uck Surfa Explain in h (inches)	e) rates (B13 3 Odor (C pheres ald luced Iron uction in 1 ce (C7) Remarks :	a) 3) 1) cong Living (C4) Filled Soils	ess than 6 inch	econdary Indicato Water Mai Sediment Drift Depo Drainage I Dry-Seaso Crayfish B Saturation Shallow A	ors (2 or more re ks (B1) (Riverin Deposits (B2) (F sits (B3) (Riveri Patterns (B10) ni Water Table (urrows (C8) Visible on Aeria quitard (D3) ral Test (D5)	rquired) ne) tiverine) ne) (C2) al Imagery (CS
PROLOG PROLOG PROLOG PROLOG Pathan H Imary In Surfa High Surfa Batura Inune Prift Surfa Inune Batura Inune Prift Surfa Inune Prift Inune	hes):	ne requi nrivein nriverin rine) Imagery	red; check all that Salt Cr Biotic (Aquatie Hydrog Presen Recent (B7) Thin M (B7) Other (No X Dept No X Dept	apply) ust (B11) Crust (B12) en Sulfide en Sulfide d Rhizosp ce of Red Iron Red uck Surfa Explain in h (inches) h (inches)	2) rates (B13 a Odor (C pheres ald luced fron uction in 1 ce (C7) I Remarks :	ap and is I appendix I		econdary Indicato Water Ma Sediment Drift Depo Dry-Seaso Crayfish B Saturation Shallow A FAC-Neut	ors (2 or more re ks (B1) (Riverin Deposits (B2) (F sits (B3) (Riveri Patterns (B10) ni Water Table (urrows (C8) Visible on Aeria quitard (D3) ral Test (D5)	rquired) ne) tiverine) ne) (C2) al Imagery (CS
Pepth (inc harks: No PROLOC fetland H imary In Satu Satu Satu Satu Surfa Satu Surfa Surfa High Satu Surfa Surfa Red Vate eld Obs urface W ater Tab aturation ccludes of cribe Re	hes):	ne requi nrivein nriverin rine) Imagery	red; check all that Salt Cr Biotic (Aquatie Hydrog Presen Recent (B7) Thin M (B7) Other (No X Dept No X Dept	apply) ust (B11) Crust (B12) en Sulfide en Sulfide d Rhizosp ce of Red Iron Red uck Surfa Explain in h (inches) h (inches)	2) rates (B13 a Odor (C pheres ald luced fron uction in 1 ce (C7) I Remarks :	ap and is I appendix I		econdary Indicato Water Ma Sediment Drift Depo Dry-Seaso Crayfish B Saturation Shallow A FAC-Neut	ors (2 or more re ks (B1) (Riverin Deposits (B2) (F sits (B3) (Riveri Patterns (B10) ni Water Table (urrows (C8) Visible on Aeria quitard (D3) ral Test (D5)	rquired) ne) tiverine) ne) (C2) al Imagery (CS
Pepth (inc harks: No PROLOC fetland H imary In Satu Satu Satu Satu Surfa Satu Surfa Surfa High Satu Surfa Surfa Red Vate eld Obs urface W ater Tab aturation ccludes of cribe Re	hes):	ne requi nrivein nriverin rine) Imagery	red; check all that Salt Cr Biotic (Aquatie Hydrog Presen Recent (B7) Thin M (B7) Other (No X Dept No X Dept	apply) ust (B11) Crust (B12) en Sulfide en Sulfide d Rhizosp ce of Red Iron Red uck Surfa Explain in h (inches) h (inches)	2) rates (B13 a Odor (C pheres ald luced fron uction in 1 ce (C7) I Remarks :	ap and is I appendix I		econdary Indicato Water Ma Sediment Drift Depo Dry-Seaso Crayfish B Saturation Shallow A FAC-Neut	ors (2 or more re ks (B1) (Riverin Deposits (B2) (F sits (B3) (Riveri Patterns (B10) ni Water Table (urrows (C8) Visible on Aeria quitard (D3) ral Test (D5)	rquired) ne) tiverine) ne) (C2) al Imagery (CS
PROLOG fetland H imary In Satur Wate Satur Wate Surfa Surfa Inum Wate feld Obs urface W fater Tab aturation cludes of cribe Re	hes):	ne requi nrivein nriverin rine) Imagery	red; check all that Salt Cr Biotic (Aquatie Hydrog Presen Recent (B7) Thin M (B7) Other (No X Dept No X Dept	apply) ust (B11) Crust (B12) en Sulfide en Sulfide d Rhizosp ce of Red Iron Red uck Surfa Explain in h (inches) h (inches)	2) rates (B13 a Odor (C pheres ald luced fron uction in 1 ce (C7) I Remarks :	ap and is I appendix I		econdary Indicato Water Ma Sediment Drift Depo Dry-Seaso Crayfish B Saturation Shallow A FAC-Neut	ors (2 or more re ks (B1) (Riverin Deposits (B2) (F sits (B3) (Riveri Patterns (B10) ni Water Table (urrows (C8) Visible on Aeria quitard (D3) ral Test (D5)	rquired) ne) tiverine) ne) (C2) al Imagery (CS
Pepth (inc harks: No PROLOC fetland H imary In Satu Satu Satu Satu Surfa Satu Surfa Surfa High Satu Surfa Surfa Red Vate eld Obs urface W ater Tab aturation ccludes of cribe Re	hes):	ne requi nrivein nriverin rine) Imagery	red; check all that Salt Cr Biotic (Aquatie Hydrog Presen Recent (B7) Thin M (B7) Other (No X Dept No X Dept	apply) ust (B11) Crust (B12) en Sulfide en Sulfide d Rhizosp ce of Red Iron Red uck Surfa Explain in h (inches) h (inches)	2) rates (B13 a Odor (C pheres ald luced fron uction in 1 ce (C7) I Remarks :	ap and is I appendix I		econdary Indicato Water Ma Sediment Drift Depo Dry-Seaso Crayfish B Saturation Shallow A FAC-Neut	ors (2 or more re ks (B1) (Riverin Deposits (B2) (F sits (B3) (Riveri Patterns (B10) ni Water Table (urrows (C8) Visible on Aeria quitard (D3) ral Test (D5)	rquired) ne) tiverine) ne) (C2) al Imagery (CS
PROLOC PROLOC ettand H imary In Satur Satur Wate Satur Wate Inum Wate etd Obs urface W ater Tab aturation chudes of cribe Re	hes):	ne requi nrivein nriverin rine) Imagery	red; check all that Salt Cr Biotic (Aquatie Hydrog Presen Recent (B7) Thin M (B7) Other (No X Dept No X Dept	apply) ust (B11) Crust (B12) en Sulfide en Sulfide d Rhizosp ce of Red Iron Red uck Surfa Explain in h (inches) h (inches)	2) rates (B13 a Odor (C pheres ald luced fron uction in 1 ce (C7) I Remarks :	ap and is I appendix I		econdary Indicato Water Ma Sediment Drift Depo Dry-Seaso Crayfish B Saturation Shallow A FAC-Neut	ors (2 or more re ks (B1) (Riverin Deposits (B2) (F sits (B3) (Riveri Patterns (B10) ni Water Table (urrows (C8) Visible on Aeria quitard (D3) ral Test (D5)	rquired) ne) tiverine) ne) (C2) al Imagery (CS

Project/Site:	60656629 SMUD	Country Acres Solar		City/County: Pla	icer County		Sampling Date:	04/27/2
Applicant/Owner:	SMUD					State: CA	Sampling Point:	036
Investigator(s):	O. Routt and J. W	(urlitzer		Section, To	ownship, Range:	20 11N 5E		
Landform (hillstop	e, terrace, etc.):	Terrace		Local relief	(concave, convex	, none): concave	Slo	pe (%):29
Subregion (LRR):	Mediterrarieari Ca	lifornia (LRR C)	Lat	-	38.78890863	Long:	-121.4377304	Datum: NAD 83
Soil Map Unit Nan	ie: Xerofluver	rs, hardpari substrat	tum			NWI Classification:	n/a	
Are climatic / hydro	ologic conditions on	the site typical for th	nis time of y	ear?	Yes	No X	(If no, explain in R	emarks.)
Are Vegetation	, Soil X	, or Hydrology	X	significantly dist	urbed? Are "I	Vormal Circumstand	es present? Yes	s X No
Are Vegetation	, Sóil	, or Hydrology	X	naturally probler	matic? (If nee	ded, explain any an	swers in Remarks.))
Hydric Soil Presen Wetland Hydrolog	y Present?	Yes X No Yes X No		is the Sampl within a We	atland?	Yes X	No	-
also is influenced I south and east. At	by antificial irrigation prormally low rainta	n histoncally bernied inputs from adjacer II totals for the seaso om October 1, 2020	it rice fields on; only 4.9	and thus floods in 2 linches of rain to	n the dry season. In the rain year to	This area likely con date, when normal	nects to the draina is 35 inches for the	ge channel to the County (Placer
VEGETATION	- Use scientifi	c names of plan	ts,				_	
Tree Stratum	(Plot size:)		Absolute % Cover		tus Number	of Dominant Specie OBL, FACW, or F/	5	(4)
				·		mbor of Dominant	2	(A)

				(A)
3				Total Number of Dominant Species Across All Strata: 2 (B)
	_	- Total Cover		Percent of Dominant Species That Are OBL, FACW, or FAC; 100% (A/
Sapling/Shrub Stratum (Plot size:)				Prevalence index Worksheet: Total % Cover of: Multiply by:
				OBL species x1 =
				FACW species x2 -
		· · · · ·		FAC species x3 -
				FACU species x4 =
		Total Cover		UPL speciesx5 =
Herb Stratum (Plot size: _ r = 10 ft_)		-		Column Totals: (A) (B)
Rumex crispus	30%	Yes	FAC	Prevalence Index = B/A =
Festuca perennis [Lolium perenne]	15%	Yes	FAC	
Plagiobothrys stipitatus	12%		FACW	Hydrophytic Vegetation Indicators:
Polypogon monspeliensis	7%		FAGW	
Ranunculus bonariensis	3%		OBL	X Dominance Test is >50%
Phalaris aquatica	2%		FACU	Prevalence Index is ≤3.0 ¹
Juncus effusus	10%		FACW	Morphological Adaptationd ¹ (Provide supporting
Hordeum marinum	1%	10 C	FAC	data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size:)	81%	=Total Cover	24	¹ Indicators of hydric soil and wetland hydrology must
and an and a second		<u> </u>	CC 11	be present, unless disturbed or problematic.
The second second second		-Total Cover	0%	Hydrophytic Vegetation Present? Yes X No
	Herb Stratum (Plot size: r=10.ft) Rumex crispus Festuca perennis [Lolium perenne] Plagiobothrys stipitatus Polypogon monspeliensis Ranunculus bonariensis Phalaris aquatica	Herb Stratum (Plot size: r = 10 ft.) Rumex crispus 30% Festuca perennis [Lolium perenne] 15% Plagiobothrys stipitatus 12% Polypogon monspeliensis 7% Ranunculus bonariensis 3% Phalaris aquatica 2% Juncus effusus 10% Hordeum matinum 1%	Sabling/Simb Stratum (Plot size:)	Sabling/Simub Stratum (Plot size:) Herb Stratum (Plot size:) Rumex crispus Festuca perennis [Lolium perenne] 15% Yes FAC Plagiobothrys stipitatus 12% FACW Polypogon monspeliensis 3% OBL Phalaris aquatica 2% Incus effusus 10% Hordeum matinum 1% Hordeum (Plot size:) 1%

epth	Matrix		R	edox Feat	ures					
nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
3	10YR 4/1	95	2.5YR 3/6	5	PL	M	silty clay loan	n	Romana	
9	7.5YR 4/1	89	10R 3/4	10%	C	M	silty clay loan			
~			black		C	M			ese masses	
		_				_				
		_		_		=				
		_		_	_	_				
	Concentration, D=Depletio					and Grains.				
	oil Indicators: (Applica	able to a						or Problematic Hy	ydric Soils*:	
-	osol (A1)		_	Redox (S				uck (A9) (LRR C)		
	c Epipedon (A2)			ed Matrix (1 N			uck (A10) (LRR B)	
-	k Histic (A3)		_	Mucky Mi				d Vertic (F18)		
_	ogen Sulfide (A4)			Gleyed M)		rent Material (TF2		
-	ified Layers (A5) (LRR	C)		ed Matrix			Other (I	Explain in Remark	s)	
	Muck (A9) (LRR D)			Dark Surf						
	eted Below Dark Surfac	e (A11)		ed Dark S		7)				
-	k Dark Surface (A12)			Depressio			3	ndicators of hydro	phytic vegetation	and
	ly Mucky Mineral (S1)		Vernal	Pools (F9)			wetland hydrolog	y must be preser	nt,
Sand	ly Gleyed Matrix (S4)							unless disturbe	d or problematic.	
epth (inc						Ну	dric Soil Prese	ent?	Yes <u>X</u>	No
epth (inc			<u> </u>			Ну	dric Soil Prese	ent?	Yes <u>X</u>	No
epth (inc	hes):					Ну	dric Soil Prese	ent?	Yes <u>X</u>	No
epth (inc arks: ROLOC etland H	ihes): SY Hydrology Indicators:					Ну				
PROLOC etland F imary In	ihes): GY Hydrology Indicators: Idicators (minimum of or	ne requi	16.2			Ну		econdary Indicator	rs (2 or more req	uired)
ROLOC etland H imary In Surfa	Hes): GY Hydrology Indicators: Idicators (minimum of or ace Water (A1)	ne requi	Salt C	rust (B11)		Ну		econdary Indicator Water Mark	rs (2 or more req cs (B1) (Riverine	uired)
ROLOC etland H _ Surfa _ High	Hes): SY Hydrology Indicators: Idicators (minimum of or ace Water (A1) Water Table (A2)	ne requi	Salt Ci	rust (B11) Crust (B12				econdary Indicator Water Mark	rs (2 or more req cs (B1) (Riverine Deposits (B2) (Ri	uired) ») verine)
ROLOG etland H Surfa High Satu	SY Hydrology Indicators: dicators (minimum of or ace Water (A1) Water Table (A2) ration (A3)		Salt Ci Biotic Aquati	rust (B11) Crust (B12 c Invertebi	rates (B13	3)		econdary Indicator Water Mark Sediment E	rs (2 or more req cs (B1) (Riverine Deposits (B2) (Riv its (B3) (Riverine	uired) ») verine)
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Project/Site: 60656629 SMUD Country Acres Solar		City/County: Placer County		Sampling Date	t	04/27/21
Applicant/Owner: SMUD			State: CA	Sampling Point	E.	036 B
Investigator(s): J. Wurlitzer and O. Routt		Section, Township, Range:	20 11N 5E	en rener g		
Landform (hillslope, terrace, etc.): Terrace	_	Local relief (concave, convex	, none): convex	Sk	ope (%):	Z%
Subregion (LRR): Mediterranean California (LRR C)	Lat	38.78904747	Long:	-121.4376564	Datum:	NAD 93
Soil Map Unit Name: Cometa-Fiddyment Complex			NWI Classification:	n/a		
Are climatic / hydrologic conditions on the site typical for this tin	ne of ye	ar? Yes	No X	(If no, explain in F	Remarks.)	
Are Vegetation Soil X or Hydrology		significantly disturbed? Are "N	Vormal Circumstand	es' present? Ye	s X	No
Are Vegetation . Soil , or Hydrology		naturally problematic? (If nee	ded, explain any an	swers in Remarks.)	

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

lydrophytic Vegetation Present?	Yes	No	X	Allow and the star			
tydric Soil Present?	Yes	No	X	is the Sampled Area within a Wetland?	Yes	No	X
Vetland Hydrology Present?	Yes	No	X	within a wettand?	-		

Absolute Dominant Indicator Status Number of Dominant Species % Cover Species? Status That Are OBL FACW or FAC:	
Total Number of Dominant Species Across All Strata: 3 (B)	
Percent of Dominant Species Total Cover That Are OBL FACW. or FAC; 0% (A/B)	
Prevalence index Worksheet: Total % Cover of: Multiply by:	nn <u>ih Stratum</u> (Plot size:)
OBL speciesX1 = FACW speciesX2 =	
FAC species X3 -	
FACU species x4 =	
Total Cover UPL species x5 =	
Column Totals: (A) (B)	tum (Plot size: r = 6 ft_)
20% Yes NL Prevalence Index = B/A =	
25% Yes NL	
15% Yes FACU Hydrophytic Vegetation Indicators:	
<u>10%NL</u>	
3% NL Dominance Test is >50%	
5% NL Prevalence Index is ≤3.0 ¹	osa ssp. varia 5%
10%. FACU Morphological Adaptationd ¹ (Provide supporting	
3% NL data in Remarks or on a separate sheet)	
91% =Total Cover. ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	ne Stratum (Plot size:)
- Total Cover - Total Cover - Total Cover - Total Cover - Yes - No X	round in Herb Stratum9% % Cover (
be present, onless disturbed or problematic. Hydrophytic Vegetation	

epth	scription: (Describe Matrix			Redox Feat						
nches)	Color (moist)	%		%	Type ¹	Loc ²	Texture		Remarks	
2	5YR 4/4	99	Color (moist) black	1			loam	managana		
8	2.5YR 4/6	99.9	black	_	c c	M			se masses	
)	2.5TK 4/0	39.9	DIACK	<1			sandy loam	mangane	se masses	
		\equiv		_	_	\equiv		==		
pe: C=0	Concentration, D=Depletion	on, RM=R	educed Matrix, CS	=Covered or	Coated Sa	and Grains.	² Location: PL=P	ore Lining, M=Matri	x.	
dric So	il Indicators: (Applic	able to a	all LRRs, unless	otherwise	noted.)		Indicators for	Problematic Hyd	tric Soils ³ :	
Histo	sol (A1)		Sand	y Redox (S	5)		1 cm Muc	k (A9) (LRR C)		
-	Epipedon (A2)			ed Matrix				k (A10) (LRR B)		
	(Histic (A3)			y Mucky M)		Vertic (F18)		
-	ogen Sulfide (A4)			y Gleyed N				nt Material (TF2)		
_	ified Layers (A5) (LRR	C)		eted Matrix				plain in Remarks)	1	
-	Muck (A9) (LRR D)	57		x Dark Sur				p. sar ar restricted (s)		
	eted Below Dark Surfa	co (A11)		eted Dark S		7)				
	Dark Surface (A12)	ce (ATT)		x Depressi		"				
	ly Mucky Mineral (S1)			al Pools (F9				licators of hydrop		
100 10	and herein an elevel.		Venz		"		N	vetland hydrology unless disturbed		t,
-	ly Gleyed Matrix (S4)							umess usturbed	or problematic.	
	e Layer (if present):									
pe: no	ne									
epth (inc arks: So		sizes (0.5	5-2 cm), poloshed	d and flatte	ned.	Hy	dric Soil Presen	t?	Yes	No
arks: So	hes):	sizes (0.5	5-2 cm), poloshed	d and flatter	ned.	Ну	dric Soil Presen	t?	Yes	No
arks: So	hes): ome pebbles, variable : SY		5-2 cm), poloshed	d and flatte	ned.	Ну	dric Soil Presen	17	Yes	No
arks: So ROLOG etland F	hes): ome pebbles, variable s ome pebbles, vari				ned.	Ну				
ROLOG etland F	hes): ome pebbles, variables ome pebbles, variables ome pebbles fydrology Indicators: dicators (minimum of o		red; check all tha	t apply)		Ну		ondary Indicators	(2 or more requ	ired)
ROLOG etland H imary In Surfa	hes): ome pebbles, variable s ome pebbles, variable s ome pebbles, variable s ome pebbles, variable s ome water (A1)		red; check all tha	t apply) Crust (B11)		Ну		ondary Indicators	(2 or more requ (B1) (Riverine)	ired)
ROLOG etland H mary In Surfa High	hes): ome pebbles, variable s ome pebbles, variable s ome pebbles, variable s symmetry of a dicators (minimum of a nee Water (A1) Water Table (A2)		red; check all tha Salt C Biotic	t apply) Crust (B11) Crust (B12	2)			ondary Indicators Water Marks Sediment De	(2 or more requ (B1) (Riverine) posits (B2) (Riv	ired) erine)
ROLOG etland F mary In Surfa High Satur	hes): ome pebbles, variable s sy łydrology Indicators: dicators (minimum of o nce Water (A1) Water Table (A2) ration (A3)	one requi	red; check all tha Salt C Biotic Aqua	t apply) Crust (B11) : Crust (B12 tic Inverteb	2) rates (B13	3)		ondary Indicators Water Marks Sediment De Drift Deposit	(2 or more requ (B1) (Riverine) posits (B2) (Riv s (B3) (Riverine)	ired) erine)
ROLOG etland H Surfa High Satur Wate	hes): ome pebbles, variable s sy tydrology Indicators: dicators (minimum of o ace Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonrive	one requi	red; check all tha Salt C Biotic Aqua Hydro	t apply) Crust (B11) Crust (B12 tic Inverteb ogen Sulfide	2) rates (B1: e Odor (C	3)	<u>Sec</u>	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa	(2 or more requ (B1) (Riverine) posits (B2) (Riv s (B3) (Riverine) tterns (B10)	ired) erine)
ROLOG etland H mary In Surfa High Satur Satur Satur Satur Satur Satur	hes): ome pebbles, variable s sy lydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No	one requi rine) onriverin	red; check all tha Salt C Biotic Aqua Hydro Ie) Oxidi	t apply) Crust (B11) Crust (B12 tic Inverteb ogen Sulfid zed Rhizos	2) rates (B1: e Odor (C pheres alo	3) 1) ong Living		ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season	(2 or more requ (B1) (Riverine) poosits (B2) (Riv s (B3) (Riverine) tterns (B10) Water Table (C2	ired) erine)
ROLOG etland H mary In Surfa High Satur Satur Satur Satur Satur Drift	hes): ome pebbles, variable s sy lydrology Indicators: dicators (minimum of of cators (Marks water Table (A2) ration (A3) ir Marks (B1) (Nonrive nent Deposits (B2) (Norrive Deposits (B3) (Nonrive	one requi rine) onriverin	red; check all tha Salt (Biotic Aqua Hydro ne) Oxidi Prese	t apply) Crust (B11) Crust (B12 tic Inverteb ogen Sulfid zed Rhizos ence of Rec	2) rates (B13 e Odor (C pheres ale luced Iron	3) 1) 1 (C4)	Sec	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur	(2 or more requ (B1) (Riverine) posits (B2) (Riv s (B3) (Riverine) tterns (B10) Water Table (C2 rows (C8)	ired) erine))
ROLOG etland H mary In Surfa High Satur Satur Satur Satur Satur Satur Satur Satur Satur Satur Satur Satur Satur	hes):	ne requi rine) poriverin erine)	red; check all tha Salt (Biotic Aqua Hydro ne) Oxidi Rece	t apply) Crust (B11) Crust (B12) tic Inverteb ogen Sulfid zed Rhizos ence of Rec nt Iron Red	2) rates (B1; e Odor (C pheres ald luced Iron luction in "	3) 1) 1 (C4)	Sec	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V	(2 or more requ (B1) (Riverine) posits (B2) (Riv s (B3) (Riverine) tterns (B10) Water Table (C2 rows (C8) isible on Aerial Ir	ired) erine))
ROLOG atland H Surfa Surfa Satur Sat	hes):	ne requi rine) poriverin erine)	red; check all tha Sat C Biotic Aqua Hydro ne) Oxidi Press Rece (B7) Thin I	t apply) Crust (B11) Crust (B11) Crust (B12 tic Inverteb gen Sulfid zed Rhizos ance of Rec nt Iron Red Muck Surfa	2) rates (B1: e Odor (C pheres ald luced from luction in 1 cce (C7)	3) 1) ong Living I (C4) Filled Soils	Sec	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation Vi Shallow Aqu	(2 or more requ (B1) (Riverine) posits (B2) (Riv t(B3) (Riverine) t(B10) Water Table (C2 rows (C8) isible on Aerial In itard (D3)	ired) erine))
ROLOG atland H _ Surfa _ Surfa _ Satur _ Satur _ Satur _ Satur _ Satur _ Surfa _ Surfa _ Surfa	hes):	ne requi rine) poriverin erine)	red; check all tha Sat C Biotic Aqua Hydro ne) Oxidi Press Rece (B7) Thin I	t apply) Crust (B11) Crust (B12) tic Inverteb ogen Sulfid zed Rhizos ence of Rec nt Iron Red	2) rates (B1: e Odor (C pheres ald luced from luction in 1 cce (C7)	3) 1) ong Living I (C4) Filled Soils	Sec	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation V	(2 or more requ (B1) (Riverine) posits (B2) (Riv (B3) (Riverine) tterns (B10) Water Table (C2 rows (C8) isible on Aerial Ir itard (D3)	ired) erine))
ROLOG atland H Mary In Surfa Satur S	hes):	ne requi rine) poriverin erine)	red; check all tha Sat C Biotic Aqua Hydro ne) Oxidi Press Rece (B7) Thin I	t apply) Crust (B11) Crust (B11) Crust (B12 tic Inverteb gen Sulfid zed Rhizos ance of Rec nt Iron Red Muck Surfa	2) rates (B1: e Odor (C pheres ald luced from luction in 1 cce (C7)	3) 1) ong Living I (C4) Filled Soils	Sec	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation Vi Shallow Aqu	(2 or more requ (B1) (Riverine) posits (B2) (Riv (B3) (Riverine) tterns (B10) Water Table (C2 rows (C8) isible on Aerial Ir itard (D3)	ired) erine))
ROLOG etland F imary In Surfa Satu Satu Satu Surfa Surfa Surfa Surfa Surfa Surfa Surfa Surfa Surfa Surfa	hes):	one requi onriverin erine) Imagery	red; check all tha Sat C Biotic Aqua Hydro ne) Oxidi Press Rece (B7) Thin I	t apply) Crust (B11) Crust (B12) ic Inverteb ogen Sulfid zed Rhizos ence of Rec nt Iron Red Muck Surfa (Explain ir	2) rates (B13 e Odor (C pheres al- luced Iron luction in " ce (C7) 1 Remarks	3) 1) ong Living I (C4) Filled Soils	Sec	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation Vi Shallow Aqu	(2 or more requ (B1) (Riverine) posits (B2) (Riv (B3) (Riverine) tterns (B10) Water Table (C2 rows (C8) isible on Aerial Ir itard (D3)	ired) erine))
ROLOG etland H imary In Surfa Surfa Satur Satur Satur Satur Surfa	hes):	ne requi onriverin erine) Imagery	red; check all tha Salt C Biotic Aqua Hydro ne) Oxidi Rece r (B7) Thin I Other	t apply) Crust (B11) Crust (B12) Crust (B1	2) rates (B1: e Odor (C pheres al- luced Iron luction in " ce (C7) 1 Remarks	3) 1) ong Living I (C4) Filled Soils	Sec	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Saturation Vi Shallow Aqu	(2 or more requ (B1) (Riverine) posits (B2) (Riv (B3) (Riverine) tterns (B10) Water Table (C2 rows (C8) isible on Aerial Ir itard (D3)	ired) erine))
ROLOG ROLOG etland H Surfa Surfa Surfa Satur Vate Sedir Satur Vate Sedir Drift Surfa	hes):	ne requi onriverin erine) Imagery	red; check all tha Salt C Biotic Aqua Hydro ne) Oxidi Rece (B7) Thin I Other No X Dep	t apply) Crust (B11) Crust (B12) tic Inverteb gen Sulfid zed Rhizos ence of Rec nt Iron Red Muck Surfa (Explain ir pth (inches) pth (inches)	2) rates (B13 e Odor (C pheres al- luced Iron luction in " icce (C7) h Remarks):):	3) 1) ong Living I (C4) Filled Soils	Sec	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Staturation V/ Shallow Aqu FAC-Neutral	(2 or more requ (B1) (Riverine) posits (B2) (Riv (B3) (Riverine) tterns (B10) Water Table (C2 rows (C8) isible on Aerial Ir itard (D3)	ired) erine))
ROLOC ettand F imary In Surfa	hes):	rine) pnriverin erine) Imagery	red; check all tha Salt C Biotic Aqua Hydro No (B7) No X Dep No X Dep No X Dep	t apply) Crust (B11) Crust (B12) Crust (B12) tic Inverteb ogen Sulfid zed Rhizos mice of Rec Nuck Surfa Muck Surfa Muck Surfa (inches) oth (inches)	2) rates (B1: e Odor (C pheres ald luced from luction in ice (C7) i Remarks): 	3) 1) ong Living i (C4) Tilled Soils ;)	Roots (C3)	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Staturation V/ Shallow Aqu FAC-Neutral	(2 or more requ (B1) (Riverine) posits (B2) (Riv s (B3) (Riverine) tterns (B10) Water Table (C2 rows (C8) isible on Aerial Ir itard (D3) Test (D5)	ired) erine)) nagery (C
ROLOC ettand F imary In Surfa	hes):	rine) pnriverin erine) Imagery	red; check all tha Salt C Biotic Aqua Hydro No (B7) No X Dep No X Dep No X Dep	t apply) Crust (B11) Crust (B12) Crust (B12) tic Inverteb ogen Sulfid zed Rhizos mice of Rec Nuck Surfa Muck Surfa Muck Surfa (inches) oth (inches)	2) rates (B1: e Odor (C pheres ald luced from luction in ice (C7) i Remarks): 	3) 1) ong Living i (C4) Tilled Soils ;)	Roots (C3)	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Staturation V/ Shallow Aqu FAC-Neutral	(2 or more requ (B1) (Riverine) posits (B2) (Riv s (B3) (Riverine) tterns (B10) Water Table (C2 rows (C8) isible on Aerial Ir itard (D3) Test (D5)	ired) erine)) nagery (C
ROLOC ROLOC etland I imary In Surfa Surfa Satur Vate Satur Satur Uate Inunc Wate Inunc Wate Inunc Wate Inunc Wate Inunc Surfa	hes):	rine) pnriverin erine) Imagery	red; check all tha Salt C Biotic Aqua Hydro No (B7) No X Dep No X Dep No X Dep	t apply) Crust (B11) Crust (B12) Crust (B12) tic Inverteb ogen Sulfid zed Rhizos mice of Rec Nuck Surfa Muck Surfa Muck Surfa (inches) oth (inches)	2) rates (B1: e Odor (C pheres ald luced from luction in ice (C7) i Remarks): 	3) 1) ong Living i (C4) Tilled Soils ;)	Roots (C3)	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Staturation V/ Shallow Aqu FAC-Neutral	(2 or more requ (B1) (Riverine) posits (B2) (Riv s (B3) (Riverine) tterns (B10) Water Table (C2 rows (C8) isible on Aerial Ir itard (D3) Test (D5)	ired) erine)) nagery (C
PROLOG etland H imary In Surfa Satur	hes):	rine) pnriverin erine) Imagery	red; check all tha Salt C Biotic Aqua Hydro No (B7) No X Dep No X Dep No X Dep	t apply) Crust (B11) Crust (B12) Crust (B12) tic Inverteb ogen Sulfid zed Rhizos mice of Rec Nuck Surfa Muck Surfa Muck Surfa (inches) oth (inches)	2) rates (B1: e Odor (C pheres ald luced from luction in ice (C7) i Remarks): 	3) 1) ong Living i (C4) Tilled Soils ;)	Roots (C3)	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Staturation V/ Shallow Aqu FAC-Neutral	(2 or more requ (B1) (Riverine) posits (B2) (Riv s (B3) (Riverine) tterns (B10) Water Table (C2 rows (C8) isible on Aerial Ir itard (D3) Test (D5)	ired) erine)) nagery (C
PROLOG etland H imary In Surfa Satur	hes):	rine) pnriverin erine) Imagery	red; check all tha Salt C Biotic Aqua Hydro No (B7) No X Dep No X Dep No X Dep	t apply) Crust (B11) Crust (B12) Crust (B12) tic Inverteb ogen Sulfid zed Rhizos mice of Rec Nuck Surfa Muck Surfa Muck Surfa (inches) oth (inches)	2) rates (B1: e Odor (C pheres ald luced from luction in ice (C7) i Remarks): 	3) 1) ong Living i (C4) Tilled Soils ;)	Roots (C3)	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Staturation V/ Shallow Aqu FAC-Neutral	(2 or more requ (B1) (Riverine) posits (B2) (Riv s (B3) (Riverine) tterns (B10) Water Table (C2 rows (C8) isible on Aerial Ir itard (D3) Test (D5)	ired) erine)) nagery (C
PROLOG etland H imary In Surfa Satur	hes):	rine) pnriverin erine) Imagery	red; check all tha Salt C Biotic Aqua Hydro No (B7) No X Dep No X Dep No X Dep	t apply) Crust (B11) Crust (B12) Crust (B12) tic Inverteb ogen Sulfid zed Rhizos mice of Rec Nuck Surfa Muck Surfa Muck Surfa (inches) oth (inches)	2) rates (B1: e Odor (C pheres ald luced from luction in ice (C7) i Remarks): 	3) 1) ong Living i (C4) Tilled Soils ;)	Roots (C3)	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Staturation V/ Shallow Aqu FAC-Neutral	(2 or more requ (B1) (Riverine) posits (B2) (Riv s (B3) (Riverine) tterns (B10) Water Table (C2 rows (C8) isible on Aerial Ir itard (D3) Test (D5)	ired) erine)) nagery (C
ROLOC ROLOC Barland I Satura S	hes):	rine) pnriverin erine) Imagery	red; check all tha Salt C Biotic Aqua Hydro No (B7) No X Dep No X Dep No X Dep	t apply) Crust (B11) Crust (B12) Crust (B12) tic Inverteb ogen Sulfid zed Rhizos mice of Rec Nuck Surfa Muck Surfa Muck Surfa (inches) oth (inches)	2) rates (B1: e Odor (C pheres ald luced from luction in ice (C7) i Remarks): 	3) 1) ong Living i (C4) Tilled Soils ;)	Roots (C3)	ondary Indicators Water Marks Sediment De Drift Deposit Drainage Pa Dry-Season Crayfish Bur Staturation V/ Shallow Aqu FAC-Neutral	(2 or more requ (B1) (Riverine) posits (B2) (Riv s (B3) (Riverine) tterns (B10) Water Table (C2 rows (C8) isible on Aerial Ir itard (D3) Test (D5)	ired) erine)) nagery (C

Project/Site:	606566	29 SMUD	Country Acres Solar		City/County: Placer County		Sampling Da	te:	04/30/21
Applicant/Owner:	SMUD					State: CA	Sampling Po	int	.37
Investigator(s):	J. Wurl	itzer and O.	Routt		Section, Township, Range	20 11N 5E			
Landform (hillstope	, terrace	, etc.):	Terrace		Local relief (concave, conve	x, none): concave		Slope (%):	0.1%
Subregion (LRR):	Medite	rranean Cal	ifornia (LRR C)	Lat	38.79083843	Long:	-121.4490794	Datum:	NAD 83
Soil Map Unit Nam	le:	Cometa-Fic	ddyment Complex	_		NWI Classification:	n/a		_
Are climatic / hydro	logic col	nditions on I	the site typical for this	s time of ye	ar? Yes	No X	(If no, explain in	Remarks.)
Are Vegetation	x	Soil X	, or Hydrology		significantly disturbed? Are	Normal Circumstand	es' present?	Yes X	No
Are Vegetation	(, Soil	, or Hydrology		naturally problematic? (If ne	eded, explain any ar	swers in Remark	ks.)	

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

lydrophytic Vegetation Present?	Yes		No	X	from warmach data			
tydric Soil Present?	Yes	X	No		is the Sampled Area within a Wetland?	Yes	No	X
Vetland Hydrology Present?	Yes	-	No	X	within a wettand?			

1	Tree Stratum (Piot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Number of Domin	ant Spel	cies		
					That Are OBL, FA	CW. or	FAC:	1	(A)
	2	\equiv	_		Total Number of I Species Across A			2	(B)
-		_	Total Cove	r.	Percent of Domin That Are OBL, FA			50%	(A/B)
	Saoling/Shrub Stratum (Plot size:)				Prevalence inde Total % Cov		heet:	Multiply by:	
1			-	-	OBL species	0	x1 =	0	_
1			-		FACW species	1	x2	2	_
1					FAC species	40	x3	120	
1				-	FACU species	28	x4 =	112	
1			Total Cove		UPL species	2	x5	10	_
à	Herb Stratum (Plot size: _ r = 6 ft_)				Column Totals:		(A) -	244	(6)
	Festuca perennis (Lolium perenne)	25%	Yes	FAC	Prevalence Ind		2	3.4	
	Lactuca semola	20%	Yes	FACU	A Tradition		-		_
-	Hordeum marinum	15%	Yes	FAC	Hydrophytic Vec	etation	Indicator	9:	
ĩ	Eryndiùm vaseyi	1%		FACW					
Ī	Avena fatua	1%		NL	Domina	nce Test	15 >50%		
3	Bromus diandrus	1%		NI.	Prevaler	nce Inde	x is \$3.0 ¹		
	Leontodori saxatilis	5%		FACU	Monster	onical A	antalion	(Provide supp	natura
1	Erodium botrys	3%		FACU				aparate sheet)	ching
Ē		71%	=Total Cove					· ·	
-	Woody Vine Stratum (Plot size:)				¹ Indicators of hyd be present, unles				st.
	% Bate Ground in Herb Stratum 0%	% Cover of	-Total Cove Biolic Crust	0%	Hydrophytic Vegetation Present?		Yes	No	x

SOIL									Sampling Po	int:		37
Profile De	scription: (Describe	to the de	pth needed to do	ocument	the indic	ator or co	nfirm the at	bsence of i	ndicators.)			
Depth	Matrix		Re	dox Feat	ures							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	ire		Remarks		
0-8	10YR 4/3	97	2.5YR 4/4	3		С	silty clay lo	oam				
8-14	10YR 4/2	99	black	1%	С	М	silty clay		manganese	masses		
												_
1						-	3					
'Type: C=0	Concentration, D=Depletio	n, RM=Re	educed Matrix, CS=0	Covered or	Coated S	and Grains.	"Location: F	PL=Pore Lin	ing, M=Matrix.			
Hydric So	il Indicators: (Applic	able to a	ll LRRs, unless o	therwise	noted.)		Indicators	for Proble	ematic Hydri	c Soils ³ :		
Histo	sol (A1)		Sandy	Redox (S	5)		1 cm	Muck (A9)	(LRR C)			
Histic	: Epipedon (A2)		Strippe	d Matrix ((S6)		2 cm	Muck (A10) (LRR B)			
Black	(A3)		Loamy	Mucky M	lineral (F1)	Redu	iced Vertic	(F18)			
Hydr	ogen Sulfide (A4)		Loamy	Gleyed N	Matrix (F2)	Red	Parent Mat	erial (TF2)			
Strat	fied Layers (A5) (LRR	C)	X Deplete	ed Matrix	(F3)		Othe	r (Explain i	n Remarks)			
1 cm	Muck (A9) (LRR D)		Redox	Dark Sur	face (F6)							
Deple	eted Below Dark Surfac	e (A11)	Deplete	ed Dark S	urface (F	7)						
Thick	Dark Surface (A12)		Redox	Depressi	ons (F8)			³ Indicators	s of hydrophy	tic vegetation	and	
Sand	ly Mucky Mineral (S1)		Vernal	Pools (FS	9)					lust be prese		
Sand	ly Gleyed Matrix (S4)							unles	s disturbed or	r problematic.		
Restrictiv	e Layer (if present):											
Type: no	ne											
Depth (inc	hes):		_			Hy	dric Soil Pre	esent?		Yes X	No	
	atrix colors of 4/1, 4/2. In 1% redox concentration		nple, there is a lay	er with 99	9% chrom	a of 2 that	has thicknes	ss of 6 inch	es starting at	8 inches bel	ow the soil	
HYDROLOG	Y											
	lydrology Indicators:											
Primary In	dicators (minimum of o	ne requir	ed; check all that :	apply)				Secondary	Indicators (2	2 or more req	uired)	
Surfa	ice Water (A1)		Salt Cr	ust (B11)				W	ater Marks (I	B1) (Riverine))	
High	Water Table (A2)		Biotic C	crust (B12	2)			S	ediment Dep	osits (B2) (Riv	verine)	
Satu	ration (A3)		Aquatio	Inverteb	rates (B1:	3)		D	rift Deposits ((B3) (Riverin	e)	
Wate	r Marks (B1) (Nonrive	rine)	Hydrog	en Sulfid	e Odor (C	(1)		D	rainage Patte	erns (B10)		
Sedir	ment Deposits (B2) (No	nriverin	e) Oxidize	d Rhizos	pheres al	ong Living	Roots (C3)	D	ry-Season W	ater Table (C	2)	
Drift	Deposits (B3) (Nonrive	rine)	Presen	ce of Rec	luced Iron	1 (C4)		C	rayfish Burro	ws (C8)		
Surfa	ice Soil Cracks (B6)		Recent	Iron Red	luction in	Tilled Soils	(C6)	S	aturation Visi	ble on Aerial	Imagery (C	(9)
Inune	dation Visible on Aerial	Imagery	(B7) Thin M	uck Surfa	ice (C7)				hallow Aquita			
Wate	r-Stained Leaves (B9)		Other (Explain ir	n Remarks	5)		F/	AC-Neutral T	est (D5)		
Field Obs	ervations:											
Surface W	ater Present? Yes		No X Dept	n (inches)):							
	le Present? Yes		No X Dept									
Saturation			No X Dept	n (inches)):	_	Wetland H	ydrology F	Present?	Yes	No	X
	capillary fringe) corded Data (stream ga	auge, mo	nitoring well, aeria	l photos,	previous	inspection	s), if availabl	le:				
		0	5									
Remarks: No	b hydrology indicators											
US Army Co	rps of Engineers									Arid V	Vest - Vers	sion 2.

plicant/Owner: SMUD vestigator(s): J. Wurlitzer and O. Routt	ar City/County: Placer C	
	F. manual manual	State: CA Sampling Point: 038
and the second se		úp, Rangé: 20 11N 5E
ndform (hillslope, terrace, etc.): Terrace	Local relief (conc	ave, convex.none): concave Slope (%): 2
bregion (LRR): Mediterranean California (LRR C)		.79110783 Long: -121.4467625 Datum: NAD 83
il Map Unit Name: Cometa-Fiddyment Complex		NWI Classification: n/a
e climatic / hydrologic conditions on the site typical for		
e Vegetation X Sol X or Hydrology	xsignificantly disturbed	Are "Normal Circumstances" present? Yes X No
e Vegetation Soil or Hydrology	naturally problematic:	? (If needed, explain any answers in Remarks.)
UMMARY OF FINDINGS – Attach site map	showing sampling point lo	cations, transects, important features, etc.
drophytic Vegetation Present? Yes X M	Jo	ba Thuết chất thế
dric Soil Present? Yes X N	Is the Sampled A within a Wetland	
etland Hydrology Present? Yes X N	IO	
	only 4.92 Inches of rain for the rain	y irrigated pasture to the north during summer, which is normally the year to date. when normal is 35 inches for the County (Placer Coun est of project site along Pleasant Grove Creek)
EGETATION – Use scientific names of pla	ints.	
	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Number of Dominant Species
The showing the stor.		That Are OBL FACW, or FAC: 3 (A)
		Total Number of Dominant
		Species Across All Strata: 3 (B)
		Percent of Dominant Species
	=Total Cover	That Are OBL, FACW, or FAC:100% (A/B)
Sapling/Shrub Stratum (Plot size:)		Prevalence Index Worksheet:
Sapimu/Sintip Sitatum (Plocsize:)		Total % Cover of: Multiply by:
h		
		OBL species x1 = FACW species x2 =
		FAC speciesX3
		FACU speciesX4 =
	= Total Cover	UPL species X5 =
Herb Stratum (Plot size: r = 10.ft)	= Total Cover	Column Totals:(A)(B)
Plagiobothrys stipitatus	8% Yes FACW	
Polygonum aviculare	10% Yes FAC	Provaleskas likiex = LVA
Ranunculus bonariensis	5%	Hydrophytic Vegetation Indicators:
Festuca perennis [Lolium perenne]	7% Yes FAC	- Hydrophyde vegetation indicators.
Epilobium brachycarpum	2%	X Dominance Test is >50%
Hordeum marinum	2%	Prevalence Index is ≤3.0 ¹
Rumex crispus	6%	
Cyperus eragrostis	1%	
Leontodon saxatilis		-
Achyrachaena mollis	1%	
. Convolvulus arvensis	1%	Morphological Adaptationd ¹ (Provide supporting
. Lactuca serriola	2%	data in Remarks or on a separate sheet)
	46% Total Cover	
		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)		be present, unless disturbed or problematic,
Woody Vine Stratum (Plot size:)		factoria and
Woody Vine Stratum (Plot size:)	· · · · · · · · · · · · · · · · · · ·	
Woody Vine Stratum (Plot size:)	= Total Cover	Hydrophytic Vegetation

OIL										Sampling Point:		038-/
Profile De	escription: (Describe	to the de	epth need	ed to docum	ent t	the indica	ator or co	onfirm the al	bsence	of indicators.)		
Depth	Matrix			Redox F	eat	ires						
(inches)	Color (moist)	%	Color (moist) %	6	Type ¹	Loc ²	Textu	Ire	Re	emarks	
0-8	10YR 4/2	85	2.5YR 4/		15	PL	С	sandy loar	m			
8-16	2.5Y 5/2	93	black		7%	С	M	sandy loar	m	manganese mass	es	
					_					·		
					_					·		
					_		_					
		_			_			-				
				-	_							
¹ Type: C=	Concentration, D=Depleti	on, RM=R	educed Ma	trix, CS=Covere	ed or	Coated Sa	and Grains	² Location: I	PL=Pore	Lining, M=Matrix.		
Undefa Ca	ail Indianaan (Annlia							In disconnega	fer Dr	ablamatia Ukuduia Cail	- 3	
	oil Indicators: (Applic	cable to a	all LRRS, t							oblematic Hydric Soil	S :	
	osol (A1) ic Epipedon (A2)		_	Sandy Redo: Stripped Mat						A9) (LRR C) A10) (LRR B)		
	k Histic (A3)		_	Loamy Muck						rtic (F18)		
	rogen Sulfide (A4)		_	Loamy Gleye	-					Material (TF2)		
	tified Layers (A5) (LRR	(C)	X	Depleted Ma			· · · · · · · · · · · · · · · · · · ·			ain in Remarks)		
_	Muck (A9) (LRR D)	-/		Redox Dark				_	, , , , , , , , , , , , , , , , , , , ,	,		
	leted Below Dark Surfa	ice (A11)	_	Depleted Da			7)					
Thic	k Dark Surface (A12)			Redox Depre	essio	ons (F8)			3Indias	ators of hydrophytic veg	notation and	ć.
Sand	dy Mucky Mineral (S1)			Vernal Pools	(F9))				and hydrology must be		
Sand	dy Gleyed Matrix (S4)									less disturbed or proble		
emarks: F	3 = A layer that has a d	lepleted r	matrix with	60 percent or	mor	re chroma		dric Soil Pros		Yes inimum thickness of 6 i		No ting at a d
ss than or ft iron-ma	equal to 10 inches from	n the soil or pore lin	surface; a nings, are r	depleted mat equired in soi	rix re Is wi	equires a th matrix	a of 2 or le value of 4 colors of 4	ess and that I or more and 1/1, 4/2. In th	has a m d chrom ne samp		inches start	ting at a d ns, includi
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Project/Site:	606566	29 SMUD	Country Acres Solar	0	ty/County: Placer County		Sampling Dat	ie:	04/30/21
Applicant/Owner:	SMUD	_				State CA	Sampling Poi	nti	038 B
Investigator(s):	J. Wurli	tzer and C). Routt		Section, Township, Range	: 20 11N SE		-	
Landform (hillslope	, terrace,	, etc.):	Terrace	-	Local relief (concave, conv	ex, none): none	S	Slope (96):	0%
Subregion (LRR):	Mediter	ranean Ca	alifornia (LRR C)	Lat:	38,7912390	3 Long:	-121.4470236	Datum:	NAD 83
Soil Map Unit Nam	ie;	Cometa-F	iddyment Complex	1.0		NWI Classification:	n/a	11.07	
Are climatic / hydro	logic con	ditions on	the site typical for this	s time of yea	ar? Yes	No X	(If no, explain in	Remarks.)	A
Are Vegetation	X	Soil X	, or Hydrology		significantly disturbed? Are	Normal Circumstan	ces" present? Y	es X	No
Are Vegetation		Soil	or Hydrology		naturally problematic? (If ne	eded, explain any a	nswers in Remark	5.)	

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

Hydrophytic Vegetation Present?	Yes	No	x	Is the Sampled Area			
Hydric Soil Present?	Yes	No	X	within a Wetland?	Yes	No	X
Wetland Hydrology Present?	Yes	No	X	interna includio:			
Remarks: Upland point paired to well for the rain year to date, when norma about 3 miles west of project site alor	l is 35 inches	for the Co	unty (Pla				

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:	
	_		_	00	A)
			_	Total Number of Dominant Species Across All Strata: 2 (1	B)
		-Total Cove	r	Percent of Dominant Species That Are OBL, FACW, or FAC:0%(/	A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:	_
	-1			OBL species FACW species	
2				FAC species X3 =	
				FACU speciesX3 =	
-	1	-Total Cove		UPL species x5 =	
Herb Stratum (Plot size: r = 5 ft_)				Column Totals:(A)(I	8)
Festuca bromoides (Vulpia bromoides)	38%	Yes	FACU	Prevalence Index = B/A =	1
Erodium botrys	20%	Yes	FACU		
Festuca perennis (Lolium perenne)	15%		FAC	Hydrophytic Vegetation Indicators:	_
Vicia villosa ssp. varia	5%		NL		
Holocarpha virgata	2%	_	NI	Dominance Test is >50%	
Convolvulus arvensis	1%	_	NL	Prevalence Index is ≤3.0 [†]	
Leontodon saxatilis	1%		FACU		
Bromus hordeaceous	5%	<u></u>	FACU	Morphological Adaptationd ¹ (Provide supporting	
Elymus caput medusae	2%		NL	data in Remarks or on a separate sheet)	
	91%	-Total Cove	ř.		
Woody Vine: Stratum (Plot size:)			_	³ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
		=Total Cove	_	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0%	% Cover of	Biotic Crust	0%	Present? Yes X No	-

	escription: (Describe	e to the d				ator of co	minim the abs	ence of IN	dicators.)		
epth	Matrix			Redox Feat		2					
nches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture			Remarks	1
11	7.5YR 4/4	99	black	1	С	M	sandy loam	II	nanganese n	nasses	
		-	2.5YR 4.4	1%	С	M	<u>.</u>				
			-								
/pe: C=(Concentration, D=Deplet	ion, RM=R	educed Matrix, CS	S=Covered or	Coated Sa	and Grains.	² Location: PL	=Pore Lining	g, M=Matrix.		
dric So	oil Indicators: (Appli	cable to a	all LRRs, unless	s otherwise	noted.)		Indicators f	or Problem	natic Hydric	Soils ³ :	
	osol (A1)			ly Redox (S				luck (A9) (I			
-	c Epipedon (A2)			ped Matrix (luck (A10)			
	k Histic (A3)			ny Mucky M		1		ed Vertic (F	in the second se		
-	ogen Sulfide (A4)			ny Gleyed N				arent Mater			
	ified Layers (A5) (LRF	(C)		eted Matrix				(Explain in I			
-	Muck (A9) (LRR D)	-,		ox Dark Surf					, and the second		
	eted Below Dark Surfa	ace (A11)		eted Dark S		7)					
	k Dark Surface (A12)			ox Depressio		· ·	2			5.59	
-	ty Mucky Mineral (S1)			al Pools (F9					of hydrophyti Iydrology mu		
	ly Gleyed Matrix (S4)		_		<i>.</i>				disturbed or j		
pe: no	ve Layer (if present):										
pth (inc											
	ches):					Hv	dric Soil Pres	ent?	Y	es	No)
	ches):	6				Ну	dric Soil Pres	ent?	Y	es	No
						Hy	dric Soil Pres	ent?	Yı	es	<u>No</u>
arks: N	o hydric soil indicators					Ну	dric Soil Pres	ent?	Ŷ	es	No
ROLOC etland I	o hydric soil indicators SY Hydrology Indicators	:	red: check all th	at anniv)		Ну					
ROLOC etland I mary In	o hydric soil indicators 3Y Hydrology Indicators Idicators (minimum of	:	16.0			Ну		Secondary I	ndicators (2	or more req	uired)
ROLOC etland I mary Ir _ Surfa	o hydric soil indicators SY Hydrology Indicators Idicators (minimum of ace Water (A1)	:	Salt	Crust (B11)		Ну		Secondary I	ndicators (2 ter Marks (B	or more req	uired)
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ROLOC etland I mary In Surfa High Satu	o hydric soil indicators SY Hydrology Indicators Idicators (minimum of ace Water (A1) Water Table (A2) ration (A3)	: one requi	Salt Biotic Aqua	Crust (B11) c Crust (B12 atic Inverteb	rates (B13))		Secondary I Wa Sec Drif	ndicators (2 ter Marks (B liment Depos t Deposits (B	or more req 1) (Riverine sits (B2) (Riv 3) (Riverine	uired) ») verine)
ROLOC etland I mary In Surfa High Satu Wate	o hydric soil indicators SY Hydrology Indicators dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriv	: one requi erine)	Salt Biotic Aqua Hydr	Crust (B11) c Crust (B12 atic Inverteb ogen Sulfide	rates (B13 e Odor (C	3) 1)	<u>s</u> 	Secondary I Wa Sec Drif Dra	ndicators (2 ter Marks (B líment Deposi t Deposits (B inage Pattern	or more req 1) (Riverine 5its (B2) (Riv 3) (Riverine 13) (Riverine 13) (B10)	uired) ») verine) e)
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ROLOC etland I mary In Surfa High Satu Satu Sedi Drift	o hydric soil indicators SY Hydrology Indicators dicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriv ment Deposits (B2) (Norriv	: one requi erine) ionriverin		Crust (B11) c Crust (B12 atic Inverteb ogen Sulfide ized Rhizos ence of Red	rates (B13 e Odor (C pheres ald luced Iron	3) 1) 0ng Living (C4)	<u>S</u> Roots (C3)	Secondary I Wa Sec Drif Dra Dra Cra	ndicators (2 ter Marks (B líment Depos t Deposits (B inage Patteri -Season Wal yfish Burrow	or more req 1) (Riverine ists (82) (Riv 3) (Riverin 13) (uired) ») verine) e) 2)
ROLOC etland I mary In Surfa High Satu Satu Sedi Drift Surfa	o hydric soil indicators GY Hydrology Indicators idicators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) (Nonriv ment Deposits (B2) (N Deposits (B3) (Nonriv ace Soil Cracks (B6)	: one requi erine) lonriverin verine)	Length Sealt - Biotech Aqua Hydr Oxid Pres Rece	Crust (B11) c Crust (B12 atic Invertebrogen Sulfide ized Rhizos ence of Red ent Iron Red	rates (B13 e Odor (C pheres ald luced Iron uction in 1	3) 1) 0ng Living (C4)	<u>S</u> Roots (C3)	Secondary I Wa' Sec Drif Dra Dra Cra Sat	ndicators (2 ter Marks (B liment Depos t Deposits (B inage Patteri -Season Wal yfish Burrow uration Visibl	or more req 1) (Riverine sits (B2) (Riv 3) (Riverin 3)	uired) ») verine) e) 2)
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Project/Site:	606566	29 SMUD	Country Acres Solar		ty/County: Placer County		Sampling Dat	te:	04/30/21
Applicant/Owner:	SMUD					State CA	Sampling Poi	ints	39
Investigator(s):	J. Wurli	tzer and (D. Routt		Section, Township, Range:	20 11N 5E		A	
Landform (hillslope	, terrace,	etc.):	Terrace	-	Local relief (concave, conve	x, none): none	5	Slope (%):	0.1%
Subregion (LRR):	Mediter	ranean Ca	alifornia (LRR C)	Lat:	38.78956979	Long:	-121.4509459	Datum:	NAD 83
Soil Map Unit Nam	ie;	Alamo-Fid	Idyment Complex	1.1		NWI Classification:	n/a	11.44	
Are climatic / hydro	logic con	ditions or	the site typical for thi	is time of ye	ar? Yes	No X	(If no, explain in	Remarks.)
Are Vegetation	X	Soil X	, or Hydrology		significantly disturbed? Are	Normal Circumstan	ces" present?	Yes X	No
Are Vegetation		Soil	, or Hydrology		naturally problematic? (If ne	eded, explain any ar	nswers in Remark	(5.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes)	(No	~	Is the Sampled Area	Yes	No X
Wetland Hydrology Present?	Yes	No	X	within a Wetland?	Yes	
3 33			line of st	e. Abnormally low camfall total	s for the season a	nly 4.92 Inches of rain for the rain year
						il 08, 2021, located about 3 miles west
date, when normal is 35 inches for in						

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
	1	_	_	Total Number of Dominant Species Across All Strata: 3 (B)
	1	-Total Cove	-	Percent of Dominant Species That Are OBL, FACW, or FAC; <u>66%</u> (A/E
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
				OBL species x1 -
				FACW speciesx2 =
				FAC species x3 =
	-			FAGU speciesx4 =
		-Total Cove		UPL species x5 =
Herb Stratum (Plot size:r = 5 ft_)				Column Totals:(A)(B)
Hordeum marinum	38%	Yes	FAC	Prevalence Index = B/A =
Festuca perennis (Lolium perenne)	20%	Yes	FAC	
Aira caryophylla	20%	Yes	FACU	Hydrophytic Vegetation Indicators:
Lactuca serriola	2%			
Leontodon saxatilis	3%		-	X Dominance Test is >50%
Epilobium brachycarpum	1%	_	_	Prevalence Index is ≤3.0 ⁺
	_	_		Morphological Adaptationd ¹ (Provide supporting data in Remarks or on a separate sheet)
	RAW	- Total Cove		uala in realians of on a separate shear
Woody Vine: Stratum (Plot size:)		- Total Cone		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum 0%		=Total Cove Biotic Crust		Hydrophytic Vegetation Present? Yes X No

rofile De										
epth	Matrix			Redox Feat						
nches)	Color (moist)	%	Color (mo	oist) %	Type ¹	Loc ²	Texture		Rema	rks
13	10YR 4/3	92	2.5YR 4/6	7	PL	M	loam			
		-	black	1%	С	М		mangan	ese masses	
							-			
pe: C=(Concentration, D=Depletic	on, RM=R€	educed Matrix	c CS=Covered or	Coated Sa	and Grains.	"Location: PL=P	ore Lining, M=Ma	drix.	
dric Sc	il Indicators: (Applic	able to a	II LRRs, uni	less otherwise	noted.)		Indicators for	Problematic H	vdric Soils ³ :	
	sol (A1)			andy Redox (S				k (A9) (LRR C)		
-	Epipedon (A2)			tripped Matrix (and the second sec			k (A10) (LRR B		
	(Histic (A3)			oamy Mucky M)		Vertic (F18)	^	
-	ogen Sulfide (A4)			oamy Gleyed N				nt Material (TF2	2)	
-	ified Layers (A5) (LRR	C)		epleted Matrix				plain in Remark		
-	Muck (A9) (LRR D)			Redox Dark Surf						
	eted Below Dark Surfa	ce (A11)		epleted Dark S		7)				
	Dark Surface (A12)	,,		Redox Depression		×	3.	r		
	ly Mucky Mineral (S1)			ernal Pools (F9				licators of hydro vetland hydrolog		
	ly Gleyed Matrix (S4)		_		/		•	unless disturbe		
	e Layer (if present):									
pe: <u>no</u>	ne		_				dric Soil Drocon	+2	Ves	No
/pe: <u>no</u> epth (inc	ne	ature; no l	hydric soil in	ndicators.		Ну	dric Soil Presen	t?	Yes	No
pe: <u>no</u> pth (inc	ne hes):	ature; no l	hydric soil in	ndicators.		Ну	dric Soil Presen	t?	Yes	No
pe: <u>no</u> pth (inc arks: No ROLOC	ne hes): o closed depression fea		hydric soil in	ndicators.		Ну	dric Soil Presen	nt?	Yes	No
pe: <u>no</u> pth (inc arks: No ROLOC etland F	ne hes): o closed depression fea closed depression fea sy sy fydrology Indicators:					Ну				
pe: <u>n</u> pth (inc arks: Ne ROLOC etland F	one hes): o closed depression fea o closed depression fea sy sy fydrology Indicators: dicators (minimum of o		ed; check al	I that apply)		Ну		t?		
pe: <u>n</u> pth (inc arks: No ROLOC etland H mary In _ Surfa	one hes):		ed; check al	I that apply) Salt Crust (B11)		Ну		ondary Indicato	rs (2 or more r <s (b1)="" (riveri<="" td=""><td>equired)</td></s>	equired)
pe: <u>n</u> pth (inc arks: No arks: No ROLOC etland H mary In _ Surfa _ High	one hes):		ed; check al	II that apply) Salt Crust (B11) Siotic Crust (B12	2)			ondary Indicato Water Mark Sediment [rs (2 or more r ks (B1) (River Deposits (B2) (equired) ine) (Riverine)
pe: <u>n</u> pth (inc arks: Ne Arks: Ne ROLOC etland H mary In _ Surfa _ High _ Satu	one hes):	ne requir	ed; check al	l <u>I that apply)</u> Salt Crust (B11) Siotic Crust (B12 Aquatic Inverteba	?) rates (B13))		ondary Indicato Water Mark Sediment I Drift Depos	rs (2 or more r ks (B1) (River Deposits (B2) (itts (B3) (River	equired) ine) (Riverine)
ROLOC ettand H Surfa - Surfa - High - Satu - Wate	one hes):	ne requir rine)	ed; check al S B A H	ll that apply) Salt Crust (B11) Siotic Crust (B12 Aquatic Inverteba Hydrogen Sulfide	2) rates (B13 e Odor (C	3)	<u>Sec</u>	ondary Indicato Water Mari Sediment I Drift Depos Drainage F	rs (2 or more r cs (B1) (Riveri Deposits (B2) (sits (B3) (River Patterns (B10)	equired) ine) (Riverine) rine)
ROLOC ROLOC stland H mary In Surfa High Satu Wate Sedia Sedia	one hes): o closed depression fea b closed depression fea dicators (minimum of o coe Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No	ne requir rine) onriverino	ed; check al S B A H e) O	ll that apply) ialt Crust (B11) iotic Crust (B12 iquatic Inverteb lydrogen Sulfide lydrogen Sulfide	?) rates (B13 e Odor (C pheres ald	s) 1) 1)	<u>Sec</u>	ondary Indicato Water Mari Sediment I Drift Depos Drainage F Dry-Season	rs (2 or more r cs (B1) (Riveri Deposits (B2) (isits (B3) (River Patterns (B10) n Water Table	equired) ine) (Riverine) rine)
ROLOG ROLOG stland H mary In Surfa High Satu Wate Sedin Drift	one hes): o closed depression fea b closed depression fea fydrology Indicators: dicators (minimum of o coe Water (A1) Water Table (A2) ration (A3) or Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive	ne requir rine) onriverino	ed; check al S B A H e) O P	I that apply) ialt Crust (B11) itotic Crust (B12 itotic Crust (B12 itotic Crust (B12 vquatic Inverteb lydrogen Sulfide Dxidized Rhizos fresence of Red	?) rates (B13 e Odor (C pheres ald luced Iron	8) 1) (C4)	Sec Roots (C3)	ondary Indicato Water Mark Sediment I Drift Depos Drainage F Dry-Season Crayfish Bu	rs (2 or more r rs (B1) (Riveri)eposits (B2) (its (B3) (River Patterns (B10) n Water Table urrows (C8)	equired) ine) (Riverine) rine) (C2)
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pe: <u>n</u> pth (inc arks: N arks: N ROLOC etland H mary In Surfa Satu Satu Satu Satu Satu Satu Satu Sat	ane hes): o closed depression fea b closed depression fea gy Hydrology Indicators: dicators (minimum of o nece Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive nece Soil Cracks (B6) dation Visible on Aerial	ne requir rine) onriverine erine)	ed; check al S B A A Q R (B7) T	I that apply) ialt Crust (B11) iiotic Crust (B12) iydrogen Sulfide ydrogen Sulfide Yresence of Red Recent Iron Red hin Muck Surfa	2) rates (B13 a Odor (C pheres ald luced Iron luction in 1 ce (C7)	3) 1) ong Living (C4) Filled Soils	Sec Roots (C3)	ondary Indicato Water Mark Sediment I Drift Depos Drainage F Dry-Seaso Crayfish B Saturation Shallow Aq	rs (2 or more r cs (B1) (Riveri Deposits (B2) (lits (B3) (River Patterns (B10) n Water Table urrows (C8) Visible on Aeri uitard (D3)	equired) ine) (Riverine) rine) (C2)
pe: <u>nd</u> ppth (inc arks: Ni ROLOC ettland H mary In Surfa Satu Satu Satu Satu Satu Satu Satu Sat	one hes):	ne requir rine) onriverine erine)	ed; check al S B A A Q R (B7) T	II that apply) Salt Crust (B11) Notic Crust (B12) Notatic Inverteb Agran Sulfide Dxidized Rhizos Yresence of Red Recent Iron Red	2) rates (B13 a Odor (C pheres ald luced Iron luction in 1 ce (C7)	3) 1) ong Living (C4) Filled Soils	Sec Roots (C3)	ondary Indicato Water Mark Sediment I Drift Depos Drainage F Dry-Seaso Crayfish B Saturation Shallow Aq	rs (2 or more r ks (B1) (Riveri Deposits (B2) (kits (B3) (River Patterns (B10) n Water Table urrows (C8) Visible on Aeri	equired) ine) (Riverine) rine) (C2)
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pe: <u>nc</u> ppth (inc arks: Ni arks: Ni extension of the state of the sta	one hes): o closed depression fea b closed depression fea dicators (minimum of o coce Water (A1) Water Table (A2) ration (A3) r Marks (B1) (Nonrive ment Deposits (B2) (No Deposits (B3) (Nonrive cce Soil Cracks (B6) dation Visible on Aerial r-Stained Leaves (B9) ervations: later Present? Yes le Present? Yes rapillary fringe)	rine) pnrivering erine) Imagery	ed; check al S B B B B B C B C B C B C B C B C B C B	I that apply) Salt Crust (B11) Siotic Crust (B12) Aquatic Invertebre Hydrogen Sulfide Xidized Rhizosy Yresence of Red Recent Iron Red Thin Muck Surfa Dither (Explain in Depth (inches) Depth (inches)	2) rates (B13 e Odor (C pheres ald luced Iron uction in 1 ce (C7) i Remarks : : : :	3) 1) ng Living (C4) filled Soils ;)	Roots (C3)	ondary Indicato Water Mari Sediment I Drift Depos Drainage F Dry-Seaso Crayfish Bu Saturation Shallow Aq FAC-Neutr	rs (2 or more r ks (B1) (Riveri Deposits (B2) (its (B3) (River Patterns (B10) n Water Table urrows (C8) Visible on Aeri uitard (D3) al Test (D5)	equired) ine) (Riverine) rine) (C2) ial Imagery (C
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Project/Site:	606566	29 SMUD	Country Acres Sola	ar C	ity/County: Placer County		Sampling Date:	08/16/21
Applicant/Owner:	SMUD					State CA	Sampling Point:	047-A
Investigator(s):	J. Wurli	tzer and O.	Routt		Section, Township, Range	: 20 11N SE		
Landform (hillslope	, terrace	, etc.):	Terrace	-	Local relief (concave, conve	ex, none): Concav	/eSlope	2 (%): 0-2%
Subregion (LRR):	Mediter	ranean Cal	ifornia (LRR C)	Lat:	35,758805	Long:	-121.419937	Datum: NAD 83
Soil Map Unit Nam	ie:	Alamo Fide	lyment Complex			NWI Classificati	None on:	
Are climatic / hydro	logic cor	nditions on I	the site typical for	this time of yea	ir? Yes	No X	(If no, explain in Rei	narks.)
Are Vegetation	x	Soil X	, or Hydrology	X s	ignificantly disturbed? Are	Normal Circumst	ances' present? Yes	No.X
Are Vegetation	-	Soil	, or Hydrology		aturally problematic? (If ne	eded, explain any	y answers in Remarks.)	1.

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	X	No		Yes	x	No
Wetland Hydrology Present?	Yes	X	No	within a Wetland?			
	of the parc	el. Ab	normally low	rainfall totals for the season; only	4.92 Inches of	rain for	noff and vehicle travel. Feature the rain year to date, when normal is 3 rules west of project site along. Pleasan

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
	-	<u> </u>	-	(A)
-			_	fotal Number of Dominant Species Across All Strata: <u>2</u> (8)
	1	-Total Cove	·	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (AV
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
				OBL species x1 =
			-	FACW species K2 =
				FAC species x3 =
	-			FACU species x4 -
and the second sec		= Total Cove	r.	UPL species x6 =
Herb Stratum (Plot size: _ r = 6 ft_)	14.20	Contraction of the		Column Totals:(A)(B)
Eleocharis macrostachya	25%	Yes	OBL	Prevalance Index + B/A +
Lasthenia glaberrima	25%	Yes	OBL	
Lachnagrostis filiformis	2%		FACW	Hydrophytic Vegetation Indicators:
Polypogon mantimus	1%		OBL	
Festuca perennis	2%		FAC	X Dominance Test is >50%
Leontodon saxatilis	1%		FACU	Prevalence Index is ≤3.0 ¹
				Morphological Adaptationd ¹ (Provide supporting
	10 mm			data in Remarks or on a separate sheet)
	56%	= Total Cove	F	
Woody Vine Stratum (Plot size:)			- 11	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		= Iotal Cove		Hydrophytic Vegetation
% Bare Ground in Herb Stratum 44%	% Cover of	Biotic Crust	0%	Present? Yes X No

DIL							Sampling	Point.	047
Profile Des	scription: (Describe	to the de	pth needed to do	cument the in	dicator or o	confirm the abs	ence of indicator	5.)	
Depth	Matrix		Re	dox Features					
inches)	Color (moist)	%	Color (moist)	% Тур	be ¹ Loc ²	- Texture	1	Remarks	
).9	10YR 4/2		2.5YR 3/4	2 PL	M	Clay		m cobble	
~	-		2.5YR 3/3	3% C	M		1011 0 10	11 000010	
					_	_			
					_				
Danas CC	oncentration, D=Depletic	DM Do	duced Metrix CS-C	averad or Coold	d Sond Croin	A costion, DI	=Pore Lining, M=Ma	aio	
Type: C=C	oncentration, D=Depletic	n, kivi≡ke	duced mault, CS=C	overed or coate	a Sana Grain	S. Location: PL	.=Pore Lining, M=Ma	IIX.	
ydric Soi	il Indicators: (Applic	able to al	I LRRs, unless o	therwise note	d.)	Indicators f	or Problematic H	dric Soils ³ :	
Histos	sol (A1)		Sandy I	Redox (S5)		1 cm M	luck (A9) (LRR C)		
	Epipedon (A2)			Matrix (S6)		2 cm N	luck (A10) (LRR B)	
100000	Histic (A3)			Mucky Mineral	(E1)		ed Vertic (F18)		
1000	ogen Sulfide (A4)		_	Gleyed Matrix	S		arent Material (TF2	ĩ	
	fied Layers (A5) (LRR	C)		d Matrix (F3)	(/		(Explain in Remark		
_	Muck (A9) (LRR D)	0)		Dark Surface (6)		(Explain in reeman	~	
_	ated Below Dark Surface	co (A11)		d Dark Surface					
_	Dark Surface (A12)	ce (ATT)		Depressions (F					
				Pools (F9)	0)	3	Indicators of hydro		
	y Mucky Mineral (S1)		vernari	20012 (1-3)				y must be present,	
	y Gleyed Matrix (S4)						uniess disturbe	d or problematic.	
estrictive	e Layer (if present):								
pe: no	ne								
epth (inch	nes):				н	lydric Soil Pres	ent?	Yes X	No
etland H	lydrology Indicators:								
etland H	lydrology Indicators: dicators (minimum of o			1000 0000		<u>s</u>	Secondary Indicator	the second second	red)
etland H imary Inc Surfa	lydrology Indicators: dicators (minimum of o ce Water (A1)		Salt Cru	ıst (B11)		<u>s</u>	Water Mark	s (B1) (Riverine)	
etland H imary Ind Surfa High V	lydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2)		Salt Cru Biotic C	ıst (B11) rust (B12)		<u>s</u>	Water Mark Sediment D	s (B1) (Riverine) eposits (B2) (Rive	
etland H imary Ind Surfa High V	lydrology Indicators: dicators (minimum of o ce Water (A1)		Salt Cru Biotic C	ıst (B11)	(B13)	<u>s</u>	Water Mark Sediment D	s (B1) (Riverine)	
etland H imary Inc Surfa High V Satur	lydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2)	ne require	Salt Cru Biotic C Aquatic	ıst (B11) rust (B12)		<u>s</u> 	Water Mark Sediment D Drift Depos	s (B1) (Riverine) eposits (B2) (Rive	
etland H imary Ind Surfa High V Satur Water Sedin	lydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive nent Deposits (B2) (No	ne require rine) porriverine	Salt Cru Biotic C Aquatic Hydroge	ist (B11) rust (B12) Invertebrates	r (C1)		Water Mark Sediment D Drift Depos Drainage P	s (B1) (Riverine) eposits (B2) (Rive its (B3) (Riverine)	rine)
etland H imary Ind Surfa High V Satur Water Sedin	lydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive	ne require rine) porriverine	Salt Cru Biotic C Aquatic Hydrogu Oxidize	ist (B11) rust (B12) Invertebrates en Sulfide Odo	r (C1) s along Livin		Water Mark Sediment D Drift Depos Drainage P	s (B1) (Riverine) eposits (B2) (Rive its (B3) (Riverine) atterns (B10) n Water Table (C2)	rine)
etland H imary Inc Surfa High Satur Satur Satur Sedin Drift I	lydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive nent Deposits (B2) (No	ne require rine) porriverine	Salt Cru Biotic C Aquatic Hydrogu Oxidize Presend	ist (B11) rust (B12) Invertebrates en Sulfide Odo d Rhizosphere	r (C1) s along Livin Iron (C4)	ng Roots (C3)	Water Mark Sediment D Drift Depos Drainage P Dry-Season Crayfish Bu	s (B1) (Riverine) eposits (B2) (Rive its (B3) (Riverine) atterns (B10) n Water Table (C2)	rine)
etland H imary Ind Surfa High Satur Satur Satur Sedin Sedin Surfa	lydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive nent Deposits (B2) (No Deposits (B3) (Nonrive	ne require rine) prriverine erine)	Salt Cru Biotic C Aquatic Hydrogu Oxidize Present Recent	ist (B11) irust (B12) Invertebrates en Sulfide Odo d Rhizosphere ce of Reduced	r (C1) s along Livin Iron (C4) i in Tilled So	ng Roots (C3)	Water Mark Sediment D Drift Depos Drainage P Dry-Season Crayfish Bu	s (B1) (Riverine) teposits (B2) (Riverine) tits (B3) (Riverine) atterns (B10) t Water Table (C2) trrows (C8) Visible on Aerial Im	rine)
etland H imary Ind Surfa High V Satur Vater Sedin Drift I Surfa (Inund	Iydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive nent Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6)	ne require rine) prriverine erine)	Salt Cru Biotic C Aquatic Hydrog Oxidize Presend Recent B7) Thin Mu	ist (B11) irust (B12) Invertebrates en Sulfide Odo d Rhizosphere ce of Reduced Iron Reduction	r (C1) s along Livin Iron (C4) i in Tilled So 7)	ng Roots (C3)	Water Mark Sediment D Drift Depos Drainage P Dry-Season Crayfish Bu Saturation	s (B1) (Riverine) leposits (B2) (Rive its (B3) (Riverine) atterns (B10) n Water Table (C2) nrows (C8) Visible on Aerial In uitard (D3)	rine)
etland H imary Inc Surfa High N Satur Water Sedin Drift I Surfa Unund Water	Iydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive nent Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6) lation Visible on Aerial	ne require rine) prriverine erine)	Salt Cru Biotic C Aquatic Hydrog Oxidize Presend Recent B7) Thin Mu	ist (B11) irust (B12) Invertebrates en Sulfide Odo d Rhizosphere ce of Reduced Iron Reduction ick Surface (C	r (C1) s along Livin Iron (C4) i in Tilled So 7)	ng Roots (C3)	Water Mark Sediment D Drift Depos Drainage P Dry-Season Crayfish Bu Saturation Shallow Aq	s (B1) (Riverine) leposits (B2) (Rive its (B3) (Riverine) atterns (B10) n Water Table (C2) nrows (C8) Visible on Aerial In uitard (D3)	rine)
etland H imary Inc Surfa High N Satur Vater Sedin Drift I Surfa Surfa Unund Water eld Obse	Iydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive nent Deposits (B2) (No Deposits (B3) (Nonrive ce Soil Cracks (B6) lation Visible on Aerial r-Stained Leaves (B9)	ne require rine) onriverine erine) Imagery (Balt Cru Biotic C Aquatic Hydrog Oxidize Presend Recent B7) Thin Mu Other (f	ist (B11) irust (B12) Invertebrates en Sulfide Odo d Rhizosphere ce of Reduced Iron Reduction ick Surface (C	r (C1) s along Livin Iron (C4) i in Tilled So 7)	ng Roots (C3)	Water Mark Sediment D Drift Depos Drainage P Dry-Season Crayfish Bu Saturation Shallow Aq	s (B1) (Riverine) leposits (B2) (Rive its (B3) (Riverine) atterns (B10) n Water Table (C2) nrows (C8) Visible on Aerial In uitard (D3)	rine)
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rimary Ind Surfa- High 1 Satur- Water Sedin Drift I Surfa- K Surfa- K Inund Water Tabl Atter Tabl aturation ncludes c	ydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive nent Deposits (B3) (Norrive ce Soil Cracks (B6) lation Visible on Aerial r-Stained Leaves (B9) ervations: ater Present? Yes le Present? Yes present? Yes apillary fringe)	rine) priverine erine) Imagery (Balt Cru Biotic C Aquatic Hydrog- Oxidize Present Recent B7) Thin Mu Other (I No X Depth	Ist (B11) rust (B12) Invertebrates en Sulfide Odo d Rhizosphere e of Reduced Iron Reduction ick Surface (C Explain in Rem n (inches):n (inches):n	r (C1) s along Livin Iron (C4) i in Tilled So 7) arks)	ig Roots (C3)	Water Mark Sediment D Drift Depos Drainage P Dry-Seasor Crayfish B Saturation Shallow Aq FAC-Neutra	s (B1) (Riverine) leposits (B2) (Rive its (B3) (Riverine) atterns (B10) n Water Table (C2) nrows (C8) Visible on Aerial In Visible on Aerial In uitard (D3) al Test (D5)	rine) nagery (C9
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Project/Site:	606566	29 SML	ID Country Acres Sola	r(Sty/County: Placer County		Sampling Dat	ie: 08/16/21
Applicant/Owner:	SMUD					State CA	Sampling Poin	nt: 047-B
Investigator(s):	J. Wud	itzer and	I O. Routt		Section, Township, Ran	ge: 20 11N 5E	-	
Landform (hillslope	terrace	, etc.):	Terrace/Backslo	pje	Local relief (concave, cor	ivex, none): convex	S	slope (%): 0-1%
Subregion (LRR):	Mediter	ranean	California (LRR C)	Lat:	38.7588	35 Long:	-121.420362	Datum: NAD 83
Soil Map Unit Nam	e;	San Joa	quin-Corneta Sandy L	.oam		NWI Classificati	on: n/a	The state of the
Are climatic / hydro	logic cor	nditions	on the site typical for t	his time of ye	ar? Yes	No X	(If no, explain in	Remarks.)
Are Vegetation	x	Soil)	, or Hydrology		significantly disturbed? Ar	re "Normal Circums	ances' present? Y	es No X
Are Vegetation		Soil	or Hydrology	-	naturally problematic? (If	needed, explain any	answers in Remarks	5.)

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

Hydrophytic Vegetation Present?	Yes	No	x	Is the Sampled Area		
Hydric Soil Present?	Yes	No	X	within a Wetland?	Yes	No X
Wetland Hydrology Present?	Yes	No	X	Willing Wending:		
Remarks: Paired upland point to Wet	tand #47 and	wetland #	48. Point I	aken from edge of access roa	d in almond orcha	rd, some garbage nearby., Abnormally
						(Placer County rain gauge #1786, colle
	1 located ab	out 2 miles	innet of p	roject site along Pleasant Gro	(in Crook)	

Ire	e Stratumi (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL_FACW, or FAC:
1		-			0_0
-			_	_	Total Number of Dominant Species Across All Strata: 3 (B
-		-	-Total Cove	ŗ	Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A
Sar	pling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet; Total % Cover of: Multiply by:
_					OBL species x1 -
_		_			FACW speciesx2 =
-					FAC speciesx3 =
			_	i	FAGU speciesx4 =
	COLORED TO A		-Total Cove	r	UPL species x5 =
Her	b Stratum (Plot size: _r = 5 ft_)	1.27			Column Totals: (A) (B
Bro	omus hordeaceous	25%	Yes	FACU	Prevalence Index = B/A =
Ely	mus caput-medusae	20%	Yes	NL	
Erc	odium botrys	20%	Yes	FACU	Hydrophytic Vegetation Indicators:
Ho	locarpha virgata	5%		NL	
Bro	omus diaridrus	10%		NL	Dominance Test is >50%
Сл	oton setiger	1%		NL	Provalence Index is ≤3.0 [®]
Fe.	stuca bromoides	10%		FACU	
Fe	stuca perennis	2%		FAC	Morphological Adaptationd ¹ (Provide supporting data in Remarks or on a separate sheet)
-		93%	- Total Cove		and an example of a calculation of the
Wo	ody Vine: Stratum (Plot size:)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
_	Bare Ground in Herb Stratum 7%	% Cover of	=Total Cove Biotic Crust	0%	Hydrophytic Vegetation Present? Yes No X

			epurneeue	ed to document			and the abse	ance of i	rucator 3.)		
epth	Matrix			Redox Feat							
nches)	Color (moist)	%	Color (m		Type ¹	Loc ²	Texture			Remarks	
7.5	7.5YR 5/4	99.9	black	0.1	c	M	sandy		not in a close	d depression	
5-13	7.5YR 5/4	99	black		С	М	clay loam				
			-				-	_			
		_						_	-		
me: C=(Concentration, D=Depleti	ion RM=R	educed Matr	ix CS=Covered or	Coated Sa	and Grains	² Location: PL =	Pore Lini	ng M=Matrix		
	o moona aa ah ah ah ah ah ah ah		oudood muu		o datisa et		LUUUUUU				
dric Sc	oil Indicators: (Applie	cable to a	all LRRs, u	nless otherwise	noted.)		Indicators fo	or Proble	matic Hydric	Soils ³ :	
-	osol (A1)			Sandy Redox (S				uck (A9)			
	c Epipedon (A2)			Stripped Matrix (1 1 m m m m) (LRR B)		
-	k Histic (A3)			Loamy Mucky M				d Vertic			
-	ogen Sulfide (A4)			Loamy Gleyed N)			erial (TF2)		
-	ified Layers (A5) (LRR	(C)		Depleted Matrix			Other (I	Explain in	ı Remarks)		
	Muck (A9) (LRR D)			Redox Dark Surf							
	eted Below Dark Surfa	ace (A11)		Depleted Dark S		/)					
-	k Dark Surface (A12)			Redox Depression			3		of hydrophyti		
	ly Mucky Mineral (S1)			Vernal Pools (F9	9				hydrology mu		L.
	dy Gleyed Matrix (S4) re Layer (if present):							uniess	disturbed or	problematic.	
pe: no											
	hos).					Live	dric Soil Droce	ant?	V	20	No
arks: N	hes): o closed depression fe ion.	ature; no	hydric soil i	indicators. Fairly	/ coarse s		dric Soil Prese 9.5 cm gravel th		52	es e irrigation wa	No
arks: N	o closed depression fe	eature; no	hydric soil i	indicators. Fairly	r coarse s				52		
arks: No Iry seas	o closed depression fe on.		hydric soil i	indicators. Fairly	r coarse s				52		
arks: No ry seas ROLOC atland H	o closed depression fe on. SY Hydrology Indicators	:			/ coarse s		.5 cm gravel th	nroughou	t. Soils receive	e irrigation wa	ater throug
arks: No ry seas ROLOC etland H mary In	o closed depression fe on. SY Hydrology Indicators (dicators (minimum of	:	red; check &	all that apply)	/ coarse s		.5 cm gravel th	econdary	t. Soils receive	e irrigation wa	ired)
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Project/Site:	60656629 SMUD	Country Acres Solar	Cr	ty/County: Placer County		Sampling Date:	08/18/21
Applicant/Owner: Investigator(s):	SMUD J. Wurlitzer and C	. Routi	-	Section, Township, Range:	State: CA 20.11N.5E	Sampling Point	1 048-A
Landform (hillslope Subregion (LRR):	, terrace, etc.): Mediterratiean Ca	Terrace lifornia (LRR C)	Lat:	Local relief (concave, conve: 35,75884		-121.420505	pe (%): 1% Datum: NAD 83
Soil Map Unit Nam	e: San Joaqu	in Corneta Alamo Fid			NWI Classification:	None	
Are climatic / hydro Are Vegetation Are Vegetation	logic conditions on <u>X</u> , Soil <u>X</u> , Soil	the site typical for this , or Hydrology , or Hydrology		ignificantly disturbed? Are 1	No <u>X</u> Normal Circumstand eded, explain any an		s <u>No X</u>

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

Hydrophytic Vegetation Present?	Yes	x	No	Lange and			
Hydric Soil Present?	Yes	X	No	Is the Sampled Area within a Wetland?	Yes	х	No
Wetland Hydrology Present?	Yes	X	No			107	
							ature. Only 4.92 Inches of rain for the
rain year to date, when normal is 35 i miles west of project site along Pleas					d from Octob	er 1, 202	0 to April 08, 2021, located about 3

J	Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL_FACW, or FAC:
-					fotal Number of Dominant
			=	_	Species Across All Strata: 2 (B)
ľ		-	-Total Cove	-	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
4.4	Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
ē					OBL species x1 =
J					FACW species K2 =
Ē					FAC species x3 =
ĩ		-	_		FACU species x4 =
7	and the second states and states	-	=Total Cove	r	UPL species x5 =
ł	Herb Stratum (Plot size: _1 = 6.0_)	1 mar 1	- 11. A 1. B		Column Totals:(A)(B)
1	Lasthenia glaberrima	15%	Yes	OBL	Prevalance Index = B/A =
1	Plagiobothrys stipitatus	20%	Yes	FACW	Contraction of the second s
1	Deschampsia danthanoides	12%		FACW	Hydrophytic Vegetation Indicators:
1	Festuca perennis	2%		FAC	
1	Psilocarphus brevissimus	1%		FACW	X Dominance Test is >50%
Ĵ,	Castilleja campestris	1%		FACW	Prevalence Index is ≤3.0
7	Eryngium vaseyi	1%		FACW	
1	Achyrachaena mollis	1%		FAC	Morphological Adaptationd' (Provide supporting
-		53%	- Total Cove		data in Remarks or on a separate sheet)
1	Noody Vine Stratum (Plot size:)		= Total Cove		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	% Bare Ground in Herb Stratum 47%		= Total Cove Biotic Crust	0%	Hydrophytic Vegetation Present? Yes X No

Profile Description: (Description: (Descr	OIL					Sampling Point:	048
Inches) Color (most) % Color (most) % Type Loc ² Testure Remarks 0.d 10 YR 4/3 85 2.5 YR 4/4 15 C M Loam Image: Color (most) % Yet Yet <td>Profile Description: (Describe to the de</td> <td>pth needed to doc</td> <td>ument the indica</td> <td>ator or co</td> <td>nfirm the abse</td> <td>ence of indicators.)</td> <td></td>	Profile Description: (Describe to the de	pth needed to doc	ument the indica	ator or co	nfirm the abse	ence of indicators.)	
Inches) Color (most) % Type Loc ² Texture Remarks 0.6 10YR 4/3 85 2.5YR 4/4 15 C M Loam Image: Color (most) % Type Loam Image: Color (most) % Image: Color (most) % Type Loam Image: Color (most) % Image: Color (Most) Image:	Depth Matrix	Red	ox Features				
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Type: C:Concentration, D:Depletion, RM-Reduced Matrix, CS:-Courred of Coated Sand Grains. *Location: PL-Pore Lining, M-Matrix. Histon E pipedon (A2) Strapped Matrix, CS:-Courred of Coated Sand Grains. Indicators for Problematic Matrix, CB: Histon E pipedon (A2) Strapped Matrix, CS: Indicators for Problematic Matrix, CB: Histon E pipedon (A2) Strapped Matrix, CS: Red Paret Matrix, CB: Histon E pipedon (A2) Loamy Mucky Mineral (F1) Red Dater Material (F2) Black Histin (A3) Loamy Glayed Matrix, (F3) Red Paret Material (F2) Stratified (A) Loamy Mucky Mineral (F1) Red Paret Material (F2) Stratified (A1) Depleted Matrix, (F3) Other (Explain in Remarks) 1 cm Mack, K90 (URR D) Redex Dark Straface (F3) * Straty Mucky Mineral (S1) Depleted Dark Straface (F3) * Straty Glayed Matrix (S4) unless disturbed or problematic. Restrictive Layer (ff present): Wernal Pools (F3) * Thirt: Soil Present? Yes_X No_ Matrix: Soil Graves statistication of soil colors visible but not possible to extract a solid pedon to determine differentiation point. Colors tending toward oran hazy diffuse sunlight. CDROLOCY Matrix: Soil (Roverine) Safar Cuts (B1)					-		
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		nitoring well, aerial	nhotos, previous i	nspection	s), if available:		
marks:	Sense Recorded Suid (Silean gauge, mo	into ing incli, denui	prioros, protrious i	nopeetion	sy, il avallable.		
	emarks:						

Applicant/Owner:	SMUD			· · · · · · · · · · · · · · · · · · ·			State: CA	San	opling P	oint:	049
nvestigator(s):	J. Wurfitzer and O.	Routt		Sectio	on, Township	, Rangé:	20 11N 5E	_			
andform (hillslope	, terrace, etc.):	Terrace					none): Conca				
Subregion (LRR):	Mediterranean Cal	difornia (LRR C)	Lat		3	5.758579	Long:	-121.	420727	Datu	m: NAD 83
oil Map Linit Nam	San losou	in-Cometa					WI Classificati	None			
A Read of the second second	logic conditions on		or this time of a	marz	Voc			(If no.	ovislain i	n Domod	e S
Vie Vegetation	Y Soil Y	or Hydrolog	a mia mile org	cionificanth	debutod?	Aro "h	Circunos	tancas" nuo	cont?	Voe	No X
Aré Vegetation	X	or Hydrolog		osturally or	oblematic?	(II nee	fed explain an	autors pro	n Dome	tea	1947 10
are vegeranar		w Hydroxog		insuration by	(Michikaw, 1	(a mar	adu, explaint an	iy nitawets)	n Kenna	inearly	
SUMMARY OF	FINDINGS - A	ttach site ma	p showing	sampling	point loc	ations, t	ransects, im	portant f	eature	s, etc.	
Hydrophytic Veget	ation Present?	Yes X		- Leine	ampled Are						
lydric Soil Presen		Yes X			a Wetland?		Yes X	No		_	
Wetland Hydrology	Present?	Yes X	No	a la contra							
2021, localed abor	for the min year to it 3 miles west of pro	oject site along l	Pleasant Grove					collected fr	om Octo	ber 1, 20	20 to April
EGETATION	 Use scientific 	c names of p		Dominant	Indicator	Domina	nce Test work:	sheet:	_		_
Tree Stratum	(Plot size:)		and the second second	Species7	Status	1. (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	of Dominant Sp				
Tree orduin	1.104.04.00. 1						OBL FACW			2	(A)
						Total Nu	mber of Domin	ant	_		
			_	-	1		Across All Stra			2	(B)
			1.1			Percent	of Dominant Sp			-	-1-1
				-Total Cove	3		OBL, FACW.		1	00%	(A/B)
			1.000			11.12	2011	100	-		
Sapling/Shrub	Stratum (Plot size:	Y				Prevaler	nce Index Wor	ksheet:			
1				_	_	Tot	al % Cover of:		Mult	ply by:	_
			_			OBL Spe	cies	x1	100	Sec. 16	_
3/				<u> </u>			pocies				
1			_			FAC spe	cies	X3	-		_
· -			_	Carlo Martin		FACUS	ecies	×4			-
71.200.5-5	and the Mark			= Total Cove	эr		cles	X5 =	_		-
	(Plot size: r = 6	SR Y			EAC		Totals:				(B)
. Festuca pere			20%	Yes	FAC	Pneva	ence Index - B	J/A			
	a danthanoides		10%	Yes	FACW						_
. Plagiobothry			5%	÷	FACW	Hydroph	ytic Vegetatio	on Indicato	S:		
Lasthenia fre			3%		OBL	v	Constitution 7				
Eleocharis m					OBL	<u>x</u>	Dominance Te				
. Ranunculus I				÷	OBI		Prevalence In	dex is \$3,0			
Psilocarphus			1%		FACW						
Leontodon sa			1%	-	FACU						
), Polypogon m	antimus		1%		OBL						
). Juncus bulor	nus		1%		FACW		Morphological				eting
Bromus hord	eaceous		1%		FACU	1.13	data in Reman				
Concerning and			5.5%	- Total Cove	эr						
Woody Vine St	ratum (Plot size: _)	1.11		-		rs of hydric soil nt. unless distu				5. Aug
2.			_			Hydroph	ivtic				
				= Total Cove		Vegetati	on	1980		G	
0.0000000000000000000000000000000000000	d in Herb Stratum	45%	% Cover of	Biotic Crust	0%	Present	8	Yes	X	No	_
Remarks:											

rofile De										
Tome De:	scription: (Describe	to the de	pth needed to do	cument	the indica	ator or co	nfirm the abs	sence of	indicators.)	
Depth	Matrix		Re	dox Feat	ures					
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	e	Rem	arks
-5	10YR 4/3	95	2.5YR 4/6	2		M	sandy loam		concave depression	
<u> </u>	-		-	3%		M	Sanay Ioani		concare appression	
							-			
	oncentration, D=Depletic	DM D	duced Matrix CC /		Control Co	ad Croine	a continue DI	Dere	ning, M=Matrix.	
ype. c=c	oncentration, D=Depletic	JII, RIVI-RO	euceu Maura, CS=C	vovered or	Coaled 3a	inu Grains.	Location. PL	L=POIeLI	iing, m=maux.	
ydric Soi	il Indicators: (Applic	able to a	II LRRs, unless o	therwise	noted.)		Indicators	for Prob	ematic Hydric Soils ³ :	
Histos	sol (A1)		Sandy	Redox (S	5)		1 cm M	Auck (A9	(LRR C)	
	Epipedon (A2)			d Matrix (0) (LRR B)	
100000	Histic (A3)			an an all	ineral (F1)			ed Vertic		
	ogen Sulfide (A4)				Aatrix (F2)		_		terial (TF2)	
	fied Layers (A5) (LRR	C		ed Matrix					in Remarks)	
_	Muck (A9) (LRR D)	0)		Dark Surf				(CApicini	in Romanoy	
_	ated Below Dark Surface	0 (811)			urface (F)	n a				
		ce (ATT))				
	Dark Surface (A12)			Depressio			3		s of hydrophytic vegeta	
	y Mucky Mineral (S1)		vernal	Pools (F9	<i>י</i> י				d hydrology must be pr	
	y Gleyed Matrix (S4)							unles	s disturbed or problem	natic.
estrictive	e Layer (if present):									
pe: ha	rdpan									
epth (inch	nes): 6 inches					Hy	dric Soil Pres	sent?	Yes)	(No
etland H	lydrology Indicators:									
etland H			Distance in the second						y Indicators (2 or more	
etland H	lydrology Indicators:		Distance in the second	apply) ust (B11)			<u>\$</u>		y Indicators (2 or more Vater Marks (B1) (Rive	
etland H imary Inc Surfa	lydrology Indicators: dicators (minimum of o		Salt Cr				<u>\$</u>	V	all the second second	ərine)
etland H imary Ind Surfa High V	lydrology Indicators: dicators (minimum of o ce Water (A1)		Salt Cri Biotic C	ust (B11) Crust (B12		3)	<u>\$</u>	v s	Vater Marks (B1) (Rive	erine)) (Riverine)
etland H imary Inc Surfa High V Satur	lydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2)	one requir	Salt Cri Biotic C Aquatio	ust (B11) Crust (B12 : Invertebr	2)		<u>\$</u> 	V 5 0	Vater Marks (B1) (Rive Sediment Deposits (B2)	erine)) (Riverine) erine)
etland H imary Inc Surfa High \ Satur Water	lydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3)	one requir erine)	Salt Cri Biotic C Aquatic Hydrog	ust (B11) Crust (B12 Invertebr en Sulfide	2) rates (B13 e Odor (C	1)	<u>\$</u> Roots (C3)	V S C C	Vater Marks (B1) (Rive Sediment Deposits (B2) Drift Deposits (B3) (Riv	erine)) (Riverine) erine)))
etland H imary Ind Surfa High V Satur Water Sedin	lydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive	one requir orine) onriverin	Salt Cri Biotic C Aquatic Hydrog X Oxidize	ust (B11) Crust (B12 Invertebi en Sulfide ed Rhizosj	2) rates (B13 e Odor (C	1) ong Living	-		Vater Marks (B1) (Rive Sediment Deposits (B2) Drift Deposits (B3) (Riv Drainage Patterns (B10	erine)) (Riverine) erine)))
etland H imary Inc Surfa High Satur Satur Satur Drift I	lydrology Indicators: dicators (minimum of o ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) (Nonrive nent Deposits (B2) (No	one requir orine) onriverin	Salt Cri Biotic C Aquatic Hydrog X Oxidize Presen	ust (B11) Crust (B12 Inverteb en Sulfide ed Rhizosj ce of Red	?) rates (B13 e Odor (C pheres ald luced Iron	1) ong Living	Roots (C3)		Vater Marks (B1) (Rive Sediment Deposits (B2) Drift Deposits (B3) (Riv Drainage Patterns (B10 Dry-Season Water Tabl	erine)) (Riverine) erine))) le (C2)
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Project/Site:	60656629 SMUD	Country Acres Solar	0	hty/County: Placer County	-	Sampling Date:	08/18/21
Applicant/Owner:	SMUD				State CA	Sampling Point:	049 B
Investigator(s):	J. Wurlitzer and C	D. Routt		Section, Township, Range:	20 11N 5E		
Landtorm (hillslope	, terrace, etc.):	Terrace/Backslope		Local relief (concave, convex	, none): none	Slo	pe (%): 0-1%
Subregion (LRR):	Mediterranean Ca	alifornia (LRR C)	Lat:	38.757905	Long:	-121.420718	Datum: NAD 83
Soil Map Unit Nam	e: San Joag	uin-Corneta			NWI Classification	n/a	11
Are climatic / hydro	ologic conditions or	the site typical for this	time of yea	ar? Yes	No X	(If no, explain in R	emarks.)
Are Vegetation	Soil	, or Hydrology		significantly disturbed? Are 1	Vormal Circumstan	ces" present? Yes	No X
Are Vegetation	Soil	, or Hydrology		naturally problematic? (If nee	ded, explain any a	nswers in Remarks.)	(

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

Hydrophytic Vegetation Present?	Yes	No	х			
Hydric Soil Present?	Yes	No	X	Is the Sampled Area within a Wetland?	Yes	No X
Wetland Hydrology Present?	Yes	No	X		-	
Remarks: Paired upland point to Wet						fence line. Abnormally low rainfall tot
the season; only 4.92 Inches of rain f	or the rain ye	ar to date,	whennor	mai is 35 inches for the County	y (Placer County ra	ain gauge #1786, collected from Octobe

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:
				That Are OBL, FACW, OF FAC: 0 (Å)
		-	_	Total Number of Dominant Species Across All Strata: 2 (B)
	1.1	-Total Cove		Percent of Dominant Species That Are OBL_FACW, or FAC: 0% (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index Worksheet: Total % Cover of: Multiply by:
				OBL species x1
-			-	FACW species x2 =
			-	FAC speciesX3 =
				FACU speciesx4 =
and a start which who will do a first	-	-Total Cove		UPL speciesx5 =
Herb Stratum (Plot size: _r = 5 ft_)	-		EACH	Column Totals:(A)(B)
Bromus hordeaceous	45%	Yes	FACU	Prevalence Index = B/A =
Festuca bromoldes		Yes	FACU	
Festuca perennis	8%		FAC	Hydrophytic Vegetation Indicators:
Holocarpha virgata	5%		NL	
Erodium botrys	-3%		FACU	Dominance Test is >50%
	- , ,			Prevalence Index is ≤3.0 [™]
				time and the second sec
			_	Morphological Adaptationd ¹ (Provide supporting
	-			data in Remarks or on a separate sheet)
		-Total Cove	F. 11	and the second
Woody Vine Stratum (Plot size:)	5 a			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		=Total Cove Biotic Crust	0%	Hydrophytic Vegetation Present? Yes No X
% Bare Ground in Herb Stratum 2%	va cover or	DIOLIC CHUSE	0.00	riesent: 183 NO A

OIL									Sampling Poi	nt:	0
Profile Des	scription: (Describe	to the dep	oth needed to	document	the indic	ator or co	onfirm the a	absence	of indicators.)		
Depth	Matrix			Redox Feat							
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Tex	ture		Remark	S
-3	7.5YR 4/3		7.5YR5/6	12	С	м	sandy loa		not in a clos		
						_					
_									· · · · · · · · · · · · · · · · · · ·		
		_									
vpe: C=C	oncentration, D=Depletio	n RM=Red	luced Matrix. CS	=Covered or	Coated Sa	and Grains	² Location:	PL=Pore	Lining, M=Matrix.		
.jpor o o	ensenadadi, p. p. spirad		uoou muun, oo	0010104 0	o datea e.		Looddon				
ydric Soi	I Indicators: (Applic	able to all	LRRs, unless	otherwise	noted.)		Indicato	rs for Pr	oblematic Hydri	c Soils ³ :	
Histos	sol (A1)		Sand	y Redox (S	5)		1 cr	n Muck ((A9) (LRR C)		
Histic	Epipedon (A2)		Stripp	oed Matrix ((S6)		2 cr	n Muck ((A10) (LRR B)		
Black	Histic (A3)		Loam	y Mucky M	ineral (F1)	Rec	duced Ve	ertic (F18)		
Hydro	gen Sulfide (A4)		Loam	y Gleyed N	Aatrix (F2)	Rec	Parent	Material (TF2)		
Stratif	ied Layers (A5) (LRR	C)	Deple	eted Matrix	(F3)		Oth	er (Expla	ain in Remarks)		
1 cm	Muck (A9) (LRR D)		Redo	x Dark Sur	face (F6)		_				
Deple	ted Below Dark Surface	ce (A11)	Deple	eted Dark S	urface (F	7)					
Thick	Dark Surface (A12)		Redo	x Depressi	ons (F8)			3Indios	ators of hydrophy	ie vogototio	n and
Sandy	Mucky Mineral (S1)		Verna	al Pools (FS))				land hydrology m		
Sandy	Gleyed Matrix (S4)		_						less disturbed or		
strictive	Layer (if present):										
/pe: nor	1e										
epth (inch			_			н	dric Soil P	resent?	\$	es	No
andre. Ma	closed depression fea		undels and inselies	tere Cotter	an a luci al acciona	and a summer	a stand and I. C	linguine e	alial mandata in mater	a secolate O	less marche
OROLOG	v										
	vdrology Indicators:										
	licators (minimum of o		d: check all tha	t apply)				Secon	dary Indicators (2	or more re	auired)
	ce Water (A1)	in roughing		Crust (B11)					Water Marks (E		
	Water Table (A2)			Crust (B12					Sediment Depo		
_	ation (A3)			tic Inverteb		3)			Drift Deposits (
_	Marks (B1) (Nonrive	rino		ogen Sulfid					Drainage Patte		10)
	ient Deposits (B2) (No						Roots (C3)		Dry-Season Wa		2)
	eposits (B3) (Nonrive			ence of Rec			110003 (05)		Crayfish Burrow		02)
	ce Soil Cracks (B6)	ernie)		nt Iron Red		and the second second	(06)		Saturation Visit		Umogory /C
_	ation Visible on Aerial	Imagory (rilled 30il	5 (00)		and the second s		r inagery (C
_	-Stained Leaves (B9)	imagery (i		Muck Surfa		-1			Shallow Aquita FAC-Neutral Te		
	()			r (Explain ir	Remarks	")			FAC-Neutral Te	st (D5)	
	ervations:			ath for the st							
	ater Present? Yes			pth (inches)		_					
	e Present? Yes			pth (inches)		_	Martin and			N.	N .2
aturation I	Present? Yes apillary fringe)		No X De	ptri (incries,		_	wettand	Hydrolog	gy Present?	Yes	No
	orded Data (stream g	aude mon	itoring well ae	rial photos	previous	inspection	is) if availa	ble:			
	orada bata (su dain g	dugo, mon	itering treat, de	nui priotos,	promoto	nopooloi	io,, ii arana	510.			
narks: No	hydrology indicators.										
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rmy Cor	ps of Engineers									Arid	West - Versi



Plant Species Observed

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Plant Species Observed in Study Area

Scientific Name	Common Name	Indicator Status ¹
Acer negundo	box Elder	FACW
Achyrachaena mollis	blow-wives	FAC
Acmispon americanus	Spanish clover	UPL
Aira caryophyllea	common silver-hairgrass	FACU
Alopecurus aequalis	short-awn meadow-foxtail	OBL
Apocynum cannabinum	Indian hemp	FAC
Ascelpias fascicularis	narrow-leaf milkweed	FAC
Avena fatua	wild oats	NL
Azolla microphylla	mosquito fern	OBL
Baccharis salicifolia	mule fat	FAC
Brassica nigra	black mustard	NL
Brassica rapa	common mustard	FACU
Briza minor	lesser quaking grass	FAC
Brodiaea appendiculata	Hoover's brodiaea	NL
Brodiaea coronaria	harvest cluster lily	FAC
Brodiaea minor	cluster Lily	NL
Bromus diandrus	ripgut brome	NL
Bromus hordeaceus	soft brome	FACU
Calandrinia ciliata	fringed redmaids	FACU
Callitriche stagnalis	vernal pool-starwort	OBL
Carduus pycnocephalus	Italian thistle	NL
Castilleja attenuata	valley tassels	NL
Castilleja campestris	vernal pool-Indian paintbrush	FACW
Castilieja campestris Centromadia fitchii	Fitch's false tarplant	FACU
Centromadia memi Chlorogalum pomeridianum	wavy-leafed soap plant	NL
Chiorogaium pomendianum Cirsium vulgare	bull thistle	FACU
	field bindweed	NL
Convolvulus arvensis		
Crassula aquatica	water pygmyweed	OBL
Croton setigerus	doveweed	NL
Cyperus eragrostis	tall flat sedge	FACW
Deschampsia caespitosa	tufted hair grass	FACW
Dichelostemma multiflorum	round-toothed snake lily	NL
Downingia bicornuta	double-horn calico-flower	OBL
Echinochloa crus-galli	large barnyard grass	FACW
Eleocharis macrostachya [E. palustris]	common spike-rush	OBL
Elymus caput-medusae	medusa head	NL
Epilobium brachycarpum	willowherb	FAC
Erodium botrys	long-beak stork's-bill	FACU
Eryngium vaseyi	coyote thistle	FACW
Festuca arundinacea	tall fescue	NL
Festuca bromoides	brome fescue	NL
Festuca myuros	rattail sixweeks fescue	NL
Festuca perennis [Lolium perenne]	Italian ryegrass	NL
Ficus carica	edible fig	FACU
Geranium dissectum	wild geranium	NL
Glyceria declinata	waxy manna grass	FACW
Gratiola ebracteata	bractless hedge-hyssop	OBL
Grindelia camporum	Great Valley gumweed	FACW
Helminthotheca echioides	bristly ox tongue	FAC
Holocarpha virgata	pitgland tarweed	NL
Hordeum marinum	seaside barley	FAC
Hypochaeris glabra	smooth cat's ear	NL
	hairy cat's ear	FACU
Hypocharis radicata	-	
Iris pseudacorus	yellow-flag Iris	OBL

Plant Species Observed in Study Area

Scientific Name	Common Name	Indicator Status ¹
luncus capitatus	leafy-bract dwarf rush	FACU
luncus effusus	soft rush	FACW
luncus patens	spreading rush	FACW
luncus xiphioides	iris-leaf rush	OBL
actuca serriola	prickly lettuce	FACU
asthenia fremontii	Fremont's goldfields	OBL
asthenia glaberrima	smooth goldfields	OBL
eontodon saxatilis	hawkbit	FACU
upinus bicolor	miniature lupine	NL
ythrum hyssopifolia	hyssop loosestrife	NL
Natricaria discoidea	pineapple weed	FACU
lavarretia leucocephala	white-flower pincushion-plant	OBL
Parentucellia viscosa	yellow gland-weed	FAC
Paspalum distichum	jointed crown grass	FACW
Phalaris aquatica	harding grass	FACU
Plagiobothrys greenei	Greene's popcorn-flower	FACW
Plagiobothrys stipitatus	stalked popcorn-flower	FACW
Plantago lanceolata	English plantain	FAC
Plantago erecta [biglovii ssp. californica]	California plantain	OBL
Pleuropogon californicus	California false semaphore grass	OBL
Persicaria sp.	smartweed	-
Persicaria lapathifolia	common knotweed	FACW
Polypogon maritimus	maritime rabbit's-foot grass	OBL
Polypogon monspeliensis	annual rabbit's-foot grass	FACW
Populus fremontii	Fremont cottonwood	NL
Psilocarphus brevissimus	dwarf woollyheads	FACW
Psilocarphus oregonus	oregon woollyheads	OBL
Psilocarphus tenellus	slender woollyheads	OBL
Ranunculus bonariensis	vernal pool buttercup	OBL
Raphanus raphanistrum	wild radish	NL
Raphanus sativus	jointed charlock	NL
Rorippa curvisiliqua	curve-pod yellowcress	OBL
Rorippa palustris	bog yellowcress	OBL
Rosa rubiginosa	sweet brier	UPL
Rubus armeniacus	Himalayan blackberry	FAC
Rumex crispus	curly dock	FAC
Salix exigua	narrow-leaf willow	FACW
Salix gooddingii	Goodding's black willow	FACW
Senecio vulgaris	old-man in-the-spring	FACU
Sonchus asper	spiny-leaf sow-thistle	FAC
Spergularia rubra	ruby sand spurrey	FAC
Spergularia macrotheca var. leucantha	white sticky sand spurrey	FAC
Foxicodendron diversilobum	Pacific poison oak	FAC
Frifolium dubium	suckling clover	UPL
Frifolium repens	white clover	FACU
riteleia laxa		NL
	Ithuriel's spear	NL
Friphysaria eriantha France latifalia	butter 'n' eggs	
Typha latifolia Vereniae peregrine	broad-leaf cattail	OBL
Veronica peregrina Vicio potivo	neckweed	FAC
Vicia sativa Vicia villosa ssp. varia	spring vetch smooth winter vetch	FACU NL

¹ OBL=Obligate, FACW=Facultative Wetland, FAC = Facultative, FACU = Facultative Upland; UPL = Upland, NL= Not Listed Sources: Jepson Flora Project 2021; USACE 2018 Compiled by AECOM in 2021

APPENDIX D

Representative Photographs

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OWUS2 man made ditch is 1.5 wide Jasmine Wurlitzer AECOM

Photo 2. Agricultural ditch, AD-01 (other waters). Looking west. April 9, 2021.



Photo 3. Almond orchard and disturbed (road) land cover types. Looking west. July 14, 2021.



Photo 4. Annual grassland land cover type. Looking east. May 14, 2021.



Photo 5. Intermittent Drainage (ID-01) (other waters). Looking west. May 14, 2021.



Photo 6. Cattail marsh land cover type. Looking northwest. April 7, 2021.

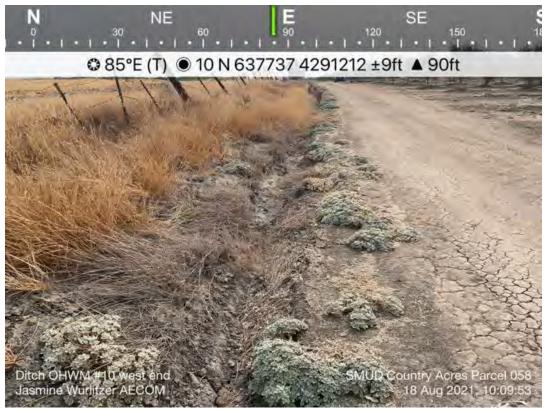


Photo 7. Ditch, D-43, along fence line north of orchard access road. Looking east. August 18, 2021.



Photo 8. Himalayan blackberry thicket land cover type. Flooded rice fields in background to the east, and annual grassland in the background to the west. Looking southeast. May 14, 2021.



Photo 9. Intermittent drainage, ID-04. Looking southwest. May 14, 2021.



Photo 10. Perennial emergent marsh, PEM-26. Looking west. May 14, 2021.



Photo 12. Willow riparian land cover type, along ID-02. Looking west. May 14, 2021.



Photo 13. Seasonal wetland, SW-11. Looking north. April 9, 2021.



Photo 14. Vernal pool, VP-5, in grassland matrix. Looking north. April 9, 2021.



Photo 15. Wetland, W-20, adjacent to AC-01. Looking north. April 21, 2021.