

# Waters and Wetlands Delineation Report

**Dove Creek Self-Storage Development Project Atascadero, San Luis Obispo County, California** 



#### **Prepared for:**

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#### **DISCLAIMER**

Terra Verde Environmental Consulting, LLC (hereafter, Terra Verde) has prepared this waters and wetlands delineation report for use by Mr. Scott Newton (owner). The results and conclusions of this report are conditional upon final approval by the United States Army Corps of Engineers. Results and conclusions presented in this report are based upon information available in the public domain (e.g., United States Geological Survey 7.5-minute topographic quadrangle maps, the Natural Resources Conservation Service Soil Surveys, aerial photographs from various sources, etc.), as well as Terra Verde's on-site reconnaissance, data collection, and analyses, which were completed using standard methods. Results and conclusions presented herein represent the best professional judgment of Terra Verde technical staff. In this context, surveying/boundary locations developed by Terra Verde are assumed to be true and correct.

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#### **EXECUTIVE SUMMARY**

Terra Verde Environmental Consulting, LLC (Terra Verde) was retained by Mr. Scott Newton (owner) to complete a formal delineation of waters and wetlands under the jurisdiction of federal resource agencies for the proposed Dove Creek Self-storage Development (project), located at 11505 El Camino Real and 11450 Viejo Camino (APN 045-342-009 and 045-342-010) in the City of Atascadero, San Luis Obispo County (County), California. Field surveys included a delineation of all federal waters and wetlands, as defined by the U.S. Army Corps of Engineers (Corps). The survey area encompassed the entire proposed project area and the immediately surrounding wetland and riparian habitats.

This report has been developed by Terra Verde using current Corps guidance concerning waters and wetlands delineations. Determinations are based on field observations made in 2018. Information offered in this report is arranged to describe the delineation objectives, discuss pertinent regulatory contexts, explain the approach and methodology used by Terra Verde in this delineation, and provide a summary of technical results. This report is intended to provide details regarding aquatic resources on site and may be used to support permit application(s) to the Corps, the California Department of Fish and Wildlife, and the Regional Water Quality and Control Board for the proposed development

Terra Verde determined that no federal wetlands are present on the project site; however, 581 linear feet of non-wetland waters of the U.S. were mapped on the subject property. As necessary, this information may be used to support regulatory permits and/or project approvals from the Corps, the City of Atascadero and other resource agencies. The results of the delineation, as described in this report, are conditional upon a review and final jurisdictional determination by the Corps.



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#### 1.0 INTRODUCTION & BACKGROUND

This waters and wetlands delineation report was prepared by Terra Verde Environmental Consulting, LLC (Terra Verde) on behalf of Mr. Scott Newton (owner) in support of the proposed Dove Creek Self-storage Development Project (project) located at 11505 El Camino Real and 11450 Viejo Camino (APN 045-342-009 and 045-342-010) in the City of Atascadero, San Luis Obispo County (County), California (see Appendix A - Figure 1: Site Vicinity and Topographic Map). This report summarizes the regulatory context, methods, and results of field surveys, which focused on the delineation of federal wetlands and waters of the United States (waters of the U.S.), as defined by section 404 of the Clean Water Act. The survey area included the entire proposed project area, as well as immediately adjacent wetland and riparian habitats (see Appendix A – Figure 2: Project Site and Survey Area Map).

The project site encompasses approximately 4.15 acres of grazed grassland, which is bisected by an unnamed United States Geological Survey (USGS) blue line drainage. This drainage enters the property via a culvert under El Camino Real and meanders generally northeast across the project site before entering a second culvert under Viejo Camino. This drainage eventually discharges into Paloma Creek approximately 0.25 mile northeast of the project site. Paloma Creek flows directly to the Salinas River and eventually the traditionally navigable waters of the Pacific Ocean (see Appendix A – Figure 3: Hydrologic Connectivity Map).

This report has been developed following guidance from the San Francisco District of the U.S. Army Corps of Engineers (Corps) and the U.S. Environmental Protection Agency (EPA) (EPA and Corps, 2008) pertaining to wetland delineations. The results of the delineation are based on field observations made in April and June 2017, and are subject to final review and approval by the Corps. As needed, this report may be used in acquiring regulatory permits and/or project approvals.

## 1.1 Overview of Site Characteristics

#### 1.1.1 Current and Historical Land Uses

The project site is undeveloped and used as a grazing pasture for a herd of goats. The site is immediately bordered by two public roads — El Camino Real and Viejo Camino, as well as an empty lot on the northwest, and a single-family residence on the southeast. The surrounding landscape consists of residential and commercial developments at variable densities (see Figure 2). The topography, soils, and vegetation of the proposed project site and surrounding areas have been altered considerably through past land conversion, construction of adjacent residential areas, and other anthropogenic alterations (e.g., goat grazing, culverts/stormwater



infrastructure, etc.). A review of historical aerial imagery indicates the condition of the site has remained relatively unchanged since at least 1994 (Google Earth, 1994-2018).

#### 1.1.2 Geomorphology and Landscape Context

The project site is located in the Salinas USGS Hydrologic Unit and the Santa Margarita Creek-Salinas River watershed, which includes Paloma Creek and associated tributaries (see Appendix A – Figure 3). Elevations within the survey area range from 271 to 280 meters (890 to 920 feet). The project site is situated just west of the Rinconada Fault line in a valley between unnamed ridgelines of the San Luis Ranges (Wiegers and Hart, 2015; USGS, 2018). The geology of the project site consists of young alluvial floodplain deposits, comprised of silty sand and sandy gravel with cobbles deposited along the valley floor (Wiegers and Hart, 2015). Hydrologic resources on the property are limited to a single, ephemeral drainage that conveys surface runoff and storm flows from adjacent areas.

#### 1.1.3 Regional Climate

The regional climate is Mediterranean, with mild, rainy winters and hot, dry summers. Historical temperature and precipitation data was acquired from the Western Regional Climate Center (WRCC) for Paso Robles (Station No. 046730). According to available data, average annual precipitation for a 122-year (1894 to 2016) period for the project region is 15.21 inches (WRCC, 2018). The average minimum and maximum temperatures calculated for the same time period are 60°F in January and 93°F in July and August (WRCC, 2012).

#### 2.0 REGULATORY CONTEXTS

# 2.1 Rationale for the Determination of the Geographic Extent of Waters of the U.S.

Delineation of the geographic extent of waters of the U.S., including wetlands, within the survey area was consistent with definitions provided in 33 CFR 328.3 (a) (1-8), 328.3 (b, c, and e), as well as routine procedures detailed in the *U.S. Army Corps of Engineers Wetlands Delineation Manual* (1987 Manual) (Corps, 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region, Version 2.0 (2008 Arid West Regional Supplement) (Corps, 2008). As defined in Section 404 of the CWA, the limits of Corps jurisdiction in non-tidal waters extends to the ordinary high water mark (OHWM) and includes all adjacent wetlands. The following definitions are used by the Corps and EPA for the identification of wetlands and, as such, were used for the identification and delineation of wetlands at the project site:



Waters of the U.S. are defined in Section 404 of the CWA as:

"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; including all interstate waters including interstate wetlands, all other waters such as intrastate lakes, rivers, 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."

Further, wetlands are considered waters of the U.S., and are identified as:

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

The Corps uses a three-parameter approach for identifying and delineating jurisdictional wetlands, where a wetland is defined as a feature associated with waters of the U.S., which is characterized by a dominance of hydrophytic vegetation, hydric soils, and wetland hydrology.

## 2.2 Consistency with SWANCC & Rapanos Guidance

Following U.S. Supreme Court rulings in two prominent court cases addressing the extent of federal jurisdiction (i.e., Solid Waste Agency of Northern Cook County [SWANCC] v. Corps et al. [531 U.S. 159, 2001]; and Rapanos et ux., et al. v. United States [547 U.S. 715, 2006]) led to the development of federal guidance that requires careful examination and documentation of the physical location(s) of and hydrologic connections among waters and wetlands. To determine federal jurisdiction, emphasis is given to surface hydrologic connections between a wetland and "navigable waters" or "adjacency" of a wetland to traditionally navigable waters, and, thus, a "significant nexus" to interstate commerce. In addition, waters and wetland features can be determined to be under federal jurisdiction by the Corps or EPA if a significant nexus can be shown between the wetland feature in question and its contribution to the maintenance or restoration of the physical, chemical, or biological integrity of downstream waters that are traditionally navigable. Federal guidance for field delineation procedures that address the Rapanos decision has been offered by the EPA and the Corps in a joint memorandum issued on June 5, 2007 (EPA and Corps, 2008).



#### 3.0 FIELD DELINEATION METHODS

### 3.1 Overview of Methodology

Prior to conducting field surveys, a desktop review was completed, which included a review of current and historical aerial imagery (Google Earth, 1994 - 2018), an online Soil Survey for the County of San Luis Obispo (U.S. Dept. of Ag., 2018), USGS topographic maps (USGS, 2018), regional weather data (WRCC, 2012), the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) (USFWS, 2018), and preliminary site development plans.

Terra Verde botanists Kristen Nelson and Amy Golub completed a formal wetland delineation on May 17, 2018 along the vegetated channel bottom and lower floodplain terrace associated with the drainage on site. Delineation methods followed routine procedures detailed in the 1987 Manual (Corps, 1987) and the 2008 Arid West Regional Supplement (Corps, 2008). In addition, wetlands were classified based on hydrogeomorphic classes (e.g., riverine, slope, etc.) described by Brinson (1993) and Brinson et al. (1995).

Field delineation of wetlands included an assessment of the hydrology, soil characteristics, and vegetation at three sampling points (i.e., SP-01, SP-02, and SP-03). Data was recorded using the Wetland Determination Data Form provided in the *2008 Arid West Regional Supplement* (Corps, 2008). At each sampling point, a soil test pit was excavated to a depth of at least 12 inches, vegetation was characterized within a 5-foot radius of the excavated soil test pit, and indicators of wetland hydrology were documented (see Appendix B – Wetland Determination Data Forms). Sampling was conducted in areas that displayed apparent indicators of wetland hydrology and vegetation.

The assessment of non-wetland waters included identifying the presence of field indicators for OHWM within the subject drainage. This assessment followed guidelines provided in *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States (OHWM Manual)* (Lichvar and McColley, 2008). In addition, all waters and wetlands were assessed for hydrologic connectivity and/or adjacency to traditionally navigable waters and their tributaries. Connectivity was confirmed by determining that the unnamed drainage on site is hydrologically connected to Paloma Creek and the traditionally navigable waters of the Pacific Ocean via the Salinas River (see Appendix A – Figure 3). The limits of waters and wetlands of the U.S. were pin-flagged in the field and then recorded using a Trimble Global Positioning System (GPS) unit.



#### 3.1.1 Delineation of Wetlands

#### **Evidence of Wetland Hydrology**

Consistent with the 1987 Manual (Corps, 1987), the 2008 Arid West Regional Supplement (Corps, 2008), and current regulatory guidance (Corps, 1992), wetland hydrology can be identified by evaluating a variety of direct and indirect indicators, including stream gauge or well data, flood predictions (i.e., FEMA maps), historic records pertaining to the study area, and visual observation of field indicators for the identification of jurisdictional waters and wetlands. Field indicators may include inundation and/or saturation, sediment deposition, drainage patterns, hydric soil characteristics, watermarks, drift lines, presence of oxidized pores associated with living roots and rhizomes (i.e., rhizospheres), and water-stained leaves (Corps, 1987).

Wetland hydrology is present at a location if field observations indicate the area has a high probability of being periodically inundated or saturated to the soil surface for a sufficient duration during the growing season to develop anaerobic conditions in the surface soil environment (i.e., root zone) (Corps, 1987). According to guidance provided in the 2008 Arid West Regional Supplement, if at least one primary indicator or at least two secondary indicators of hydrology are present at a sample point, the wetland hydrology criterion is met (Corps, 2008). Observations of wetland hydrology were recorded at each sample point to document evidence of inundation or soil saturation.

Several types of evidence were examined to determine whether wetland hydrology previously existed or currently exists. In addition, the type and frequency of site manipulation and anthropogenic disturbances were considered for their potential to impact or alter current and historical site hydrology.

#### **Identification of Hydric Soils**

The presence of hydric soils was assessed based on the criteria outlined in the *1987 Manual* (Corps, 1987) and the *2008 Arid West Regional Supplement* (Corps, 2008). Hydric soils are defined as soils "that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part" (U.S. Dept. of Ag., 1994). Determination of whether or not a soil is hydric is based on the fulfillment of at least one of four technical criteria (U.S. Dept. of Ag., 2002), which can be satisfied using a combination of published soils information and field indicators. Field indicators for determining whether a soil satisfies the hydric soil definition and the technical criteria for hydric soils are listed in *Field Indicators of Hydric Soils in the United States* (U.S. Dept. of Ag., 2006).

Following the guidance provided in the above-referenced documents, the presence of hydric soils within the survey area was determined using a combination of direct field observations and a



review of available online resources, including the Soil Survey of San Luis Obispo County, Web Soil Survey (U.S. Dept. of Ag., 2018) and the USFWS NWI (USFWS, 2018). In the field, soil test pits were excavated at each of three sampling points to examine the upper 12 inches of the soil profile for hydric soil indicators. Specifically, a Munsell Soil Color Book (2000) was used to classify the colors of matrix soils and redoximorphic (redox) concentrations within the matrix. The 2017 Pocket Guide to Hydric Soil Indicators (Wetland Training Institute [WTI], 2017) was used to determine the texture of soils, and to assess the location, type, and extent of matrix soil colors and redox concentrations, to determine whether they qualified as hydric soils.

According to the NRCS online soil survey of San Luis Obispo County, three soil units occur within the survey area (U.S. Dept. of Ag., 2018). These include: Unit 193 (San Andreas-Arujo complex, 9 to 15 percent slopes), Unit 198 (Santa Lucia-Lopez complex, 15 to 50 percent slopes), and Unit 208 (Still clay loam, 0 to 2 percent slopes) (see Figure 4 – Soil Units Map). These soil units are not listed as hydric soils (U.S. Dept. of Ag., 2018). A summary of the dominant characteristics of these soil types is provided below.

#### Soil Unit 193 – San Andreas-Arujo complex, 9 to 15 percent slopes

The parent material of this soil type is residuum weathered from sandstone. The drainage class of this unit is well drained, and it is composed of sandy loam over weathered bedrock. This soil type tends to occur on back slopes and side slopes and is designated as farmland of statewide importance.

#### Soil Unit 198 – Santa Lucia-Lopez complex, 15 to 50 percent slopes

The parent material of this soil type is residuum weathered from shale. The drainage class of this unit is well drained, and it is composed of channery clay loam over weathered bedrock. This soil type tends to occur on back slopes and side slopes.

#### Soil Unit 208 – Still clay loam, 0 to 2 percent slopes

The parent material of this soil is alluvium derived from sedimentary rock. The drainage class of this unit is well drained, and it is composed mostly of clay loam and stratified loam to clay loam. This soil type tends to occur on toe slopes and treads and is considered prime farmland if irrigated.

#### **Dominance of Hydrophytic Vegetation**

On June 1, 2012, the 2012 National Wetland Plant List (NWPL) (Lichvar et al., 2012) replaced the 1988 U.S. Fish and Wildlife Service's National list of plant species that occur in wetlands for use under the CWA, Swamp Buster, and National Wetland Inventory programs. The NWPL and regional supplements have since been revised with updated plant listings. The Arid West 2016 Regional Wetland Plant List (2016 Regional List) (Lichvar et al., 2016) is the most current version



available for use in the Arid West region, including coastal areas of California. The updated 2016 Regional List indicates the relative frequency that a species occurs in wetland habitats and is used to determine whether the hydrophytic vegetation parameter is met when conducting wetland delineations under the CWA.

Species included on the 2016 Regional List are assigned one of the following wetland indicator statuses (Lichvar et al., 2012):

- **Obligate (OBL)**: plants that almost always occur in wetlands.
- Facultative Wetland (FACW): plants that usually occur in wetlands but may occur in non-wetlands.
- Facultative (FAC): plants that are equally likely to occur in wetlands and non-wetlands.
- Facultative Upland (FACU): plants that usually occur in non-wetlands but may occur in wetlands.
- **Upland (UPL)**: plants that almost never occur in wetlands; plants not included on the list are considered UPL.

Dominance of hydrophytic vegetation is determined by identifying all plant species within a 5-foot radius surrounding each soil excavation pit for herbaceous and shrub cover, and a 30-foot radius for tree and woody vine cover; documenting the absolute percent cover of each species within each stratum (i.e., herb, shrub, tree, and woody vine) for the sampling plot; and noting the indicator status for each (i.e., UPL, FACU, FAC, FACW, or OBL). None of the sampling points supported tree, shrub, or woody vine cover. Dominant species were then determined using the 50/20 rule, as recommended in the 2008 Arid West Regional Supplement (Corps, 2008). Based on this method, dominant species are those species that individually or collectively constitute more than 50 percent of the total vegetative cover (i.e., relative cover) within each stratum, in addition to those species that individually constitute 20 percent or more of the relative cover within each vegetation stratum. Species identifications and taxonomic nomenclature followed the second edition of *The Jepson Manual: Vascular Plants of California* (Baldwin et al., 2012), as well as taxonomic updates provided in the Jepson eFlora (Jepson Flora Project, 2018).

According to both the Corps' 1987 Manual (Corps, 1987) and 2008 Arid West Regional Supplement (Corps, 2008), the hydrophytic vegetation parameter for wetlands is met when, under normal circumstances, more than 50 percent of the dominant species across all strata have an indicator status of OBL, FACW, or FAC.

#### Connectivity/Adjacency

As noted above, particular emphasis is given to surface hydrologic connectivity of wetlands to traditionally navigable waters, including adjacency of wetlands to jurisdictional waters.



Connectivity of wetlands was established via field work, a review of aerial imagery, and an assessment of site-specific topography.

#### **3.1.2** Delineation of Non-wetland Waters

Within the project site, the unnamed drainage exhibits a narrow, gently-sloped channel that meanders across an open grassy field. Despite grazing impacts, the banks and channel bottom are vegetated with herbaceous species, with a clear change in the composition and cover from the channel bottom to the bank and adjacent low terrace. As such, these areas were assessed for evidence of an OHWM to determine the presence of waters of the U.S. The *OHWM Manual* (Lichvar and McColley, 2008) provides guidance on identifying field indicators of OHWM, including protocols for characterizing the overall system. Data was recorded using the *Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (OHWM Data Sheet) (Curtis and Lichvar, 2010). Completed data sheets are provided in Appendix C (Arid West Intermittent and Ephemeral Streams OHWM Datasheets).

#### **Cross-sectional Analysis**

Cross sectional analyses were conducted at three locations along each drainage feature where there was a clear change in the limits of either the OHWM or the top of bank. The physical and biological characteristics present at each cross section were documented on OHWM Data Sheets, including a sketch of the site topography at each cross section. Specifically, the floodplain units were described for each cross section through the vegetation cover, sediment texture, and hydrology indicators at that location. The limits of OHWM were determined based on the presence of hydrology indicators such as debris wracking, shelving, water marks, and change in sediment texture/substrate.

#### **Connectivity/Adjacency**

Connectivity to adjacent traditional navigable waters was assessed via field investigations, a review of aerial photography, and information obtained regarding storm water and other underground water collection systems.

#### 4.0 RESULTS

#### 4.1 Wetlands Determination

Terra Verde completed a wetland delineation in May 2018 and determined that no federal wetlands are present within the project site. The results of the delineation and sampling point data was documented on Wetland Determination Data Forms (Appendix B) and is detailed below.



#### 4.1.1 Hydrology

Field observations of wetland hydrology were limited to secondary indicators, including: riverine drift deposits (B3), drainage patterns (B10), and saturation visible on aerial imagery (C9). In addition, the FAC-Neutral Test (D5) was documented as a secondary indicator at SP-02. Wetland hydrology was determined to be present at all three sampling points (see Figure 5: Waters and Wetlands Delineation Map).

#### 4.1.2 Soils

Soil test pits were excavated at each sampling point to classify the color and texture of the soil horizons down to at least 12 inches. Soil textures consisted of clay loam with a significant component of organic matter at all three sampling points. No hydric soils were identified on site. A soil color of 10YR 2/1 was documented at all three sampling points, with no redox features present (see Appendix D – Representative Site Photographs, Photo 1).

#### 4.1.3 Vegetation

Greater than 50 percent relative cover of hydrophytic vegetation was documented at all three sampling points, which was dominated by common lippia (*Phyla nodiflora*; FACW), Mediterranean barley (*Hordeum marinum* subsp. *gussoneanum*; FAC), and beardless wild rye (*Elymus triticoides*; FAC). Vegetation on the banks of the drainage and adjacent areas transitions to a composition of non-wetland species dominated by wall barley (*Hordeum murinum*), heart-podded hoary cress (*Lepidium draba*), and occasional dense patches of yellow star-thistle (*Centaurea solstitialis*), as well as other grazed grasses.

#### 4.2 Non-Wetland Waters Determination

The unnamed drainage is likely considered non-wetland waters of the U.S. based on the presence of a clearly-defined OHWM, indicated by a distinct transition in vegetative cover and composition between the channel bottom and gently-sloped bank, and connectivity to traditionally navigable waters. Based on a review of aerial imagery, this drainage appears to originate somewhere in the foothills of the San Luis Range Mountains west of Atascadero. It flows through areas of rural residential, agricultural, and commercial developments, and has been substantially modified in the areas upstream of the project site. It enters the project site through a partially impeded culvert under El Camino Real, and exits the site through another partially blocked culvert under Viejo Camino. Due to the historical alterations of natural flow patterns in the surrounding landscape, the project site is occasionally subject to temporary inundation and ponding following significant precipitation events. However, the drainage system is generally ephemeral and a lack



of hydric soils indicates that the site is well drained, likely only ponding for brief periods following significant rain events.

#### 5.0 SUMMARY OF JURISDICTIONAL FINDINGS

The jurisdictional waters identified on the project site fall under the regulatory jurisdiction of the Corps. A summary of the type and extent of jurisdictional waters and wetlands is presented in Table 1 - Extent and Location of Jurisdictional Waters and Wetlands.

Table 1. Extent and Location of Jurisdictional Waters and Wetlands

Feature Type	Location	Acres	Length (feet)
Waters of the U.S.	Ephemeral drainage	0.08	581
Federal Wetlands	None	N/A	N/A

Table 2 (Summary of Sampling Point Data for Wetland Delineation), provides a summary of the data collected at each of the three sampling points during the wetland delineation.

**Table 2. Summary of Sampling Point Data for Wetland Delineation** 

Sample Point	Wetland Vegetation	Hydric Soils	Wetland Hydrology	Connectivity/ Adjacency	Federal Wetland
SP-01	Yes	No	Yes	Yes	No
SP-02	Yes	No	Yes	Yes	No
SP-03	Yes	No	Yes	Yes	No

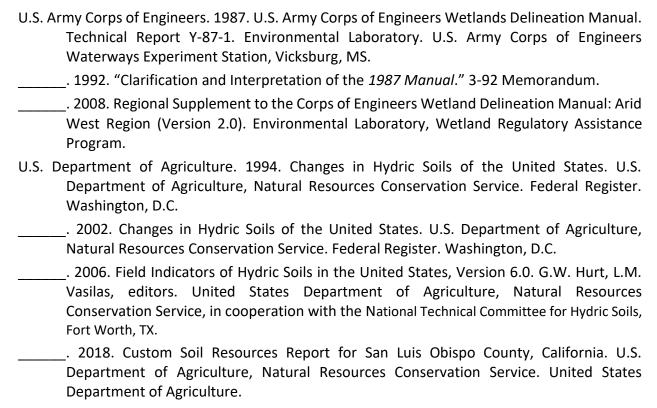
The geographic extent of waters of the U.S. totals approximately 581 linear feet and 0.08 acre within the project site, but no federal wetlands are present. Section 404 of the CWA requires authorization from the Corps for the discharge of dredged or fill material into all waters of the U.S., including adjacent wetlands. The findings of this federal waters and wetlands delineation is subject to review and final concurrence by the Corps.



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  ftp://ftp.consrv.ca.gov/pub/dmg/rgmp/Prelim geo pdf/SantaMargarita 24k v1.0.pdf.



# **APPENDIX A: Report Figures**

Figure 1: Site Vicinity and Topographic Map

Figure 2: Project Site and Survey Area Map

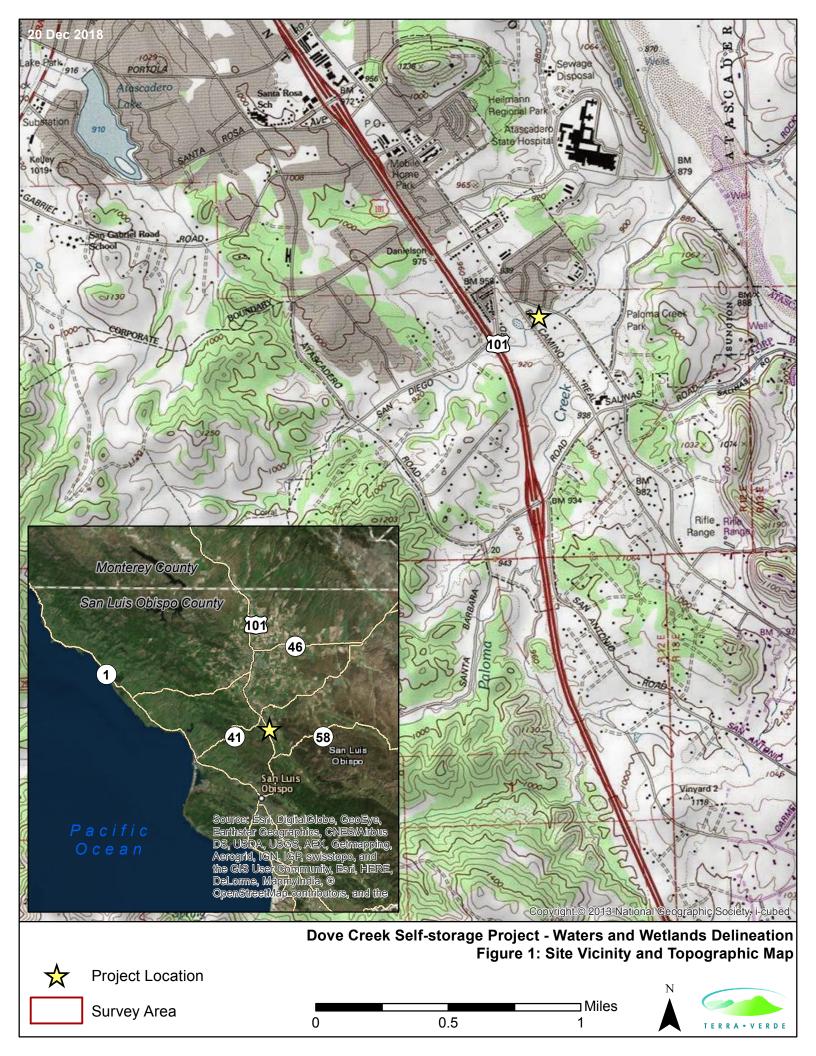
Figure 3: Hydrologic Connectivity Map

Figure 4: Soil Units Map

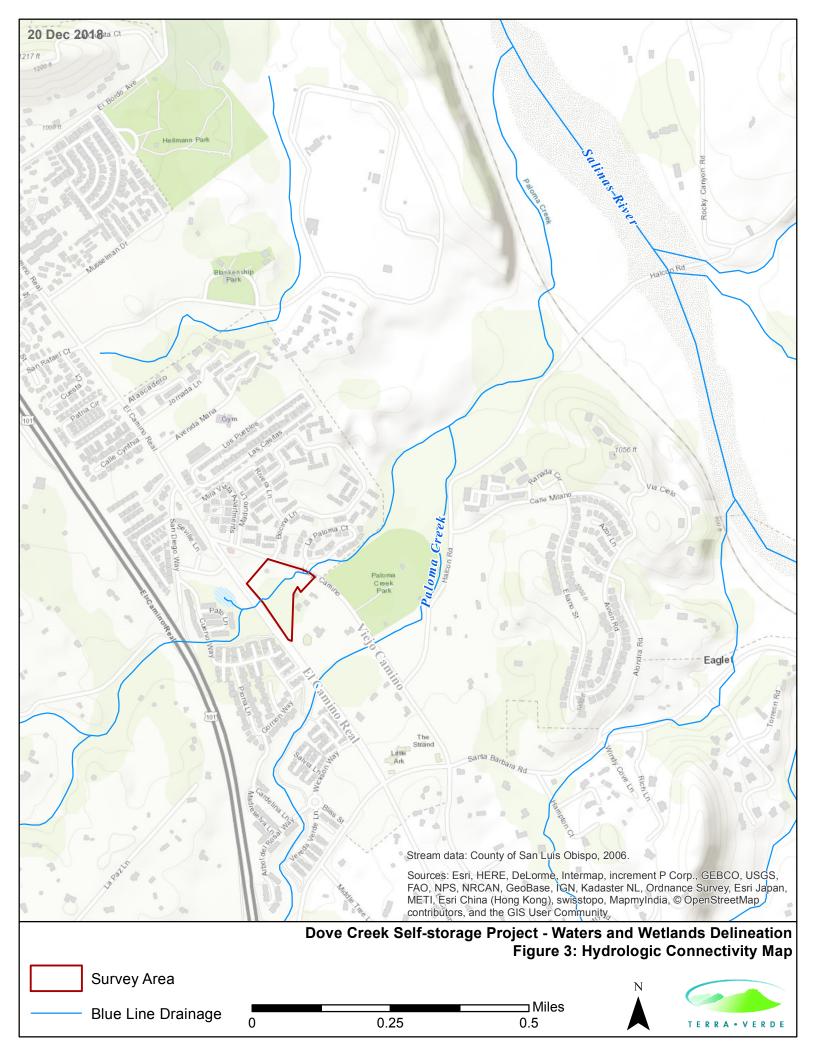
Figure 5: Waters and Wetlands Delineation Map

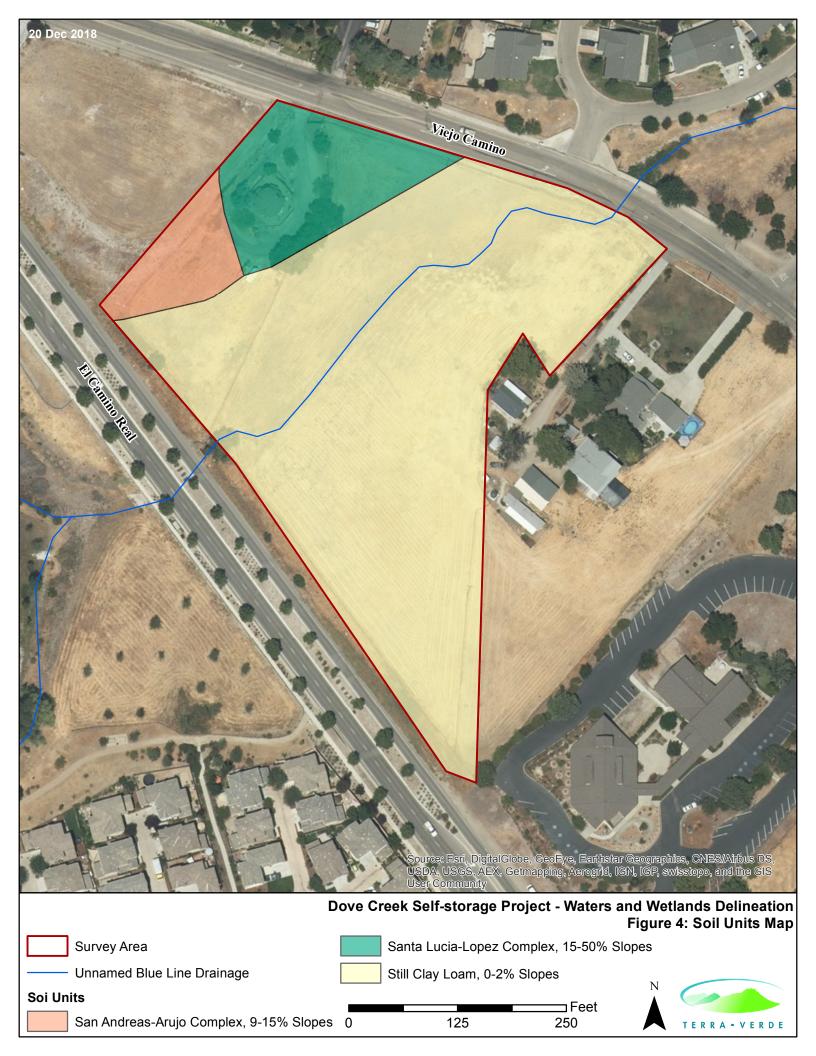


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# **APPENDIX B: Wetland Determination Data Forms**



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### WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: DOVY CREEK SELF STORAGE	E Cit	y/County: ATASCI	NDEKO, SLO	Sampling Date: 05 17 18	
Applicant/Owner: Scott Newton State: CA Sampling Point: OI  Investigator(s): ENELSON, A. GOLUB, B. D. Section, Township, Range: CA T295 R1ZE					
Investigator(s): KNELSON, A. GOLUS,	B.D.G.Se	ction, Township, Ran	nge: CA T29S	RIZE	
Landform (hillslope, terrace, etc.):	Lo	cal relief (concave, c	convex, none): CONCA	Slope (%); 0-2	
				Datum: NAD83	
Soil Map Unit Name: Still clay loam			NWI classifica		
Are climatic / hydrologic conditions on the site typical for thi	s time of year?	Yes √ No	(If no, explain in Re	marks.)	
Are Vegetation, Soil, or Hydrologys				esent? Yes V No	
Are Vegetation, Soil, or Hydrology r			eded, explain any answers		
SUMMARY OF FINDINGS – Attach site map	showing sa			•	
Hydrophytic Vegetation Present? Yes N	lo		•		
Hydric Soil Present? Yes N		Is the Sampled		N = 1	
	lo	within a Wetland	a? Yes	No	
Remarks: Undeveloped lot bordered by residentia grassland, currently & historicall crosses property, which occusionally ov	I developm	nents a pub	lie roads. Site is Ephemeral b	an open, weedy	
\$		floods port	Tons of the hel	d tollowing storms.	
VEGETATION – Use scientific names of plan					
Tree Stratum (Plot size: N/A)		ominant Indicator pecies? Status	Dominance Test worksl Number of Dominant Spe	2000000	
1			That Are OBL, FACW, or		
2,			Total Number of Dominar	nt	
3			Species Across All Strata	a: (B)	
4	 	Total Cover	Percent of Dominant Spe		
Sapling/Shrub Stratum (Plot size: N/A)		. 0.0	That Are OBL, FACW, or		
1			Prevalence Index works		
2			Total % Cover of:		
3				x 1 = 0 x 2 = 84	
4			FACW species 44 FAC species 39	$x = \frac{x}{1}$	
3		Fotal Cover		x = 12	
Herb Stratum (Plot size: 4.5 × 20')		,	UPL species 33	x = 165	
1. PHILA MODIFLORA	42	FACW	Column Totals: 117	(A) 378 (B)	
2. HORDEUM MARINUM	30	FAC		~ *	
3. CENTHURFA SOLSTITULIS	25	V UPL	Prevalence Index =		
4. FESTULA PERENNIS	8	FAC	Hydrophytic Vegetation		
5. HIKSCHFELDIA INCANA	5	UPL	✓ Dominance Test is >	2	
6. ANTHEMIS COTULA	1	FACU	Prevalence Index is s		
7. LOTUS CORNICULATUS		FAC		ations <sup>1</sup> (Provide supporting or on a separate sheet)	
9. BERANIUM MOLLE I UPL	117	UPL		nytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size:)	=	Total Cover		,	
"THORDEUM MURINUM		FACU	<sup>1</sup> Indicators of hydric soil a	and wetland hydrology must	
"Z. BRASSICH NIGRA	1	UPL	be present, unless disturb	ped or problematic.	
*	=1	otal Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum % Cover	of Biotic Crust	. Ø	Present? Yes	No	
Remarks:	-				
AREA GRAZED REGULARUT	164 60	ATS; NOTAE	BLE TRANSITI	LON IN SPECIES	
FROM DRAINAGE BOTTOM TO	ADJA	CENT, SLIE	HILY FLEV	ATED UPLAND	
TRANSITIONAL MIX OF WETLAN	ND & N	JON - WETL	AND SPP. IN	CHANNEL.	

S	n	ı	
J	$\mathbf{\circ}$	ı	_

Sampling Point: \_\_\_\_\_\_

Depth Matrix (inches) Color (moist) %	Redox Features	
THISTOCK TO THE TANK	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Remarks
0-12" IOVR 21 100		CLLO HIGH OM
		,
		Mr.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sand (	Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histosof (A1) Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
	Depleted Matrix (F3)	Other (Explain in Remarks)
Stratified Layers (A5) (LRR C)		Other (Explain in Nemarks)
1 cm Muck (A9) (LRR D)	<ul><li>Redox Dark Surface (F6)</li><li>Depleted Dark Surface (F7)</li></ul>	*
Depleted Below Dark Surface (A11)		<sup>3</sup> Indicators of hydrophytic vegetation and
Thick Dark Surface (A12)	Redox Depressions (F8)	wetland hydrology must be present,
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive Layer (if present):		
Type:	<u></u>	
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
HIGH CONC OF O.A		LICETUS ISMALL - MED
SITE WELL-DRAI	NED, DOES NOT SUPPORT	SERVED IN UPLE 12-14"
HADBOLOGA		
IIIDROLOGI		
Wetland Hydrology Indicators:		£ 8 .
	d; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)		
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required  Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required  Surface Water (A1)  High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	<ul> <li>Water Marks (B1) (Riverine)</li> <li>Sediment Deposits (B2) (Riverine)</li> <li>Drift Deposits (B3) (Riverine)</li> <li>Drainage Patterns (B10)</li> </ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Living Ro</li> </ul>	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	<ul> <li>Salt Crust (B11)</li> <li>Biotic Crust (B12)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres along Living Roman Presence of Reduced Iron (C4)</li> </ul>	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1) (Nonriverine)  Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Re Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Cartesian Country Iron Reduction in Tilled Soils (Cartesian Country Iron Reduction Iron Cartesian Country Iron Reduction Iron Cartesian Carte	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C3) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Re Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (Cartesian Country Iron Reduction in Tilled Soils (Cartesian Country Iron Reduction Iron Cartesian Country Iron Reduction Iron Cartesian Carte	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
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Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Remarks:	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roman Secretary (C4) Recent Iron Reduction in Tilled Soils (C7) Thin Muck Surface (C7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches): We onitoring well, aerial photos, previous inspections	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) oots (C3) Crayfish Burrows (C3) C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)  etland Hydrology Present? Yes No et] s), if available:
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

WETLAND DETERMINATION DATA FORM – Arid West Region

Applicantionnes Cott Newton V Colons A Colons & Description, Range CA Sampling Point O Z Investigator(s): Linestigator(s): Li	Project/Site: Dove Creek Self-Storage	City/C	ounty: Atasca	adero SLO Sa	mpling Date: 05 17 /19
Loadlore (Nellacope, terrace, etc.)  Subregion (LRR): LPLL  Subregion (LRR): LPLL  Lat: 35, 453727 Leng: LPLL  Lat: 35, 453727 Leng: LPLL  No Made Unit Name: S1111 Clay   DaW    No Made Unit Name: S1111 Clay   DaW    Are Vegetation   Soil   or Hydrology   significantly disturbed?    Are Vegetation   Soil   or Hydrology   naturally problematic?    (If needed, explain any answers in Remarks.)  No   Is the Sampled Area    Hydrophytic Vegetation Present?   Ves   No    Hydrophytic Vegetation Indicators   No    Hen Stratum (Plot size:   M   M   M   M   M   M   M   M    Hen Stratum (Plot size:   M   M   M   M   M   M   M   M   M	Applicant/Owner: Scott Newton				
Loadlore (Nellacope, terrace, etc.)  Subregion (LRR): LPLL  Subregion (LRR): LPLL  Lat: 35, 453727 Leng: LPLL  Lat: 35, 453727 Leng: LPLL  No Made Unit Name: S1111 Clay   DaW    No Made Unit Name: S1111 Clay   DaW    Are Vegetation   Soil   or Hydrology   significantly disturbed?    Are Vegetation   Soil   or Hydrology   naturally problematic?    (If needed, explain any answers in Remarks.)  No   Is the Sampled Area    Hydrophytic Vegetation Present?   Ves   No    Hydrophytic Vegetation Indicators   No    Hen Stratum (Plot size:   M   M   M   M   M   M   M   M    Hen Stratum (Plot size:   M   M   M   M   M   M   M   M   M	Investigator(s): K. Nelson, A. Golub, B.				
Subregion (LRR: LPL Lat: 35, 453727 Long: 20, 637320 Datum: JADOS Soll Map Unit Name: STILL Clay Daw Lat: 35, 453727 Long: SAN William Lat: 35					Ve Slope (%): 0-2
Soil Map Unit Name: Still Clay Daw Are climatic: hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks)  Are Commitic: hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks)  Are Vegetation Soil or Hydrology significantly disturbed?  Are Vegetation Soil or Hydrology naturally 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? Yes No within a Wetland? Yes No per needed, explain any answers in Remarks.  No within a Wetland? Yes No per needed, explain any answers in Remarks.  No within a Wetland? Yes No per needed, explain networks and the state of the sampled Area within a Wetland? Yes No within a Wetland Yes No within a	Subregion (LRR):				
Are climated: hydrologic conditions on the site hydrology significantly disturbed? Are Normal Circumstances present? Yes No No (fine, explain in Remarks.)  Are Vegetation Soil or Hydrology significantly disturbed? Are Normal Circumstances present? Yes No naturally problematic? (fineeded, explain any answers in Remarks.)  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Is the Sampled Area	01:11 610:10:10			_	
Are Vegetation Soil or Hydrology significantly disturbed? Are Normal Circumstances' present? Yes No Are Vegetation Soil or Hydrology naturally 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? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Wetland	Are climatic / hydrologic conditions on the site typical for this	time of year? Y			
Are Vegetation Soil or Hydrology naturally 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? Yes No Is the Sampled Area within a Wetland Hydrology Present? Yes No Wetland Hydrology Indianates And Hydrology Indianates In		•			
Hydrophytic Vegetation Present? Yes No within a Wetland? Yes No per new research of both control of the field of th	Are Vegetation, Soil, or Hydrology na	aturally problema			
Hydroc Soil Present?   Yes   No     within a Wotland?   Yes   No       within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No   within a W	SUMMARY OF FINDINGS – Attach site map s	showing sam	pling point lo	ocations, transects, in	nportant features, etc.
Hydroc Soil Present?   Yes   No     within a Wotland?   Yes   No       within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No     within a Wotland?   Yes   No   within a W	Hydrophytic Vegetation Present? Yes ✓ No	)			1 72 4
Very	Hydric Soil Present? Yes No	-			N= /
Underwilloped lod bondered by restricted developments of public road way. Site is an open, world field, currently a historically 3192ed by 324ts. Sphemaral blue line open, world field, currently a historically 3192ed by 324ts. Sphemaral blue line open, world field, currently a historically 3192ed by 324ts. Sphemaral blue line open, world field.  VEGETATION - Use scientific names of plants.  Tree Stratum (Plot size: N/A)  Absolute Dominant Indicator % Cover Species? Stalus  1.	Wetland Hydrology Present? Yes No	,	within a wetian	a? Yes	No/_
Absolute % Cover Species? Slatus    Cover Species   Cover Spec	Undeveloped lot bordered by reside	ential de itorically oceasion	ally overto	ps 4 flocas port	luays. Site is an eval blue line ions of the field
Tree Stratum (Plot size:	VEGETATION – Use scientific names of plant	s. fo	Howling !	Sterms.	
Total Number of Dominant Species Across All Strata:    Sapling/Shrub Stratum (Plot size:	Tree Stratum (Plot size: NA)			Number of Dominant Specie	es
Species Across All Strata: (B)  4.	2				10 (A)
That Are OBL, FACW, or FAC:   100 (A/B)	3				2 (B)
That Are OBL, FACW, or FAC:   100 (A/B)	4	Marie Control of the		Percent of Dominant Specie	25
Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species 0 x1 = 0  FACW species 75 x2 = 150  FAC species 19 x3 = 147  FACU species 9 x4 = 34  UPL species 9 x4 = 34  UPL species 21 x5 = 105  Column Totals: 154 (A) 436 (B)  Prevalence Index as 3.0 1  Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation  Indicators of hydric soil and wetland hydrology must be present, unless districted or problematic.  We Bare Ground in Herb Stratum 8 % Cover of Biotic Crust 8 Prevalence Remarks:  When the prevalence Index is 3.0 1  Problematic Hydrophytic Vegetation (Explain)  Woody Vine Stratum (Plot size: 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sapling/Shrub Stratum (Plot size: NA )	= Tota	al Cover		
OBL species O x1 = O  FACW species 75 x2 = 150  FAC species 19 x3 = 147  FACU species 9 x4 = 36  UPL species 9 x4 = 36  UPL species 9 x4 = 36  UPL species 15 x = 105  Column Totals: 154 (A) 436 (B)  Prevalence Index = B/A = 2.64  Hydrophytic Vegetation Indicators:  Dominance Test is >50%  Prevalence Index is \$3.0'  Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)  The column of the size: 154 (A) 436 (B)  Prevalence Index = B/A = 2.64  Hydrophytic Vegetation Indicators:  Dominance Test is >50%  Prevalence Index is \$3.0'  Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation' (Explain)  "Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  "Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  "Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  "Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  "Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  "Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  "Indicators of hydric soil and wetland hydrology must be present?  "Indicators of hydric soil and wetland hydrology must be present?  No  No  Remarks:	1	1		Prevalence Index worksho	eet:
FACW species 75 x 2 = 150  FAC species 75 x 2 = 150  FAC species 9 x 4 = 36  UPL species 10 x 5 = 105  UPL species 10 x 5 = 10	2			Total % Cover of:	Multiply by:
FAC species 49 x3 = 147  Herb Stratum (Plot size: 6 x 15)  1. PHYLA MODIFICIAN 75 V FACW 2. ELYMUS TRITICOIDES 28 V FAC 3. HORDEUM MARITUM 20 FAC Hydrophytic Vegetation Indicators: 5 HORDEUM MUKINUM 8 FACU Prevalence Index = B/A = 2.64  Hydrophytic Vegetation Indicators: V Dominance Test is >50%  Prevalence Index is \$3.0¹  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation (Explain)  Woody Vine Stratum (Plot size: 154 = Total Cover  % Bare Ground in Herb Stratum 8 % Cover of Biotic Crust 8 Prevalence Index is \$3.0¹  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation Present? Y No  Remarks:  AVA A LAFE LEAVAGE REWARD AVAILAGE REWARD	·3			OBL species	
Herb Stratum (Plot size: 0 x   5 )	4.				_ x2= \60
Herb Stratum (Plot size: 6 X )  1. PHYLA MODIFICIAN 2. ELYMUS TRITICOIDES 3. HORDEUM MARINUM 20 FAC 4. CENTALIZA SOLSTITALIS 12 UPL 4. CENTALIZA SOLSTITALIS 12 UPL 5. HORDEUM MARINUM 3. FOR THE SCHIEF LOTA INCAMA 4. CENTALIZA SOLSTITALIS 12 UPL 15 HORDEUM MARINUM 3. FOR THE SCHIEF LOTA INCAMA 4. CENTALIZA SOLSTITALIS 14 Hydrophytic Vegetation Indicators:  15 HORDEUM MARINUM 3. FOR THE SCHIEF LOTA INCAMA 4. CENTALIZA SOLSTITALIS 12 UPL 15 Hydrophytic Vegetation Indicators:  16 Hydrophytic Vegetation (Provide supporting data in Remarks or on a separate sheet)  16 Hydrophytic Vegetation (Explain)  17 HIRSCHIEF LOTA INCAMA 18 HYDROPHYTIC VEGETATION (Provide supporting data in Remarks or on a separate sheet)  18 Hydrophytic Vegetation (Explain)  19 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  10 Hydrophytic Vegetation  11 Hydrophytic Vegetation  12 Hydrophytic Vegetation  13 Hydrophytic Vegetation  14 Hydrophytic Vegetation  15 Hydrophytic Vegetation  16 Hydrophytic Vegetation  17 Hydrophytic Vegetation  18 Hydrophytic Vegetation  19 Hydrophytic Vegetation  10 Hydrophytic Vegetation  10 Hydrophytic Vegetation  11 Hydrophytic Vegetation  12 Hydrophytic Vegetation  13 Hydrophytic Vegetation  14 Hydrophytic Vegetation  15 Hydrophytic Vegetation  16 Hydrophytic Vegetation  17 Hydrophytic Vegetation  18 Hydrophytic Vegetation  18 Hydrophytic Vegetation  19 Hydrophytic Vegetation  19 Hydrophytic Vegetation  10 Hydrophytic Vegetation  10 Hydrophytic Vegetation  10 Hydrophytic Vegetation  10 Hydrophytic Vegetation  11 Hydrophytic Vegetation  12 Hydrophytic Vegetation  13 Hydrophytic Vegetation  14 Hydrophytic Vegetation  15 Hydrophytic Vegetation  16 Hydrophytic Vegetation  17 Hydrophytic Vegetation  18 Hydrophytic Vegetation  18 Hydrophytic Vegetation  19 Hydrophytic Vegetation  19 Hydrophytic Vegetation  10 Hydrophytic Vegetation  11 Hydrophytic Vegetation  14 Hy	5			FAC species	
1. PHYLA MODIFICIAN 3. FACY 2. ELYMUS TRITICOIDES 28 V FAC 3. HORDEUM MARIMUM 20 FACY 4. CENTRALICA SOLSTITIALIS 12 UPL 5. HORDEUM MUKIMUM 8 FACY 6. LEPIDIUM DRABA 7 UPL 8. ANTHE MIS COTUAN 2 UPL 1. COTUAN SITEMATICAL 3 UPL 2. COTUAN SITEMATICAL 3 UPL 2. COTUAN SITEMATICAL 3 UPL 3.	Herb Stratum (Plot size: 10 X 15	= Tota	al Cover	FACO species	h etti
28 V FAC 3. HORDEUM MARINUM 20 FAC 4. CENTRALICUA SOLSTITIALIS 12 UPL 5. HORDEUM MUKINUM B FACU 6. LEPIDIUM DRABA 7 UPL 7. HIRSCHIELDIA INCANA 2 MPL 8. ANTHE MIS COTULA 1 TACU 1 Moody Vine Stratum (Plot size: 154 = Total Cover Woody Vine Stratum (Plot size: 154 = Total Cover Wydrophytic Vegetation Present; No  Remarks:  AND GROWN AR PROVIDED A PROVIDED AND PROVIDED AND PROVIDED AND PRESENT; No  Prevalence Index = B/A = 2.64  Hydrophytic Vegetation Indicators: Description of Mydrophytic Vegetation (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation (Explain)  Indicators of hydrophytic Vegetation Present; No  Remarks:  AND ALATER LEAVEN WARRE DELEVATION CHANGE DEL		75 /	FACTU.	1011	1190
4. CENTACION SOLSTITALIS  5. HORDEUM MURIPUM  6. LEPIDIUM DRABA  7. HIRSCHIF LDIA INCANA  8. ANTHE MIS COTULA  1. LOTUS (ORNICULATUS IFM 154 = Total Cover Woody Vine Stratum (Plot size: No. 2)  1 = Total Cover Wydrophytic Vegetation   Woody Vine Stratum	2. ELYMUS TRITICOIDES	28 V	FAC	Column Totals:	_ (A)
5. HORDEUM MURIPUM 6. LEPIDIUM DARBA 7. HIRSCHIFFLDIA INCAMA 2 UPL 8. ANTHE MIS COTULA 1 TAX 15H = Total Cover  Woody Vine Stratum (Plot size: 15H = Total Cover   1	3. HORDEUM MARINUM	20	FAC	Prevalence Index = B	VA = 2.84
6. LEPIDIUM DRABA 7. HIRSCH FLDIA INCANA 2 UPL 8. ANTHE MIS COUNTRY SIFE ISU = Total Cover  Woody Vine Stratum (Plot size: 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  1 = Total Cover  We Bare Ground in Herb Stratum  % Cover of Biotic Crust  Present?  Remarks:  AVA AIA Fed Leaward Way agant S. Slight elevation Change between disturbed or problematics.	4. CENTALIZEA SOLSTITIALIS	12	UPL	Hydrophytic Vegetation Ir	idicators:
7. HIPSCH FLDIA INCATA 2 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  8. ANTHE WIS COTULA		8		./	
8. ANTHE MISCOLLAR GROWN AND STRATUM (Plot size:   Lotal Cover	6. LEPIDIUM DRABA	<u> </u>	The same and the s		
Problematic Hydrophytic Vegetation (Explain)  Woody Vine Stratum (Plot size:  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation  Present?  No  Remarks:  Aven all Area regulation by go at 5. Stight elevation Change between divagages.	7 MILICHTELDIA INCANA	6		Morphological Adaptati	ons' (Provide supporting on a separate sheet)
Woody Vine Stratum (Plot size:  1 = Total Cover    Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.    Hydrophytic Vegetation Present?   No	8. MINITE VIII TOLLLA	1511 -			
1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  2 = Total Cover  We Bare Ground in Herb Stratum  % Cover of Biotic Crust		= Tota	al Cover		
## Total Cover   Hydrophytic Vegetation   Present?   No   No   Remarks:  AVEN A 1/17 Ed regularly by goats. Slight elevation Change between drainings.	1				
% Bare Ground in Herb Stratum Ø % Cover of Biotic Crust Ø Vegetation Present? Ve No	2			be present, unlest disturbed	or problematic.
Remarks: Aven allazed regularly by gosts. Slight elevation change between draining	% Bare Ground in Herb Stratum		al Cover	Vegetation	No
Area ginzed regularly by goats. Slight elevation change between drainage bottom and adjacent upland is marked by transition in vegetation. Channel bottom supports transitional mix of wetland a non-wetland spec				4. 400	
	Area ginzed regularly by gost bottom and adjacent spland Channel bottom supports to	s. Slight is mark ansitione	elevation ed by t	change between sitted in a	reen dvainage leg etation. on- wetland spp.

Sampling Point: 02

Profile Description:	(Describe to the	he depth n				or confirm	n the absence	of indicators.)	
Depth	Matrix or (moist)	%		x Features %	Type <sup>1</sup>	Loc2	Texture	Remarks	
$\frac{\text{(inches)}}{8-12!}$ $\frac{\text{Colo}}{12}$	1	00%	COOL (MOISE)		Type	LUC	CLLO	HIGH O.M.	
6-12 101	12 2/1	00/-					1110	Thomas .	
-			and wife a						
			enima.						
	And the second s			-	No. of the last of				
	-						- 2		
<sup>1</sup> Type: C=Concentra						d Sand Gr	rains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicate	ors: (Applicable	to all LRI			ed.)			for Problematic Hydric Soils <sup>3</sup> :	
Histosol (A1)			Sandy Red					fluck (A9) (LRR C)	1
Histic Epipedon			Stripped Ma		L/E1)			luck (A10) ( <b>LRR B</b> ) ed Vertic (F18)	
Black Histic (A3) Hydrogen Sulfid			Loamy Muc					arent Material (TF2)	1
Stratified Layers			Depleted M		(1 2)			(Explain in Remarks)	
1 cm Muck (A9)			Redox Dark		(F6)			•	
Depleted Below		11)	Depleted D	ark Surfac	e (F7)				
Thick Dark Surfa			Redox Dep		F8)			of hydrophytic vegetation and	
Sandy Mucky M			Vernal Poo	s (F9)				hydrology must be present, isturbed or problematic.	=
Sandy Gleyed M							uniess d	isturbed or problematic.	
Restrictive Layer (i	r present).								
Type:							Hydric Soil	Present? Yes No	
Depth (inches): _							Tiyano con	1100011111100110	
Remarks:	131.44.	7				100			
DACK ALI	-UVIAL S	oil v	uith fil	6H (	00-DC.	OF	0,M.	in top 2 +	to the
DEPOSITS	of SM	AU.	MEDIO	ME R	OCKS	100	BLE.SI	LE MELL-DEVIN	CD 4
POES NO	SUPPOR	TH	ADSIC	SOIL	7.		+ - +4		
HYDROLOGY									
Wetland Hydrology	Indicators:		*						
Primary Indicators (r	ninimum of one i	required; cl	neck all that app	y)				ndary Indicators (2 or more require	<u>d)</u>
Surface Water (	A1)		Salt Crust	(B11)				Vater Marks (B1) (Riverine)	
High Water Tab	le (A2)		Biotic Cru	st (B12)				ediment Deposits (B2) (Riverine)	
Saturation (A3)			Aquatic In					rift Deposits (B3) (Riverine)	
Water Marks (B			Hydrogen					rainage Patterns (B10)	1 ,
Sediment Depos			Oxidized					ry-Season Water Table (C2)	14
Drift Deposits (E		*)	Presence					rayfish Burrows (C8) aturation Visible on Aerial Imagery	, (CO)
Surface Soil Cra		(DT)	Recent Iro			d Solls (Co	,	hallow Aquitard (D3)	(05)
Inundation Visib		gery (B7)	Thin Mucl			k.v.		AC-Neutral Test (D5)	Y.a
Water-Stained L			Other (Ex	piain in Re		- '		AC-Neutral Test (D3)	111
Field Observations		No	Depth (ir	ches).					
Surface Water Presen		No				_		1.47 /2.	
Saturation Present?	t: 1es_	No.	Depth (ir	ches):		Wet	land Hydrolog	y Present? Yes No _	
(includes capillary fr	MIGC)								
Describe Recorded	Data (s	uge, monit	oring well, aerial	photos, pi	revious ins	spections),	, if available:		
Remarks:	America And	110-	1110		0-20			0.70 0.70	
FITTEMERA	DKATI	11/65	CHIHNMEI	- IN	2FV70	MILL	7 100	DED FIELD;	4
INVNDATION	J /STATU	IZATI	on ARE	- Ept	TEME	RAL	1 LOTTON	ING SIGNIFICAN	7
WINTER S	TORMS.								Α.
0011									

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: DOVC City/County: Adscorder o 05/17/18 Newton Applicant/Owner: \( \( \begin{array}{c} State: CM Sampling Point: Investigator(s): K. NUSON, A. Golvo Section, Township, Range: CA Landform (hillslope, terrace, etc.): SWA le Local relief (concave, convex, none): LONCAVE Slope (%): 0-2 Subregion (LRR): LRR C Long: -120.637936 Datum: NAT Soil Map Unit Name: Atll Clav NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally 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? No Is the Sampled Area Hydric Soil Present? Yes No V within a Wetland? Wetland Hydrology Present? No Remarks: Undeveloped lot boordered by residential developments & public roads. Site is an open, weedy field, currently & historically grazed by goats. Ephemeral blue line are notices from site which occasionally overteps & floods postrons of the VEGETATION – Use scientific names of plants. Field Followir Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: N % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species 00 = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: **OBL** species **FACW** species FAC species **FACU** species = Total Cover Herb Stratum (Plot size: **UPL** species 1. HORDEUN MARINUN Column Totals: 2. LEPIDIUM DEMOR Prevalence Index = B/A = 3.353. HORDEUM MURINUN 4. MEDICAGO POLYMORPHIA **Hydrophytic Vegetation Indicators:** 5. CONVOLULLUS ARULNISIS √ Dominance Test is >50% 6. BROWNS CATHARTICUS UPL Prevalence Index is ≤3.01 SOLCHMALIS \_\_\_ Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ANTHEMIS FACU Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) \_ = Total Cover Woody Vine Stratum (Plot size: A FESTUCA <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. BROMUS = Total Cover Hydrophytic

Remarks: Area grazed regularly by goals. Slight elevation change between drainage bottom and adjacent upland is marked by transition in vegetation, channel bottom Supports transitional mix of well and a non-well and species

% Cover of Biotic Crust

Vegetation

Present?

% Bare Ground in Herb Stratum

	ý.			
SOIL				Sampling Point:
JOIL				

Profile Description: (Describe to the depth needed to document the indicator of	r confirm the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type <sup>1</sup>	
0-12" LOYE 2/1 100%	Clo High D.M.
·	
- WH	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated	d Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
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)	31 - 11 - 1
Thick Dark Surface (A12)  Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
Sandy Mucky Mineral (S1) Vernal Pools (F9)	unless disturbed or problematic.
Sandy Gleyed Matrix (S4)  Restrictive Layer (if present):	different distances of prosentation
Type:	
	Hydric Soil Present? Yes No
Depth (inches):	Trydric doi:110com:
REMARKS: HIGH CONC. OF O.M. IN TOP 2", P REDOX CONCENTRATIONS. ALLWIAL DEP SITE IS WELL-PRAINED & DOES NOT SUPPOR	ARK, UNIFORM SOIL, WITH NO
DEDOX CONCENTRATIONS ALLVIAL DED	OCITE OF EMALL- WEB BULL
CITE IS WELL - ORAINED & DOES NOT SUPPON	CA HUPRIC SOLLS
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)	Water Marks (B1) (Riverine)
Surface Water (A1) Surface Water (A1) Surface Water (A1)	vvater marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
High Water Table (A2) Biotic Crust (B12)	
Saturation (A3) Aquatic Invertebrates (B13)	Drift Deposits (B3) ( <b>Riverine</b> )  Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along	
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4 Surface Soil Cracks (B6) Recent Iron Reduction in Tilled	(00)
	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:	
	i)
./	. /
Saturation Present? Yes NoV Depth (inches): (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous ins	pections), if available:
* x y	
Remarks:	LICANCE ALL CO
EDHEMERAL DRAINIGE CHANNEL IN EL	HENGRALLY FLOODED FIELD;
EPHEMERAL DRAINAGE CHANNEL IN EPHEMINUNDATION / SATURATION ARE EPHEM	IBRAL, FOLLOWING SIGNIFICANT
WINTER PRECIPITATION.	,



# APPENDIX B: Arid West Intermittent and Ephemeral Streams OHWM Datasheets



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# Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: DOVE WEEK Self-Storage Project Number: DCSS Stream: Unnamed (Blueline) Investigator(s): KNELSON, A. GOLVB	Date: 05 17 18 Time: 1545 Town: Alasadero State: 04 Photo begin file#: Photo end file#:
Y N Do normal circumstances exist on the site?	Location Details:
Y N Is the site significantly disturbed?	Projection: — Datum: NAD93 Coordinates: 35.453727 (-120.637320
Potential anthropogenic influences on the channel system is the second of the second o	EM: # DEVELOPMENT, INLET & OUTLET THE ARE BOTH PARTIALLY BLOCKED BY CCUMULATION, SITE GRAZED BY GOATS.
Brief site description: UNDEVELOPED, OPEN FIT DRAINAGE IS NAKROW, WITH SHALLOW & FLOODS IMMEDIATELY FOLLOWING SIGN	PANKS; MUCH OF THE SITE OCCASIONAL
✓ Vegetation maps       ☐ Results         ✓ Soils maps       ☐ Most re         ☐ Rainfall/precipitation maps       ☐ Gage h	per:
Hydrogeomorphic Fl	loodplain Units
Active Floodplain  Low-Flow Channels	OHWM Paleo Channel
<ol> <li>Procedure for identifying and characterizing the flood of 1. Walk the channel and floodplain within the study area to vegetation present at the site.</li> <li>Select a representative cross section across the channel. Describe a point on the cross section that is characteristally as a Record the floodplain unit and GPS position.</li> <li>Describe the sediment texture (using the Wentworth of floodplain unit.</li> <li>Identify any indicators present at the location.</li> <li>Repeat for other points in different hydrogeomorphic floof. Identify the OHWM and record the indicators. Record the Mapping on aerial photograph</li> </ol>	Oraw the cross section and label the floodplain units. Stic of one of the hydrogeomorphic floodplain units. Class size) and the vegetation characteristics of the bodplain units across the cross section.
Digitized on computer	Other:

Project ID: DCSS Cross section ID: 01 Date: 05/17/19 Time: 16/5
Cross section drawing:
VIEJO CHIMINO
OHWW
1 VEGETATED CHANNEL
N VEGETATED CHANNEL
<u>OHWM</u>
GPS point: D(SS-01
GPS point: D(SS-01 35.453245/-120.637836
Indicators:
Change in average sediment texture  Change in vegetation species  Other:
Change in vegetation cover Other:
Comments:
LOW FLOW CHANNEL IMMEDIATELY UPGTREAM OF
CULLERY UNDER VIETO CHIMINO
Floodplain unit:  Low-Flow Channel
,
GPS point: D(((-))
Characteristics of the floodplain unit:
Average sediment texture: CLAY LOWN
Total veg cover: 95% Tree: 0 % Shrub: 0 % Herb: 95%
Community successional stage:  NA  Mid (herbaceous, shrubs, sanlings)
☐ NA ☐ Mid (herbaceous, shrubs, saplings) ☐ Late (herbaceous, shrubs, mature trees)
ndicators:
<ul><li>✓ Mudcracks</li><li>✓ Soil development</li><li>✓ Surface relief</li></ul>
Drift and/or debris  Other: Sank
Presence of bed and bank Other:
Benches Other:
comments:
LOW FLOW CHANNEL DEFINED BY CHANGE IN ELEVATIONS
BENCHING & CHANGE IN VELDETATION SPECIES & COVER

Project ID: 565 Cross section ID: 02 Date: 05/7/18 Time: 1600
Cross section drawing:
en onwa
Mary Mark Mark Mark Mark Mark Mark Mark Mark
C VEGETATED CHANNEL
OTHER STATE OF THE
<u>OHWM</u>
GPS point: DCSS-07  35.453727 /- 120.637320  Indicators:  Change in average sediment texture Change in vegetation species Change in vegetation cover  Other:
Comments:
VEGETATED SWALE - LOW FLOW CHANNEL DONA BY
<u> </u>
Floodplain unit: Low-Flow Channel
GPS point: DCSS -OZ
Characteristics of the floodplain unit:  Average sediment texture: Clay of Mid (herbaceous, shrubs, saplings)  Community successional stage:  NA
Indicators:  Mudcracks Soil development Surface relief Drift and/or debris Presence of bed and bank Benches Other: Other:
Comments:
LOW FLOW CHANNEL DEFINED BY TRANSITION IN VEGETATION SPECIES & CHANGE IN ELEVATION ALONG GENTLY SLOPED BANK.

Project ID: 765 Cross section ID: 05	Date: 05 17 18	Time: 1545
Cross section drawing:		iden ha in our
EN OHWW	(	
ASSESSA VIVE	The state of the second	and the second s
Jacob on When What	Interest de la carate a	
CVEGETATIES	CHACIONET	
VEGE (TILE)	) CAMPAINE	
A product the set on the set of		
OHWM	Magazilen er eleterr	
and the Price of		
GPS point: DCSS - 03 35.453961 / -120.636670		
Indicators:		
Change in average sediment texture B	reak in bank slope	ortens find the
Change in vegetation species O	ther:	
Change in vegetation cover O	ther:	
Comments: Cliation and an analysis	2 1 5	A Committee of the Comm
Comments: SHALLOW, MEANDERING DRAINA	GE WITH GENTLY S	LOPED BANKS.
CHANNEL & BANKS VEGETATED WITH F RUDERAL WEEDY SPECIES.	IERBACEOUS COVER	- CKUSSES 4
of the less.		
		:
	and a second sec	
Floodplain unit:    Low-Flow Channel	ctive Floodplain	Low Terrace
GPS point: DUSS - 03	I was a second of the first	
Characteristics of the floodplain unit:	in a changle sail as	to karing
Average sediment texture: Clay Loan	1,000	
Total veg cover: 45 % Tree: 20 % Shrub: 0	_% Herb: <u>25</u> %	AMORPH STORY
Community successional stage:	d (herbaceous, shrubs, saplir	200
- IVII	te (herbaceous, shrubs, matu	
	(======================================	
Indicators:	21 12 1	A LONG THE TOTAL OF THE STATE O
	il development rface relief	era, era
	her: Scour	t comment to the second
Presence of bed and bank Otl	ner:	
☐ Benches ☐ Oth	ner:	- * *
Comments:		el ese suit
LOW FLOW CHANNEL, IMMEDIATEL	1 DOMNSTREAM.	OF CULVERT
UNDER EL CAMINO REAL. CHANA		
WITH HERBACEOUS (OVER; A SIN	able MATURE U	1/LLOW 15
POOTED @ EDDE OF CHANNEL		



# **APPENDIX D: Representative Site Photographs**



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**Photo 1**. View southwest of ephemeral drainage bisecting the proposed development area.



Photo 2. View northeast of the existing culvert under Viejo Camino.





**Photo 3**. View northwest toward existing structure at the northern property boundary.



**Photo 4.** View north of the ephemeral drainage with evidence of scour, just upstream of the culvert under Viejo Camino.





**Photo 5**. View west of the existing culvert under El Camino Real.



**Photo 6.** Soil plug excavated at SP-02 during the wetland delineation.