SAN DIEGO GAS & ELECTRIC COMPANY AND SOUTHERN CALIFORNIA GAS COMPANY'S PIPELINE SAFETY & RELIABILITY PROJECT WETLAND DELINEATION REPORT

Prepared for:





Prepared by:



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1 – INTRODUCTION

In the winter of 2014 and spring of 2015, San Diego Gas & Electric Company (SDG&E) and Southern California Gas Company (SoCalGas)—herein referred to as "the Applicants"—retained Insignia Environmental (Insignia) to conduct a preliminary assessment of the waters and wetlands in close proximity to the Pipeline Safety & Reliability Project (Proposed Project). The preliminary assessment was submitted with the Proponent's Environmental Assessment (PEA) in 2015.

This document, *Pipeline Safety & Reliability Project Wetland Delineation Report*, is a follow-up to the preliminary assessment. This report summarizes the 2016 field methods and results of Insignia's formal three-parameter¹ wetland delineation of 20 wetland features within the Proposed Project workspaces. This wetland delineation report provides an assessment of wetlands that are within the jurisdiction of the United States (U.S.) Army Corps of Engineers (USACE), pursuant to Section 404 of the Clean Water Act (CWA); and/or may be regulated by the Regional Water Quality Control Board (RWQCB), pursuant to the Porter-Cologne Water Quality Control Act (California Water Code, Chapter 2, § 13050) or Section 401 of the CWA.

The PEA's wetlands assessment was based on a habitat assessment that identified features that could indicate the presence of a wetland based solely on topography and vegetation cover. This *Wetland Delineation Report* provides an inventory of the jurisdictional features and demonstrates a significant reduction in estimated temporary impacts to wetlands during construction of the Proposed Project. The Proposed Project will qualify for a USACE 2017 Nationwide Permit 12 for Utility Line Activities for approximately 0.07 acre of temporary impacts to wetlands.

2 - PROJECT DESCRIPTION

2.0 PROJECT OVERVIEW

The Proposed Project involves construction, operation, and maintenance of an approximately 47-mile-long, 36-inch-diameter natural gas transmission pipeline and the following permanent, aboveground equipment that will be appurtenant to the pipeline:

- approximately 10 new aboveground mainline valves (MLVs) spaced a maximum of five miles apart,
- one pressure-limiting station (i.e., the Rainbow Pressure-Limiting Station),
- three cross-tie facilities (i.e., Line 1600, Line 1601, and Line 2010),
- internal inspection launching and receiving equipment,
- cathodic protection system units with an estimated three rectifiers and three deep-well anode beds at three of the proposed MLVs, and
- an intrusion detection and leak monitoring system.

¹ The three parameters of the wetland delineation are hydrophytic vegetation, hydric soils, and wetland hydrology.

Construction is scheduled to begin in the first quarter of 2018 and is expected to take 12 to 18 months to complete.² The Applicants are required to comply with CPUC General Order 112-F in constructing a natural gas transmission pipeline and are choosing to seek a CPCN from the CPUC for the Proposed Project. Because the Proposed Project route includes land under the jurisdiction of the Department of the Navy/U.S. Marine Corps, federal authorization will be required. It is anticipated that the Department of the Navy will serve as the federal lead agency pursuant to the National Environmental Policy Act. In addition to the CPCN and the authorization for rights-of-way on MCAS Miramar, the Applicants will obtain all required permits for the Proposed Project from federal, state, and local agencies prior to construction.

2.1 PROJECT LOCATION AND SETTING

The Proposed Project is located in San Diego County, California, and crosses the cities of San Diego, Escondido, and Poway. As depicted in Figure 1: Project Overview Map, the route begins at SDG&E's existing Rainbow Metering Station in the unincorporated community of Rainbow and terminates just north of State Route 52 within MCAS Miramar. Within MCAS Miramar, the route parallels an unpaved aqueduct road for approximately 2.6 miles. The Proposed Project will tie into the existing Line 2010 at its southern terminus.

The Proposed Project will be installed primarily within existing roadways and road shoulders. Approximately 41 miles (87 percent) of the Proposed Project will be installed in urban areas within existing roadways and road shoulders, and the remaining approximately six miles (13 percent) of the Proposed Project will be installed cross-country. The pipeline will be installed approximately 42 inches below the ground surface using conventional trenching methods. The pipeline alignment will cross several major roads, including Interstate (I-) 15, as well as a number of water features, including Rainbow Creek, the San Luis Rey River, Moosa Creek, Lake Hodges, Escondido Creek, Poway Creek, and Beeler Creek. At the crossings of the San Luis Rey River and Lake Hodges, horizontal directional drilling methods will be implemented to minimize impacts to riparian habitat and water quality.

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² The construction start date is based on receiving a Certificate of Public Convenience and Necessity (CPCN) from the California Public Utilities Commission (CPUC) by 2017 and the issuance of other required permits by late 2017 or early 2018.



3 – REGULATORY FRAMEWORK

This section describes the USACE- and RWQCB-jurisdictional limits as defined by federal and state regulations.

3.0 UNITED STATES ARMY CORPS OF ENGINEERS

3.0.0 Section 404 of the Clean Water Act

Under Section 404 of the CWA, the USACE has jurisdiction over waters of the U.S. The purpose of the CWA is to "restore and maintain the chemical, physical, and biological integrity of the nation's waters." The USACE has regulatory authority to issue permits for the discharge of dredged or fill material in waters of the U.S., according to Title 33, Section 1344 of the U.S. Code.

The USACE issues site-specific individual or general permits (i.e., Nationwide Permits) for such discharges. The Proposed Project is under the jurisdiction of the USACE's Los Angeles District.

"Waters of the U.S." are defined in Title 33, Section 328.3(a) of the Code of Federal Regulations (CFR) as follows:

- 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 subject to the ebb and flow of the tide.
- 2. All interstate waters and wetlands.
- 3. All other waters—such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds—that the use, degradation, or destruction of which could affect interstate or foreign commerce, and that includes any of the following waters:
 - Waters that are or could be used by interstate or foreign travelers for recreational or other purposes.
 - Waters from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
 - Waters that 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 U.S.
- 5. Tributaries of waters identified in 1 through 4.
- 6. The territorial seas.
- 7. Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in 1 through 6.

Title 33, Section 328.3(b) of the CFR defines wetlands as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions." Thus, all three parameters—hydrophytic vegetation, hydric soils, and wetland hydrology—must be present to classify an area as a USACE-jurisdictional wetland under normal circumstances.

The following two Supreme Court cases have redefined the USACE jurisdiction within the parameters of the CWA:

- Solid Waste Agency of Northern Cook County (SWANCC) v. USACE (SWANCC case): Prior to the SWANCC case in 2001, the definition of waters of the U.S. under the USACE regulations included waters "which are or could be used as habitat by birds protected by the Migratory Bird Treaty or by other migratory birds crossing state lines." This definition is pursuant to the preamble language that is provided in Title 40, Section 328.3(a)(3)(2001) of the CFR and is commonly referred to as the Migratory Bird Rule. In the SWANCC case, the USACE attempted to regulate activities taking place in ponds that had formed in pits originally used for a sand and gravel mining operation. Under the Supreme Court's decision in this case, the USACE was directed that it does not have jurisdiction over isolated, non-navigable waters based solely on their use as habitat for migratory birds. The Supreme Court ruled that the USACE's attempt to regulate such isolated waters exceeded its authority under the CWA. The USACE's jurisdiction over isolated wetlands is now determined on a case-by-case basis.
- Rapanos v. U.S. (Rapanos case): In the Rapanos case, the Supreme Court consolidated two lower Sixth Circuit of Appeal cases—the Rapanos case and Carabell v. USACE—for review. On June 19, 2006, the Supreme Court vacated judgment against Keith Carabell and John Rapanos, who wanted to fill wetlands on property they owned in Michigan. The USACE had determined that the CWA applied to the wetlands in question in both of these cases because the wetlands were either connected through tributaries, ditches, or drains to navigable waters (in the Rapanos case); or were adjacent to tributaries, ditches, or drains connected to navigable waters (in Carabell v. USACE), but separated under ordinary water conditions from these water features by a berm. The Supreme Court issued five separate opinions in the Rapanos case, none of which commanded a majority.

As a result of these court cases, the U.S. Environmental Protection Agency (EPA) and the USACE subsequently issued a joint memorandum addressing guidance on determining the jurisdiction of waters of the U.S. (EPA and USACE 2008). The memorandum, which intended to address rulings in the SWANCC case and the Rapanos case, states that the agencies will assert jurisdiction over the following waters:

- traditional navigable waters (TNWs),
- wetlands adjacent to TNWs,

- non-navigable tributaries of TNWs that are relatively permanent where the tributaries typically flow year-round or have continuous flow at least seasonally (e.g., typically three months), and
- wetlands that directly abut such tributaries.

The agencies will decide jurisdiction over the following waters based on a fact-specific analysis to determine whether they have a significant nexus with a TNW:

- non-navigable tributaries that are not relatively permanent;
- wetlands adjacent to non-navigable tributaries that are not relatively permanent; and
- wetlands adjacent to, but that do not directly abut, a relatively permanent and non-navigable tributary.

The agencies generally will not assert jurisdiction over the following features:

- swales or erosional features (e.g., gullies and small washes that are characterized by low volume and infrequent or short-duration flow); and
- ditches (including roadside ditches) that are excavated wholly in and drain only in uplands, and that do not carry a relatively permanent flow of water.

As a result, the limits of the USACE's jurisdiction are as follows:

- 1. Territorial Seas: The limit of jurisdiction in the territorial seas is measured from the baseline in a seaward direction for a distance of three nautical miles. (See 33 CFR § 329.12.)
- 2. Tidal Waters of the U.S.: The landward limits of jurisdiction in tidal waters:
 - extend to the high tide line; or
 - extend to the limits of adjacent non-tidal waters of the U.S., as described in item 3 below.
- 3. Non-Tidal Waters of the U.S.: The limits of jurisdiction in non-tidal waters:
 - extend to the ordinary high water mark (OHWM) in the absence of adjacent wetlands,
 - extend beyond the OHWM to the limit of adjacent wetlands when such wetlands are present, and
 - extend to the limit of the wetland when the waters of the U.S. consist only of wetlands.

A significant nexus analysis will be used when assessing jurisdiction over non-navigable and not relatively permanent tributaries and their adjacent wetlands. The significant nexus analysis will assess the flow characteristics and functions of the tributaries, as well as the functions performed by all wetlands adjacent to such tributaries to determine if they significantly affect the chemical, physical, and biological integrity of downstream TNWs. The significant nexus analysis will include consideration of the following hydrologic factors:

- proximity to the TNW;
- size of the watershed;
- volume, duration, and frequency of flow;
- average rainfall; and
- average annual snowpack.

The significant nexus analysis will include consideration of ecological factors, including a tributary's potential to carry pollutants and floodwaters to TNWs and the adjacent wetlands' potential to trap and filter pollutants or store floodwaters.

Fundamental to the application of this guidance is a formalized oversight process involving both the EPA and the USACE in the adoption of approved jurisdictional determinations. The intent of this formal process is to ensure consistency in how the agencies interpret the rulings and guidance at all levels. The USACE issued Regulatory Guidance Letter No. 08-02 on the subject of Jurisdictional Determinations (USACE 2008b) in order to institute the program by which jurisdictional determinations are made. This guidance creates a distinction between an applicant's request for a preliminary jurisdictional determination (PJD) and an approved jurisdictional determination (AJD). If a PJD is requested from the USACE, the determination will be inclusive of all features that have historically been regulated by the USACE under Section 404 of the CWA and Sections 9 and 10 of the Rivers and Harbors Appropriation Act of 1899 (i.e., prior to the SWANCC and Rapanos cases). The PJD excludes exempted jurisdictional waters, but not those excluded by court ruling interpretations. The AJD provides a more thorough evaluation of issues of isolation, adjacency, and significant nexus as contemplated by the courts, and excludes from USACE regulation any areas that fail to meet the necessary litmus tests of the court decision and the agencies' implementation guidance.

3.1 REGIONAL WATER QUALITY CONTROL BOARD

3.1.0 Section 401 of the Clean Water Act

The RWQCB regulates activities in waters of the State—including wetlands—through Section 401 of the CWA (RWQCB 2014). While the USACE administers permitting programs that authorize impacts to waters of the U.S., any USACE permit authorized for a proposed project will be invalid unless the RWQCB has issued a project-specific Water Quality Certification (WQC) or waiver of water quality. A WQC requires a finding by the RWQCB that the activities permitted by the USACE will not violate water quality standards individually or cumulatively over the term of the issued USACE permit. The Proposed Project is under the jurisdiction of the San Diego RWQCB.

3.1.1 Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act (California Water Code § 13260) requires that "any person discharging waste, or proposing to discharge waste, within any region that could affect the waters of the State to file a report of discharge" with the RWQCB through an application for waste discharge (California Water Code § 13260[a][1]) (RWQCB 2014). The term "waters of the State" is defined as any surface water or groundwater, including saline waters, within the boundaries of the state (California Water Code § 13050[e]). Pursuant to the Porter-Cologne Water Quality Control Act, the RWQCB also regulates "isolated wetlands," or

wetlands considered to be outside of the USACE's jurisdiction, pursuant to the SWANCC case decision.

The RWQCB generally considers filling in waters of the State to be "pollution." Pollution is defined as an alteration of the quality of the waters of the State by waste that unreasonably affects its beneficial uses (California Water Code § 13050[1]). The RWQCB litmus test for determining if a project should be regulated pursuant to the Porter-Cologne Water Quality Control Act is if the action could result in any "threat" to water quality.

4 – METHODS

In 2016, Insignia wetland specialists conducted a formal wetland delineation of potential wetland areas within or immediately adjacent to the Proposed Project workspace that were identified during the fieldwork associated with the preparation of the Proponent's Environmental Assessment (PEA). This section describes the previous 2014 and 2015 preliminary wetland mapping that was conducted to support preparation of the PEA; the literature review that was conducted prior to the wetland delineation fieldwork; and the methods utilized to conduct the 2016 wetland delineation fieldwork, mapping, and documentation.

4.0 PRELIMINARY WETLAND MAPPING

In 2014 and 2015, Insignia biologists mapped potential wetlands under the jurisdiction of the USACE and RWQCB based on hydrophytic vegetation during vegetation mapping and rare plant surveys conducted for the Proposed Project. The wetland mapping was conducted according to the USACE's Wetlands Delineation Manual (Environmental Laboratory 1987) in conjunction with the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (USACE 2008a).

Hydrophytic vegetation is defined as "the community of macrophytes that occurs in areas where inundation and soil saturation is either permanent, or of sufficient frequency and duration to exert a controlling influence on the plant species present" (USACE 2008a). Hydrophytic vegetation is determined to be present when the plant community is dominated by species that can tolerate prolonged inundations or soil saturation during the growing season. The National Wetland Plant List (Lichvar et al. 2014) provides a wetland indicator status for all hydrophytic plant species in the U.S. The wetland indicator status predicts a plant's likelihood to occur in wetlands, and is defined as follows:

- Obligate Plant (OBL): A plant that almost always occurs in wetlands.
- Facultative Wetland Plant (FACW): A plant that usually occurs in wetlands, but may occur in non-wetlands.
- Facultative Plant (FAC): A plant that occurs in wetlands and non-wetlands.
- Facultative Upland Plant (FACU): A plant that usually occurs in non-wetlands, but may occur in wetlands.
- Upland Plant (UPL): A plant that almost never occurs in wetlands.

Biologists visually estimated the absolute percent cover of plant species with stands that could potentially be dominated by hydrophytic vegetation. Wetland determination data forms were

filled out for areas where the presence of hydrophytic vegetation could not be determined through a routine vegetation assessment. The wetland indicator status (i.e., OBL, FACW, FAC, FACU, and UPL) of the species was recorded. For species not on the 2014 National Wetland Plant List the indicator status was assumed to be UPL. Hydrophytic vegetation was determined to be present if either of the following indicator tests were satisfied:

- Dominance Test (Indicator 1): More than 50 percent of the dominant plant species across all strata are rated OBL, FACW, or FAC.
- Prevalence Test (Indicator 2): The prevalence index, which is a weighted-average wetland indicator status of all plant species in the sampling plot, is 3.0 or less.

All potential wetland areas (i.e., areas dominated by hydrophytic vegetation) were evaluated to identify their connection to on-site and off-site hydrologic resources. Potential jurisdictional wetland areas were mapped as such if they were identified as adjacent waters or were determined to potentially have a significant nexus to a TNW.

The wetland boundaries were mapped using a Trimble Global Positioning System (GPS) unit with submeter accuracy in locations where biologists could access these features. Full-color, ortho-corrected aerial imagery was analyzed to assist with mapping the spatial extents of jurisdictional features that were not accessible during GPS data collection. A data dictionary within the GPS software ensured consistent data collection in the field. All spatial data was collected in the North American Datum 1983 State Plane California Zone 6 (feet) coordinate system.

4.1 LITERATURE REVIEW

Before conducting the 2016 formal wetland delineation, Insignia wetland specialists reviewed the 2015 Wetland and Waters Assessment, U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory maps (USFWS 2016) for the Proposed Project refinement areas outside of the 2014 and 2015 Survey Area,³ and recent aerial photographs of the Survey Area and the surrounding area. The biologists also reviewed and referenced the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey for the Survey Area, which lists hydric soils found in San Diego County.

4.2 JURISDICTIONAL WETLAND DELINEATION

The 2016 wetland delineations were conducted according to the USACE's Wetlands Delineation Manual (Environmental Laboratory 1987) in conjunction with the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (USACE 2008a). Insignia's wetland specialists conducted a jurisdictional wetlands delineation of 20 potential USACE-jurisdictional wetlands within or immediately adjacent to the Proposed Project's workspace. A summary of the 2016 wetland delineation survey dates and locations is presented in Table 1: 2016 Wetland Delineation Summary.

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³ The 2014 and 2015 Survey Area included all Proposed Project components and an approximately 150-foot buffer on each side of these components. In total, the Survey Area covered approximately 2,264 acres.

The wetland specialists dug soil pits up to 12 inches deep to determine if a potential wetland met the hydric soil parameter and was located within an area that would be impacted during construction of the Proposed Project. Soil pits were dug within a potential wetland feature in areas that were visually determined to best represent the characteristics of a wetland community type. Visual indicators included topography, vegetation, and hydrology indicators. Soil pits were also dug to determine the limits of a wetland feature that met the three wetland parameters of hydrophytic vegetation, hydric soils, and wetland hydrology. Up to three soil pits were dug in a potential wetland and the surrounding upland area to establish the limits of the potential wetland feature. Each soil pit and its surrounding area were evaluated for each of the three wetland parameters (i.e., hydrophytic vegetation, hydric soils, and wetland hydrology).

Vegetation at each sample point was evaluated within a one-square-meter quadrat. The 2016 National Wetland Plant List was used to determine the wetland indicator status for dominant plant species within the quadrat (Lichvar et al. 2016). Evidence supporting the jurisdictional determination at each of the sample points was recorded on Arid West Region – Wetland Determination Data Forms, which are provided in Attachment A: Wetland Determination Data Forms. The locations of the soil pits were recorded using a GPS unit and are depicted as soil test pit points on maps in Attachment B: Wetland Assessment Map and Vegetation Abbreviations.

Table 1: 2016 Wetland Delineation Summary

Insignia's Wetland Specialists	Date	Approximate Mileposts (MPs) Surveyed ⁴	Potential Wetlands Evaluated ⁵
Darren Burton and Nick Wagner	September 21, 2016	MP 0.0 to MP 1.9, MP 21.4 to MP 24.2, MP 30.4 to MP 33.3, and MP 39.0 to MP 43.8	Wetland (W-) 941 W-994 W-998 W-999 W-380 W-383 W-1377
Darren Burton and Nick Wagner	October 24, 2016	46.7 to MP 46.9	W-1268
Darren Burton and Melissa Tu	November 11, 2016	MP 43.8 to MP 46.7	W-1386 W-1283 W-1391 W-1642 W-1638 W-1639 W-148 W-1724 W-1726 W-1726 W-84 W-1278 W-1392
Darren Burton and Melissa Tu	December 20, 2016	MP 3.3	W-1444 W-1445

5 – SURVEY RESULTS

Twenty potential wetlands were evaluated in 2016 within or adjacent the Proposed Project workspace and are depicted in Attachment B: Wetland Assessment Map and Vegetation Abbreviations and Attachment C: Wetland Features Evaluated in 2016. Of the 20 potential wetlands, two features—W-1391 and W-1278—meet the definition of a wetland based on the three parameters (i.e., hydrophytic vegetation, hydric soils, and wetland hydrology). W-1278 is an isolated basin just west of the Proposed Project workspace, as depicted on Map 9 in Attachment B: Wetland Assessment Map and Vegetation Abbreviations. W-1391 is within the Proposed Project workspace, as depicted on Map 8 in Attachment B: Wetland Assessment Map and Vegetation Abbreviations. Attachment D: Wetland Photographic Log presents photographs of W-1391, which occurs within the Proposed Project area on MCAS Miramar.

⁴ These mileposts were based on the PEA.

⁵ Wetland numbers are preliminary and potential wetlands mapped in 2014 and 2015. These wetlands are in order by date surveyed and from north to south in the Proposed Project area.

6 - CONCLUSION

Approximately 0.07 acre of W-1391, a USACE- and RWQCB-jurisdictional wetland, is within the Proposed Project workspace and could potentially be temporarily impacted by construction activities. The Proposed Project activities that could temporarily impact the wetland include earth-moving/grading and vegetation removal associated with the temporary construction workspace. W-1278 is adjacent to the Proposed Project workspace and will be avoided. No permanent impacts to hydrological features are anticipated as a result of the Proposed Project.

It is anticipated that the Proposed Project will qualify for a USACE 2017 Nationwide Permit 12 for Utility Line Activities, because the Proposed Project will not result in a loss of more than 0.5 acre of waters of the U.S. and it meets all of the other conditions of this Nationwide Permit. In addition, the Proposed Project will require a WQC from the RWQCB.

7 – REFERENCES

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ATTACHMENT A: WETLAND DETERMINATION DATA FORMS

Project/Site: PSRP-WLD Applicant/Owner: SD6\$E; c/o Insignia E	Ci	ty/County: San	Diego Sampling Date: 9/21/16
Applicant/Owner: SD63E ; c/o Insignia E	Enu,		State: CA Sampling Point: I-I
Investigator(s): Darren Burton, Nick Wagne	er s	ection, Township, Rar	nge:
Landform (hillslope, terrace, etc.):	L	ocal relief (concave, o	convex, none): NONE Slope (%):
Landform (hillslope, terrace, etc.): Subregion (LRR): LRR - C	Lat: 34	3.19'04.126	Long: -117 07'24,060 Datum:
Soil Map Unit Name:			NWI classification:
Are climatic / hydrologic conditions on the site typical for this			
Are Vegetation, Soil, or Hydrologys			Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology n			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map			
Hydrophytic Vegetation Present? Yes No.			
Hydrophytic Vegetation Present? Yes V N Hydric Soil Present? Yes N		Is the Sampled	
Wetland Hydrology Present? Yes N		within a Wetlan	d? Yes No
Remarks: Pit is adjacent to work sp.	110	Saul	dry 2 12"
All 1 2 May Att 0	· ote a		
Attach B Map: W-941 @		ha of w	orkspace
VEGETATION - Use scientific names of plan	ts.	0	
Tree Stratum (Plot size:)		Dominant Indicator Species? Status	Dominance Test worksheet:
1. Platanos racemosa	1 D	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.			
3			Total Number of Dominant Species Across All Strata: (B)
4			Descent of Deminant Species
		Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
1. Bacch. salicitatia	50'	40 FACW	Prevalence Index worksheet:
2,		4	Total % Cover of:Multiply by:
3,			OBL species x 1 =
4.	s		FACW species x 2 =
5			FAC species x 3 =
Herb Stratum (Plot size:		Total Cover	FACU species x 4 = UPL species x 5 =
1 Datura wrighti	20	yes UPL	Column Totals: (A) (B)
2	2		(A)(B)
3			Prevalence Index = B/A =
4			Hydrophytic Vegetation Indicators:
5			➤ Dominance Test is >50%
6			Prevalence Index is ≤3.0 ¹
7			Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8	: 	Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	=	Total Cover	
1,	5		Indicators of hydric soil and wetland hydrology must
2	-		be present, unless disturbed or problematic.
		Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic Crus	st_ 	Present? Yes No
Remarks: 6PS check:			
33, 31785, -117, 15668			
285			

er	MI
Ju	ᄼ

Sampling Point: ______________

Depth	Matrix	64		x Features	1 1 2					
(inches)	Color (moist)		Color (moist)		Loc ²	Texture	_	1.0	Remarks	
6	5/6	100	3			very ton	e	10	YR.	1 D
12	5/4	100		180						
				·						
	======				-:		-			
						:				
							- 6			
	ncentration, D=Dep				ated Sand Gr				Lining, M	
ydric Soil In	idicators: (Applic	able to all L	RRs, unless other	rwise noted.)		Indicators	for Pro	blemati	c Hydric	Soils':
_ Histosol (A1)		Sandy Red	ox (S5)		1 cm N	/luck (As	9) (LRR	C)	
_ Histic Epi	pedon (A2)		Stripped Ma				•	10) (LRF	R B)	
Black His	• •		_	ky Mineral (F1)			ed Verti			
	Sulfide (A4)			yed Matrix (F2)				aterial (1	,	
	Layers (A5) (LRR (C)	Depleted M	` '		Other ((Explain	in Rem	arks)	
	k (A9) (LRR D)	(4.44)		Surface (F6)						
	Below Dark Surfac	e (A11)		ark Surface (F7)		3 Indiantant	سامر ما کم	mbuda.	onatelia-	and
	k Surface (A12)		Redox Depi	ressions (F8)		³ Indicators			egetation be presen	
	ucky Mineral (S1) eyed Matrix (S4)		veinai Pool	15 (F3)		unless di				it,
	eyed (viatily (34)					uniess di	isturbed	or prob	icinatic.	
	ayer (ii present).					Ŋ				
Type:	18		_			1				. /
Depth (Incr						Linear Carl	D	10 V.	_	NI a
	Sand,		<u> </u>			Hydric Soil	Presen	t? Ye	s	No
emarks:	Sand,					Hydric Soil	Presen	t? Ye	s	No
remarks:	Sand,		_			Hydric Soil	Presen	t? Ye	s	No
Pemarks:	Sand,		check all that appl	γ)						No
PROLOGIES (Petland Hydrinary Indica	Sand, SY rology Indicators: ttors (minimum of o					Secon	idary Inc	dicators	(2 or more	e required)
PROLOGIES (Petland Hydrimary Indication Surface View Price P	Sand, Fology Indicators: ttors (minimum of o		Salt Crust	(B11)		Secon	idary Inc	dicators	(2 or more	e required)
PROLOGI Petland Hydirimary Indica Surface W	Fology Indicators: utors (minimum of o		Salt Crust Biotic Crus	(B11) st (B12)		<u>Secon</u> W So	dary Inc /ater Ma	dicators irks (B1) Deposi	(2 or more (Riverine is (B2) (Ri	e required) a) verine)
PROLOGIES Surface V High Wate Surface V Surface V High Wate Saturation	Fology Indicators: stors (minimum of o	ne required;	Salt Crust Biotic Crus Aquatic Inv	(B11) st (B12) vertebrates (B13)		Secon W Si D	dary Inc /ater Ma ediment	dicators irks (B1) Deposi osits (B3	(2 or more (Riverine ts (B2) (Ri	e required) a) verine)
PROLOGIVETION OF TIME TO THE TIME TO TIME TO THE TIME	rology Indicators: stors (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriver	ne required;	Salt Crust Biotic Crust Aquatic Int Hydrogen	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1)	Secon W Si Di D	dary Inc /ater Ma ediment rift Deporainage	dicators rks (B1) Deposi Desits (B3) Pattern:	(2 or more (Riverine is (B2) (Ri) (Riverine s (B10)	e required) a) verine)
YDROLOG Vetland Hydri Irimary Indica Surface V High Wate Saturation Water Ma	Fology Indicators: ators (minimum of one of the control of the co	ne required; ine) nriverine)	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alo) ng Living Roo	Secon W Si Di Di ats (C3) Di	dary Ind /ater Ma ediment rift Depo rainage ry-Seas	dicators irks (B1) Deposi osits (B3 Patterni	(2 or more (Riverine ts (B2) (Ri) (Riverine s (B10) er Table (C	e required) a) verine)
PROLOGIVETION OF THE PROPERTY INCIDENTY INCIDE	rology Indicators: tors (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriveri Deposits (B2) (Nonriveri	ne required; ine) nriverine)	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres aloo of Reduced Iron) ng Living Roo (C4)	Secon W Si Di Di sts (C3) Di	dary Ind /ater Ma ediment rift Depo rainage ry-Seas rayfish I	dicators Irks (B1) Deposi osits (B3 Patterns on Wate Burrows	(2 or more (Riverine is (B2) (Ri) (Riverine s (B10) or Table (C	e required) e) (verine) e)
YDROLOG Vetland Hydri Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: tors (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriver Deposits (B2) (Non sits (B3) (Nonriver oil Cracks (B6)	ne required; ine) nriverine)	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized F Presence	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alo of Reduced Iron n Reduction in T) ng Living Roo (C4)	Secon W Si Di Di ts (C3) Di Ci Ci Si) Si	dary Inc /ater Ma ediment rift Depo rainage ry-Seas rayfish I aturation	dicators Irks (B1) Deposi Desits (B3 Patterns On Wate Burrows	(2 or more (Riverine ts (B2) (Ri) (Riverine s (B10) or Table (C (C8) on Aerial	e required) e) (verine) e)
POROLOGI Vetland Hydromary Indica Surface Welligh Water Saturation Water Maler Sediment Drift Deposition	rology Indicators: tors (minimum of orvater (A1) er Table (A2) n (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) oil Cracks (B6) n Visible on Aerial I	ne required; ine) nriverine)	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alo of Reduced Iron n Reduction in Ti Surface (C7)) ng Living Roo (C4) Illed Soils (C6	Secon W Si Di Di ts (C3) Di Ci Ci Si Si	dary Inc /ater Ma ediment rift Depo rainage ry-Seas rayfish I aturation hallow A	dicators irks (B1) Deposi osits (B3 Patterni on Wate Burrows n Visible	(2 or more (Riverine is (B2) (Ri) (Riverine s (B10) ir Table (C (C8) on Aerial	e required) e) (verine) e)
YDROLOG Vetland Hydrimary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: tors (minimum of orvater (A1) er Table (A2) n (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) oil Cracks (B6) n Visible on Aerial I	ne required; ine) nriverine)	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alo of Reduced Iron n Reduction in T) ng Living Roo (C4) Illed Soils (C6	Secon W Si Di Di ts (C3) Di Ci Ci Si Si	dary Inc /ater Ma ediment rift Depo rainage ry-Seas rayfish I aturation hallow A	dicators Irks (B1) Deposi Desits (B3 Patterns On Wate Burrows	(2 or more (Riverine is (B2) (Ri) (Riverine s (B10) ir Table (C (C8) on Aerial	e required) e) (verine) e)
YDROLOG Vetland Hydrimary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta	rology Indicators: tors (minimum of orvater (A1) er Table (A2) n (A3) rks (B1) (Nonriver Deposits (B2) (Nonriver oil Cracks (B6) n Visible on Aerial I nined Leaves (B9) ations:	ne required; ine) nriverine) rine) magery (B7)	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron in Reduction in Ti Surface (C7) olain in Remarks)) ng Living Roo (C4) illed Soils (C6	Secon W Si Di Di ts (C3) Di Ci Ci Si Si	dary Inc /ater Ma ediment rift Depo rainage ry-Seas rayfish I aturation hallow A	dicators irks (B1) Deposi osits (B3 Patterni on Wate Burrows n Visible	(2 or more (Riverine is (B2) (Ri) (Riverine s (B10) ir Table (C (C8) on Aerial	e required) e) (verine) e)
YDROLOG Vetland Hydro Vetland Hydro Vetland Hydro Surface V High Water Sediment Sediment Drift Depo Surface S Inundation Water-Statel	rology Indicators: ators (minimum of orvater (A1) er Table (A2) n (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) oil Cracks (B6) n Visible on Aerial I nined Leaves (B9) ations:	ne required; ine) nriverine) rine) magery (B7)	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron in Reduction in Ti Surface (C7) blain in Remarks)) ng Living Roo (C4) Illed Soils (C6	Secon W Si Di Di ts (C3) Di Ci Ci Si Si	dary Inc /ater Ma ediment rift Depo rainage ry-Seas rayfish I aturation hallow A	dicators irks (B1) Deposi osits (B3 Patterni on Wate Burrows n Visible	(2 or more (Riverine is (B2) (Ri) (Riverine s (B10) ir Table (C (C8) on Aerial	e required) e) (verine) e)
YDROLOG Vetland Hydro Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta Sield Observa	rology Indicators: tors (minimum of orvater (A1) or Table (A2) or (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) oil Cracks (B6) or Visible on Aerial I dined Leaves (B9) attions: Present? Y	ne required; ine) nriverine) rine) magery (B7) es No	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alo of Reduced Iron in Reduction in Ti Surface (C7) blain in Remarks) ches):) ng Living Roo (C4) illed Soils (C6	Secon W Si Di Di Ci Ci Si Si Fr	dary Inc /ater Ma ediment rift Deporainage ry-Seas rayfish I aturation hallow A AC-Neu	dicators Irks (B1) Deposi Desits (B3 Patterni On Wate Burrows In Visible Aquitard tral Test	(2 or more (Riverine is (B2) (Ri) (Riverine s (B10) or Table (C (C8) on Aerial (D3) (D5)	e required) e) (verine) e) C2) Imagery (C9)
YDROLOG Vetland Hydro Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Staticald Observater Vater Table Person	rology Indicators: tors (minimum of orvater (A1) er Table (A2) n (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) oil Cracks (B6) n Visible on Aerial I nined Leaves (B9) attons: Present? Y resent? Y	ne required; ine) nriverine) rine) magery (B7) es No	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alo of Reduced Iron in Reduction in Ti Surface (C7) blain in Remarks) ches):) ng Living Roo (C4) illed Soils (C6	Secon W Si Di Di ts (C3) Di Ci Ci Si Si	dary Inc /ater Ma ediment rift Deporainage ry-Seas rayfish I aturation hallow A AC-Neu	dicators Irks (B1) Deposi Desits (B3 Patterni On Wate Burrows In Visible Aquitard tral Test	(2 or more (Riverine is (B2) (Ri) (Riverine s (B10) or Table (C (C8) on Aerial (D3) (D5)	e required) e) (verine) e) C2) Imagery (C9)
YDROLOG Vetland Hydro Primary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Statical Observation Water Table Posturation Pre Includes capil	rology Indicators: tors (minimum of orvater (A1) er Table (A2) n (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) oil Cracks (B6) n Visible on Aerial I nined Leaves (B9) attons: Present? Y resent? Y	ne required; ine) nriverine) rine) magery (B7) es No	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron in Reduction in Ti Surface (C7) blain in Remarks) ches):) ng Living Roo (C4) Illed Soils (C6	Secon W Si Di Si Si Si Si Fi	dary Inc /ater Ma ediment rift Deporainage ry-Seas rayfish I aturation hallow A AC-Neu	dicators Irks (B1) Deposi Desits (B3 Patterni On Wate Burrows In Visible Aquitard tral Test	(2 or more (Riverine is (B2) (Ri) (Riverine is (B10) or Table (C (C8) on Aerial (D3) (D5)	e required) e) (verine) e) C2) Imagery (C9)
YDROLOG Wetland Hydro Primary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-State Field Observa Surface Water Water Table P Saturation Pre includes capil Describe Reco	rology Indicators: stors (minimum of orvater (A1) er Table (A2) n (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) oil Cracks (B6) n Visible on Aerial I sined Leaves (B9) ations: Present? Present? Y sent? In Y lary fringe)	ne required; ine) nriverine) rine) magery (B7) es No es No gauge, moni	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (inc Depth (inc toring well, aerial p	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron in Reduction in Ti Surface (C7) plain in Remarks) ches): ches): photos, previous) ng Living Roo (C4) illed Soils (C6) Wetla	Secon W Secon W Secon W Secon Secon	dary Inc. /ater Ma ediment rift Deporainage ry-Seas rayfish I aturation hallow A AC-Neu	dicators Irks (B1) Deposits (B3 Patterns on Wate Burrows In Visible Aquitard tral Test	(2 or more (Riverine is (B2) (Riverine is (B10) or Table (C) (C8) on Aerial (D3) (D5)	e required) e) (verine) e) (2) Imagery (C9)
YDROLOG Wetland Hydro Primary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-State Field Observa Surface Water Water Table P Saturation Pre includes capil Describe Reco	rology Indicators: stors (minimum of orvater (A1) er Table (A2) n (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) oil Cracks (B6) n Visible on Aerial I sined Leaves (B9) ations: Present? Present? Y sent? In Y lary fringe)	ne required; ine) nriverine) rine) magery (B7) es No es No gauge, moni	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (inc Depth (inc toring well, aerial p	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron in Reduction in Ti Surface (C7) plain in Remarks) ches): ches): photos, previous) ng Living Roo (C4) illed Soils (C6) Wetla	Secon W Secon W Secon W Secon Secon	dary Inc. /ater Ma ediment rift Deporainage ry-Seas rayfish I aturation hallow A AC-Neu	dicators Irks (B1) Deposits (B3 Patterns on Wate Burrows In Visible Aquitard tral Test	(2 or more (Riverine is (B2) (Riverine is (B10) or Table (C) (C8) on Aerial (D3) (D5)	e required) e) (verine) e) (2) Imagery (C9)
YDROLOG Vetland Hydro Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-State Surface Water Vater Table P Saturation Presincludes capill	rology Indicators: stors (minimum of orvater (A1) er Table (A2) n (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) oil Cracks (B6) n Visible on Aerial I sined Leaves (B9) ations: Present? Present? Y sent? In Y lary fringe)	ne required; ine) nriverine) rine) magery (B7) es No es No gauge, moni	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (inc Depth (inc toring well, aerial p	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron in Reduction in Ti Surface (C7) plain in Remarks) ches): ches): photos, previous) ng Living Roo (C4) illed Soils (C6) Wetla	Secon W Secon W Secon W Secon Secon	dary Inc. /ater Ma ediment rift Deporainage ry-Seas rayfish I aturation hallow A AC-Neu	dicators Irks (B1) Deposits (B3 Patterns on Wate Burrows In Visible Aquitard tral Test	(2 or more (Riverine is (B2) (Riverine is (B10) or Table (C) (C8) on Aerial (D3) (D5)	e required) e) (verine) e) (2) Imagery (C9)
/DROLOG /etland Hydrimary Indica _ Surface V _ High Water _ Saturation _ Water Ma _ Sediment _ Drift Depo _ Surface S _ Inundation _ Water-State /etld Observation //ater Table Platuration Presidudes capillescribe Reco	rology Indicators: stors (minimum of orvater (A1) er Table (A2) n (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) oil Cracks (B6) n Visible on Aerial I sined Leaves (B9) ations: Present? Present? Y sent? In Y lary fringe)	ne required; ine) nriverine) rine) magery (B7) es No es No gauge, moni	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (inc Depth (inc toring well, aerial p	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron in Reduction in Ti Surface (C7) plain in Remarks) ches): ches): photos, previous) ng Living Roo (C4) illed Soils (C6) Wetla	Secon W Secon W Secon W Secon Secon	dary Inc. /ater Ma ediment rift Deporainage ry-Seas rayfish I aturation hallow A AC-Neu	dicators Irks (B1) Deposits (B3 Patterns on Wate Burrows In Visible Aquitard tral Test	(2 or more (Riverine is (B2) (Riverine is (B10) or Table (C) (C8) on Aerial (D3) (D5)	e required) e) (verine) e) C2) Imagery (C9)
YDROLOG Vetland Hydrimary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-State ield Observator Vater Table Posturation Pre Includes capillescribe Reco	rology Indicators: ators (minimum of orvater (A1) er Table (A2) n (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) oil Cracks (B6) n Visible on Aerial I nined Leaves (B9) ations: Present? resent? Y sent? Y lary fringe)	ne required; ine) nriverine) rine) magery (B7) es No es No gauge, moni	Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (inc Depth (inc toring well, aerial p	(B11) st (B12) vertebrates (B13) Sulfide Odor (C1 Rhizospheres alor of Reduced Iron in Reduction in Ti Surface (C7) plain in Remarks) ches): ches): photos, previous) ng Living Roo (C4) illed Soils (C6) Wetla	Secon W Secon W Secon W Secon Secon	dary Inc. /ater Ma ediment rift Deporainage ry-Seas rayfish I aturation hallow A AC-Neu	dicators Irks (B1) Deposits (B3 Patterns on Wate Burrows In Visible Aquitard tral Test	(2 or more (Riverine is (B2) (Riverine is (B10) or Table (C) (C8) on Aerial (D3) (D5)	e required) e) (verine) e) (2) Imagery (C9)

Project/Site: PSRP-WLD Applicant/Owner: SD63E; do Insignia E	City/County: San Die	90 Sampling Date: 09/21/
Applicant/Owner: SD6:3E; c/o Insignia E	۸۷.	State: CA Sampling Point: 1 - 2
Investigator(s): Darren Burton, Nick Wagn	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Subregion (LRR): Lat Soil Map Unit Name:	Local relief (concave, conve	ex, none): Slope (%): 5
Subregion (LRR): Lat	33, 19'04,295 Lor	ng: <u>- 117, 09,23,938</u> Datum:
Soil Map Unit Name:	E1. 78.87 m	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time		
Are Vegetation, Soil, or Hydrology signific	antly disturbed? Are "Norm	nal Circumstances" present? YesNo
Are Vegetation, Soil, or Hydrology natural	ly problematic? (If needed	d, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ving sampling point locat	tions, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:	Is the Sampled Area within a Wetland?	
Attach B Map: W-941; no.	-th of worksp	ace
VEGETATION – Use scientific names of plants.	1.5	
Tree Stratum (Plot size:	over Species? Status PAC Total Cover FAC OB FAC FAC Hyce The species of the	minance Test worksheet: mber of Dominant Species at Are OBL, FACW, or FAC: tal Number of Dominant ecies Across All Strata: cent of Dominant Species at Are OBL, FACW, or FAC: count of Dom
Woody Vine Stratum (Plot size:) 1 2 % Bare Ground in Herb Stratum/ % Cover of Bio Remarks:	1 Ind be p Total Cover Hydrox Veg Pre	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) dicators of hydric soil and wetland hydrology must present, unless disturbed or problematic. drophytic getation seent? Yes No
	, -117, 15665	g from culvert 5 280

Sampling Point: 12

Depth (inches)	Color (moist)	%	Color (moist)	K Features %Typ	e ¹ Loc ²	Texture	Remarks
.5	3/6	100				very fro	IOYR
-	27.	- 15 -			\rightarrow —	111	1000
0	-2/1	75					10 110
12	3/6	100					10YR
	-						
	oncentration, D=De				pated Sand Gr		n: PL=Pore Lining, M=Matrix.
lydric Soil	Indicators: (Applic	cable to all LF	RRs, unless other	wise noted.)		Indicators for	Problematic Hydric Soils ³ :
Histosol	, ,		Sandy Redo				(A9) (LRR C)
	pipedon (A2)		Stripped Ma	٠, ,			(A10) (LRR B)
	istic (A3)			ky Mineral (F1)		Reduced \	
	en Sulfide (A4)	C)	Loamy Gley				t Material (TF2)
	d Layers (A5) (LRR	()	Depleted Ma	itrix (F3) Surface (F6)		Other (Exp	lain in Remarks)
	uck (A9) (LRR D) d Below Dark Surfac	co (Δ11)		rk Surface (F6)			
	ark Surface (A12)	ω (A 1 1)	Redox Depr			3Indicators of b	ydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Pools	, ,			ology must be present,
	Gleyed Matrix (S4)					•	bed or problematic.
	Layer (if present):						· ·
Type:			_				
Depth (in	ches):					Hydric Soil Pre	sent? Yes No
		,	Λ.		^ \		
	Vo clay.	, ,	gug as 17.				
YDROLO							
•	drology Indicators						
Primary India	cators (minimum of o	one required; o	check all that apply	1		Secondary	/ Indicators (2 or more required)
_	Water (A1)		Salt Crust (· · · · · · · · · · · · · · · · · · ·		_ <u>/</u> Water	Marks (B1) (Riverine)
	ater Table (A2)		Biotic Crust	` '			nent Deposits (B2) (Riverine)
Saturation	` '		Aquatic Inv				Deposits (B3) (Riverine)
Water M	larks (B1) (Nonrive i	rine)		Sulfide Odor (C			age Patterns (B10)
	nt Deposits (B2) (No	-					eason Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence o		. ,		sh Burrows (C8)
	Soil Cracks (B6)		Recent Iron		illed Soils (C6	· —	ation Visible on Aerial Imagery (C9)
Inundati	on Visible on Aerial	Imagery (B7)	Thin Muck				w Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Expl	ain in Remarks)	FAC-1	Neutral Test (D5)
Field Obser			24				
Surface Wat	er Present?	/es No	Depth (inc	hes):			
Water Table	Present?	/es No	Depth (inc	hes):			
Saturation P	resent? Y	esNo	Depth (inc	hes):	Wetla	and Hydrology Pre	esent? Yes/_ No
	pillary fringe)					if available:	
Describe Re	corded Data (stream	ı gauge, monii	oring well, aerial p	notos, previous	irispections), i	ii avallable:	₩
D '				,			
Remarks:	Pit is a	granter	than 2	5' (~ =	7 m.) n.	-10 A v.	ok area.
1							
	,	0		C /	m) 100	774 8 00	2/
		0		(/	m) 14	774 g ca	24
'		0		C /	m j m	9774 Z	W

Project/Site: PSRP-WLD City/County: San 3	Diego Sampling Date: 9/21/16
Project/Site: PERP-WLD City/County: San? Applicant/Owner: 3D6 & E; C/O Insignia Env.	State: CA Sampling Point: 1 1 3
Investigator(s): Darren Burton, Nick Wagner Section, Township, R	ange:
Landform (hillslope, terrace, etc.): Local relief (concave	
Subregion (LRR): Lat: 33,19' 04, 03	31 and - 1/7, 09'23.955 Datum:
75.4314	
Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes No	INVVI CIASSIIICALIOII
	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If r SUMMARY OF FINDINGS – Attach site map showing sampling point	needed, explain any answers in Remarks.) locations, transects, important features, etc.
Libratura to the Manager to Manag	
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No Is the Sample Within a World	
Wetland Hydrology Present? Yes No within a Wetla	and? Yes No
Remarks:	
Attach B Map: W-941; within work	space; is an upland area.
VEGETATION – Use scientific names of plants.	
Tree Stratum (Plot size: 1 ~ 2) Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1. Cotton (Plot size: 1 ~) % Cover Species? Status 1. Cotton (Plot size: 1 ~) % Cover Species? Status 1. Cotton (Plot size: 1 ~) % Cover Species? Status 1. Cotton (Plot size: 1 ~) % Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. (P. freemotii)	
3	Total Number of Dominant Species Across All Strata: (B)
4	
2 40 = Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:
Sapling/Shrub Stratum (Plot size: 1 40 UPL	Prevalence Index worksheet:
2. Minialus aurantiacus 10 UPL	Total % Cover of:Multiply by:
3.	OBL species x1 =
4	FACW species x 2 =
5	FAC species x 3 =
= Total Cover	FACU species x 4 =
1. Fennel (Fenichlum vulgare) 5 UPL	UPL species x 5 =
2. Timsonweed (Datura wrightii) 5 UPL	Column Totals: (A) (B)
3	Prevalence Index = B/A =
4	Hydrophytic Vegetation Indicators:
5	Dominance Test is >50%
6	Prevalence Index is ≤3.0 ¹
7	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:) = Total Cover	
1	¹ Indicators of hydric soil and wetland hydrology must
2.	be present, unless disturbed or problematic.
= Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover of Biotic Crust	Present? Yes No
Remarks:	rinant in the
1 plane vegetoris	, ,, ,, , , , , , , , , , , , , , , , ,
Remarks: Upland regertation is don Survey quadrat	

Depth (inches)	Matrix	%	Redox Features	_Loc ² _ Te	vturo	Domestes
inches)	Color (moist)				xture	Remarks
6	5/4			vei	-y anc	7,3 YR
12	5/6	100			(<u> </u>	7,5 YR
)((
	-		72			
	acontestion DeDan	lation DM=D	advand Matrix CS=Cavased as Conta	d Cond Croins	2 ₁ anotion	DI -Doto Links M-Matrix
			educed Matrix, CS=Covered or Coate RRs, unless otherwise noted.)			PL=Pore Lining, M=Matrix. oblematic Hydric Soils ³ :
-		able to all Liv	·	1110		•
_ Histosol (Histic Eni	pedon (A2)		Sandy Redox (S5) Stripped Matrix (S6)		1 cm Muck (A 2 cm Muck (A	
_ Hack His			Loamy Mucky Mineral (F1)	_	Reduced Ver	• •
	Sulfide (A4)		Loamy Gleyed Matrix (F2)		Red Parent M	, ,
	Layers (A5) (LRR (C)	Depleted Matrix (F3)	_		n in Remarks)
1 cm Mud	k (A9) (LRR D)		Redox Dark Surface (F6)			•
_ Depleted	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)			
_ Thick Dar	k Surface (A12)		Redox Depressions (F8)	³ Inc	dicators of hydi	ophytic vegetation and
_ Sandy Mi	ucky Mineral (S1)		Vernal Pools (F9)	V	vetland hydrolo	gy must be present,
	eyed Matrix (S4)			·	ınless disturbe	d or problematic.
estrictive La	ayer (if present):					
Type:			=2			
	hes):		d, but no we s	1 -	ric Soil Prese	nt? Yes No
			d, but no we s	1 -		nt? Yes No
emarks:	luder cot		d, but no we	1 -		nt? Yes No
OROLOG	lnder Cot	for were		1 -	esant	
emarks: /DROLOG /etland Hyd	by Der Cot	for were	theck all that apply)	1 -	Secondary Ir	ndicators (2 or more required)
POROLOGI Petland Hydinimary Indication	FY rology Indicators: ators (minimum of o	for were	heck all that apply) Salt Crust (B11)	1 -	Secondary Ir	ndicators (2 or more required) arks (B1) (Riverine)
DROLOG etland Hydicimary Indica Surface V High Wate	or Cotton	for were	theck all that apply) Salt Crust (B11) Biotic Crust (B12)	1 -	Secondary Ir Water M Sedimer	ndicators (2 or more required) arks (B1) (Riverine) nt Deposits (B2) (Riverine)
PROLOGI Vetland Hydicimary Indica Surface V High Wate Saturation	rology Indicators: ators (minimum of o Vater (A1) er Table (A2)	for were	theck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic invertebrates (B13)	1 -	Secondary Ir Water M Sedimer Drift Dep	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) posits (B3) (Riverine)
PROLOGIES Surface V High Water Mater Marks:	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriveri	ne required; c	heck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	ioils pr	Secondary Ir Water M Sedimer Drift Dep	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) asits (B3) (Riverine) a Patterns (B10)
PROLOGI Vetland Hydician Indica Surface V High Wate Saturation Water Ma	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriveri Deposits (B2) (Non	ne required; c	heck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along	Living Roots (C3)	Secondary Ir — Water M — Sedimer — Drift Dep — Drainage — Dry-Sea	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) acits (B3) (Riverine) acits (B10) son Water Table (C2)
/DROLOG /etland Hyderimary Indica _ Surface V _ High Wate _ Saturation _ Water Ma _ Sediment _ Drift Depo	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriveri Deposits (B2) (Non posits (B3) (Nonriveri	ne required; c	heck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4	Living Roots (C3)	Secondary Ir Water M Sedimer Drift Dep Drainage Dry-Sea Crayfish	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) aosits (B3) (Riverine) a Patterns (B10) son Water Table (C2) Burrows (C8)
/DROLOG //etland Hyderimary Indicate _ Surface V _ High Wate _ Saturation _ Water Ma _ Sediment _ Drift Depo	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriveri Deposits (B2) (Non sits (B3) (Nonriveri oil Cracks (B6)	ne required; c	sheck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	Living Roots (C3)	Secondary Ir Water M Sedimer Drift Dep Drainage Dry-Sea Crayfish Saturatio	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) aosits (B3) (Riverine) a Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C
/DROLOG /etland Hydrimary Indica _ Surface V _ High Wate _ Saturation _ Water Ma _ Sediment _ Drift Depo	rology Indicators: stors (minimum of or Vater (A1) er Table (A2) in (A3) irks (B1) (Nonriveri Deposits (B2) (Nonriveri soil Cracks (B6) in Visible on Aerial II	ne required; c	Salt Crust (B11) Salt Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled Thin Muck Surface (C7)	Living Roots (C3)	Secondary Ir Water M Sedimer Drift Dep Drainage Dry-Sea Crayfish Saturatic Shallow	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) aosits (B3) (Riverine) a Patterns (B10) son Water Table (C2) Burrows (C8) an Visible on Aerial Imagery (C) Aquitard (D3)
/DROLOG /etland Hydinimary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriveri Deposits (B2) (Non sits (B3) (Nonriveri soil Cracks (B6) n Visible on Aerial II ained Leaves (B9)	ne required; c	sheck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	Living Roots (C3)	Secondary Ir Water M Sedimer Drift Dep Drainage Dry-Sea Crayfish Saturatic Shallow	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) aosits (B3) (Riverine) a Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C
/DROLOG /etland Hydinimary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta	rology Indicators: stors (minimum of orvater (A1) er Table (A2) n (A3) rks (B1) (Nonriver) Deposits (B2) (Nonriver) soil Cracks (B6) n Visible on Aerial II stand Leaves (B9) ations:	ne required; c	heck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks)	Living Roots (C3)	Secondary Ir Water M Sedimer Drift Dep Drainage Dry-Sea Crayfish Saturatic Shallow	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) aosits (B3) (Riverine) a Patterns (B10) son Water Table (C2) Burrows (C8) an Visible on Aerial Imagery (C) Aquitard (D3)
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/DROLOG /etland Hydica _ Surface V _ High Water Ma _ Sediment _ Drift Depo _ Surface S _ Inundation _ Water-Stateld Observa	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriveri Deposits (B2) (Non visits (B3) (Nonriveri ioil Cracks (B6) n Visible on Aerial II atined Leaves (B9) attions: Present? Yeresent?	ne required; co	sheck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	Living Roots (C3)	Secondary Ir Water M Sedimer Drift Dep Drainage Dry-Sea Crayfish Saturatic Shallow	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) aosits (B3) (Riverine) a Patterns (B10) son Water Table (C2) Burrows (C8) an Visible on Aerial Imagery (C) Aquitard (D3)
/DROLOG /etland Hydinimary Indica _ Surface V _ High Wate _ Saturation _ Water Ma _ Sediment _ Drift Depo _ Surface S _ Inundation _ Water-State /eteld Observer //ater Table Paturation Pre-	rology Indicators: ators (minimum of orvater (A1) er Table (A2) in (A3) in (A3) in (B1) (Nonriver) beposits (B2) (Nonriver) ioil Cracks (B6) in Visible on Aerial In ained Leaves (B9) ations: r Present? resent? Yeresent? Yeresent?	ne required; co	heck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks)	Living Roots (C3)	Secondary Ir Water M Sedimer Drift Dep Drainage Dry-Sea Crayfish Saturatic Shallow FAC-Nei	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) aosits (B3) (Riverine) a Patterns (B10) son Water Table (C2) Burrows (C8) an Visible on Aerial Imagery (C) Aquitard (D3)
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VDROLOG Vetland Hyde Trimary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Stateld Observation Vater Table F aturation Prencludes capil	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriveri Deposits (B2) (Non visits (B3) (Nonriveri oil Cracks (B6) n Visible on Aerial II ained Leaves (B9) ations: Present? Present? Visent? Visent? Visent?	ne required; c	sheck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	Living Roots (C3)	Secondary Ir Water M Sedimer Drift Dep Drainage Dry-Sea Crayfish Saturatic Shallow FAC-Nei	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) assits (B3) (Riverine) a Patterns (B10) ason Water Table (C2) Burrows (C8) an Visible on Aerial Imagery (C) Aquitard (D3) atral Test (D5)
YDROLOG Vetland Hydi Primary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta Veter Table F eaturation Pre Includes capil	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriveri Deposits (B2) (Non visits (B3) (Nonriveri oil Cracks (B6) n Visible on Aerial II ained Leaves (B9) ations: Present? Present? Visent? Visent? Visent?	ne required; c	sheck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	Living Roots (C3)	Secondary Ir Water M Sedimer Drift Dep Drainage Dry-Sea Crayfish Saturatic Shallow FAC-Nei	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) assits (B3) (Riverine) a Patterns (B10) ason Water Table (C2) Burrows (C8) an Visible on Aerial Imagery (C) Aquitard (D3) atral Test (D5)
VDROLOG Vetland Hydi Irimary Indica Surface V High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Stated Observation Water Table F aturation Pre Includes capill Describe Reco	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriveri Deposits (B2) (Nonriveri soil Cracks (B6) n Visible on Aerial II ained Leaves (B9) ations: Present? Present? Visent? Present? Visent? Present (Stream	ne required; co	sheck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Living Roots (C3)	Secondary Ir Water M Sedimer Drift Dep Drainage Dry-Sea Crayfish Saturatic Shallow FAC-Nei	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) assits (B3) (Riverine) a Patterns (B10) ason Water Table (C2) Burrows (C8) an Visible on Aerial Imagery (C) Aquitard (D3) atral Test (D5)
/DROLOG /etland Hydinimary Indica _ Surface V _ High Water _ Saturation _ Water Ma _ Sediment _ Drift Depo _ Surface S _ Inundation _ Water-Statel Observation //ater Table Performed Secribe Recommendation _ Interest Secribe Recommendation //ater Table Performed Secribe Recommendation _ Commendation Prescribe Recommendation _	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriveri Deposits (B2) (Non visits (B3) (Nonriveri oil Cracks (B6) n Visible on Aerial II ained Leaves (B9) ations: Present? Present? Visent? Visent? Visent?	ne required; co	sheck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Living Roots (C3)	Secondary Ir Water M Sedimer Drift Dep Drainage Dry-Sea Crayfish Saturatic Shallow FAC-Nei	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) assits (B3) (Riverine) a Patterns (B10) ason Water Table (C2) Burrows (C8) an Visible on Aerial Imagery (C) Aquitard (D3) atral Test (D5)
/DROLOG /etland Hydinimary Indica _ Surface V _ High Water _ Saturation _ Water Ma _ Sediment _ Drift Depo _ Surface S _ Inundation _ Water-StateId Observation //ater Table Performed Secribe Recommendation _ Interest Secribe Recommendation //ater Table Performed Secribe Recommendation	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) (Nonriveri Deposits (B2) (Nonriveri soil Cracks (B6) n Visible on Aerial II ained Leaves (B9) ations: Present? Present? Visent? Present? Visent? Present (Stream	ne required; co	sheck all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Depth (inches):	Living Roots (C3)	Secondary Ir Water M Sedimer Drift Dep Drainage Dry-Sea Crayfish Saturatic Shallow FAC-Nei	adicators (2 or more required) arks (B1) (Riverine) at Deposits (B2) (Riverine) assits (B3) (Riverine) a Patterns (B10) ason Water Table (C2) Burrows (C8) an Visible on Aerial Imagery (C) Aquitard (D3) atral Test (D5)

Project/Site: PSRP - WLD City/County:	Sampling Date: 9/2 1/6
Project/Site: City/County:	State: C+ Sampling Point: 2 - I
Investigator(s) Darren Burton, Nick Wagner Section, Township, Ra	inge:
Landform (hillslope, terrace, etc.): Local relief (concave,	convex, none):Slope (%):
Subregion (LRR): Lat:	Long: - 117. 09' 16.03 Datum:
Landform (hillslope, terrace, etc.): Local relief (concave, Subregion (LRR): Lat: 33 , / 6 / 19,55 Soil Map Unit Name:	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _	
Are Vegetation, Soil, or Hydrology significantly disturbed? Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point I	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sampler	1.
Hydric Soil Present? Yes No	
Wetland Hydrology Present? Yes No	nur resNo
Remarks:	
Attach B Map; W-999; where W- polyg	on interrects with Row
VEGETATION – Use scientific names of plants.	M · · · · · · · · · · · · · · · · · · ·
Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 1 2 % Cover Species? Status 1. Elder herry (Sambucus night) 20 UPL	Number of Dominant Species
2.	That Are OBL, FACW, or FAC:(A)
3.	Total Number of Dominant Species Across All Strata: (B)
4	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:) = Total Cover	That Are OBL, FACW, or FAC: (A/B)
1	Prevalence Index worksheet:
2,	Total % Cover of: Multiply by:
3	OBL species x 1 =
4	FACW species x 2 =
5	FAC species x 3 =
Herb Stratum (Plot size: = Total Cover	FACU species x 4 = UPL species x 5 =
1. Bromes (Browns sp.) 50 UPL	Column Totals: (A) (B)
2	
3	Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
4	Dominance Test is >50%
5	Prevalence Index is ≤3.0¹
7	Morphological Adaptations ¹ (Provide supporting
8.	data in Remarks or on a separate sheet)
<u>55</u> = Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	Nedicates of budge sell and water dibudges and
1,	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2 = Total Cover	Hydrophytic
% Bare Ground in Herb Stratum50 % Cover of Biotic Crust	Vegetation
	Present? Yes No
Remarks: Upsloye from creek; creek does no with ROW. No intersecting work	of appear to insect
ith ROW. No interception	<i>U</i> '
Will Charles To The Control Was E	with the second
WO(N(nace = unlas)	

Sampling Point:	
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Profile Description: (Describe to the de	Redox Features	
(inches) Color (moist) %	Color (moist) % Type¹ Lo	
12' 63		7,5YR
	·	
	n	
		:
	S)====================================	
	··	
t — t — t = t	49	
¹ Type: C=Concentration, D=Depletion, RM	//=Reduced Matrix, CS=Covered or Coated Sa	nd Grains. ² Location: PL=Pore Lining, M=Matrix
Hydric Soil Indicators: (Applicable to a		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	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)	Other (Explain in Nemarks)
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 Mucky Milleral (S1) Sandy Gleyed Matrix (S4)	Vernal Fools (F9)	unless disturbed or problematic.
Restrictive Layer (if present):		unless disturbed of problematic.
Type:		<u></u>
Depth (inches):		Hydric Soil Present? Yes No
Remarks:	M of 1.	
Remarks: Above OHW	of creek	
_	0	
HYDROLOGY		X
Wetland Hydrology Indicators:		
	ed; check all that apply)	Secondary Indicators (2 or more required)
Primary Indicators (minimum of one require		
Primary Indicators (minimum of one require Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Primary Indicators (minimum of one require 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)
Primary Indicators (minimum of one require 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)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Primary Indicators (minimum of one require 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)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living 	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
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 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) GRoots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
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	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) GRoots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
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 (Based of the control of the contr	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) G Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) S (C6) Saturation Visible on Aerial Imagery (C9)
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 (Bay Water-Stained Leaves (B9) Field Observations:	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) GRoots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
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 (Based Charles) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) GRoots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
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 (Bay) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) GRoots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
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 (Bay) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) GRoots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
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 (Based Control of Control	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Depth (inches):	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 Hydrology Present? Yes No
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 (Based of the Surface Water Present? Water Table Present? Yes Saturation Present? Yes [Includes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Depth (inches):	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 Hydrology Present? Yes No
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 (Based Control of Control	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Depth (inches):	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 Hydrology Present? Yes No
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 (Baser) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, material)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Depth (inches):	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 Hydrology Present? Yes No
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 (Based Control of Control	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Depth (inches):	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 Hydrology Present? Yes No
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 (Baser) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, material)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Depth (inches):	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 Hydrology Present? Yes No
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 (Baser) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, manual contents)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Depth (inches):	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 Hydrology Present? Yes No
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 (Baser) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, material)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Crayfish Burrows (C8) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No

Project/Site: PSRP - WLD	City/County: San .	Dicas SD Sampling Date: 09/21/
Applicant/Owner: SDG3E; c/o Insignia	ENV.	State: $C\lambda$ Sampling Date: $\frac{9}{3}$
Investigator(s): Darren Burton, Nick Wagner	Section, Township, Rai	nge:
Landform (hillslope, terrace, etc.):	Local relief (concave, o	convex, none): Slope (%):
Subregion (LRR): Lat:	33 04 00935	Long: -117 03 43,727 Datum:
Soil Map Unit Name:	98.21 m	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	f year? Yes No _	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significan	ntly disturbed? Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showi	ng sampling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	- Is the Sampled	Area
Hydric Soil Present? Yes No	within a Wetlan	
Wetland Hydrology Present? Yes No		
Remarks:		
Attach B Map; W-383; Wor	K space inte	resects with manual (1)
VEGETATION – Use scientific names of plants.		Marie Co.
<u></u>	ute Dominant Indicator	Dominance Test worksheet:
	ver Species? Status	Number of Dominant Species
1	<u> </u>	That Are OBL, FACW, or FAC: (A)
2,		Total Number of Dominant
3.		Species Across All Strata: (B)
4	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW, or FAC: (A/B)
1		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3		OBL species x 1 =
4		FACW species x 2 = FAC species x 3 =
0	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size:		UPL species x 5 =
1. Typha latilola 7	OBL-	Column Totals: (A) (B)
2 Anemopsis californica It	OBL	
3. Frankenia salina 15		Prevalence Index = B/A =
4		Hydrophytic Vegetation Indicators: Dominance Test is >50%
5		Prevalence Index is ≤3.0¹
6		Morphological Adaptations¹ (Provide supporting
7		data in Remarks or on a separate sheet)
0	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	Total Cover	
1:		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2		
	= Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cover of Bioti	c Crust	Present? Yes No
Remarks: Pit is between channel	of cathell	Vegetation Present? Yes No No
		1

c		ı	
J	u		ᆫ

Sampling Point: 3 -/

Profile Des	cription: (Describe	to the depth n				or confirm	n the absence o	f indicators.)
Depth	Matrix	% (ox Features %		Loc²	Tantura	Domadu
(inches)	Color (moist)		Color (moist)		туре	LOC		Remarks
-6	2.5/2	~ ~~ -~					Vi tine	3 1 12
12	23/2						V. fine	5 YR
		~						Loany
								/
-	•							
	·							
							v	
¹ Type: C=C	Concentration, D=Dep	letion, RM=Red	duced Matrix, C	S=Covered	l or Coate	d Sand Gr	ains. ² Locat	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Application	able to all LRF	Rs, unless othe	rwise note	ed.)			or Problematic Hydric Soils ³ :
Histoso	il (A1)		Sandy Red	ox (S5)			1 cm Mu	ck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped M	atrix (S6)			2 cm Mu	ck (A10) (LRR B)
	listic (A3)	,	Loamy Mud	cky Mineral	(F1)		Reduced	l Vertic (F18)
_ , ,	en Sulfide (A4)		Loamy Gle		(F2)		_	ent Material (TF2)
_	ed Layers (A5) (LRR C	;)	Depleted M	, ,			Other (E	xplain in Remarks)
	uck (A9) (LRR D)		Redox Dan	•	•			
	ed Below Dark Surface	e (A11)	Depleted D		. ,		3	
_	Park Surface (A12)		Redox Dep		-8)			hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo	IS (F9)				drology must be present,
	Gleyed Matrix (S4) Layer (if present):						Timess dist	urbed or problematic.
Type:								
	ach ach.						Under Call B	
Remarks:	nches):			1 12			Hydric Soil P	resent? Yes No
HYDROLC)GY							
	drology Indicators:							
•	cators (minimum of o	ne required: ch	eck all that appl	v)			Seconda	ary Indicators (2 or more required)
	Water (A1)	10 10 4 10 10 10 10 10 10 10 10 10 10 10 10 10	Salt Crust	20,00				er Marks (B1) (Riverine)
	ater Table (A2)		Biotic Crus				_	iment Deposits (B2) (Riverine)
Saturati	` '			vertebrates	(B13)			Deposits (B3) (Riverine)
	//arks (B1) (Nonriveri	ne)	Hydrogen		` '			nage Patterns (B10)
	nt Deposits (B2) (Non			Rhizospher		iving Root		Season Water Table (C2)
	posits (B3) (Nonriver			of Reduced				yfish Burrows (C8)
	Soil Cracks (B6)			n Reduction	•	•		uration Visible on Aerial Imagery (C9)
	ion Visible on Aerial Ir	nagen/ (R7)	Thin Muck			oons (Co	<u> </u>	llow Aquitard (D3)
,	Stained Leaves (B9)	nagery (D7)						
Field Obser	· <i>'</i>		Other (EX	olain in Rer	ilaiks)	_	FAC	-Neutral Test (D5)
		ne Ne	✓ Donth /:-	choc):				
Surface Wat	ter Present?	s No _	Depth (in Depth (in	cnes):		-		
Water Table								
Saturation P	resent? Ye pillary fringe)	es No _	Depth (in	ches):		_ Wetla	ind Hydrology F	Present? Yes No
	corded Data (stream	gauge, monitor	ing well, aerial	photos, pre	vious insp	pections), i	f available:	
Remarks:	is in it not not not mark	100% L	ul veg.	.0"				
Su	il not n	voist: d	ry at	10				
	later mark	s evic	deut.					

Project/Site: PSRP-WLD	City/County: Sau	Diego, SD Sampling Date: 09/21
Applicant/Owner: SD6 \$ E ; c/o Insignic	L ENV.	State: CA Sampling Point: 3 - 2
Investigator(s) Darren Burton, Nice Way		
Landform (hillslope, terrace, etc.):		
Subregion (LRR):	Lat: 33,04/60.76	8 Long: <u>117, 03' 42, 86</u> Datum:
Soil Map Unit Name:	97	, 24 m NWI classification:
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes No _	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology sig	nificantly disturbed? Are	"Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology na	turally problematic? (If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	howing sampling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes No	is the Samplet	1
Wetland Hydrology Present? Yes No	Withth a Wetia	nd? Yes No
Remarks: Pit is I meter upst	ope from hy	dric veg. boundary.
		mapped WL & work space
VEGETATION – Use scientific names of plants		1004
	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		
3.		Total Number of Dominant Species Across All Strata: (B)
4		Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW, or FAC: (A/B)
1		Prevalence Index worksheet:
2.		Total % Cover of:Multiply by:
3,		OBL species x 1 =
4		FACW species x 2 =
5,		FAC species x 3 =
Herb Stratum (Plot size:	= Total Cover	FACU species x 4 = UPL species x 5 =
	90 V FACW	Column Totals: (A) (B)
2. Ambrosia arfemisifolia		
3 Anemopsus californica	OISL	Prevalence Index = B/A =
4		Hydrophytic Vegetation Indicators: Dominance Test is >50%
5 6		Prevalence Index is <3.01
7		Morphological Adaptations¹ (Provide supporting
8.		data in Remarks or on a separate sheet)
3	100 = Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic.
	-C- = Total Cover	Hydrophytic
% Bare Ground in Herb Stratum % Cover of		Vegetation Present? Yes No
		100
Remarks: Mostly Curex sp., but	soil is dry	
U	ŕ	

Sampling Point: 3 - 2

Depth Matrix	Redox Features		
(inches) Color (moist) %		Loc ² Textur	e Remarks
6 4/3 100			5 Y R
12 4/3 100			5YR
Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all I Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layors (A5) (LRR C)	Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2)	Indica 1 (2 (Re Re	² Location: PL=Pore Lining, M=Matrix. tors for Problematic Hydric Soils ³ : cm Muck (A9) (LRR C) cm Muck (A10) (LRR B) iduced Vertic (F18) id Parent Material (TF2)
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9)	³Indica wetla	her (Explain in Remarks) tors of hydrophytic vegetation and and hydrology must be present, ss disturbed or problematic.
Restrictive Layer (if present):			
Туре:			7 =
Depth (inches):		Hydric	Soil Present? Yes No
YDROLOGY	8		
Wetland Hydrology Indicators:			
• •	; check all that apply)	Se	econdary Indicators (2 or more required)
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 Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S	ving 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)
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 Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7)	ving 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)
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 (B7) Water-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S	ving 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)
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 (B7) Water-Stained Leaves (B9) Field Observations:	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7)	ving Roots (C3) Soils (C6)	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)
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 (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks)	ving Roots (C3) Soils (C6)	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)
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 (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes N Saturation Present? Yes N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks)	ving Roots (C3) Soils (C6)	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)
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 (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N Saturation Present? Yes N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Lix Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks) O	ving Roots (C3) Soils (C6) Wetland Hydro	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)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Other (Explain in Remarks) O Depth (inches): O Depth (inches):	ving Roots (C3) Soils (C6) Wetland Hydro	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)

Project/Site: PSRP-WLD City/County: San 2	Dieso, SD Sampling Date: 9/21/16
Project/Site: PSRP-WLD City/County: San 2 Applicant/Owner: SDG = County County: San 2	State: CA Sampling Point: 3 - 3
Investigator(s): Darren Burton, Nick Wagner Section, Township, Ra	nge:
Landform (hillslope, terrace, etc.): Local relief (concave,	convex, none): Slope (%):
Subregion (LRR): Lat: 33, 63 56, 43 3	Long: 117. 63 44. 25 Datum:
Soil Map Unit Name:	, 88 m NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _	
Are Vegetation, Soil, or Hydrology significantly disturbed? Are	'Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point le	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: A Soil dry C I	nd? Yes No
Attach B Map; W-383; intersection	
*	of regret we p war response
VEGETATION – Use scientific names of plants. Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2	Total Number of Dominant
3	Species Across All Strata: (B)
4 = Total Cover = Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1	Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3	OBL species x 1 =
4	FACW species x 2 =
5,	FAC species x 3 =
Herb Stratum (Plot size:	FACU species x 4 = UPL species x 5 =
1. Anemorsus californica 75 / OBL	Column Totals: (A) (B)
2. Frankenia Salina 10 FACW	
3. Heliotrepium currisoviam 10 FACU	Prevalence Index = B/A =
4. Carex. praegracilis 5 FACW	Hydrophytic Vegetation Indicators: Dominance Test is >50%
5	Prevalence Index is ≤3.0¹
6	Morphological Adaptations ¹ (Provide supporting
8.	data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	Indicators of hydric soil and wetland hydrology must
2.	be present, unless disturbed or problematic.
= Total Cover	Hydrophytic Vegetation
70 Bard Gradia III Trop Gradaii 70 Grad or Brade Grade	Present? Yes No No
Remarks:	

	2	- 3
Sampling Point:	0	

SOIL

Depth Matrix	e depth needed to document the indicator or Redox Features		
		Loc ² Texture	Remarks
6 4/4 10	٥		10 YR
12 14/4 10	, 0		
			
			-
	 ,,		•
			5 9
Гуре: C=Concentration, D=Depletion	, RM=Reduced Matrix, CS=Covered or Coated S	Sand Grains. ² L	ocation: PL=Pore Lining, M=Matrix.
ydric Soil Indicators: (Applicable t	to all LRRs, unless otherwise noted.)	Indicator	s for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	1 cm	Muck (A9) (LRR C)
_ Histic Epipedon (A2)	Stripped Matrix (S6)		Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)		ced Vertic (F18)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Parent Material (TF2)
_ Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	Othe	r (Explain in Remarks)
_ 1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)		
_ Depleted Below Dark Surface (A1	,	3,	
_ Thick Dark Surface (A12)	Redox Depressions (F8)		s of hydrophytic vegetation and
_ Sandy Mucky Mineral (S1)	Vernal Pools (F9)		d hydrology must be present,
_ Sandy Gleyed Matrix (S4) estrictive Layer (if present):		unless	disturbed or problematic.
estrictive Layer (ii present).			
Tues			
Туре:			
Type: Depth (inches): emarks:		Hydric So	il Present? Yes No
Depth (inches):emarks:			
Depth (inches):emarks:			
Depth (inches):emarks: /DROLOGY /etland Hydrology Indicators:	? 12". Pill bug & Sp	riders a	8".
Depth (inches):emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one recommend)	? 12". Pill bug & Sp	riders a	
Depth (inches):emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one recommend) _ Surface Water (A1)	quired; check all that apply) Salt Crust (B11)	Second	8".
Depth (inches):emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one recommend)	quired; check all that apply)	Second	endary Indicators (2 or more required)
Depth (inches):emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one recommend) _ Surface Water (A1)	quired; check all that apply) Salt Crust (B11)	Second	endary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inches):emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one red _ Surface Water (A1) _ High Water Table (A2)	quired; check all that apply) Salt Crust (B11) Biotic Crust (B12)	Second	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inches):emarks: **TDROLOGY **Jetland Hydrology Indicators: rimary Indicators (minimum of one recommend of the control of the c	quired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Second	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (inches):emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one red _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) (Nonriverine)	quired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Second G	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Depth (inches):emarks: POROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one red Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	quired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi	Second Garage Ga	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)
Depth (inches):emarks: POROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one red Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	quired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) rine) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc	Second Garage Ga	endary 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)
Depth (inches):emarks: **Comparison of the property of	quired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc	Second Garage Ga	endary 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 (C8)
Depth (inches):emarks: POROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one red 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 Image	quired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sor	Second Garage Ga	endary 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 (CS) Shallow Aquitard (D3)
Depth (inches):emarks: POROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one red 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 Image Water-Stained Leaves (B9) ield Observations:	quired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sor	Second Garage Ga	endary 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 (CS) Shallow Aquitard (D3)
Depth (inches):emarks: POROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one red 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 Image Water-Stained Leaves (B9) veld Observations: urface Water Present? Yes	quired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Scr	Second Garage Ga	endary 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 (CS) Shallow Aquitard (D3)
Depth (inches):emarks: //DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one red _ 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 Image _ Water-Stained Leaves (B9) ield Observations: urface Water Present? Yes //ater Table Present? Yes	quired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sory (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Depth (inches):	ng Roots (C3)	endary 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 (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches):emarks: POROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one red	quired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Scr	ng Roots (C3)	endary 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 (C8) Shallow Aquitard (D3)
Depth (inches):emarks: POROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one red 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 Image Water-Stained Leaves (B9) Veter Table Present? Ves Vater Table Present? Ves vaturation Present?	quired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sory (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): Depth (inches):	Second Se	endary 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 (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches):emarks: POROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one red 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 Image Water-Stained Leaves (B9) eld Observations: urface Water Present? Yes daturation Present? Yes aturation Present? Yes aturation Present? Yes acturation Present? Yes	quired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sory (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Second Se	endary 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 (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches):emarks: POROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one red 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 Image Water-Stained Leaves (B9) eld Observations: urface Water Present? Yes daturation Present? Yes aturation Present? Yes aturation Present? Yes acturation Present? Yes	quired; check all that apply) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livi Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sory (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Second Se	endary 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 (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: PSRP- WLD City/County: 51	2, San D'ego Sampling Date: 900				
	State: Sampling Point: 3 - 4				
Investigator(s): D. Bur fun, N. Wagner Section, Township, Range:					
	e, convex, none): None Slope (%):				
Subregion (LRR): Lat: 33. 03'56. 0	53 Long: -117. 03 45,076 Datum:				
Soil Map Unit Name:	NWI classification:				
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No					
	e "Normal Circumstances" present? Yes No				
	needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling poin	t locations, transects, important features, etc.				
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Is the Sample within a Wet	1				
Remarks: No WL Sol/S,					
Attach B Map; W-383; intersec	tion of magged WL & Work				
VEGETATION – Use scientific names of plants.					
Tree Stratum (Plot size:) Absolute Dominant Indicator % Cover Species? Status					
1	That Are OBL, FACW, or FAC:(A)				
2	Total Number of Dominant				
3. 4.	Species Across All Strata: (B)				
= Total Cover Sapling/Shrub Stratum (Plot size:)	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)				
1	Prevalence Index worksheet:				
2	Total % Cover of: Multiply by:				
3	OBL species x 1 =				
4	FACW species x 2 =				
5	x 3 =				
Herb Stratum (Plot size: = Total Cover	FACU species x 4 =				
1. Anemorpous californica 85 OBL	I Column Totale: (A) (R) I				
2 Carex pracgracilis 10 FACI					
3. Heliotropium curisavicum 5 FAC	_				
4	Hydrophytic Vegetation Indicators:				
5	Dominance Test is >50%				
6	_ Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting				
7	data in Remarks or on a separate sheet)				
100 = Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)				
Woody Vine Stratum (Plot size:) 1	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
2	-				
% Bare Ground in Herb Stratum % Cover of Biotic Crust	Hydrophytic Vegetation Present? Yes No				
Remarks:					

SOIL

Depth Matrix	Redo	x Features					
nches) Color (moist) %	Color (moist)	%	Type ¹ L	.oc²	Texture	Remark	s
6 3/3 100	Drawal	<u> </u>			very Fire	Chayry	0am, 1
18	00 th					C / /	
			220				
		-					
/pe: C=Concentration, D=Depletion, RM=	=Reduced Matrix. CS	S=Covered or	Coated S	and Gra	ins. ² Locat	ion: PL=Pore Lining	. M=Matrix.
dric Soil Indicators: (Applicable to all						r Problematic Hydi	
Histosol (A1)	Sandy Redo	x (S5)			1 cm Mu	ck (A9) (LRR C)	
Histic Epipedon (A2)	Stripped Ma	trix (S6)			2 cm Mu	ck (A10) (LRR B)	
Black Histic (A3)	Loamy Mucl	ky Mineral (F	1)		Reduced	Vertic (F18)	
Hydrogen Sulfide (A4)	Loamy Gley					ent Material (TF2)	
Stratified Layers (A5) (LRR C)	Depleted Ma	atrix (F3)	,		Other (E)	kplain in Remarks)	
1 cm Muck (A9) (LRR D)	Redox Dark	Surface (F6)		•		
Depleted Below Dark Surface (A11)		ark Surface (
Thick Dark Surface (A12)		essions (F8)			3Indicators of	hydrophytic vegetati	on and
Sandy Mucky Mineral (S1)	Vernal Pools	s (F9)				drology must be pre-	
Sandy Gleyed Matrix (S4)	91				unless dist	urbed or problemation	
strictive Layer (if present):							
Type:				1			
Depth (inches):					Hydric Soil Pr	resent? Yes	No
otherwise d	tinin upper	811 (100	lox-li	Ve).	, A few	pill bugs	@ ~10",
	~/ 0 10	11.		,		0	

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; ch	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)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living R	oots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled 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:		
Surface Water Present? Yes No _	Depth (inches):	
Water Table Present? Yes No _	Depth (inches):	1
Saturation Present? Yes No _ (includes capillary fringe)	Depth (inches): We	etland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspections	i), if available:
		¥
Remarks: Hydric veg, l	nut soil dry \$ low	my throughout.

Project/Site: PSRP-WLD	City/County: SD, SD Sampling Date: 69/21/16
Applicant/Owner: 5064E	State: CA Sampling Point: 5-1
	Section, Township, Range:
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none): None Slope (%): U
Subregion (LRR): Lat:	3 03 20, 517 Long: -117, 03 57, 19 Datum:
Soil Map Unit Name:	96,27 m NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	within a Wetland?
Wetland Hydrology Present? Yes No	
Remarks: Mule fat scrub with some	tamarisk. Soil is sandy, dry.
No exidence of flooding	; ie, watermarks, etc. W-1377; intersection
VEGETATION – Use scientific names of plants.	& marred WL & war
·	e Dominant Indicator Dominance Test worksheet:
NAMES OF THE PROPERTY OF THE P	Species? Status Number of Dominant Species
1.	That Are OBL, FACW, or FAC: (A)
2	
4.	Species Across All Strata: (B)
	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:	FACIN
1. Backharis salicifolia 85 2. Tanarix ramosissima 5	Prevalence Index worksheet: Total % Cover of: Multiply by:
3	
4.	FACW species × 2 =
5.	FAC species x 3 =
	_ = Total Cover
Herb Stratum (Plot size:)	UPL species x 5 =
2.	Column Totals (A) (B)
3.	
4	Hydrophytic Vegetation Indicators:
5	
6	
7	data in Remarks or on a separate sheet)
8	= Total Cover Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:	
1	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2	= Total Cover Hydrophytic
	Vegetation /
% Bare Ground in Herb Stratum % Cover of Biotic C	
Remarks: Open Mulerat / tanarix ser	-ub,
/	

Sampling Point:

Depth Matrix	depth needed to document the indicator or o	,
(inches) Color (moist) %	Redox Features Color (moist) % Type ¹ L	oc ² Texture Remarks
6 4/4 100		
		S mixed grain sizes
12 4/4 100		2 7,5 40
	to med. f	ne \ 75/P
		
<u> </u>	- 1	
¥		

¹ Tune: C=Concentration D=Depletion F	2M-Dadward Matrix, CS-Covered at Costad S	and Crains 2 parties: DL-Bara Lining M-Matrix
Hydric Soil Indicators: (Applicable to	RM=Reduced Matrix, CS=Covered or Coated S	and Grains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
		_
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2) Black Histic (A3)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18) Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	Red Parent Material (1F2) Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	Other (Explain in Nemarks)
Depleted Below Dark Surface (A11)	Redox Dark Surface (Fd) 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:		
Depth (inches):		Hydric Soil Present? Yes No
		, V. fine to med, fine.
ANDROI OGV		
Wetland Hydrology Indicators:	ired; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requ		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requ Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requirements 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 requ 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)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requisite Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living 	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required in the 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 Livin Presence of Reduced Iron (C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) 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) e) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) The provious (C3) Trayfish Burrows (C8) 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) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Noxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc (B7) Thin Muck Surface (C7)	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 Hydrology Indicators: Primary Indicators (minimum of one requisited Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) The provious (C3) Trayfish Burrows (C8) 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) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Noxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc (B7) Thin Muck Surface (C7)	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 Hydrology Indicators: Primary Indicators (minimum of one requisions) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations:	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Noxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc (B7) Thin Muck Surface (C7)	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 Hydrology Indicators: Primary Indicators (minimum of one requisions) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sci (B7) Thin Muck Surface (C7) Other (Explain in Remarks)	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)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one requisions) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes [includes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	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 Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one requisions) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes [includes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	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 Hydrology Present? Yes No
Primary Indicators (minimum of one requestions) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes [includes capillary fringe]	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	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 Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge,	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	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 Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one requestions) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge,	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	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 Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one requested Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge,	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	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 Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one requestions) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge,	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	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 Hydrology Present? Yes No

Project/Site: PSRP/MCASMiramar	City/County: SD Sampling Date: 10/24/1
Applicant/Owner: SDG \$ B / M (A S	miramal State: CA Sampling Point: 1
Investigator(s): DB, NW	Section, Township, Range:
	Local relief (concave, convex, none): Slope (%):
Subregion (LRR): Lat:	Long: Datum:
Soil Map Unit Name:	NWI classification;
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significa	antly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally	y problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map show	ring sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrophytic Vegetation Present? Yes No Wetland Hydrophytic Vegetation Present? Yes No Wetland Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present?	Is the Sampled Area within a Wetland? Yes No No Rocky, dry, no evidence of recent flow.
Drought Conditions.	W-1268
VEGETATION – Use scientific names of plants.	
1. 2. 3. 4. Sapling/Shrub Stratum, (Plot size: \	Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: OBL Species FACW Species FACW Species FACU Species FAC
8	= Total Cover Problematic Hydrophytic Vegetation' (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	= Total Cover tic Crust Hydrophytic Vegetation Present? Yes No

Sampling	Point:	
Sambillio	Point:	

Profile Description: (Describe to the depth r	eeded to document the	indicator or confi	rm the absence of indicators.)
Depth Matrix	Redox Feature	es	-:
	Color (moist) %	Type Loc2	
7 6/4 100			Fine 7.5 YR
			to cobble
		19	- A
		43	192
			- C
The second secon			
Type: C=Concentration, D=Depletion, RM=Red			The state of the s
Hydric Soil Indicators: (Applicable to all LRF		ed.)	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 Minera		Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix	(F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D)	Depleted Matrix (F3)Redox Dark Surface	(EG)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Redox Dark Surface Depleted Dark Surface	` '	
Thick Dark Surface (A11)	Redox Depressions (³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	, 0,	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	voinarr ooid (i o)		unless disturbed or problematic.
Restrictive Layer (if present):			amos distance of procionicals.
Type: rock			<i>></i>
Depth (inches):	•		Hydric Soil Present? Yes No
Remarks:	-		Tryunc Son Fresent: TesNO
Dit as ducin and	Danly pay	Del reg	ioni dal como La but
I'm was a grant	mound by	ded reg	
no evidence of su	face mid	gargar.	10.0.11.11.11
scour onedges of	channel;	some 1	raceing metry cossie.
HYDROLOGY			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required; ch	ack all that annly)		Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11)		Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (B12)	· (D40)	Sediment Deposits (B2) (Riverine)
Saturation (A3)	Aquatic Invertebrate	' '	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Oc		Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizosphe		
Drift Deposits (B3) (Nonriverine)	Presence of Reduce	` '	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction	,	• • •
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (•	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Re	marks)	FAC-Neutral Test (D5)
Field Observations:	V		
	Depth (inches):		
Water Table Present? Yes No _			_
Saturation Present? Yes No _	Depth (inches):	We	tland Hydrology Present? Yes No
(includes capillary fringe)	ing well corial states	aulous inons sties \) if qualiable:
Describe Recorded Data (stream gauge, monitor	mg well, aerial photos, pro	evious inspections;	j, ii avaiiable:
Remarks:			

WETLAND DETERMINATION DATA FORM – Arid West Region SDG & CAS Mirane State: CA Sampling Date: 10/24/16
SDG & Sampling Point: 2 Applicant/Owner: Section, Township, Range: _____ Investigator(s): Landform (hillslope, terrace, etc.): ______ Local relief (concave, convex, none); _____ Slope (%): ____ ______ Lat: ______ Datum: ______ Subregion (LRR): ____ Soil Map Unit Name: _____ NWI classification; ____ Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No_____ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes _____ No ____ Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? (If needed, explain any answers in Remarks.) Are Vegetation _____, Soil _____, or Hydrology ____ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: is dry, cobbled, some sand, some surface crades Drought conditions. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: _____) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 1._____ ____ (A) Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: _ (A/B) Sapling/Shrub Stratum (Plot size: \ \ \ Mulefat (Baccharis Salicibilia) 10) Sapling/Shrub Stratum (Plot size: _\ Prevalence Index worksheet: 2. Broom backharis (B. sarothroides(20) Total % Cover of: Multiply by: 3. Tree tobacco (Nicotiana glanca) OBL species _____ x 1 = _____ FACW species _____ x 2 = ____ FAC species _____ x 3 = ____ FACU species _____ x 4 = ____ = Total Cover Herb Stratum (Plot size: ___ UPL species _____ x 5 = ____ 1. Phalaris sy. Column Totals: _____ (A) _____ (B) Deinandra fasiculata Erigeron canadensis Prevalence Index = B/A = FAC Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ ___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) // = Total Cover Woody Vine Stratum (Plot size:) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic = Total Cover Vegetation Present? % Bare Ground in Herb Stratum ____ _ % Cover of Biotic Crust _ channel bed mainly unvegetated.

Sampling Point:

Profile Description: (Describe to the d	lepth needed to document the indicator or	confirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %		_oc² _ Texture _ Remarks
10 7/4 100		Fine 10 YR
		to large,
		0
 		
	 	
¹ Type: C=Concentration D=Depletion F	RM=Reduced Matrix, CS=Covered or Coated S	and Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to		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)	1
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) Restrictive Layer (if present):		unless disturbed or problematic.
Type: rock		
Depth (inches): 1D		Hydric Soil Present? Yes No
		Hydric Soil Present? Yes No
Remarks:		0 1 1
Sandy, loan, a	ubble. Fairly defi	ned channel; II wide.
	O	
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one requi	red; 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)	Aguatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonrivering		
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled So	
Inundation Visible on Aerial Imagery		Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes	_ No Depth (inches):	=
Water Table Present? Yes	1/	2
Saturation Present? Yes		Wetland Hydrology Present? Yes No
(includes capillary fringe)	* * * *	
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, previous inspec	tions), if available:
Remarks:		

WETLAND DETERMINATION DATA FORM – Arid West Region MCAS Miramar Applicant/Owner: Investigator(s): Section, Township, Range: Landform (hillslope, terrace, etc.): ___ Local relief (concave, convex, none): _ Slope (%): Subregion (LRR): ______ Lat: 32.89264 Datum: Soil Map Unit Name: ____ NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No _____ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes _____ No___ 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? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes Remarks: W-1386 VEGETATION - Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: _____) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) 100 Percent of Dominant Species That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: 1. Bram bucharis (Bauharis sarothroides Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ 3._____ FACW species _____ x 2 = ____ FAC species _____ x 3 = ____ FACU species _____ x 4 = _____ = Total Cover Herb Stratum (Plot size: UPL species _____ x 5 = ____ Column Totals. _____ (A) _____ (B) Prevalence index = B/A = Hydrophytic Vegetation Indicators: ➤ Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size: ____) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic = Total Cover Vegetation % Bare Ground in Herb Stratum _____ _____ % Cover of Biotic Crust _ Present? Remarks: Some WL regetation, but all dry and stressed

Sampling Point:

Profile Description: (Describe to the de	Redox Features	
(inches) Color (moist) %		DC ² Texture Remarks
10.5 7.5 YR 100	9"	Fine Uniform
		 ;
¹ Type: C=Concentration, D=Depletion, RM	M=Reduced Matrix, CS=Covered or Coated Sa	nd Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to a	II 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: rock		
Depth (inches): 10,5		Hydric Soil Present? Yes No
		Tryunc don't resent: Tes No
Remarks:	e features.	
Cobble, no hydra	J. Commission of	
×		
,		
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:		
Wetland Hydrology Indicators:	ed; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require		Secondary Indicators (2 or more required) Water Marks (R1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require 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 require 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 require 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)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living 	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require 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)	 Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living 	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
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 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil	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 (Ca
Wetland Hydrology Indicators: Primary Indicators (minimum of one required and indicators) 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 (Basel Control of the control o	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil: 37) Thin Muck Surface (C7)	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)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required and indicators) 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 (Based of the control of the co	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil. 37) Thin Muck Surface (C7) Other (Explain in Remarks)	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)
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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 (Bay) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil: 37) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (City Shallow Aquitard (D3) FAC-Neutral Test (D5)
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 (Bay) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil: 37) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	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)
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 (Bay) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes [includes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) gs (C6) Saturation Visible on Aerial Imagery (City) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required and indicators) 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 (Bay Water-Stained Leaves (B9)) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Cincludes capillary fringe) Describe Recorded Data (stream gauge, marks)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil: Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) gs (C6) Saturation Visible on Aerial Imagery (City) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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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 (Bay Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes [includes capillary fringe] Describe Recorded Data (stream gauge, marks)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil: Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) gs (C6) Saturation Visible on Aerial Imagery (City) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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 (Bay Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes [includes capillary fringe] Describe Recorded Data (stream gauge, marks)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil: Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): No Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) g Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) gs (C6) Saturation Visible on Aerial Imagery (City) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: PSRP/MCAS Mirama	ur	City/County:	D	Sampling Date: \(\frac{\lambda}{2}\)	11/16
Applicant/Owner: SDG \$E / MCP	+ 5		State: CA	Sampling Point:	116-02
Investigator(s): DB, MT			nge:		
Landform (hillslope, terrace, etc.):	-	Local relief (concave,	convex, none):	_	%): ك
Subregion (LRR):	Lat: 3 -	2.89259	Long: -117.095	9/ Datum:	,
Soil Map Unit Name:			Long: -117. 095 627' NWI classifi	cation:	
Are climatic / hydrologic conditions on the site typical for th	is time of ve		(If no, explain in I		
Are Vegetation, Soil, or Hydrology			"Normal Circumstances"		No
Are Vegetation, Soil, or Hydrology			eeded, explain any answ		
SUMMARY OF FINDINGS – Attach site map				,	res, etc.
Hydrophytic Vegetation Present? Yes	alo.				
Hydrophytic Vegetation Present? Yes ! Hydric Soil Present? Yes !	No	Is the Sample			
Wetland Hydrology Present? Yes	- /	within a Wetla	nd? Yes	No	
Remarks: Drought Condition	SiV	ery dry.		-	
(Sampling point in W-1386	on	map)			
VEGETATION - Use scientific names of plan	nts.	V			
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test wor		
1			Number of Dominant S That Are OBL, FACW,		(A)
2					_ ` '
3.			Total Number of Domi Species Across All Str		(B)
4			Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size:	7	_ = Total Cover	That Are OBL, FACW,	or FAC:	(A/B)
1. Muleful (Backoris salicifolia)	25	Y FAC	Prevalence Index wo	rksheet:	
2			Total % Cover of:	Multiply by:	
3				x 1 =	
4	-22-			x 2 =	
5.	0.5	T. 10	1	x3=	
Herb Stratum (Plot size:	23	_ = Total Cover		x 4 = x 5 =	
1. Browns sp.	40	Y UPL		(A)	
2. Cyperus sp.	25	Y FACW			
3. Curly duk (Rumex crispis	2 3	-A FAC		x = B/A =	
4. Jundes sp.		-n 08-	Hydrophytic Vegetat Dominance Test is		
5			Prevalence Index		
6.				aptations¹ (Provide supp	norting
7 8		·	data in Remark	s or on a separate she	et)
0	73	= Total Cover	Problematic Hydro	phytic Vegetation¹ (Exp	olain)
Woody Vine Stratum (Plot size:)		_	1		
1		=====	be present, unless dist	oil and wetland hydrolog curbed or problematic.	y must
2		- Total Cours			
	-	_ = Total Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum % Cove	er of Biotic C	Crust	Present? Ye	es No	
Remarks:					
Dry veg.					

Profile Description: (Describe to the Depth Matrix	Redox Features	3700000
(inches) Color (moist) %		c ² Texture Remarks
9 5/3 7,5 YR 10		Ane some cobble
		30,00 20,000
		 %
		
		
Trues CoConstanting DeBarteting	DM-Dadwad Make 00 Owned a Owned Co	2
Hydric Soil Indicators: (Applicable to	RM=Reduced Matrix, CS=Covered or Coated Sar	
		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Stratified Layers (A5) (LRR C)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	Red Parent Material (TF2)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	• •	
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: rock		
Depth (inches):		Hydric Soil Present? Yes No
I la Good color	Rucky Kebble through	hout.
Ceraporne obar,	cary poorte	
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one requ	uired: 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)	
Saturation (A3)		Sediment Deposits (B2) (Riverine)
` ` <i>'</i>	Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Sediment Deposits (B2) (Nonrivering)	ne) Oxidized Rhizospheres along Living	
Drift Deposits (B3) (Nonriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron Reduction in Tilled Soils	s (C6) Saturation Visible on Aerial Imagery (C9)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery	Recent Iron Reduction in Tilled Soils	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9)	Recent Iron Reduction in Tilled Soils	s (C6) Saturation Visible on Aerial Imagery (C9)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery	Recent Iron Reduction in Tilled Soils (B7) Thin Muck Surface (C7)	s (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations:	Recent Iron Reduction in Tilled Soils (B7) Thin Muck Surface (C7)	s (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations:	Recent Iron Reduction in Tilled Soils (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches):	s (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes	Recent Iron Reduction in Tilled Soils (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Recent Iron Reduction in Tilled Soils (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	S (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Recent Iron Reduction in Tilled Soils (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	S (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Recent Iron Reduction in Tilled Soils (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	S (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Recent Iron Reduction in Tilled Soils (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	S (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge)	Recent Iron Reduction in Tilled Soils (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	S (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge)	Recent Iron Reduction in Tilled Soils (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	S (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge)	Recent Iron Reduction in Tilled Soils (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	S (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge)	Recent Iron Reduction in Tilled Soils (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	S (C6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No

Project/Site: PSRP/MCAS Mirro	mar o	City/County:	Sampling Date: 1/1/16 State: Sampling Point: 1/1/16
Applicant/Owner: SDG JE /	TCAS	m160	State: Sampling Point:
Investigator(s): DB, MT		Section, Township, Ra	ange:
			convex, none): Slope (%):
			Long: Datum:
Soil Map Unit Name:	elevat	10u; 53	NWI classification:
Are climatic / hydrologic conditions on the site typical for	this time of yea	ar? Yes 📈 No _	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	_ significantly	disturbed? Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	_ naturally proi	blematic? (If n	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	p showing	sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Yes Yes	No	Is the Sampled within a Wetla	. /
Remarks: Potenticl Potenticl Basin W-1273	(@	ally Pr	7
VEGETATION – Use scientific names of pla	ants.		
<u>Tree Stratum</u> (Plot size:) 1		Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2. 3.			Total Number of Dominant Species Across All Strata: (B)
4		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1. Broom bucharis (B. sarofuro	100)2		Prevalence Index worksheet:
2.			Total % Cover of: Multiply by:
3			OBL species x 1 =
4			FACW species x 2 =
5.			FAC species x 3 =
1 2	_2_	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 1 2) 1. Juneus 24.	50	, OBL	UPL species x 5 =
2. Deinanda fasicutata		UPL	Column Totals: (A) (B)
3. Rumer crispis	-2	FAC	Prevalence Index = B/A =
4.			Hydrophytic Vegetation Indicators:
5			Dominance Test is >50%
6			— Prevalence Index is ≤3.01
7,			Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8	- 12		Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)	67	= Total Cover	Problemation (Jurophytio Vogetation (Explain)
1	_,		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2		= Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum/ & Cov			Present? Yes No
Remarks: Veg, mostly doy.	Potens	Asl pond	ing prior to deought

Sampling Point: _____

Profile Desc	ription: (Describe to the d	epth needed to document the in	dicator or confirm	n the absence of	indicators.)
Depth	Matrix	Redox Features			
(inches)	Color (moist) %		Type ¹ Loc ²		Remarks
8	10/R 5/3	5YR 5/8		Fine -	loan, sandy
					scattered redor
					<u></u>
		· ———			59
				10.2	
					
-		National Control of the Control of t			TAX
		M=Reduced Matrix, CS=Covered			ion: PL=Pore Lining, M=Matrix.
-		III LRRs, unless otherwise note	1.)		r Problematic Hydric Soils ³ :
Histosol	` '	Sandy Redox (S5)			ck (A9) (LRR C)
. —	pipedon (A2)	Stripped Matrix (S6)			ck (A10) (LRR B)
Black His	` '	Loamy Mucky Mineral	' '		Vertic (F18)
	n Sulfide (A4)	Loamy Gleyed Matrix (F2)		ent Material (TF2)
	Layers (A5) (LRR C)	Depleted Matrix (F3)	a \	Other (E)	cplain in Remarks)
	ck (A9) (LRR D) d Below Dark Surface (A11)	Redox Dark Surface (F	•		
	irk Surface (A12)	Depleted Dark Surface Redox Depressions (Fig. 2)		3Indicators of	hydrophytic vegetation and
ı —	lucky Mineral (S1)	Vernal Pools (F9)	"		drology must be present,
	ileyed Matrix (S4)	vernar r dois (1 3)			urbed or problematic.
	ayer (if present):			dilicas dist	arbed of problematic.
l	Rack	\$			
	1-1			I third at a Control	
Depth (inc	cnes):			Hydric Soil Pr	resent? Yes No
Remarks:	Ilai Gren, ol	ry, cobble at	211		
	cong lorry v.	g, come as	8,		
HYDROLO	CV.				
1	Irology Indicators:			928 69	N SAN COLUMN TO SAN TO
	ators (minimum of one requir	ed; check all that apply)			ry Indicators (2 or more required)
_	Water (A1)	Salt Crust (B11)		Wate	er Marks (B1) (Riverine)
High Wa	ter Table (A2)	Biotic Crust (B12)		Sedi	ment Deposits (B2) (Riverine)
Saturatio	on (A3)	Aquatic Invertebrates	(B13)	Drift	Deposits (B3) (Riverine)
Water Ma	arks (B1) (Nonriverine)	Hydrogen Sulfide Odo	r (C1)	Drai	nage Patterns (B10)
Sedimen	t Deposits (B2) (Nonriverine	e) Oxidized Rhizosphere	s along Living Roo	ts (C3) Dry-	Season Water Table (C2)
Drift Dep	osits (B3) (Nonriverine)	Presence of Reduced	Iron (C4)	Cray	rfish Burrows (C8)
Surface	Soil Cracks (B6)	Recent Iron Reduction	in Tilled Soils (C6) Satu	ration Visible on Aerial Imagery (C9)
Inundatio	on Visible on Aerial Imagery (B7) Thin Muck Surface (C	7)	Shal	low Aquitard (D3)
	ained Leaves (B9)	Other (Explain in Rem	•		-Neutral Test (D5)
Field Observ					
Surface Water		No Penth (inches):	1		
	December 165	No Depth (inches):			
Water Table	Present? Yes	No Depth (inches):			
Saturation Pr		No Depth (inches):	Wetla	ind Hydrology P	resent? Yes No
(includes cap Describe Rec		nonitoring well, aerial photos, prev	ious inspections) i	f available	
2000.100 1100	244 (2404111 34430, 1		.525 (1000000113), 1	. Grandolo.	
Domarica					
Remarks:	. 200	. 10 1	' was L		1.
Ver	lary, no	evidence of	recent	pund	ing.
0	0 /	0		V	

WEILAND DETE			- Aria west Region	
Project/Site: PERP/MCAS Mira	May Cit	y/County:		Sampling Date: 11/11/16
Applicant/Owner: SDG # E / M C)	AS,	mirano	State: CA	Sampling Point: 11116 -05
NR MT			ange:	
Landform (hillslope, terrace, etc.):	Lo	ocal relief (concave,	convex, none):	Slope (%):
Subregion (LRR):				
Soil Map Unit Name:				
Are climatic / hydrologic conditions on the site typical for th				
Are Vegetation, Soil, or Hydrology				resent? Yes No
Are Vegetation, Soil, or Hydrology			eeded, explain any answe	
SUMMARY OF FINDINGS - Attach site map			locations, transects	, important features, etc.
Hydric Soil Present? Wetland Hydrology Present? Yes N	No No No	Is the Sample within a Wetla	ind? Yes	_ No
Remarks: Wetland; stream, WL a lentified. (In W-	-1391	on may	ps) East si	de of access rod.
VEGETATION – Use scientific names of plan		V		
Tree Stratum (Plot size: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Absolute E	Dominant Indicator Species? Status	Dominance Test work	
1. Salix lasidepis	25	TACW	Number of Dominant Sp That Are OBL, FACW, of	
2.				10
3			Total Number of Domina Species Across All Stra	
4	-0-		Percent of Dominant Sp	pecies / 7 °/
Sapling/Shrub Stratum (Plot size:	23 =	Total Cover	That Are OBL, FACW, o	or FAC: (A/B)
1. Tunka lattitolia	20	VOBL	Prevalence Index worl	(sheet:
2. Dancus carota	25	YUPL	Total % Cover of:	Multiply by:
3. Carex sp.	_2	TACW	OBL species	x 1 =
4			FACW species	x 2 =
5				x 3 =
(8)	47 =	Total Cover		x 4 =
Herb Stratum (Plot size:)				x 5 =
1. 2.			Column Totals:	(A) (B)
3.			Prevalence Index	= B/A =
4.			Hydrophytic Vegetatio	n Indicators:
5.			Marinance Test is	>50%
6.			Prevalence Index is	i ≤3.0¹
7				otations ¹ (Provide supporting
8			i.	or on a separate sheet)
Woody Vine Stratum (Plot size:)	=	Total Cover	Problematic Hydrop	hytic Vegetation ¹ (Explain)
1			¹Indicators of hydric soil be present, unless distu	and wetland hydrology must rbed or problematic.
	=	Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum 30 % Cove	r of Biotic Crus	t	Vegetation	No
Remarks: Queen Am's lace, Typha on On surface,	marin	s. Center	- mainly u	nvegetated, nois

_		
3	u	ᄔ

Sami	olina	Point:	

	Redox Features	
	lor (moist) % Type¹ Loc²	Texture Remarks
12 12 17 1	YR 4/8 10	fine Def. redox featur
	710 76 10	
		millodor
		- V
¹ Type: C=Concentration, D=Depletion, RM=Reduc	ced Matrix, CS=Covered or Coated Sand C	Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs,		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)	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Reduced Vertic (F18)
_ , • • • — —		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 - d'antina de la discola d'anni de la cola de la col
Thick Dark Surface (A12)	Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	_ Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:	lox features. Def.	<u> </u>
HYDROLOGY		
Wetland Hydrology Indicators:		
Welland Hydrology indicators:		
	k all that apply)	
Primary Indicators (minimum of one required; check	10000000000000000000000000000000000000	Secondary Indicators (2 or more required)
	_ Salt Crust (B11)	Water Marks (B1) (Riverine)
Primary Indicators (minimum of one required; check	10000000000000000000000000000000000000	
Primary Indicators (minimum of one required; check Surface Water (A1)	_ Salt Crust (B11)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Primary Indicators (minimum of one required; check 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)
Primary Indicators (minimum of one required; check 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)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2)
Primary Indicators (minimum of one required; check 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 Ro Presence of Reduced Iron (C4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Primary Indicators (minimum of one required; check 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 Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations:	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Other (Explain in Remarks)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
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Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Saturation Present? Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Bresence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wet	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Otts (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wet	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) 6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Water Table Present? Yes No Water Table Present? Saturation Present? Yes No Wincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wet	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) 6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Gaturation Present? Yes No Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wet	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Otts (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Water Table Present? Yes No Water Table Present? Saturation Present? Yes No Wincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wet	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) 6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required; check Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wet	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) 6) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: PSRP/MCAS Miramar City/County: ED Sampling Date: 1/1/16

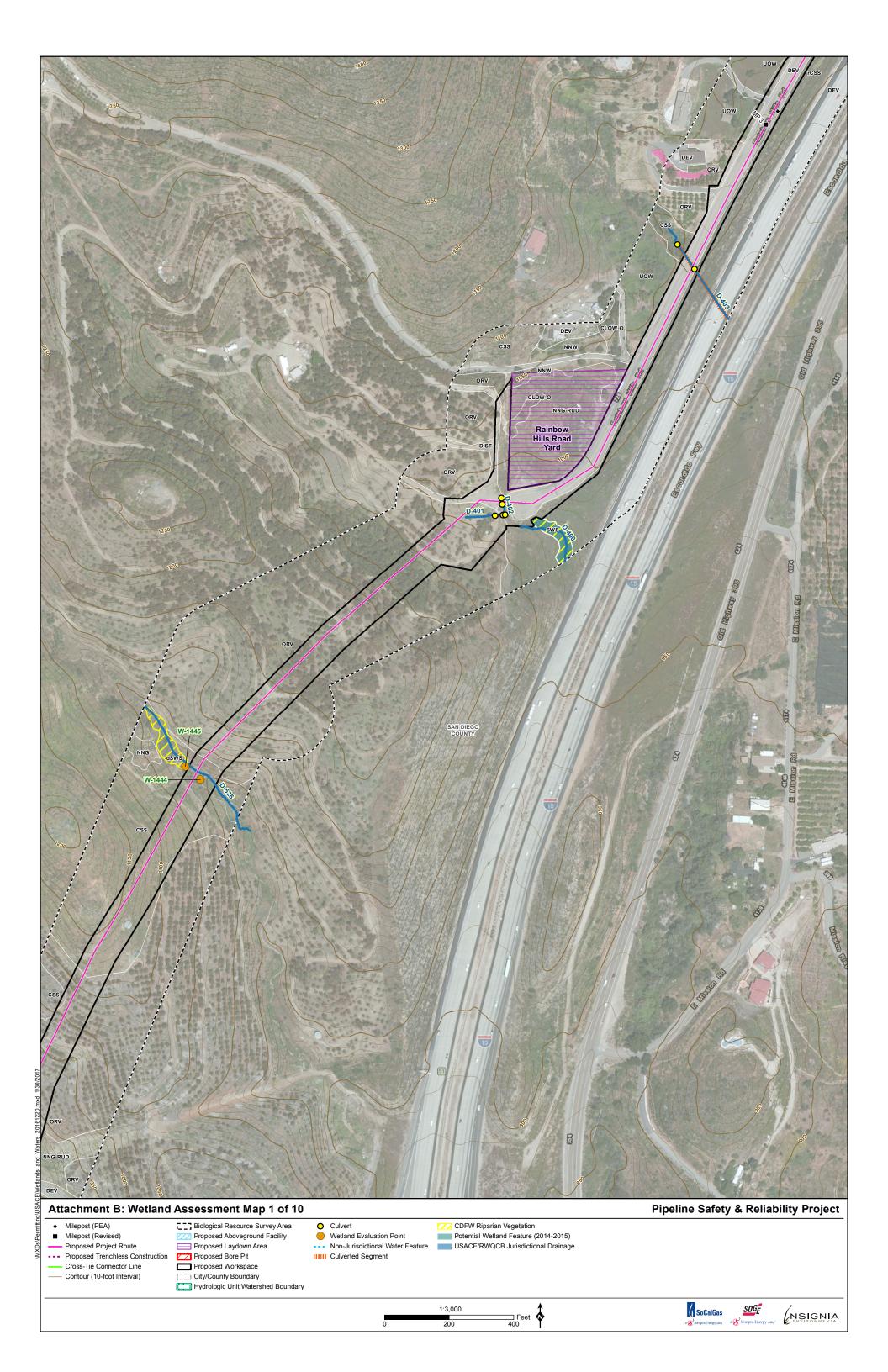
Applicant/Owner: 5DG & E / MCAS Miramar State: CA Sampling Point: 11116-06 Investigator(s): 0 B _____ Section, Township, Range: Local relief (concave, convex, none): _____ Slope (%): _____ Landform (hillslope, terrace, etc.): Subregion (LRR): _____ Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No ____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes V 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. Yes No Is the Sampled Area
Yes No Within a Wetland? Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Side of accers road VEGETATION - Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: ____ 2 % Cover Species? Status 1. Muletat (Bacchuris salicifolia) Number of Dominant Species That Are OBL, FACW, or FAC: _ (A) Total Number of Dominant Species Across All Strata: (B) ₹ Total Cover Percent of Dominant Species 00 (A/B) That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = ____ FAC species _____ x 3 = _____ FACU species _____ x 4 = ____ = Total Cover UPL species _____ x 5 = ____ Column Totals: _____ (A) ____ (B) FACW Prevalence Index = B/A = _____ OBL Hydrophytic Vegetation Indicators: TACU ✓ Dominance Test is >50% FAC Prevalence Index is ≤3.01 FACW ___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) / ムム = Total Cover Woody Vine Stratum (Plot size: _____) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover Hydrophytic Vegetation % Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _ Present? Dry veg 2 mostly

Sampling	Point:		
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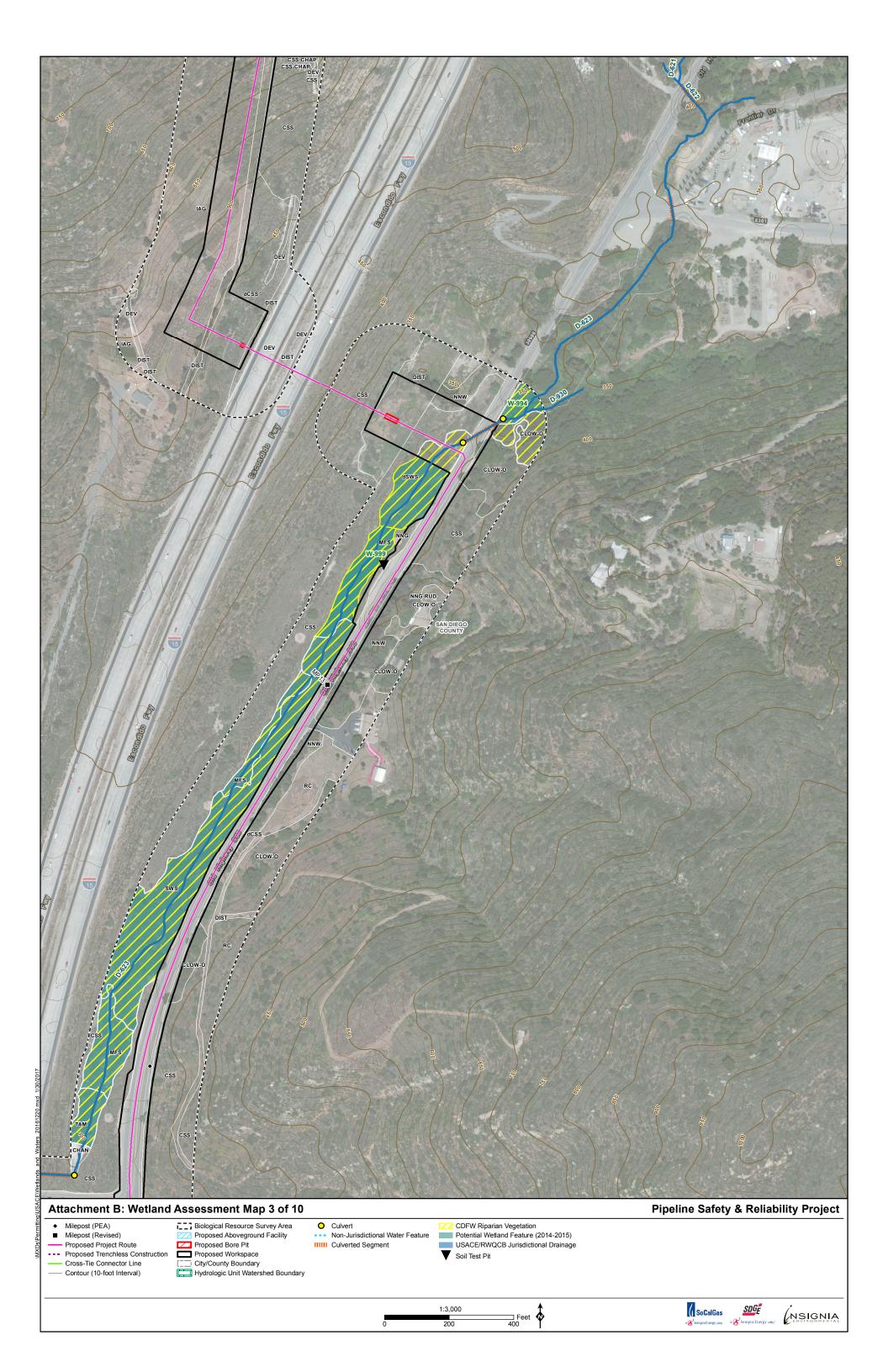
Profile Description: (Describe to the de	Redox Feature			-
Depth Matrix (inches) Color (moist) %	Color (moist) %	Type ¹ L	oc ² Texture	Remarks
D-10 101R 6/4	7,5 VR 4/8		Fine	Some rocks
1 1 1 1 1 1 1 1				
<u> </u>	1			
	//A			
				
	25			
7.7	117711200000 200000000000000000000000000			2.
¹ Type: C=Concentration, D=Depletion, Rf	M=Reduced Matrix, CS=Covere	d or Coated S	and Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to a	II LRRs, unless otherwise not	ed.)		tors for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)			cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)			cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Minera		_	educed Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix	: (F2)		d Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)		0	her (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface			
Depleted Below Dark Surface (A11)	Depleted Dark Surface		3 _{lodina}	tors of hydrophytic vegetation and
Thick Dark Surface (A12)	Redox Depressions (F0)		and hydrology must be present,
Sandy Mucky Mineral (S1)	Vernal Pools (F9)			ss disturbed or problematic.
Sandy Gleyed Matrix (S4) Restrictive Layer (if present);			une	33 distances of problematic.
loca k				
Type:			l	au possession vers
Depuir (inches).			Hydric	Soil Present? Yes No
Remarks:	1 conts 1 +	12.011	in top	311 LON COUNT
Redex, ruste	A real - pur	owy	in Top	3, very sparse
	11.	U		0
Remarks: Redex, ruste Soil all Bry	Turougus at			
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one requir	ed; check all that apply)		<u>S</u>	econdary 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 Invertebrate	es (B13)	_	Drift Deposits (B3) (Riverine)
_ ` ′	Hydrogen Sulfide O	•	_	_ Drainage Patterns (B10)
Water Marks (B1) (Nonriverine)			na Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine	Presence of Reduct			Crayfish Burrows (C8)
Drift Deposits (B3) (Nonriverine)			_	Saturation Visible on Aerial Imagery (C9)
Surface Soil Cracks (B6)	Recent Iron Reduct			
Inundation Visible on Aerial Imagery (_	_ Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explain in Re	emarks)		_ FAC-Neutral Test (D5)
Field Observations:	./			
Surface Water Present? Yes	No Depth (inches): Depth (inches): Depth (inches):			
Water Table Present? Yes	No Depth (inches):			
Saturation Present? Yes	No Depth (inches):		Wetland Hydro	ology Present? Yes No
(includes capillary fringe)				
Describe Recorded Data (stream gauge,	monitoring well, aerial photos, p	revious inspec	tions), if available	E
Remarks:	/	1 1	11	0 1-0 1-0
Ephemeral 5	tream area,	ow n	o dejoi	ned bed, channel.
/			0	-

ATTACHMENT B: WETL	AND ASSESSMENT	MAP AND VEGE	ΓATION ABBREVIA	TIONS

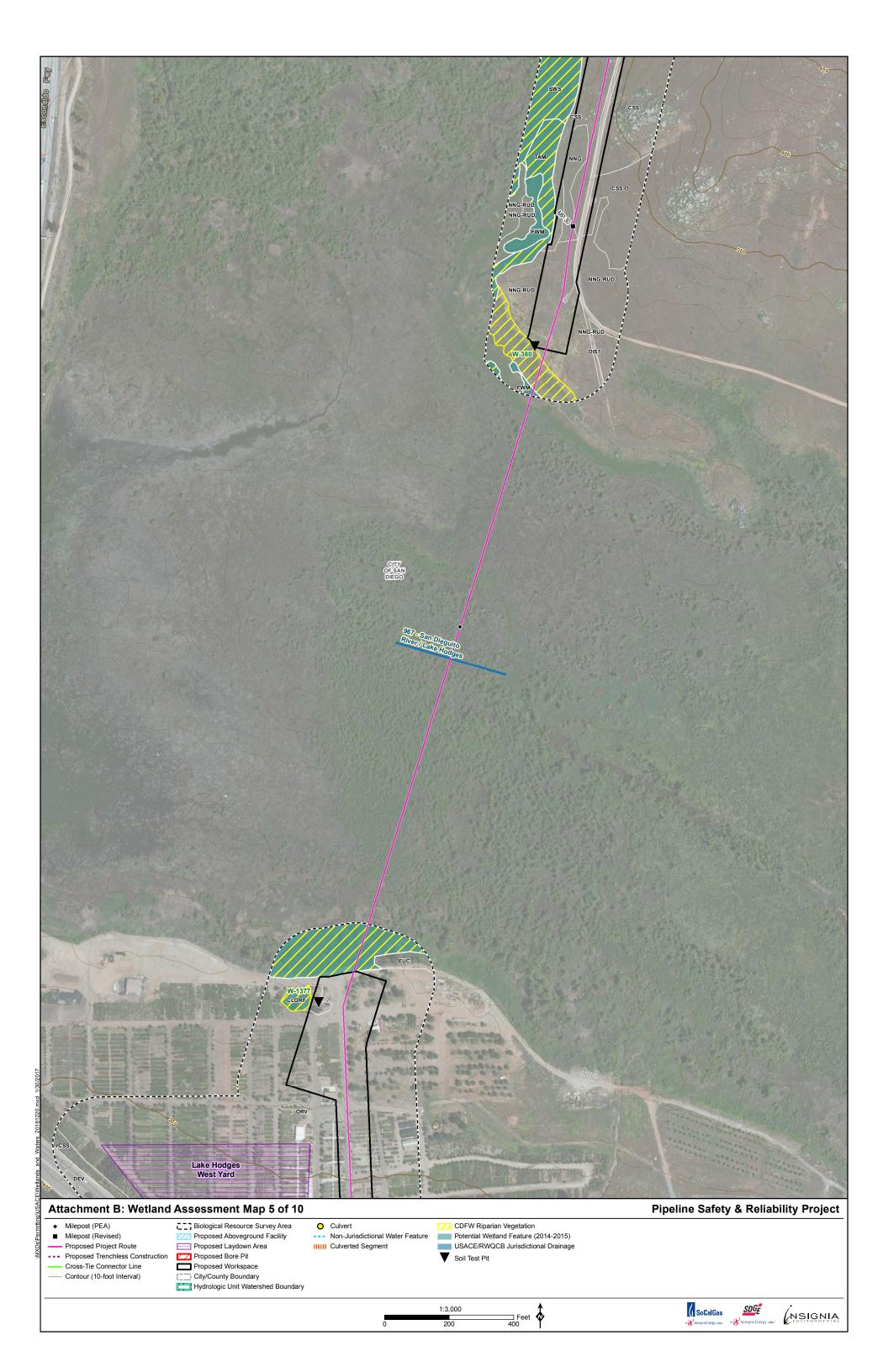


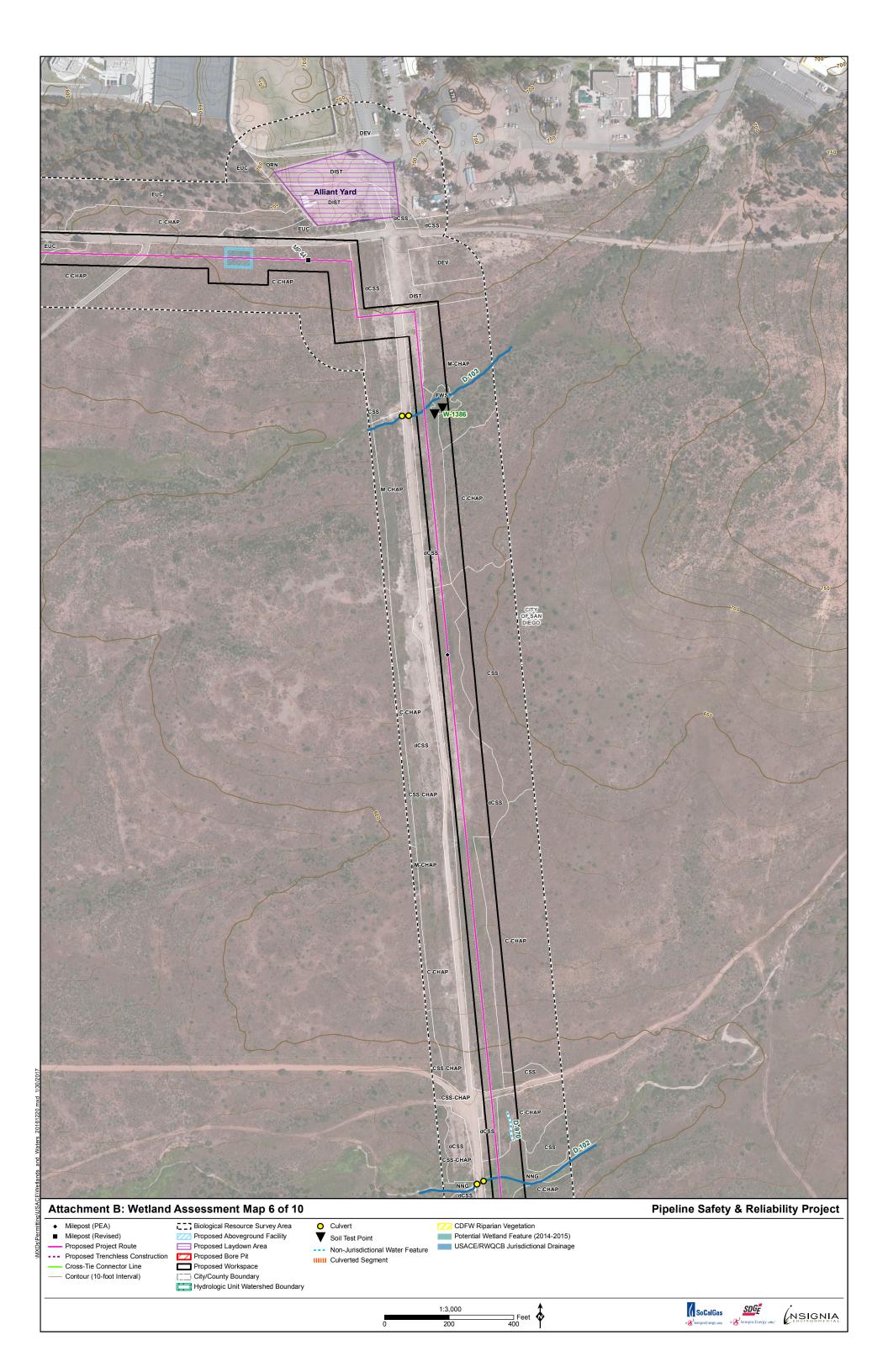




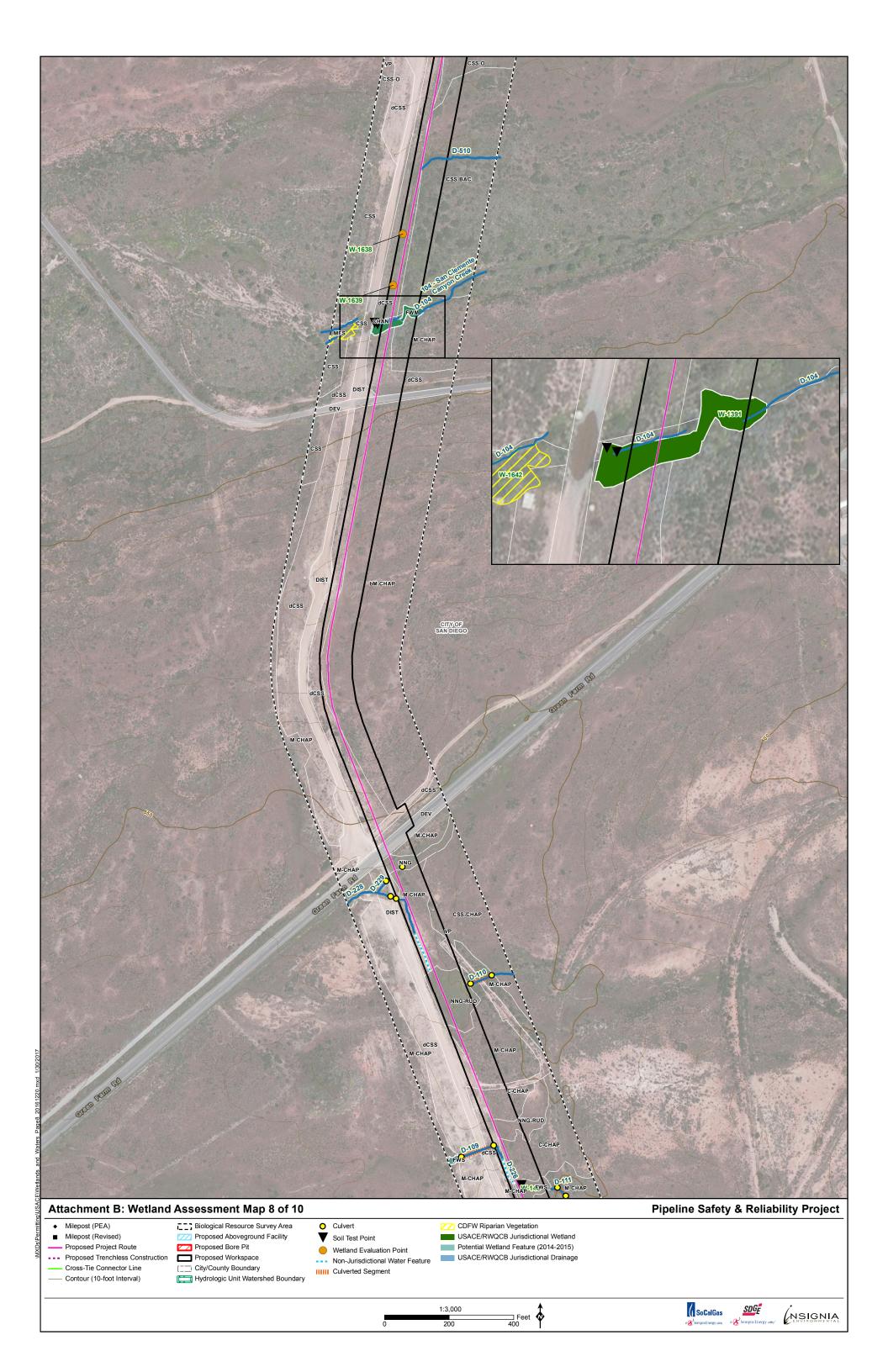




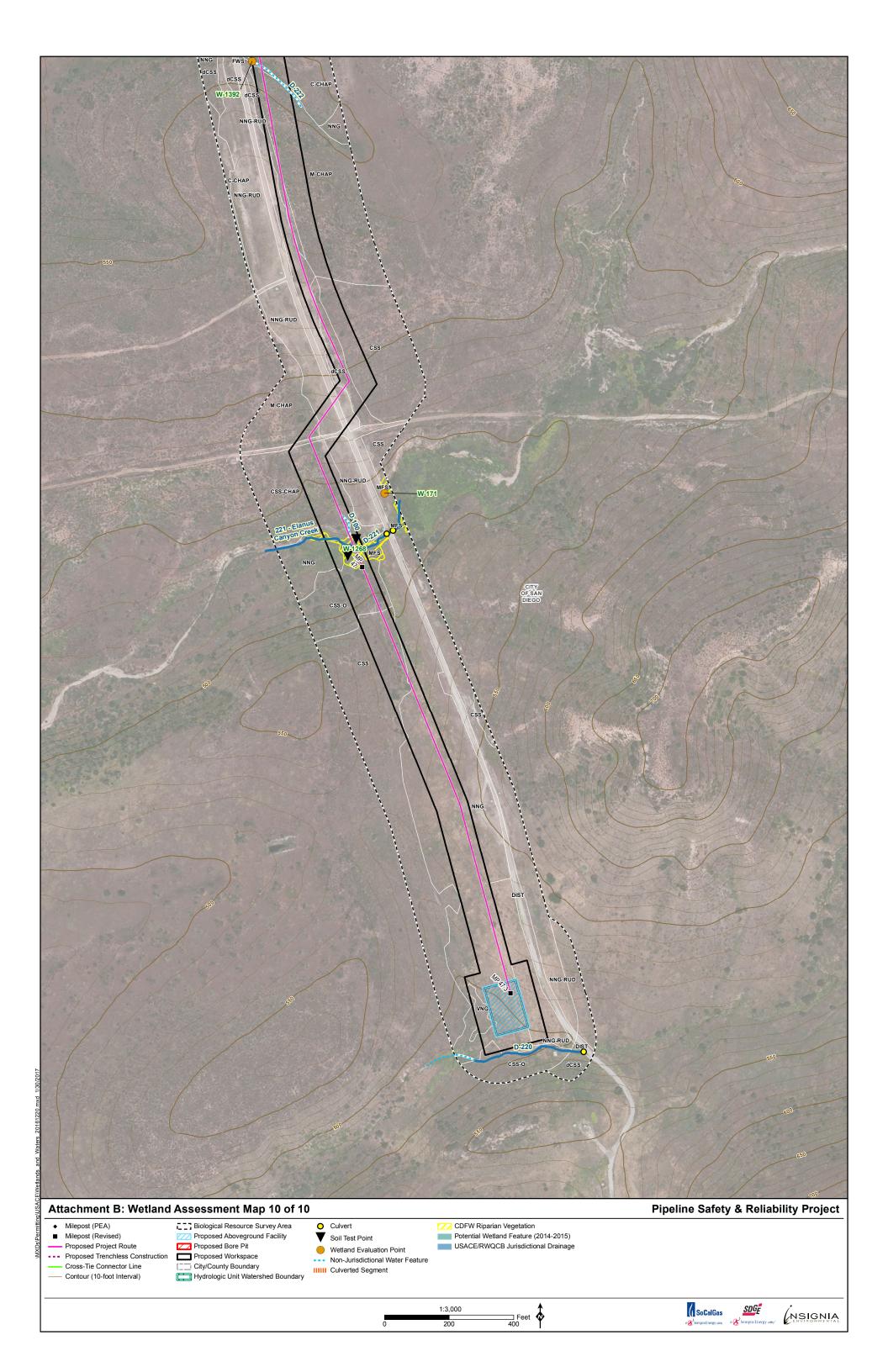


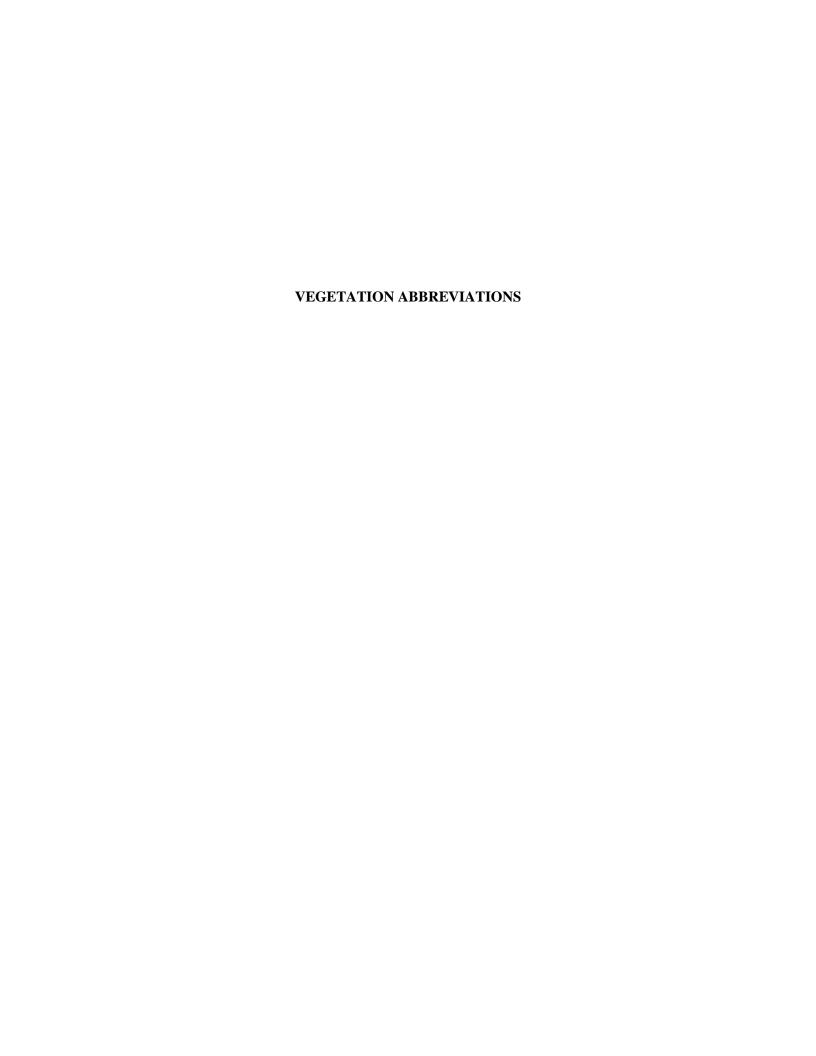












Vegetation Abbreviations

ARU Arundo-Dominated Riparian

bCLOW-O Open Coast Live Oak Woodland (<50 percent) (burned)

bCSS Diegan Coastal Sage Scrub (burned)

bM-CHAP Mixed Chaparral (burned)

C-CHAP Chamise Chaparral

CAM Cismontane Alkali Marsh CHAN Unvegetated Channel

CLORF Southern Coast Live Oak Riparian Forest CLOW-O Open Coast Live Oak Woodland (<50 percent)

CSS Diegan Coastal Sage Scrub

CSS-BAC Diegan Coastal Sage Scrub-Baccharis dominated

CSS-CHAP Diegan Coastal Sage Scrub/Chaparral
CSS-O Open Diegan Coastal Sage Scrub
CVFM Coastal and Valley Freshwater Marsh

CWRF Southern Cottonwood-Willow Riparian Forest

DIST Disturbed Habitat DEV Developed/Urban

dCSS Diegan Coastal Sage Scrub (disturbed)
dCSS-O Open Diegan Coastal Sage Scrub (disturbed)

dCWRF Southern Cottonwood-Willow Riparian Forest (disturbed)

dSWS Southern Willow Scrub (disturbed)

EUC Eucalyptus Woodland
FWM Freshwater Marsh
FWS Freshwater Seep
HW Herbaceous Wetland
IAG Intensive Agriculture
M-CHAP Mixed Chaparral
MFS Mule Fat Scrub

NNG Non-Native Grassland

NNG-RUD Non-Native Grassland/ Ruderal

NNW Non-Native Woodland ORV Orchard/Vineyard ORN Ornamental

RC Row Crops

SMC Southern Mixed Chaparral SWS Southern Willow Scrub

TAM Tamarisk Scrub

UOW Undifferentiated Open Woodland VNG Valley Needlegrass Grassland

VP Vernal Pool

ATTACHMENT C: WETLAND FEATURES EVALUATED IN 2016

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Wetland Feature Number ¹	Vegetation Type	Milepost Number ²	Attachment B Map Page	Formal Wetland Delineation	Hydrophytic Vegetation	Hydric Soil	Wetland Hydrology	Jurisdictional Drainage Number ¹
W-1444	Freshwater Seep (disturbed)	4	1	No	No	_4	-	Drainage (D-) 525
W-1445	Southern Willow Scrub (disturbed)	4	1	No	No	-	-	D-525
W-941 ⁵	Southern Cottonwood-Willow Riparian Forest	9	2	Yes	Yes	No	No	D-610
W-994	Southern Cottonwood-Willow Riparian Forest	12	3	No	No	-	-	D-623
W-999	Mule Fat Scrub	13	3	Yes	No	No	No	D-623
W-383	Freshwater Marsh	29	4	Yes	Yes	No	Yes	None
W-380	Tamarisk Scrub	30	5	No	No	-	-	W-967
W-1377	Southern Coast Live Oak Riparian Forest	30	5	Yes	Yes	No	No	W-967
W-1386	Freshwater Seep	44	6	Yes	Yes	No	No	D-103
W-1283	Vernal pool	44	7	Yes	Yes	_6	No	None

¹ The wetland feature and jurisdictional drainage numbers are from the Pipeline Safety & Reliability Project's (Proposed Project's) 2015 Wetland and Waters Assessment.

² The milepost number is from the Proposed Project's 2015 Proponent's Environmental Assessment (PEA).

³ A full wetland delineation was not conducted if the feature did qualify as hydrophytic vegetation.

⁴ "-" indicates the feature was not evaluated.

⁵ W-941 was within the Proposed Project's 2015 PEA footprint. The Proposed Project's revised alignment was moved west of the potential wetlands that were evaluated in 2014 and 2015. The new alignment is within riparian vegetation, but not wetlands.

⁶ A soil test pit was not pit dug due to presence of federally listed San Diego fairy shrimp (*Branchinecta sandiegonensis*) in the area.

Wetland Feature Number ¹	Vegetation Type	Milepost Number ²	Attachment B Map Page	Formal Wetland Delineation	Hydrophytic Vegetation	Hydric Soil	Wetland Hydrology	Jurisdictional Drainage Number ¹
W-1391	Coastal and Valley Freshwater Marsh	45	8	Yes	Yes	Yes	Yes	D-104
W-1642	Mule Fat Scrub	45	8	Yes	Yes	No	No	D-104
W-1638	Vernal Marsh	45	8	No	No	-	-	None
W-1639	Vernal Marsh	45	8	No	No	-	-	None
W-148	Freshwater Seep	46	8	Yes	Yes	No	No	D-226
W-1724	Coastal and Valley Freshwater Marsh	46	9	No	No	-	-	D-225
W-1726	Freshwater Seep	46	9	No	No	-	-	D-225
W-1278	Vernal pool	46	9	Yes	Yes	_7	Yes	None
W-1392	Freshwater Seep	46	9	No	No	-	-	D-222
W-1268	Mule Fat Scrub	46	10	Yes	Yes	No	No	D-221

⁷ A soil test pit was not pit dug due to presence of federally listed San Diego fairy shrimp in the area.

ATTACHMENT D: WETLAND PHOTOGRAPHIC LOG

ATTACHMENT D: WETLAND PHOTOGRAPHIC LOG



Photograph 1: Wetland (W-) 1391, looking north. Hydrophytic vegetation bordering and within the wetland.



Photograph 2: Close-up view of hydric soil (redox) features within W-1391.