

Memorandum

From: Tamara Spear
San Diego Gas & Electric Company
Subject: TL 637 Wood to Steel Project Reconnaissance-Level Jurisdictional Waters
Assessment Summary
Date: May 21, 2013

Chambers Group conducted a reconnaissance-level waters and wetland survey for the Tie Line (TL) 637 Wood to Steel Project to identify the boundaries, types, and acreages of all aquatic resources that are potentially under the jurisdiction of the U.S. Army Corps of Engineers (ACOE), Regional Water Quality Control Board (RWQCB) and California Department of Fish and Wildlife (CDFW). The following is a summary of this survey.

Project Description:

In an effort to maintain existing electric power tie lines in high fire and wind areas in San Diego Gas & Electric Company's (SDG&E) service territory, SDG&E proposes to replace wood poles with steel poles along approximately 14 miles of TL 637, extending from the existing Creelman Substation to the existing Santa Ysabel Substation (Proposed Project).

The Proposed Project would include the following primary components:

- Replacement of approximately 156 existing wood poles with new steel poles between the Creelman and Santa Ysabel Substations (including distribution line underbuild),
- Addition of new fiber optic cable (SDG&E owned and operated) to be co-located on the rebuilt TL 637 pole line between Creelman and Santa Ysabel Substations and relocation of small amounts of existing private fiber optic lines on approximately 21 poles, and
- Minor work at the Creelman and Santa Ysabel Substations to allow for connection of the relocated TL 637 and underbuilt distribution line.

TL 637 is located within the unincorporated communities of Ramona and Santa Ysabel, California. The approximate 14 mile TL begins at Creelman Substation located south of Creelman Lane and continues northeast to terminate at the Santa Ysabel Substation.

Methods:

Prior to conducting the field survey, a desktop assessment for drainages and other water resources was completed. This desktop review consisted of a review of the U.S. Geological Service (USGS) 7.5-minute topographic quadrangle containing the site, the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) maps, and a review of aerial photographs.

In addition, the USDA, National Resource Conservation Science (NRCS) Web Soil Survey and National List of Hydric Soils, was used to assess soils mapped along the Proposed Project alignment, and GIS data was used to create maps. As prescribed by the 1987 ACOE Wetland Delineation Manual and the 2008 Regional Supplement to the ACOE Wetland Delineation Manual: Arid West Region, Version 2.0, all available lists of hydric soils were referenced to identify any occurrence of hydric soils listed within the Proposed Project alignment. The national, state, and local hydric soils lists were used along with local soil survey maps for this assessment.

Chambers Group biologists Nichole Cervin and Maya Mazon conducted the water resources survey from July 11 through July 14 and on July 18 and 19, 2011. They conducted surveys along the Proposed Project, targeting suspected jurisdictional areas identified during the literature review from aerial and USGS topographic maps. Potential ACOE, RWQCB, and CDFW jurisdictional areas were field-checked for the presence of definable channels and/or wetland vegetation, riparian habitat, soils, and hydrology. Field checks were not limited to suspected jurisdictional areas identified during the literature review; the entire Proposed Project Survey Area was assessed. The biologists drove and/or walked the access roads associated with the Proposed Project.

Any potential jurisdictional feature observed within a 50-foot radius of a proposed pole or facility location was recorded. This 50-foot radius survey area was determined to include permanent and temporary work areas of pole installation and removal. In the field, boundaries and dimensions of jurisdictional features were recorded on aerial photographs, sub-meter GPS units, tablet computers, and field notes. Features within the 50-foot radius survey area were investigated for the presence of drainages, including culverts, corrugated metal pipe drains, reinforced concrete pipes, V-ditches, water bodies, riparian habitats, potential wetlands, and connectivity.

Potential wetland habitats were evaluated using the methodology set forth in the 1987 ACOE Wetlands Delineation Manual and the 2008 Regional Supplement to the ACOE Wetland Delineation Manual: Arid West Region, Version 2.0. The lateral extent of a jurisdictional drainage feature was also measured. ACOE and RWQCB traditionally use the upper limit of the Ordinary High Water Mark (OHWM), by identifying signs of shelving, drift lines, and disturbed vegetation. Under the Rapanos court decision, ACOE now requires a fact-specific significant nexus analysis to be performed for dry or ephemeral washes (non-Relatively Permanent Waters [RPW]) in southern California to determine the extent of ACOE jurisdiction on a given project area. Connectivity was investigated and **determined through a “desktop” study by utilizing the USGS topographic maps**, USFWS NWI maps, and aerial imagery. CDFW traditionally uses the presence of a defined bed and bank and associated vegetation.

Wetland data was recorded onto standardized Wetland Determination Data Forms – Arid West Region data forms. A copy of the data forms are included in Attachment A. In order to formally determine the presence or absence of wetlands, upland features were also recorded onto the standardized data sheets. Sample plots were established, and recorded data included plant species with estimated percent area coverage within each vegetation stratum (i.e., tree, sapling/shrub, herb, woody vine), soil profiles were investigated (where feasible), and evidence of hydrology was recorded. All delineation data was digitized for the precise mapping of jurisdictional areas. All data on jurisdictional determinations and wetland delineations were reproduced using GIS software and displayed on aerial maps.

Jurisdictional Assessment:

Four watersheds exist within the Proposed Project Survey Area: the Santa Maria, San Vicente, San Diego River, and Santa Ysabel watersheds. The Santa Maria watershed is located at the western end of the Proposed Project in the unincorporated community of Ramona. The San Vicente watershed begins at the origin of San Vicente Creek east of Littlepage Road and spans the survey area to Simon Preserve in the unincorporated community of Ramona. The San Diego River watershed originates at the San Diego River located in the unincorporated community of Santa Ysabel and is fed by rainwater and snowmelt from Volcan Mountain. The Santa Ysabel watershed originates in Volcan Mountain in the unincorporated community of Santa Ysabel and is fed by rainwater and snowmelt from Volcan Mountain.

Santa Maria Creek, San Vicente Creek, the San Diego River, and Santa Ysabel Creek are RPWs leading to several reservoirs. Santa Maria Creek does not flow directly within the Proposed Project but is fed by several ephemeral drainages that direct surface water only immediately after rain events. San Vicente Creek originates within the Proposed Project; however, perennial flow does not establish until after the inflow from Dye Creek, which is outside the Proposed Project Survey Area. The San Diego River does not flow directly within the Proposed Project but is fed by several ephemeral drainages and Dye Creek.

Potential Impacts to Jurisdictional Waters/Wetlands:

Eleven poles (P148, P149, P150, P103, P104, P105, P106, R107, P114, P152 and P129) are located within wet meadows that have been determined to be jurisdictional by the ACOE and the RWQCB. Six poles (R10, R169, R171, D167, R11, and R13) are located within a streambed/water of the U.S. that has been determined to be jurisdictional by CDFW, ACOE and the RWQCB. Steel plates will be used to temporarily span over two jurisdictional areas to provide temporary access during construction.

The potential impact locations are summarized in “Table 1. TL 637 Permanent and Temporary Wetland and Streambed Impacts Associated with Pole Replacement, Access and Pole Butt Removal Activities, APN numbers, Parcel Ownership and CPS Coordinates”. The impact locations numbers are also identified on attached figures, “Figure 1: Wetland Impact Site Overview Aerials” and “Figure 2: Wetland Impact Site Topographic Maps”. Photos of each site are also included as Attachment B.

Permitting:

Proposed Project activity associated with all seventeen poles and temporary steel plates to provide access, will be carried out under non-notifying Nationwide Permit #12 issued by the ACOE, and a 401 Certification from the RWQCB (File No. 11C-114). The impacts associated with the six poles within CDFW jurisdiction will not substantially adversely affect an existing fish or wildlife resource; therefore, a Streambed Alteration Agreement notification was not submitted. Permanent impacts to ACOE jurisdictional wetlands associated with the pole removals and replacement are 98-square feet. Temporary impacts to ACOE jurisdictional wetlands are 0.13 acre and the temporary impacts to streambed are 0.04 acre. Compensatory mitigation was not proposed due to the minimal impacts.

REFERENCES

- ACOE (U.S. Army Corps of Engineers). 1987. ACOE of Engineers Wetlands Delineation Manual. U.S. Army Corps of Engineers Waterways Experiment Station. Vicksburg, MS.
- ACOE (U.S. Army Corps of Engineers). 2008. Regional Supplement to the ACOE of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0), ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-08-28. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

Table 1

**TL 637 Permanent and Temporary Wetland and Streambed
Impacts Associated with Pole Replacement, Access and Pole Butt
Removal Activities, APN numbers, Parcel Ownership and CPS
Coordinates**

Table 1. TL 637 - Permanent and Temporary Wetland and Streambed Impacts Associated with Pole Replacement, Access and Pole Butt Removal Activities, APN numbers, Parcel Ownership, GPS Coordinates								
Location #	Activity	APN	Parcel Ownership	Long/Lat	Watershed	Permanent (Square feet)	Temporary (Square feet)	Notes:
	Pole Replacements and removal of pole butts:							
1	P148 - Micropile	24803007	Cumming Family Trust c/o Elizabeth Tulloch 28223 Hwy 78 Ramona, CA 92065	33.0999, -117.6733	San Dieguito HU Adjacent wetland to unnamed trib to Santa Ysabel Creek	39	Work space 1,211 sq. ft	Easy access off of adjacent dirt road for placement of new pole and removal of pole butt (adjacent to existing pole, removal of pole will occur within workspace for pole replacement)
2	P149 - Heavy steel	24803008	Cumming Family Trust c/o Elizabeth Tulloch 28223 Hwy 78 Ramona, CA 92065	33.1007, -116.6718	San Dieguito HU Adjacent wetland to unnamed trib to Santa Ysabel Creek	10	Work space 304 sq. ft	Easy access off of adjacent dirt road for placement of new pole and removal of pole butt (adjacent to existing pole, removal of pole will occur within workspace for pole replacement)
3	P150 - Heavy steel	24803008	Cumming Family Trust c/o Elizabeth Tulloch 28223 Hwy 78 Ramona, CA 92065	33.1013, -116.6704	San Dieguito HU Adjacent wetland to unnamed trib to Santa Ysabel Creek	10	Work space 304 sq. ft	Easy access off of adjacent dirt road for placement of new pole and removal of pole butt (adjacent to existing pole, removal of pole will occur within workspace for pole replacement)
4	P103 – Micropile (temporary footpath, 75' x2', vegetation removal is not required)	28705026	Tulloch Family Partners 28223 Hwy 78 Ramona, CA 92065	33.0471, -116.7343	San Diego River HU Adjacent wetland to San Vicente Creek	39	Work space for new pole, 1,211 sq. ft. Work space for pole butt removal, 304 sq. ft Total impacts 1,515 sq. ft	Easy access to new pole off of adjacent dirt road; existing pole and access are within a wetland area
	Access & Pole butt removal:							
5	Access to pole P104 and pole butt removal (temporary footpath, 200 x 2 = 400 sq. ft.. veg clearing not required)	28705027	Tulloch Family Partners 28223 Hwy 78 Ramona, CA 92065	33.0484, -116.7329	San Diego River HU Adjacent wetland to San Vicente Creek		Work space 304 sq. ft	Existing pole P104 and access to the pole is within a wetland; New pole P104 has been relocated outside of wetland area. Pole removal via helicopter or cut into pieces and carried out by hand.
6	Access to pole P105 and pole butt removal (temporary footpath)	28705027	Tulloch Family Partners 28223 Hwy 78 Ramona, CA 92065	33.0496, -116.7316	San Diego River HU Adjacent wetland to San Vicente Creek		Work space 304 sq. ft	Existing pole P105 and access to the pole is within a wetland; New pole P105 has been relocated outside of wetland area. Pole removal via helicopter or cut into pieces and carried out by hand.
7	Access to pole P106 and pole butt removal (temporary footpath)	28705027	Tulloch Family Partners 28223 Hwy 78 Ramona, CA 92065	33.0508, -116.7302	San Diego River HU Adjacent wetland to San Vicente Creek		Work space 304 sq. ft	Existing pole P106 and access to the pole is within a wetland; New pole P106 has been relocated outside of wetland area. Pole removal same as above

Location #	Activity	APN	Parcel Ownership	Long/Lat	Watershed	Permanent (Square feet)	Temporary (Square feet)	Notes:
8	Access to pole P107 and pole butt removal (temporary footpath)	28611224	Tulloch Family Partners 28223 Hwy 78 Ramona, CA 92065	33.052, -116.7289	San Diego River HU Adjacent wetland to San Vicente Creek		Work space 304 sq. ft	Pole P107 is being eliminated from this tie line. Pole removal via helicopter or cut into pieces and carried out by hand.
9	Access to pole P114 and pole butt removal (temporary foot path)	28907004	Tulloch Family Partners 28223 Hwy 78 Ramona, CA 92065	33.061, -116.7188	San Diego Rive HU Adjacent wetland to Dye Creek		Work space 304 sq. ft	Pole butt removal and access. New pole has been relocated outside of a wetland area.
10	Access to pole P152 for placement of new pole and pole butt removal (temporary footpath)	24803008	Cumming Family Trust c/o Elizabeth Tulloch 28223 Hwy 78 Ramona, CA 92065	33.1025, -116.6693	San Dieguito HU Adjacent wetland, to unnamed trib to Santa Ysabel Creek		Access 8 x 10 = 80 sq. ft (Steel Plate) Work space <u>304 sq. ft</u> 384 sq. ft.	Pole P152 is located outside of a wetland or jurisdictional area, however access to the pole for replacement and pole butt removal is through a wetland area
11	Access to pole P129 for pole butt removal (temporary footpath)	24813010	Tulloch Family Trust	33.0803, -116.697	San Dieguito HU Adjacent wetland to Witch Creek		Work space 304 sq. ft	New pole P129 will be located outside of wetland area. Overland travel to pole when conditions are dry.
	Pole butt removals:							
12	R10	n/a	Pole is located within San Diego County Rd.	33.0185, -116.8484	San Diego River HU Unnamed trib to Santa Maria Creek		Work space 304 sq. ft	Easy access to pole off side of Creelman Road
13	R169	n/a	Pole is located within San Diego County Rd.	33.0185, -116.8464	San Diego River HU Unnamed trib to Santa Maria Creek		Work space 304 sq. ft	Easy access to pole off side of Creelman Road
14	R171	n/a	Pole is located within San Diego County Rd.	33.0185, -116.845	San Diego River HU Unnamed trib to Santa Maria Creek		Work space 304 sq. ft	Easy access to pole off side of Creelman Road
15	D167	n/a	Pole is located within San Diego County Rd.	33.0184, -116.8486	San Diego River HU Unnamed trib to Santa Maria Creek		Work space 304 sq. ft	Easy access to pole off side of Creelman Road
16	R11	n/a	Pole is located within San Diego County Rd.	33.0185, -116.8474	San Diego River HU Unnamed trib to Santa Maria Creek		Work space 304 sq. ft	Easy access to pole off side of Creelman Road
17	R13	n/a	Pole is located within San Diego County Rd.	33.0185, -116.8456	San Diego River HU Unnamed trib to Santa Maria Creek		Work space 304 sq. ft	Easy access to pole off side of Creelman Road
	Access:							
18	Placement of steel plate at Stringing Site #13				San Diego River HU Adjacent wetland to San Vicente Creek		8 X 10= 80 square feet	
19	Placement of steel plate on access road between poles P141 and P140	24813007	Jeff Wood 9727 Castaic Ct. Santee, CA 92071	33.0928, -116.6835	San Diego HU Unnamed trib to San Diego River		8 x 10 = 80 square feet	
	Total Impacts					98 square feet	7,526 square feet (0.17 acre)	

Figures

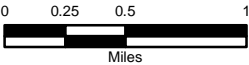
Figure 1

Wetland Impact Site Overview Aerials

**WOOD TO STEEL
TIELINE 637**
Wetland Impact Sites
Overview

Version Date: 1/5/2012

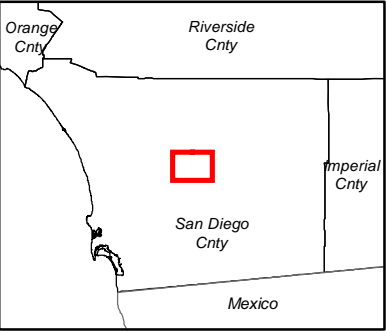
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1 inch = 4,200 feet @ 11" X 17"

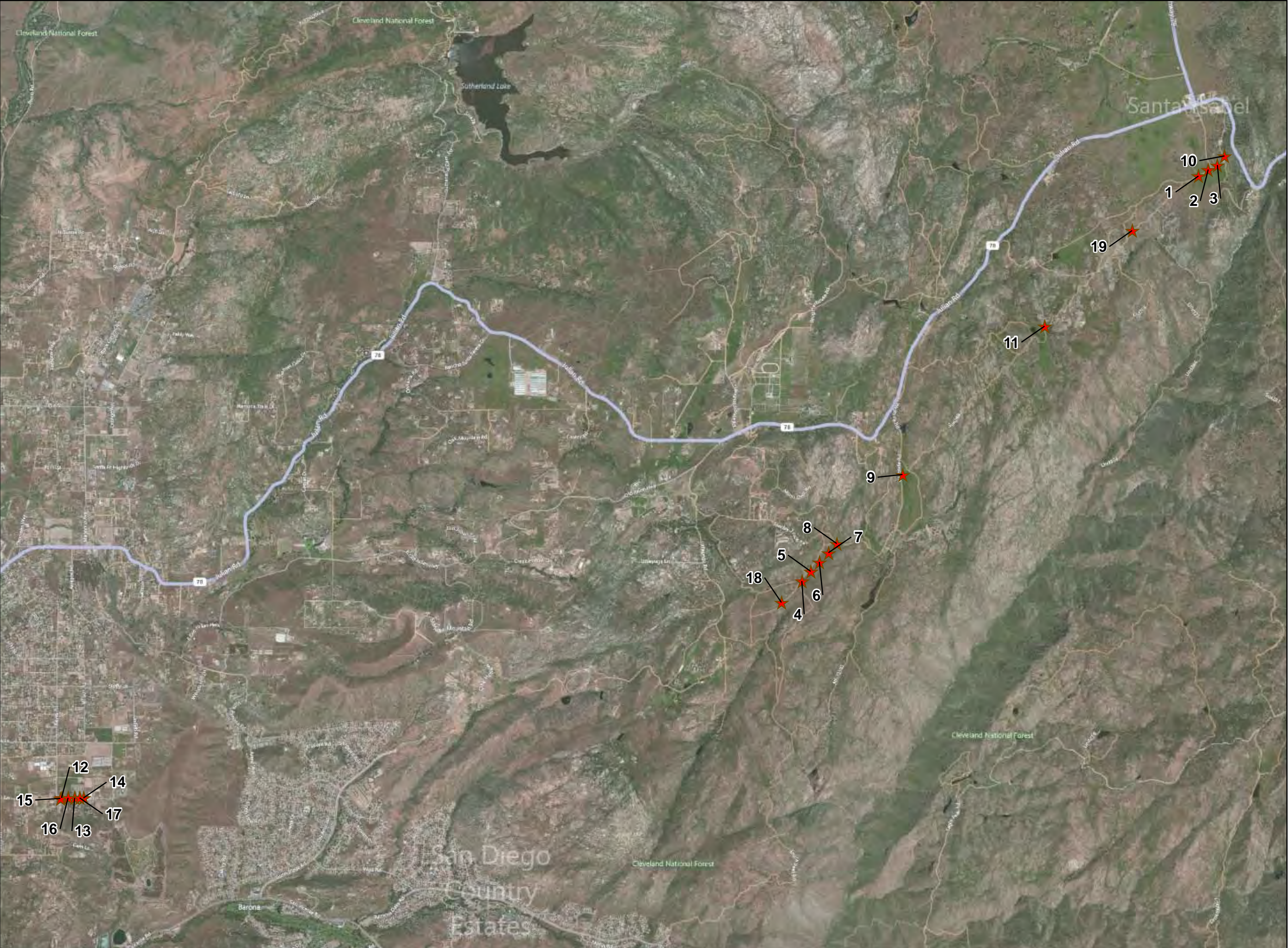


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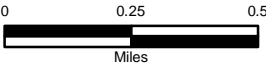
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TIELINE 637**
Wetland Impact Sites
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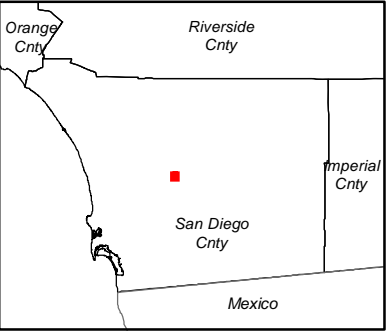
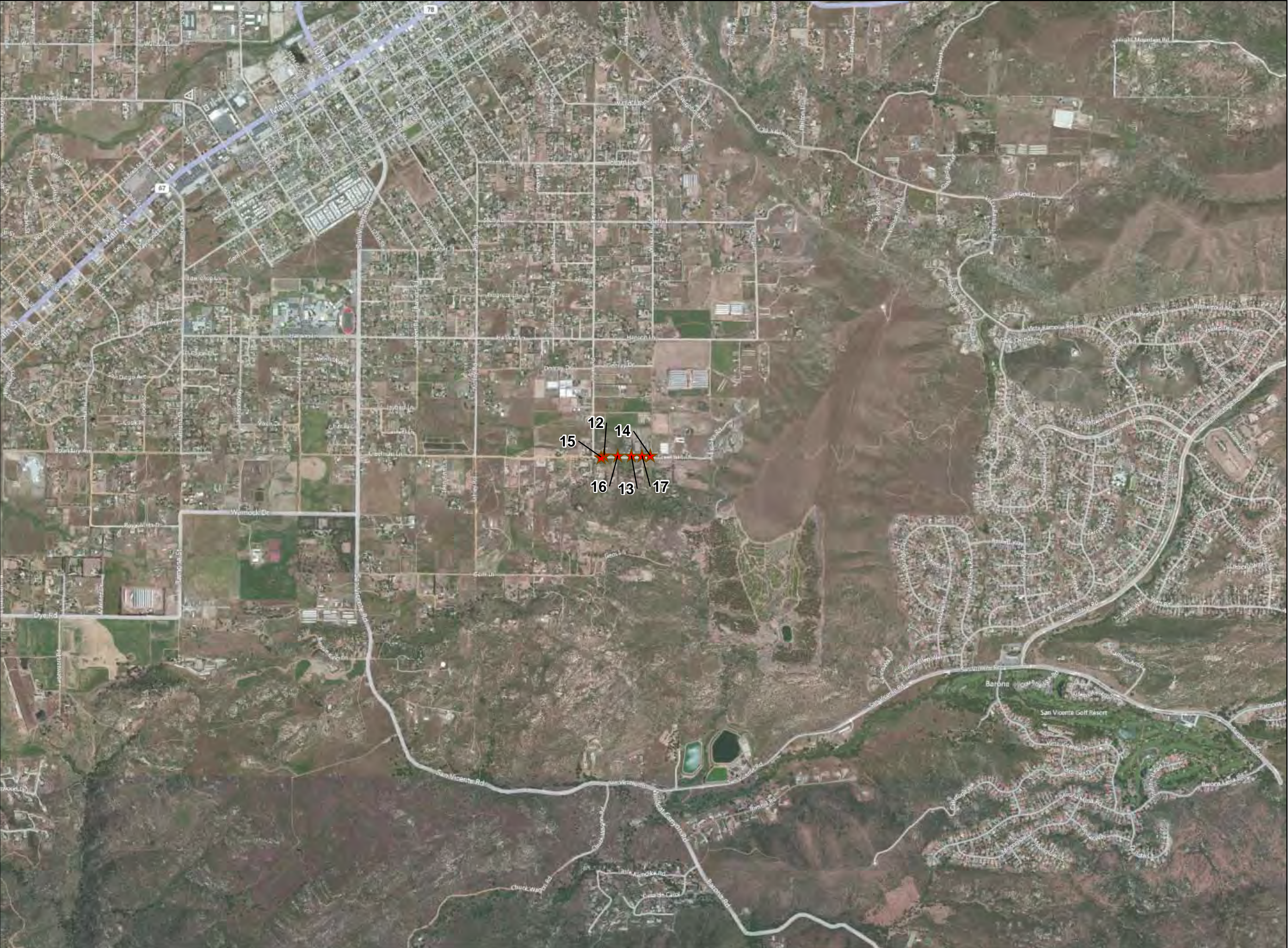
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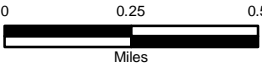
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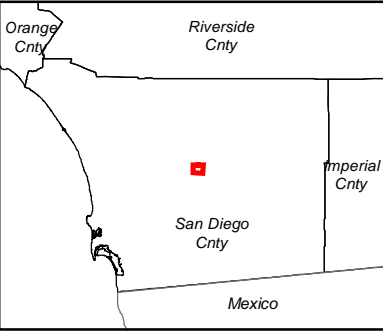
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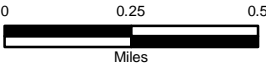
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Wetland Impact Sites

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Figure 2

Wetland Impact Site Topographic Maps

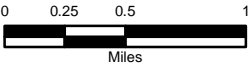
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TIELINE 637**

Wetland Impact Sites

Overview

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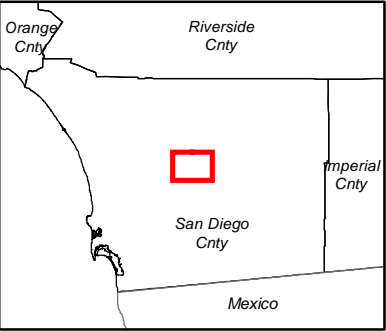
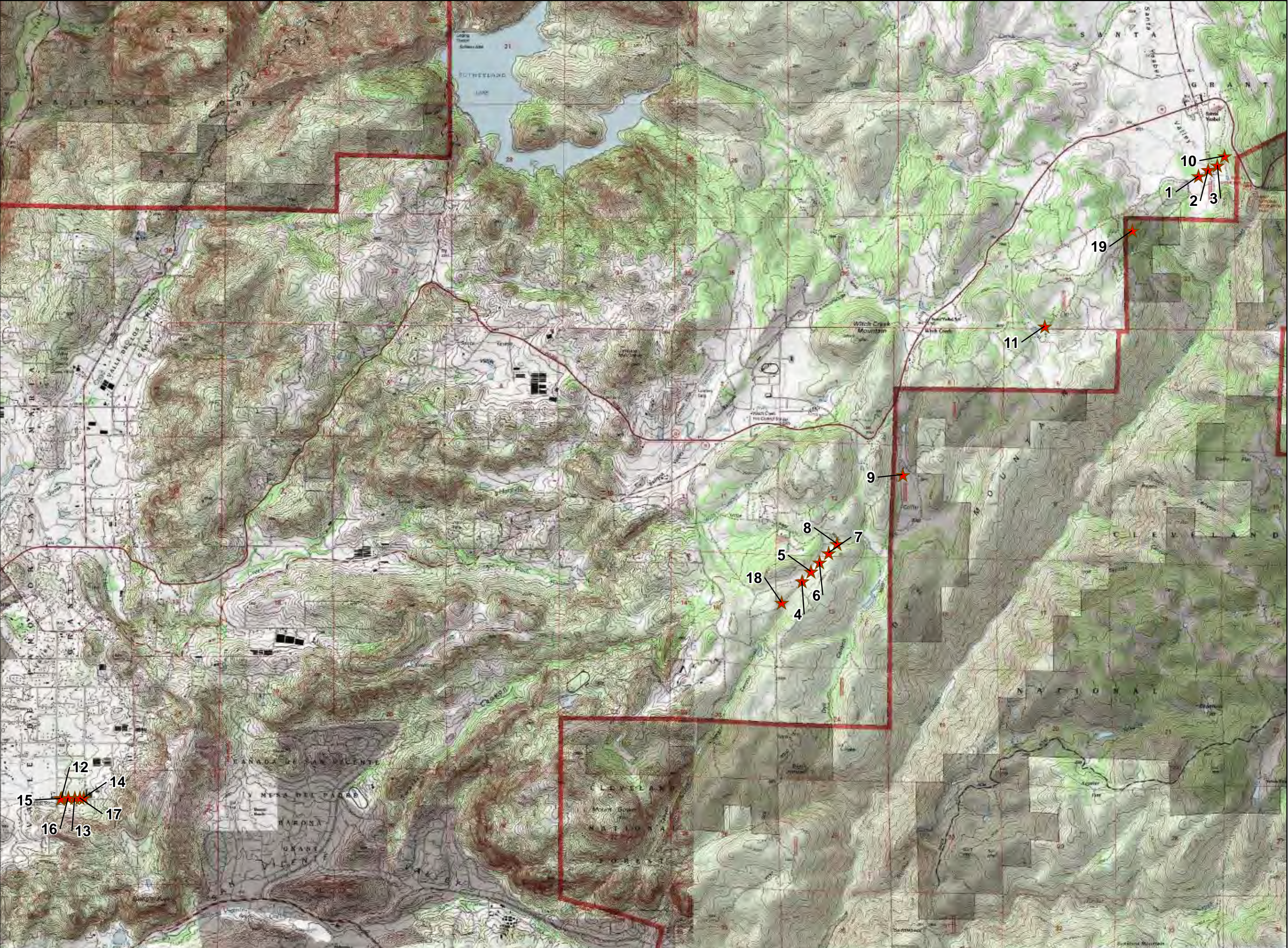
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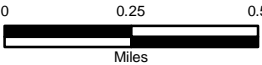
**WOOD TO STEEL
TIELINE 637**

Wetland Impact Sites

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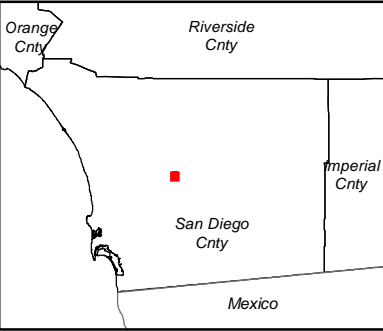
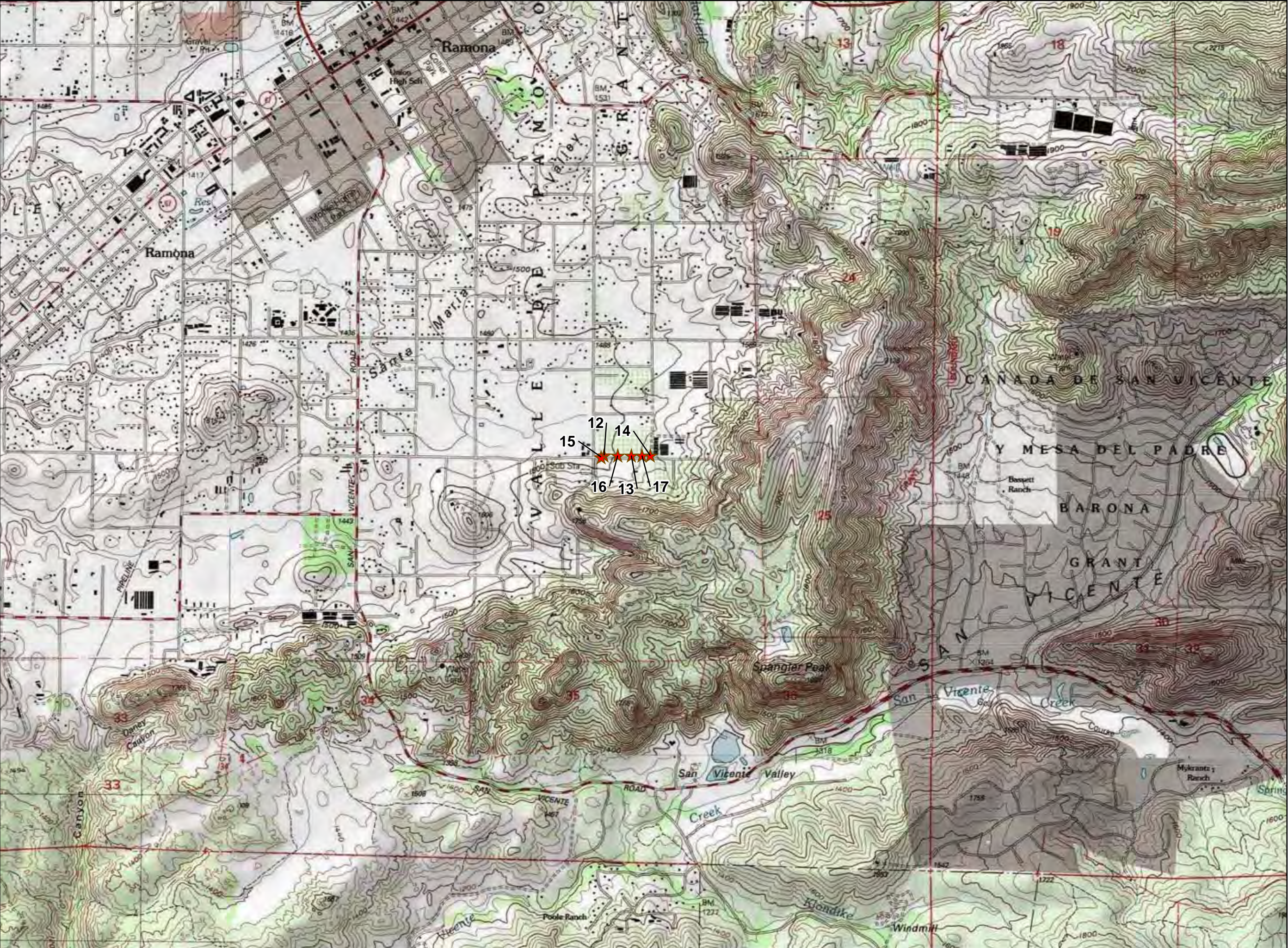
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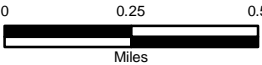
**WOOD TO STEEL
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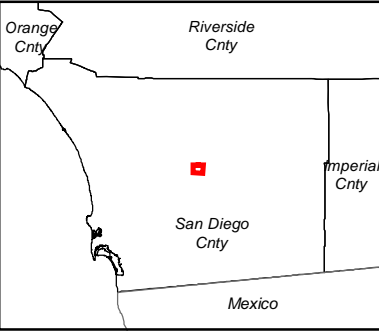
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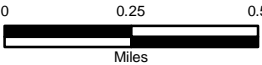
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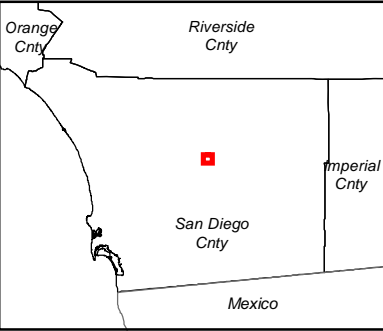
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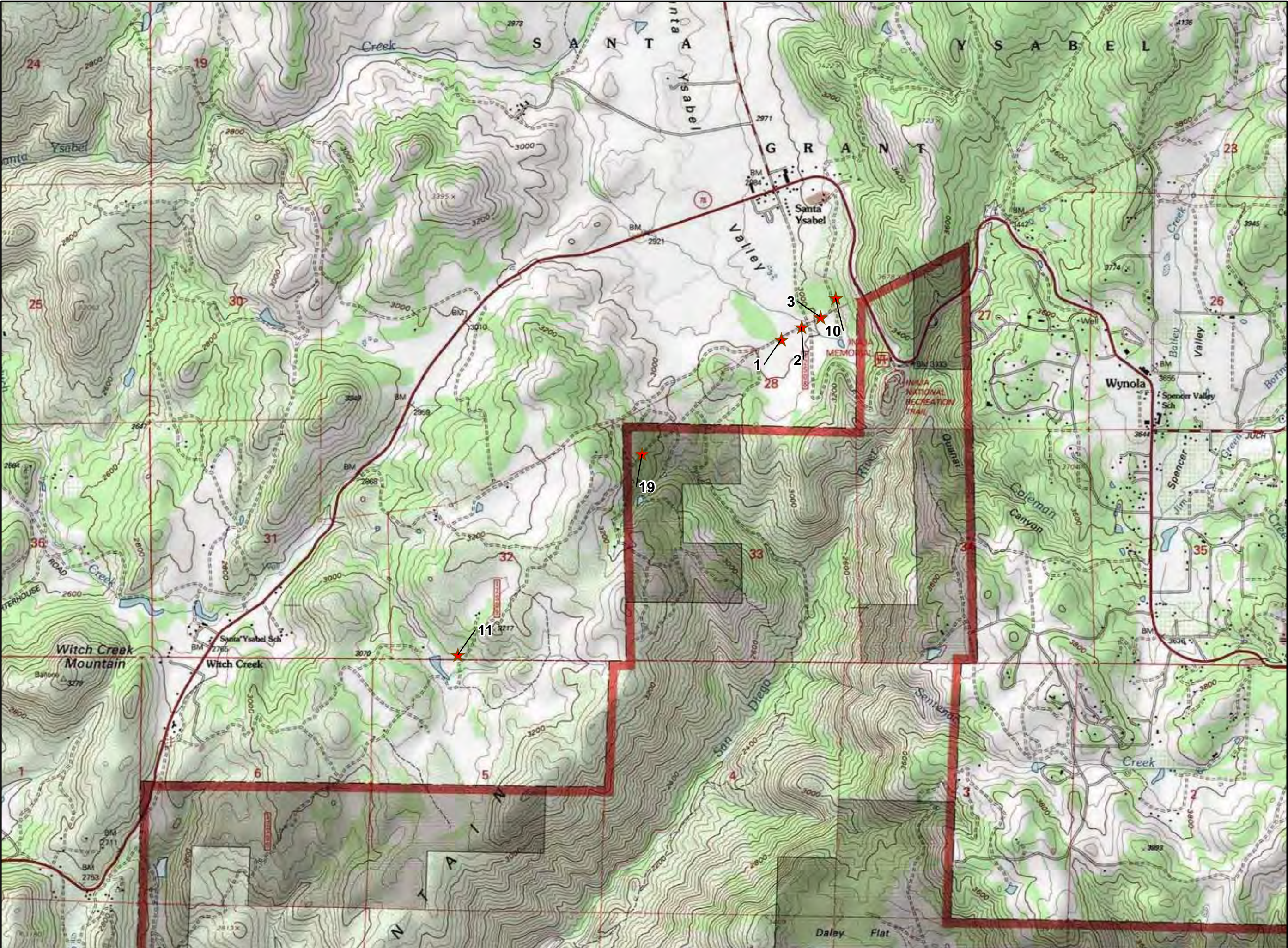
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Attachments

Attachment A

Wetland Determination Data Form

Some of the following field forms were altered with Chambers Group permission.

The actual pole numbers were replaced at the top of some of the field forms with arbitrary pole numbers and they are now in red.

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDGE TL 437/Helo Site City/County: Ramona / San Diego Sampling Date: 7/11/11
 Applicant/Owner: SDGE State: CA Sampling Point: WLI-PI
 Investigator(s): N. Perwin, M. Mazon Section Township Range: _____
 Landform (hillslope terrace etc.): hilo Slope Local relief (concave convex none): Concave Slope (%): 30%
 Subregion (LRR): D Lat: 33.040367 Long: -116.746318 Datum: NAD83
 Soil Map Unit Name: Holland Fine Sandy Loam NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: <u>Area used for grazing over several decades. Vegetation is disturbed from grazing/trampling & introduced species. Soils are heavily compacted due to ungulates.</u>		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>10' x 10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
Sapling/Shrub Stratum (Plot size: <u>10' x 10'</u>) <u>0%</u> = Total Cover				
1. <u>None</u>				Hydrophytic Vegetation Indicators: ____ Dominance Test is >50% ____ Prevalence Index is ≤3.0 ____ Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation* (Explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
2. _____				
3. _____				
4. _____				
5. _____				
Herb Stratum (Plot size: <u>10' x 10'</u>) <u>0%</u> = Total Cover				
1. <u>Ambrosia aranthicaarpa</u>	<u>30</u>	<u>Y</u>	<u>-</u>	
2. <u>Rumex crispus</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Lactuca serriola</u>	<u>1</u>	<u>N</u>	<u>FAC</u>	
4. <u>Bromus diandrus</u>	<u>5</u>	<u>N</u>	<u>-</u>	
5. <u>Asclepias californica</u>	<u>1</u>	<u>N</u>	<u>-</u>	
6. <u>Bromus tectorum</u>	<u>1</u>	<u>N</u>	<u>-</u>	
7. <u>Clarkia pinnatifida</u>	<u>1</u>	<u>N</u>	<u>-</u>	
8. <u>Juncus mexicanus</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
Woody Vine Stratum (Plot size: <u>10' x 10'</u>) <u>70%</u> = Total Cover				
1. <u>None</u>				
2. _____				
% Bare Ground in Herb Stratum <u>30%</u> % Cover of Biotic Crust <u>0</u>				
Remarks: <u>Hydric Soil Not Present, Therefore Prevalence Index is not valid.</u>				

SOIL

Sampling Point WLI-P1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type	Loc ²		
1	10YR 2/2	100					Sandy Loam	
4	10YR 2/2	98	5YR 5/6	2%	RM	m	Sandy Loam	
12	10YR 2/2	100					Sandy Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks: Minimae Redox observed at 4". Soil Chroma and Percent Redox observed do not meet minimum Requirements for Soil to be Considered hydric (ie: Chroma of 1 a less and 2% Redox Concentrations)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input checked="" type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

Secondary Indicators (2 or more required)

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____

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

Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)

Wetland Hydrology Present? Yes X No _____

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

Remarks

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDGE TL6371 P103 City/County: Ramona / San Diego Sampling Date: 7/11/11
 Applicant/Owner: San Diego Gas and Electric Company State: CA Sampling Point: WL-2-P1
 Investigator(s): Nichole Perin, Maya Mazon Section Township Range: _____
 Landform (hillslope terrace etc.): hill Slope Local relief (concave convex none): Concave Slope (%): 15%
 Subregion (LRR): D Lat: 33.048410 Long: -116.738063 Datum: NAD83
 Soil Map Unit Name: Loamy Alluvial land NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X Soil X or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: <u>Area historically grazed for decades. Veg disturbed from trampling and competition w/ non-native species. Soils Heavy Compacted. Area with "wet meadow"</u>		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>10' x 10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>1/2 (50%)</u> (A/B)
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
= Total Cover				
Sapling/Shrub Stratum (Plot size: <u>10' x 10'</u>)				
1. <u>None</u>				Prevalence Index worksheet: Total % Cover of: OBL species <u>31</u> x 1 = <u>31</u> FACW species <u>10</u> x 2 = <u>20</u> FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: <u>37</u> (A) <u>74</u> (B) Prevalence Index = B/A = <u>2</u>
2. _____				
3. _____				
4. _____				
= Total Cover				
Herb Stratum (Plot size: <u>10' x 10'</u>)				
1. <u>Elaeagnus macrostachya</u>	<u>30%</u>	<u>yes</u>	<u>OBL</u>	Prevalence Index worksheet: Total % Cover of: OBL species <u>31</u> x 1 = <u>31</u> FACW species <u>10</u> x 2 = <u>20</u> FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: <u>37</u> (A) <u>74</u> (B) Prevalence Index = B/A = <u>2</u>
2. <u>Juncus dubius</u>	<u>5%</u>	<u>NO</u>	<u>FACW*</u>	
3. <u>Rumex crispus</u>	<u>1%</u>	<u>NO</u>	<u>FACW*</u>	
4. <u>Hordeum murinum</u>	<u>30%</u>	<u>yes</u>	<u>NT</u>	
5. <u>Eremocarpus setigerus</u>	<u>1%</u>	<u>NO</u>	<u>NONE</u>	Prevalence Index worksheet: Total % Cover of: OBL species <u>31</u> x 1 = <u>31</u> FACW species <u>10</u> x 2 = <u>20</u> FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: <u>37</u> (A) <u>74</u> (B) Prevalence Index = B/A = <u>2</u>
6. <u>Heliotropium curassavicum</u>	<u>1%</u>	<u>NO</u>	<u>OBL</u>	
7. _____				
8. _____				
= Total Cover				
Woody Vine Stratum (Plot size: <u>10' x 10'</u>)				
1. <u>NONE</u>				Prevalence Index worksheet: Total % Cover of: OBL species <u>31</u> x 1 = <u>31</u> FACW species <u>10</u> x 2 = <u>20</u> FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: <u>37</u> (A) <u>74</u> (B) Prevalence Index = B/A = <u>2</u>
2. _____				
= Total Cover				
% Bare Ground in Herb Stratum <u>32</u> % Cover of Biotic Crust <u>0</u>				
Remarks: <u>Prevalence Index Accepted due to disturbance in Area and presence of hydric soils and wetland hydrology</u>				

SOIL

Sampling Point: WL 2-P1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (LRR C)
- ___ 1 cm Muck (A9) (LRR D)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)

- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ☒ Redox Dark Surface (F6j)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

- ☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

¹Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (Nonriverine)
- ___ Sediment Deposits (B2) (Nonriverine)
- ___ Drift Deposits (B3) (Nonriverine)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)

- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☒ Oxidized Rhizospheres along Living Roots (C3)
- ☒ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ 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)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches) _____

Water Table Present? Yes ☐ No ☒ Depth (inches)

Saturation Present? Yes ☐ No ☒ Depth (inches):

Wetland Hydrology Present? Yes X No

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

Remarks

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Stone TL637 / P103 City/County Ramona / San Diego Sampling Date 7/1/11
 Applicant/Owner: San Diego GAS and Electric Company State: CA Sampling Point: 10L3-P2
 Investigator(s): Nichole Genin, Maya Mason Section Township Range: _____
 Landform (hillslope, terrace, etc.): low slope Local relief (concave, convex, none): Concave Slope (%): 10%
 Subregion (LRR): D Lat: 33.647098 Long: -116.734239 Datum: NAD83
 Soil Map Unit Name: Loamy Alluvial land NWI classification: NONE

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? NO (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes _____ No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes _____ No _____	
Wetland Hydrology Present?	Yes _____ No _____	
Remarks: <u>Area historically used for cattle grazing for decades. Trampling of vegetation / competition with non-native species. Soils compacted.</u>		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size <u>10' x 10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>1/2, 50%</u> (A/B)
1. <u>Juncus mexicanus</u>	<u>25%</u>			
2. <u>Rumex</u>				
3. <u>No Trees</u>				
4. _____				
_____ <u>0%</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>10' x 10'</u>)				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0%</u> x 1 = <u>0</u> FACW species <u>26%</u> x 2 = <u>52</u> FAC species <u>0%</u> x 3 = <u>0</u> FACU species <u>16%</u> x 4 = <u>64</u> UPL species <u>0%</u> x 5 = <u>0</u> Column Totals: <u>42</u> (A) <u>64</u> (B) Prevalence Index = B/A = <u>2</u>
1. <u>No Saplings or shrubs</u>				
2. _____				
3. _____				
4. _____				
5. _____				
_____ <u>0%</u> = Total Cover				
Herb Stratum (Plot size <u>10' x 10'</u>)				Hydrophytic Vegetation Indicators: ____ Dominance Test is >50% <u>X</u> Prevalence Index is ≤ 3.0 ¹ ____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Juncus mexicanus</u>	<u>25%</u>	<u>yes</u>	<u>FACW</u>	
2. <u>Rumex crispus</u>	<u>1%</u>	<u>NO</u>	<u>FACW</u>	
3. <u>Clarkia purpurea</u>	<u>2%</u>	<u>NO</u>	<u>—</u>	
4. <u>Ambrosia artemisiifolia</u>	<u>25%</u>	<u>yes</u>	<u>—</u>	
5. <u>Bromus nortensis</u>	<u>15%</u>	<u>NO</u>	<u>FACU</u>	
6. <u>Erodium cicutarium</u>	<u>15%</u>	<u>NO</u>	<u>—</u>	
7. <u>Lotus purshianus</u>	<u>10%</u>	<u>NO</u>	<u>—</u>	
8. <u>Vulpia myuros</u>	<u>1%</u>	<u>NO</u>	<u>FACU</u>	
_____ <u>84%</u> = Total Cover				
Woody Vine Stratum (Plot size <u>10' x 10'</u>)				Hydrophytic Vegetation Present? Yes _____ No _____
1. <u>No Woody Vines</u>				
2. _____				
_____ <u>0%</u> = Total Cover				
% Bare Ground in Herb Stratum <u>16%</u>		% Cover of Biotic Crust <u>0</u>		
Remarks				

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

SOIL

Sampling Point: WL2-P2

Sampling Point WCL-7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type	Loc ²		
<u>1</u>	<u>10YR 5/2</u>	<u>90</u>	<u>5YR 5/6</u>	<u>5</u>	<u>Rm</u>	<u>m</u>	<u>Sandy loam</u>	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)	
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches)	<input checked="" type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches)	<input checked="" type="checkbox"/>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches)	<input checked="" type="checkbox"/>
		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge monitoring, well, aerial photos, previous inspections), if available			
Remarks			

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDGE TL637/ P104 City/County: Ramona / San Diego Sampling Date: 7/11/11
 Applicant/Owner: SDGE State: CA Sampling Point: WL3-P1
 Investigator(s): N. Cervin, M. Mazon Section Township Range: _____
 Landform (hillslope terrace etc.): Valley Local relief (concave convex none): Concave Slope (%): 10%
 Subregion (LRR): D Lat: 33.08402 Long: -116.73352 Datum: NAD83
 Soil Map Unit Name: Holland Fine Sandy Loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: <u>Area grazed for decades. Soils are compacted by ungulates. Plants disturbed by grazing, trampling and non-native species.</u>		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>None</u>				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)
2. _____				Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC	<u>0%</u> (A/B)
4. _____					
				Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: <u>10'x10'</u>)				Total % Cover of:	Multiply by:
1. <u>None</u>				OBL species <u>1</u>	x 1 = <u>1</u>
2. _____				FACW species <u>2</u>	x 2 = <u>4</u>
3. _____				FAC species _____	x 3 = _____
4. _____				FACU species <u>10</u>	x 4 = <u>72</u>
5. _____				UPL species _____	x 5 = _____
				Column Totals: <u>21</u> (A)	<u>77</u> (B)
				Prevalence Index = B/A = <u>3.6</u>	
Herb Stratum (Plot size <u>10'x10'</u>)				Hydrophytic Vegetation Indicators:	
1. <u>Lotus Puschianus</u>	<u>35%</u>	<u>yes</u>	<u>-</u>	___ Dominance Test is >50%	
2. <u>Vulpia myuros</u>	<u>15%</u>	<u>N</u>	<u>FACU</u>	___ Prevalence Index is ≤3.0	
3. <u>Juncus Mexicanus</u>	<u>1%</u>	<u>N</u>	<u>FACW</u>	___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
4. <u>Elycharia macrostachya</u>	<u>1%</u>	<u>N</u>	<u>OBL</u>	<u>X</u> Problematic Hydrophytic Vegetation ¹ (Explain)	
5. <u>Hemizonia fasciculata</u>	<u>35%</u>	<u>yes</u>	<u>-</u>		
6. <u>Juncus dubius</u>	<u>1%</u>	<u>N</u>	<u>FACW</u>		
7. <u>Bromus hordeaceus</u>	<u>3%</u>	<u>N</u>	<u>FACU</u>		
8. _____					
Woodv Vine Stratum (Plot size <u>10'x10'</u>)				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
1. <u>None</u>				Hydrophytic Vegetation Present? Yes <u>X</u> No _____	
2. _____					
91 = Total Cover					
0% = Total Cover					
9 = % Bare Ground in Herb Stratum				9 = % Cover of Biotic Crust	

Remarks: Area recently grazed. Evidence of grazing were observed near soil pit site. Areas adjacent to soil pit site had higher percent

Sampling Point WL3-Pj

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input checked="" type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>—</u>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>—</u>
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>—</u>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge monitoring well aerial photos previous inspections) if available		
Remarks		

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDGE TL 6371 P104 City/County: Ramona / San Diego Sampling Date: 7/11/11
 Applicant/Owner: SDGE State: CA Sampling Point: WL3-P2
 Investigator(s): N. Cervin, M. Magon Section Township Range: _____
 Landform (hillslope terrace etc.): Valley Local relief (concave convex none): Concave Slope (%) 5%
 Subregion (LRR): D Lat: 33.048248 Long: -116.732788 Datum: NAD83
 Soil Map Unit Name: Holland Fine Sandy Loam NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: <u>Area grazed for decades. Soils compacted by ungulates. Vegetation disturbed by grazing/trampling and competition with non-native species.</u>		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>10' x 10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
Sapling/Shrub Stratum (Plot size: <u>10' x 10'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
Herb Stratum (Plot size: <u>10' x 10'</u>)				Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0 _____ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) <u>X</u> Problematic Hydrophytic Vegetation (Explain)
1. <u>Juncus mexicanus</u>	<u>5%</u>	<u>N</u>	<u>FACW</u>	
2. <u>Eleocharis macrostachya</u>	<u>5%</u>	<u>N</u>	<u>OBL</u>	
3. <u>Vulpia myuros</u>	<u>40%</u>	<u>yes</u>	<u>FACU</u>	
4. <u>Clarkia purpurea</u>	<u>1%</u>	<u>N</u>	<u>-</u>	
5. <u>Rumex crispus</u>	<u>1%</u>	<u>N</u>	<u>FACW</u>	
6. <u>Lactuca scariola</u>	<u>1%</u>	<u>N</u>	<u>FAC</u>	
7. <u>Hirschfeldia incana</u>	<u>1%</u>	<u>N</u>	<u>-</u>	
Woody Vine Stratum (Plot size: <u>10' x 10'</u>)				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Hydrophytic Vegetation Present? Yes <u>X</u> No _____
1. _____	_____	_____	_____	
% Bare Ground in Herb Stratum <u>41%</u> % Cover of Biotic Crust <u>0</u> 2. _____				

Remarks: Area recently grazed. Evidence of grazing was observed in area. Areas adjacent to soil pit had higher concentrations (cover) of hydrophytic vegetation. Also, the area is

Sampling Point WL3-P7

[illegible]

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (LRR C)
- ___ 1 cm Muck (A9) (LRR D)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)

- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ☒ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Type. _____
Depth (inches). _____

Hydric Soil Present? Yes X No

HYDROLOGY

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (Nonriverine)
- ___ Sediment Deposits (B2) (Nonriverine)
- ___ Drift Deposits (B3) (Nonriverine)
- ___ 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 Roots (C3)
☒ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ 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)
- ___ FAC-Neutral Test (D5)

Surface Water Present? Yes ☐ No ☒ Depth (inches): 1

Water Table Present? Yes ☐ No ☒ Depth (inches): 1

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): 1

Wetland Hydrology Present? Yes X No

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

Remarks

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site SDNE TL 671 'P104' City/County Ramona / San Diego Sampling Date 7/11/11
 Applicant/Owner: SDNE State: CA Sampling Point: WL3-P3
 Investigator(s): N. Cavin, M. Mazon Section Township Range _____
 Landform (hillslope terrace etc.): Valley Local relief (concave convex none): Concave Slope (%): 5%
 Subregion (LRR): D Lat: 33.048339 Long: -116.732806 Datum: NAD83
 Soil Map Unit Name: Holland Fine Sandy Loam NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks: <u>Area grazed for decades. Soils compacted by ungulates. Vegetation disturbed by grazing / Trampling and competition by non-native species.</u>		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size <u>10' x 10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
Sapling/Shrub Stratum (Plot size: <u>10' x 10'</u>)				Prevalence Index = B/A = <u>3.6</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
Herb Stratum (Plot size <u>10' x 10'</u>)				Hydrophytic Vegetation Indicators: ____ Dominance Test is >50% ____ Prevalence Index is ≤3.0' ____ Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation' (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
1. <u>Clarkia Purpurea</u>	<u>25%</u>	<u>YES</u>	<u>-</u>	
2. <u>Vulpia myuros</u>	<u>5%</u>	<u>NO</u>	<u>FACU</u>	
3. <u>Lactuca Scariola</u>	<u>1%</u>	<u>NO</u>	<u>FAC</u>	
4. <u>Bromus Hordeaceus</u>	<u>5%</u>	<u>NO</u>	<u>FACU</u>	
5. <u>Eriochloa setigera</u>	<u>30%</u>	<u>YES</u>	<u>-</u>	
6. <u>Juncus mexicanus</u>	<u>1%</u>	<u>NO</u>	<u>FACW</u>	
7. <u>Rumex crispus</u>	<u>1%</u>	<u>NO</u>	<u>FACW</u>	
Woody Vine Stratum (Plot size <u>10' x 10'</u>)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1. _____	_____	_____	_____	
2. _____				
% Bare Ground in Herb Stratum <u>32%</u> % Cover of Biotic Crust <u>0%</u>				

Remarks: Although Area is disturbed, Problematic Hydrophytic Vegetation is not used as an Indicator because hydric soils and wetland hydrology are not present.

Sampling Point WL3-P3

[illegible]

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (LRR C)
- ___ 1 cm Muck (A9) (LRR D)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)

- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6;
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No ☒

Remarks: No Evidence of hydric soils

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required):

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (Nonriverine)
- ___ Sediment Deposits (B2) (Nonriverine)
- ___ Drift Deposits (B3) (Nonriverine)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)

- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ 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)
- ___ FAC-Neutral Test (D5)

Surface Water Present? Yes ☐ No ☒ Depth (inches) _____

Water Table Present? Yes ☐ No ☒ Depth (inches) _____

Saturation Present? Yes ☐ No ☒ Depth (inches) _____
(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

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

Remarks No Evidence of Wetland hydrology.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: SDGE TL 637 / P104 City/County Ramona / San Diego Sampling Date 7/11/11
 Applicant/Owner: SDGE State: CA Sampling Point: WL3-P4
 Investigator(s): N. Cavin, M. Magon Section Township Range _____
 Landform (hillslope terrace etc.): Valley Local relief (concave convex none): Convex Slope (%): 5%
 Subregion (LRR) D Lat: 33.048209 Long: -116.732770 Datum: NAD83
 Soil Map Unit Name: Holland Fine sandy loam NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks: <u>Area grazed for decades. Soils compacted from cattle and vegetation is disturbed from grazing / trampling and competition from non-native plant species.</u>		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
Sapling/Shrub Stratum (Plot size: <u>10'x10'</u>) <u>0%</u> = Total Cover				Hydrophytic Vegetation Indicators: ____ Dominance Test is >50% ____ Prevalence Index is ≤3.0' ____ Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation* (Explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
Herb Stratum (Plot size: <u>10'x10'</u>) <u>0%</u> = Total Cover				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1. <u>Clarkia Purpurea</u>	<u>5%</u>	<u>no</u>	<u>—</u>	
2. <u>Xuepia myrsine</u>	<u>50%</u>	<u>yes</u>	<u>FACU</u>	
3. <u>Bromus hordeaceus</u>	<u>10%</u>	<u>no</u>	<u>FACU</u>	
4. <u>Hirsnfeldia incana</u>	<u>5%</u>	<u>no</u>	<u>FACU</u>	
5. <u>Emerocarpus setigeres</u>	<u>5%</u>	<u>no</u>	<u>—</u>	
6. <u>Hemizonia fasciculata</u>	<u>20%</u>	<u>no</u>	<u>—</u>	
7. <u>Hordeum murinum</u>	<u>5%</u>	<u>no</u>	<u>—</u>	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
Woody Vine Stratum (Plot size: <u>10'x10'</u>) <u>100%</u> = Total Cover				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0%</u> = Total Cover				
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>0</u>				

Remarks: Although Area is disturbed, There is no evidence of hydric soils and / or wetland hydrology.

Sampling Point

WL3-P4
~~WL9-P4~~

[illegible]

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils¹:

- | | | |
|--|---|---|
| <input type="checkbox"/> Histosol (A1)
<input type="checkbox"/> Histic Epipedon (A2)
<input type="checkbox"/> Black Histic (A3)
<input type="checkbox"/> Hydrogen Sulfide (A4)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)
<input type="checkbox"/> Depleted Below Dark Surface (A11)
<input type="checkbox"/> Thick Dark Surface (A12)
<input type="checkbox"/> Sandy Mucky Mineral (S1)
<input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Vernal Pools (F9) | <input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Other (Explain in Remarks) |
|--|---|---|

³Indicators of hydrophytic vegetation and welland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches).

Hydric Soil Present? Yes _____ No ☒

Remarks: No Evidence of Hydric Soils

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required):

- | Primary Indicators (1 or more required) | | Secondary Indicators (2 or more required) |
|--|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Water Marks (B1) (Riverine) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Biotic Crust (B12) | <input type="checkbox"/> Sediment Deposits (B2) (Riverine) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Drift Deposits (B3) (Riverine) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> FAC-Neutral Test (D5) |

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches) _____

Water Table Present? Yes ☐ No ☒ Depth (inches) _____

Saturation Present? Yes _____ No X Depth (inches) _____
(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No X

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

Remarks No Evidence of Wetland hydrology.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site SDHE TL 6371 P.107 City/County Ramona/Chandiego Sampling Date 7/12/11
 Applicant/Owner SDHE State CA Sampling Point WLY-PI
 Investigator(s) N. Cervin, M. Mazon Section Township Range _____
 Landform (hillslope terrace etc.) Valley Local relief (concave convex none) Concave Slope (%) 5%
 Subregion (LRR) D Lat: 33.051849 Long -116.728879 Datum: NAD83
 Soil Map Unit Name Loamy Alluvial land NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no. explain in Remarks)
 Are Vegetation X Soil X or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: <u>Area disturbed by grazing</u>		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC <u>66%</u> (A/B)
1. <u>Quercus Agifolia</u>	<u>10%</u>	<u>yes</u>	<u>—</u>	
2. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>25</u> x 1 = <u>25</u> FACW species <u>71</u> x 2 = <u>142</u> FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals <u>96</u> (A) <u>167</u> (B) Prevalence Index = B/A = <u>1.7</u>
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____	_____	_____	_____	
Sapling/Shrub Stratum (Plot size <u>10'x10'</u>) <u>10%</u> = Total Cover				
1 <u>None</u>	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
Herb Stratum (Plot size <u>10'x10'</u>) <u>0%</u> = Total Cover				
1 <u>Juncus dubius</u>	<u>40%</u>	<u>yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 ____ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Hydrophytic Vegetation Present? Yes <u>X</u> No _____
2 <u>Rumex crispus</u>	<u>1%</u>	<u>N</u>	<u>FACW</u>	
3 <u>Juncus mexicanus</u>	<u>30%</u>	<u>yes</u>	<u>FACW</u>	
4 <u>Calandrinia ciliata</u>	<u>1%</u>	<u>N</u>	<u>—</u>	
5 <u>Eleocharis macrostachya</u>	<u>25%</u>	<u>N</u>	<u>OBL</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
Woody Vine Stratum (Plot size <u>10'x10'</u>) <u>97%</u> = Total Cover				
1 <u>None</u>	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0%</u> = Total Cover				
% Bare Ground in Herb Stratum <u>3%</u>	% Cover of Biotic Crust <u>0</u>			

Remarks

SOIL

Sampling Point WL4-P1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5) (LRR C)
- 1 cm Muck (A9) (LRR D)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- ☒ Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Vernal Pools (F9)

- ☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F13)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required, check all that apply)

Secondary Indicators (2 or more required)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1) (Nonriverine)
- ☐ Sediment Deposits (B2) (Nonriverine)
- ☐ Drift Deposits (B3) (Nonriverine)
- ☐ Surface Soil Cracks (B6)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Water-Stained Leaves (B9)

- ☐ Salt Crust (B11)
- ☐ Biotic Crust (B12)
- ☐ Aquatic Invertebrates (B13)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres along Living Roots (C3)
- ☒ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ 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)
- FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches):

Water Table Present? Yes ☐ No ☒ Depth (inches) _____

Saturation Present? Yes ☐ No ☒ Depth (inches) _____

Wetland Hydrology Present? Yes X No

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

Remarks

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDBE TL 637/1 P107 City/County Ramona / San Diego Sampling Date 7/12/11
 Applicant/Owner: SDBE State CA Sampling Point: WL4-P2
 Investigator(s): N. Lenin, Maya Mazon Section Township Range _____
 Landform (hillslope terrace etc.): valley Local relief (concave convex none): concave Slope (%) 5%
 Subregion (LRR): b Lat: 33.052056 Long: -116.729019 Datum: NAD83
 Soil Map Unit Name: loamy Alluvial land NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: <u>Area disturbed by grazing.</u>		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
Sapling/Shrub Stratum (Plot size: <u>10'x10'</u>) <u>0%</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiplied by: OBL species <u>1%</u> x 1 = <u>1</u> FACW species <u>91%</u> x 2 = <u>182</u> FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: <u>92</u> (A) <u>183</u> (B) Prevalence Index = B/A = <u>1.9</u>
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
Herb Stratum (Plot size <u>10'x10'</u>) <u>6%</u> = Total Cover				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0 _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ² (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Colium multiflorum</u>	<u>1%</u>	<u>No</u>	<u>-</u>	
2. <u>Juncus Dubious</u>	<u>1%</u>	<u>No</u>	<u>FACU</u>	
3. <u>Calandrinia ciliata</u>	<u>1%</u>	<u>No</u>	<u>-</u>	
4. <u>Ambrosia acanthocarpa</u>	<u>1%</u>	<u>No</u>	<u>-</u>	
5. <u>Hemizonia fasciculata</u>	<u>1%</u>	<u>No</u>	<u>-</u>	
6. <u>Heliotropium curassavicum</u>	<u>1%</u>	<u>No</u>	<u>OBL</u>	
7. <u>Distichlis spicata</u>	<u>90%</u>	<u>Yes</u>	<u>FACU</u>	
3. _____				
<u>96%</u> = Total Cover				
Woody Vine Stratum (Plot size <u>10'x10'</u>) <u>0%</u> = Total Cover				
1. <u>None</u>				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
2. _____				
<u>0%</u> = Total Cover				
% Bare Ground in Herb Stratum <u>4%</u> % Cover of Biotic Crust <u>0</u>				
Remarks				

SOIL

Sampling Point: WL4-P2

[illegible]

HYDROLOGY

Wetland Hydrology Indicators:		Primary Indicators (minimum of one required, check all that apply)		Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Water Marks (B1) (Riverine)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input checked="" type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Dry-Season Water Table (C2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6)		<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)			
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> Water-Stained Leaves (B9)			
Field Observations:					
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):			
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):			
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):			
(includes capillary fringe)				Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections) if available:					
Remarks:					

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDGE TL 6371-P114 City/County: Ramona / San Diego Sampling Date: 7/13/11
 Applicant/Owner: SDGE State: CA Sampling Point: WL5-P1
 Investigator(s): N. Kevin, M. Mazon Section Township Range: _____
 Landform (hillslope terrace etc.): Valley Local relief (concave convex none): Concave Slope (%): 0
 Subregion (LRR): D Lat: 33.06096 Long: -116.71882 Datum: NAD83
 Soil Map Unit Name: Loamy Alluvial Land NWI classification: NONE
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks:		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>None</u>				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)
2. _____				Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC	<u>100%</u> (A/B)
4. _____				Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size <u>10'x10'</u>)				Total % Cover of:	Multiply by:
1. <u>None</u>	<u>0%</u> = Total Cover			OBL species	x 1 = _____
2. _____				FACW species	<u>51</u> x 2 = <u>102</u>
3. _____				FAC species	<u>25</u> x 3 = <u>75</u>
4. _____				FACU species	x 4 = _____
5. _____				UPL species	x 5 = _____
Herb Stratum (Plot size <u>10'x10'</u>)				Column Totals	<u>76</u> (A) <u>177</u> (B)
1. <u>Juncus dubius</u>	<u>5%</u>	<u>N</u>	<u>FACW</u>	Prevalence Index = B/A = <u>2.3</u>	
2. <u>Lolium Arvense</u>	<u>25%</u>	<u>yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators:	
3. <u>Juncus mexicanus</u>	<u>5%</u>	<u>N</u>	<u>FACW</u>	<u>X</u> Dominance Test is >50%	
4. <u>Rumex crispus</u>	<u>1%</u>	<u>N</u>	<u>FACW</u>	<u>X</u> Prevalence Index is ≤30'	
5. <u>Aristichlis spicata</u>	<u>40%</u>	<u>yes</u>	<u>FACW</u>	____ Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)	
6. _____				____ Problematic Hydrophytic Vegetation* (Explain)	
7. _____				*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
8. _____				Hydrophytic Vegetation Present? Yes <u>X</u> No _____	
Woody Vine Stratum (Plot size <u>10'x10'</u>)					
1. <u>None</u>	<u>0%</u> = Total Cover				
2. _____					
% Bare Ground in Herb Stratum <u>24%</u> % Cover of Biotic Crust <u>0</u>					
Remarks:					

SOIL

Sampling Point WL5-P1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

²Location: PL=Pore Lining. M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- | | | |
|--|---|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) | <input type="checkbox"/> 1 cm Muck (A9) (LRR C) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) | <input type="checkbox"/> 2 cm Muck (A10) (LRR B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) | <input type="checkbox"/> Reduced Vertic (F18) |
| <input checked="" type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Red Parent Material (TF2) |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) | |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) | |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Depressions (F8) | |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Vernal Pools (F9) | |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required):

- | Primary Indicators (12 or more required) | | Secondary Indicators (2 or more required) |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Water Marks (B1) (Riverine) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Biotic Crust (B12) | <input type="checkbox"/> Sediment Deposits (B2) (Riverine) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Drift Deposits (B3) (Riverine) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input checked="" type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> FAC-Neutral Test (D5) |

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____

Water Table Present? Yes ☐ No ☒ Depth (inches) _____

Saturation Present? Yes ☐ No ☒ Depth (inches) _____

Wetland Hydrology Present? Yes X No

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

Remarks

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SNGE TL 637, P129 City/County: Romana / San Diego Sampling Date: 7/13/11
 Applicant/Owner: San Diego Gas and Electric Company State: CA Sampling Point: WL-6 (17)
 Investigator(s): Nichole Jensen Section Township Range: _____
 Landform (hillslope terrace etc.): not a slope Local relief (concave convex, none): convex Slope (%): 10%
 Subregion (LRR): _____ Lat: 33.077112 Long: -116.700582 Datum: NAD 83
 Soil Map Unit Name: Holland fine stony fine sandy loam NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: <u>Area historically used for cattle grazing for decades. Vegetation Disturbed from Trampling & competition from non-native species. Soils Compacted.</u>		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size <u>10' x 10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>1/2</u> 50% (A/B)
1. <u>none</u>				
2. _____				
3. _____				
4. _____				
Sapling/Shrub Stratum (Plot size: <u>10' x 10'</u>) <u>0%</u> = Total Cover				
1. <u>none</u>				Hydrophytic Vegetation Indicators: ____ Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0' ____ Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation* (Explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
3. _____				
4. _____				
5. _____				
Herb Stratum (Plot size <u>10' x 10'</u>) <u>0%</u> = Total Cover				
1. <u>Euphorbia myrsinites</u>	<u>45%</u>	<u>yes</u>	<u>FACU</u>	
2. <u>Eleocharis macrostachya</u>	<u>30%</u>	<u>yes</u>	<u>OBL</u>	
3. <u>Rumex crispus</u>	<u>1%</u>	<u>no</u>	<u>FACW</u>	
4. <u>Ambrosia arcanthicaarpa</u>	<u>1%</u>	<u>no</u>	<u>—</u>	
5. <u>Lotium multiflorum</u>	<u>1%</u>	<u>no</u>	<u>—</u>	
6. <u>Hordeum murinum</u>	<u>5%</u>	<u>no</u>	<u>NT</u>	
7. <u>Eriogonum setigerum</u>	<u>1%</u>	<u>no</u>	<u>—</u>	
8. <u>Hemizonia fasciculata</u>	<u>15%</u>	<u>no</u>	<u>—</u>	
Woody Vine Stratum (Plot size <u>10' x 10'</u>) <u>99%</u> = Total Cover				
1. <u>none</u>				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
2. _____				
% Bare Ground in Herb Stratum <u>1%</u> % Cover of Biotic Crust <u>0%</u> = Total Cover				

Remarks

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDGE TL 637 / P148 City/County Rancho / San Diego Sampling Date 7/13/11
 Applicant/Owner: San Diego Gas and Electric Company State: CA Sampling Point: WL7-P1
 Investigator(s): Nichole Terwin, Mayra Mayra Section Township Range: _____
 Landform (hillslope terrace etc.): valley Local relief (concave convex none): concave Slope (%) 10%
 Subregion (LRR) b Lat: 33.09998 Long: -116.67330 Datum: NAD83
 Soil Map Unit Name: loamy alluvial land NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology X significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	

Remarks: Area historically grazed by cattle for decades. Vegetation disturbed & has high competition from non-native species. Area also adjacent to access Rd. And is disturbed by human activities on a regular basis. Water diverted through area

VEGETATION - Use scientific names of plants. And under access Rd. through 1' comp. soils compact

Tree Stratum (Plot size: <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>1/2 50%</u> (A/B)
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
Sapling/Shrub Stratum (Plot size: <u>10'x10'</u>) <u>0%</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>1%</u> x 1 = <u>1</u> FACW species <u>1%</u> x 2 = <u>2</u> FAC species <u>45%</u> x 3 = <u>135</u> FACU species <u>20%</u> x 4 = <u>80</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>67</u> (A) <u>218</u> (B) Prevalence Index = B/A = <u>3.2</u>
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
5. _____				
Herb Stratum (Plot size: <u>10'x10'</u>) <u>0%</u> = Total Cover				
1. <u>Pumila crispata</u>	<u>1%</u>	<u>No</u>	<u>FACW</u>	
2. <u>Hemizonia fasciculata</u>	<u>15%</u>	<u>No</u>	<u>---</u>	
3. <u>Lolium perenne</u>	<u>45%</u>	<u>yes</u>	<u>FAC</u>	
4. <u>Bromus</u>				
5. <u>Heliotropium curassavicum</u>	<u>1%</u>	<u>No</u>	<u>OBL</u>	
6. <u>Bromus hordeaceus</u>	<u>20%</u>	<u>yes</u>	<u>FACU</u>	
7. _____				
8. _____				
Woody Vine Stratum (Plot size: <u>10'x10'</u>) <u>82%</u> = Total Cover				
1. <u>None</u>				
2. _____				
Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 ___ Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet) <u>X</u> Problematic Hydrophytic Vegetation* (Explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic				
Hydrophytic Vegetation Present? Yes <u>X</u> No _____				
% Bare Ground in Herb Stratum <u>18</u> % Cover of Biotic Crust <u>0</u> Remarks: <u>Area is highly disturbed. Hydric soils and wetland hydrology indicators present. Also 4 species have wetland status, including one obligate.</u>				

Sampling Point: WL7-P1

[illegible]

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)	
Primary Indicators (minimum of one required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)	
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input checked="" type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<u>0</u>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<u>0</u>
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches):	<u>0</u>
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data: stream gauge, monitoring well, aerial photos, previous inspections, if available			
Remarks			
* Pit taken at outer most extent of Row, on South Side. Entire Row to South of Pit is in the wet land			

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site SDGE TL 637 / P148 City/County Ramona / San Diego Sampling Date 7/13/11
 Applicant/Owner San Diego Gas And Electric Company State CA Sampling Point WL 7-P2
 Investigator(s) Nirhole Penuin, Maya Mazon Section Township Range _____
 Landform (hillslope terrace etc.) Valley Local relief (concave convex none): CONVEX Slope (%) 10%
 Subregion (LRR) D Lat: 33.10052 Long: -116.6373151 Datum: NAD83
 Soil Map Unit Name: Loamy Alluvial Land NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology X significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: <u>Area historically grazed for decades, vegetation disturbed & has competition from non-native species. Area also adjacent to access rd and is disturbed by human activities on a regular basis. Water diverted through area under access road through 1' cul.</u>		

VEGETATION – Use scientific names of plants. Soils very compact.

Tree Stratum (Plot size <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>12, 2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>1/2, 50%</u> (A/B)
1. <u>None</u>				
2. _____				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>30%</u> x 1 = <u>30</u> FACW species <u>5%</u> x 2 = <u>10</u> FAC species <u>15%</u> x 3 = <u>45</u> FACU species <u>5%</u> x 4 = <u>20</u> UPL species <u>0%</u> x 5 = <u>0</u> Column Totals <u>55</u> (A) <u>105</u> (B) Prevalence Index = B/A = <u>1.9</u>
3. _____				
4. _____				
5. _____				
Sapling/Shrub Stratum (Plot size <u>10'x10'</u>) <u>0%</u> = Total Cover				
1. <u>None</u>				Hydrophytic Vegetation Indicators: ____ Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0' ____ Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation* (Explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
3. _____				
4. _____				
5. _____				
Herb Stratum (Plot size <u>10'x10'</u>) <u>0%</u> = Total Cover				
1. <u>Hemizonia fasciculata</u>	<u>30%</u>	<u>yes</u>	<u>—</u>	
2. <u>Lolium perenne</u>	<u>15%</u>	<u>no</u>	<u>FAC</u>	
3. <u>Rumex crispus</u>	<u>5%</u>	<u>no</u>	<u>FACW</u>	
4. <u>Bromus hordeaceus</u>	<u>20%</u>	<u>no</u>	<u>FACU</u>	
5. <u>Polypogon monspeliensis</u>	<u>30%</u>	<u>yes</u>	<u>OBL</u>	
6. _____				
7. _____				
8. _____				
Woody Vine Stratum (Plot size <u>10'x10'</u>) <u>80%</u> = Total Cover				
1. <u>None</u>				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
2. _____				
% Bare Ground in Herb Stratum <u>20%</u> % Cover of Biotic Crust <u>0%</u>				
Remarks				

Sampling Point WL7-P2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- | | | |
|--|---|---|
| <input type="checkbox"/> Histosol (A1)
<input type="checkbox"/> Histie Epipedon (A2)
<input type="checkbox"/> Black Histie (A3)
<input type="checkbox"/> Hydrogen Sulfide (A4)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)
<input type="checkbox"/> Depleted Below Dark Surface (A11)
<input type="checkbox"/> Thick Dark Surface (A12)
<input type="checkbox"/> Sandy Mucky Mineral (S1)
<input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input checked="" type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Depleted Matrix (F3)
<input checked="" type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Vernal Pools (F9) | <input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Other (Explain in Remarks) |
|--|---|---|

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches). _____

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- | Primary Indicators (12 or more required) | | Secondary Indicators (2 or more required) |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Water Marks (B1) (Riverine) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Biotic Crust (B12) | <input type="checkbox"/> Sediment Deposits (B2) (Riverine) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Drift Deposits (B3) (Riverine) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input checked="" type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> FAC-Neutral Test (D5) |

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): 0

Water Table Present? Yes ☐ No ☒ Depth (inches): 0

Saturation Present? Yes ☐ No ☒ Depth (inches): 0
(includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

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

Remarks

WETLAND DETERMINATION DATA FORM – Arid West Region

Project Site: SDGE TL637 / P148 City/County: Rancho / San Diego Sampling Date: 7/13/11
 Applicant/Owner: SAN San Diego Gas and Electric Company State: CA Sampling Point: WL7-P3
 Investigator(s): Nichole Cerven Section Township Range: _____
 Landform (hillslope terrace etc.): Valley Local relief (concave convex none): Convex Slope (%): 10%
 Subregion (LRR): D Lat: 33.100120 Long: -116.67338 Datum: NAD83
 Soil Map Unit Name: Loamy Alluvial Land (Lu) NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology X significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: <u>Area historically grazed by cattle for decades. Vegetation disturbed & has competition from non-native species. Area also adjacent to access rd. And is disturbed by human activities. Water diverted through area and</u>		

VEGETATION – Use scientific names of plants. Under Access Rd thru 1' CMP. Soils very com

Tree Stratum (Plot size: <u>10' x 10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>none</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____				
Sapling/Shrub Stratum (Plot size: <u>10' x 10'</u>)				Prevalence Index worksheet:
1. <u>none</u>				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species <u>5%</u> x 1 = <u>5</u>
3. _____				FACW species <u>5%</u> x 2 = <u>10</u>
4. _____				FAC species <u>65%</u> x 3 = <u>195</u>
5. _____				FACU species <u>0%</u> x 4 = <u>0</u>
6. _____				UPL species <u>0%</u> x 5 = <u>0</u>
7. _____				Column Totals: <u>75</u> (A) <u>210</u> (B)
8. _____				Prevalence Index = B/A = <u>2.8</u>
Herb Stratum (Plot size: <u>10' x 10'</u>)				Hydrophytic Vegetation Indicators:
1. <u>Polygonum monspeliensis</u>	<u>5%</u>	<u>no</u>	<u>OBL</u>	___ Dominance Test is >50%
2. <u>Hemizonia fasciculata</u>	<u>10%</u>	<u>no</u>	<u>—</u>	___ Prevalence Index is ≤3.0'
3. <u>Lupinus bicolor</u>	<u>1%</u>	<u>no</u>	<u>—</u>	___ Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
4. <u>Lolium perenne</u>	<u>65%</u>	<u>yes</u>	<u>FAC</u>	___ Problematic Hydrophytic Vegetation' (Explain)
5. <u>Hordium murinum</u>	<u>5%</u>	<u>no</u>	<u>NI</u>	
6. <u>Rumex crispus</u>	<u>5%</u>	<u>no</u>	<u>FACW</u>	
7. _____				
8. _____				
Woody Vine Stratum (Plot size: <u>10' x 10'</u>)				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>none</u>				
2. _____				
% Bare Ground in Herb Stratum <u>9%</u> % Cover of Biotic Crust <u>0</u>				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
Remarks				

Sampling Point. WL7-93

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location, PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- | | | |
|--|--|---|
| <input type="checkbox"/> Histosol (A1)
<input type="checkbox"/> Histic Epipedon (A2)
<input type="checkbox"/> Black Histic (A3)
<input type="checkbox"/> Hydrogen Sulfide (A4)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)
<input type="checkbox"/> Depleted Below Dark Surface (A11)
<input type="checkbox"/> Thick Dark Surface (A12)
<input type="checkbox"/> Sandy Mucky Mineral (S1)
<input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input checked="" type="checkbox"/> Depleted Matrix (F3)
<input checked="" type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Dark Surface (F7)
<input checked="" type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Vernal Pools (F9) | <input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Other (Explain in Remarks) |
|--|--|---|

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches). _____

Hydric Soil Present? Yes ☒ No

Remarks: Soils also considered hydric by NRCS

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- | Primary Indicators (12 or more required) | | Secondary Indicators (2 or more required) |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Water Marks (B1) (Riverine) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Biotic Crust (B12) | <input type="checkbox"/> Sediment Deposits (B2) (Riverine) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Drift Deposits (B3) (Riverine) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input checked="" type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> FAC-Neutral Test (D5) |

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches) 0

Water Table Present? Yes ☐ No ☒ Depth (inches) 0

Saturation Present? Yes ☐ No ☒ Depth (inches) 0
(includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

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

Remarks

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDGE TL 6371 - P148 City/County: San Diego Sampling Date: 7/13/11
 Applicant/Owner: San Diego Gas and Electric Company State: CA Sampling Point: WL7-P4
 Investigator(s): Nicole Penin, Mary Morgan Section Township Range: _____
 Landform (hillslope terrace etc.): Flat Valley Local relief (concave convex none): concave Slope (%) 10%
 Subregion (LRR): D Lat: 33.09056 Long: -116.167348 Datum: NAD83
 Soil Map Unit Name: loamy alluvial land NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology X significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: <u>Site is disturbed. Area grazed for decades. Vegetation is disturbed by grazing & competition with non-native species. Area adjacent to access Rd. and is disturbed by human activities. Water is diverted through area under access Rd through 1' culvert.</u>		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>none</u>			
2. _____			
3. _____			
4. _____			

0% = Total Cover

Sapling/Shrub Stratum (Plot size <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>none</u>			
2. _____			
3. _____			
4. _____			
5. _____			

0% = Total Cover

Herb Stratum (Plot size <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Rumex crispus</u>	<u>10%</u>	<u>no</u>	<u>FACW</u>
2. <u>Hemizonia fasciculata</u>	<u>5%</u>	<u>no</u>	<u>UPL</u>
3. <u>Lolium perenne</u>	<u>100%</u>	<u>yes</u>	<u>FAC</u>
4. <u>Polypogon monspeliensis</u>	<u>5%</u>	<u>no</u>	<u>FACW</u>
5. <u>Hordeum murinum</u>	<u>10%</u>	<u>no</u>	<u>NI</u>
6. <u>Taraxacum officinale</u>	<u>5%</u>	<u>no</u>	<u>UPL</u>
7. _____			
8. _____			

95% = Total Cover

Woody Vine Stratum (Plot size <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>none</u>			
2. _____			

0% = Total Cover

% Bare Ground in Herb Stratum 5% % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0%</u>	x 1 = <u>0</u>
FACW species <u>15%</u>	x 2 = <u>30</u>
FAC species <u>100%</u>	x 3 = <u>180</u>
FACU species <u>0%</u>	x 4 = <u>0</u>
UPL species <u>10%</u>	x 5 = <u>50</u>
Column Totals: <u>85</u> (A)	<u>260</u> (B)

Prevalence Index = B/A = 3.0

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0

____ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation (Explain)

Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic Vegetation Present? Yes X No _____

Remarks

Sampling Point WL7-p4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- ³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches). _____

Hydric Soil Present? Yes ☒ No

Remarks:

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required):

- Field Observations:**

Surface Water Present? Yes _____ No ☒ Depth (inches): _____

Water Table Present? Yes ☐ No ☒ Depth (inches) _____

Saturation Present? Yes ☐ No ☒ Depth (inches) _____

Wetland Hydrology Present? Yes X No

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

Remarks

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDBE TL637 / P149 City/County: Romana / San Diego Co Sampling Date: 7/13/11
 Applicant/Owner: San Diego Gas and Electric Company State: CA Sampling Point: WL8-P1
 Investigator(s): Nichole Cerin, Marymazon Section Township Range: _____
 Landform (hillslope terrace etc.): Valley Local relief (concave convex none): Concave Slope (%): 5%
 Subregion (LRR): _____ Lat: 33.100575 Long: -116.671886 Datum: NAD83
 Soil Map Unit Name: Loamy Alluvial land NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology X significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: <u>Area used for grazing for decades. Vegetation disturbed from grazing, competition with non-native and human activities. Water diverted into area</u>		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0/1 0%</u> (A/B)
1. <u>None</u>				
2. _____				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species <u>0%</u> x 1 = <u>0</u> FACW species <u>0%</u> x 2 = <u>0</u> FAC species <u>15</u> x 3 = <u>45</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>0%</u> x 5 = <u>0</u> Column Totals: <u>25</u> (A) <u>85</u> (B) Prevalence Index = B/A = <u>3.4</u>
3. _____				
4. _____				
5. _____				
Sapling/Shrub Stratum (Plot size: <u>10'x10'</u>) <u>0%</u> = Total Cover				
1. <u>None</u>				Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% ___ Prevalence Index is <3.0' ___ Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) <u>X</u> Problematic Hydrophytic Vegetation' (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Hydrophytic Vegetation Present? Yes <u>X</u> No _____
2. _____				
3. _____				
4. _____				
5. _____				
Herb Stratum (Plot size: <u>10'x10'</u>) <u>0%</u> = Total Cover				
1. <u>None</u>				
2. <u>Hemizonia fasciculata</u>	<u>70%</u>	<u>yes</u>	<u>-</u>	
3. <u>Bromus hordeaceus</u>	<u>10</u>	<u>no</u>	<u>FACU</u>	
4. <u>Lolium perenne</u>	<u>15%</u>	<u>no</u>	<u>FAC</u>	
5. <u>Lupinus bicolor</u>	<u>1%</u>	<u>no</u>	<u>-</u>	
6. _____				
7. _____				
8. _____				
Woody Vine Stratum (Plot size: <u>10'x10'</u>) <u>96</u> = Total Cover				
1. _____				
2. _____				
% Bare Ground in Herb Stratum: <u>4%</u> % Cover of Biotic Crust: <u>0</u> <u>0%</u> = Total Cover				
Remarks: <u>Area highly disturbed by grazing, human activities and water diversion. Surrounded by non-native plants. Dominant plants are</u>				

Sampling Point: WL 8-P1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- ³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches). _____

Hydric Soil Present? Yes X No

Remarks:

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- Field Observations:**

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes ☐ No ☒ Depth (inches) _____

Saturation Present? Yes ☐ No ☒ Depth (inches)

Wetland Hydrology Present? Yes ☒ No ☐

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

Remarks

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDGE TL 6371 City/County: Ramona / San Diego Sampling Date: 7/13/11
 Applicant/Owner: San Diego Gas and Electric company State: CA Sampling Point: WLB-P2
 Investigator(s): Nichole Penin, Mary Magon Section Township Range: _____
 Landform (hillslope terrace etc.): valley Local relief (concave convex none): Concave Slope (%): 5%
 Subregion (LRR): D Lat: 33 10001 Long: -116.167205 Datum: NAD83
 Soil Map Unit Name: loamy Alluvial land NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks)
 Are Vegetation X Soil X or Hydrology X significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks:		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>1/2, 50%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0' ____ Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation' (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u>X</u> No _____
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size _____)				
1. <u>Avena barbata</u>	<u>50%</u>	<u>yes</u>	<u>-</u>	
2. <u>Lolium perenne</u>	<u>30%</u>	<u>yes</u>	<u>FAC</u>	Remarks
3. <u>Trifolium hirtum</u>	<u>15%</u>	<u>No</u>	<u>-</u>	
4. <u>Triticum aestivum</u>	<u>1%</u>	<u>No</u>	<u>-</u>	
5. <u>Bromus hordeaceus</u>	<u>1%</u>	<u>NO</u>	<u>FACU</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	Remarks
8. _____	_____	_____	_____	
_____ = Total Cover				Remarks
Woody Vine Stratum (Plot size _____)				
1. _____	_____	_____	_____	Remarks
2. _____	_____	_____	_____	
_____ = Total Cover				Remarks
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>0</u>				

Sampling Point WL8-P2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- | | | |
|--|---|---|
| <input type="checkbox"/> Histisol (A1) | <input type="checkbox"/> Sandy Redox (S5) | <input type="checkbox"/> 1 cm Muck (A9) (LRR C) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) | <input type="checkbox"/> 2 cm Muck (A10) (LRR B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) | <input type="checkbox"/> Reduced Vertic (F18) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Red Parent Material (TF2) |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C) | <input checked="" type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) | |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) | |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Depressions (F8) | |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Vernal Pools (F9) | |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | |

³Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches) _____

Hydric Soil Present? Yes X No

Remarks

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- | Primary Indicators (12 or more required) | | Secondary Indicators (2 or more required) |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Water Marks (B1) (Riverine) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Biclic Crust (B12) | <input type="checkbox"/> Sediment Deposits (B2) (Riverine) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Drift Deposits (B3) (Riverine) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input checked="" type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input checked="" type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> FAC-Neutral Test (D5) |

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes ☐ No ☒ Depth (inches) _____

Saturation Present? Yes ☐ No ☒ Depth (inches) _____

Wetland Hydrology Present? Yes X No

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

Remarks

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: SDNE TL 637 / P149 City/County: Ramona / San Diego Sampling Date: 7/13/11
 Applicant/Owner: SAGE State: CA Sampling Point: WLB-P3
 Investigator(s): N. Cerin, M. Mazon Section Township Range: _____
 Landform (hillslope, terrace, etc.): Valley Local relief (concave, convex, none): Convex Slope (%): 5%
 Subregion (LRR): D Lat: 33.1800099 Long: -116.67175 Datum: NAD83
 Soil Map Unit Name: Loamy Alluvial, land NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: <u>Area Disturbed by grazing, Human activities? Water Diversion are present. 1' CMP Pipes Water Under Access Rd. Away from Area</u>		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
Sapling/Shrub Stratum (Plot size: <u>10'x10'</u>) <u>0%</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>15</u> x 3 = <u>45</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species _____ x 5 = _____ Column Totals: <u>20</u> (A) <u>65</u> (B) Prevalence Index = B/A = <u>3.2</u>
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
Herb Stratum (Plot size: <u>10'x10'</u>) <u>0%</u> = Total Cover				Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0' _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Clarkia purpurea</u>	<u>1%</u>	<u>N</u>	<u>-</u>	
2. <u>Trifolium hirsutum</u>	<u>5%</u>	<u>N</u>		
3. <u>Bromus hordeaceus</u>	<u>5%</u>	<u>N</u>	<u>FACU</u>	
4. <u>Amprosia Psilostachya</u>	<u>5%</u>	<u>N</u>	<u>FAC</u>	
5. <u>Hemizonia fasciculata</u>	<u>7%</u>	<u>Yes</u>	<u>-</u>	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
6. <u>Lolium perenne</u>	<u>10%</u>	<u>NO</u>	<u>FAC</u>	
7. _____				
8. _____				
Woody Vine Stratum (Plot size: <u>10'x10'</u>) <u>0%</u> = Total Cover				
1. <u>None</u>				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
2. _____				
% Bare Ground in Herb Stratum <u>41</u> % Cover of Biotic Crust <u>0</u>				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
Remarks:				

Sampling Point: WLG-P3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Histlic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Black Histlic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) (LRR C) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR D) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Vernal Pools (F9) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | |

Indicators for Problematic Hydric Soils³:

- ☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes _____ No ☒

Remarks:

Does not meet Percent Redox per Chroma Requirements

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Salt Crust (B11) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Biotic Crust (B12) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input checked="" type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Other (Explain in Remarks) |

Secondary Indicators (2 or more required)

- ☐ Water Marks (B1) (**Riverine**)
- ☐ Sediment Deposits (B2) (**Riverine**)
- ☐ Drift Deposits (B3) (**Riverine**)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Shallow Aquitard (D3)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches):

Water Table Present? Yes ☐ No ☒ Depth (inches):

Saturation Present? Yes ☐ No ☒ Depth (inches):
(includes capillary fringe)

Wetland Hydrology Present? Yes X No

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

Remarks

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: SNGE TL 6371 City/County: Ramona / San Diego Sampling Date: 7/13/11
 Applicant/Owner: SNGE State: CA Sampling Point: WLB-P4

Investigator(s): N. Levin, M. Mazon Section Township Range: _____
 Landform (hillslope, terrace, etc.): Valley Local relief (concave, convex, none): Concave Slope (%): 5%
 Subregion (LRR): 1 Lat: 33.100562 Long: -116.672080 Datum: NAD83
 Soil Map Unit Name: loamy Alluvial land NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)

Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks:		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>none</u>				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata:	<u>3</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>33.3</u> (A/B)
4. _____				Prevalence Index worksheet:	
				Total % Cover of:	Multiply by:
				OBL species	x 1 = _____
				FACW species	x 2 = _____
				FAC species	<u>20</u> x 3 = <u>60</u>
				FACU species	<u>25</u> x 4 = <u>100</u>
				UPL species	x 5 = _____
				Column Totals:	<u>45</u> (A) <u>160</u> (B)
				Prevalence Index = B/A = <u>3.5</u>	
				Hydrophytic Vegetation Indicators:	
				___ Dominance Test is >50%	
				___ Prevalence Index is ≤3.0 ¹	
				___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
				___ Problematic Hydrophytic Vegetation ¹ (Explain)	
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	
Remarks:					

SOIL

Sampling Point: WL8-P4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- | | | |
|--|---|---|
| <input type="checkbox"/> Histosol (A1)
<input type="checkbox"/> Histic Epipedon (A2)
<input type="checkbox"/> Black Histic (A3)
<input type="checkbox"/> Hydrogen Sulfide (A4)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)
<input type="checkbox"/> Depleted Below Dark Surface (A11)
<input type="checkbox"/> Thick Dark Surface (A12)
<input type="checkbox"/> Sandy Mucky Mineral (S1)
<input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Vernal Pools (F9) | <input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Other (Explain in Remarks) |
|--|---|---|

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ☒

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- | Primary Indicators (12 or more required) | | Secondary Indicators (2 or more required) |
|--|--|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Water Marks (B1) (Riverine) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Biotic Crust (B12) | <input type="checkbox"/> Sediment Deposits (B2) (Riverine) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Drift Deposits (B3) (Riverine) |
| <input type="checkbox"/> Water Marks (B1) (Nonriverine) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Crayfish Burrows (C8) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Thin Muck Surface (C7) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> FAC-Neutral Test (D5) |

Field Observations:

Surface Water Present? Yes _____ No ☒ Depth (inches) _____

Water Table Present? Yes No ☒ Depth (inches) _____

Saturation Present? Yes ☐ No ☒ Depth (inches):

Wetland Hydrology Present? Yes _____ No X

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

Remarks

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDGE TL 6371 P150 City/County: Ramona / San Diego Sampling Date: 7/13/11
 Applicant/Owner: SDGE State: CA Sampling Point: WL9-P1
 Investigator(s): A. Levin, M. Mazon Section Township Range: _____
 Landform (hillslope, terrace, etc.): Slope Local relief (concave, convex, none): convex Slope (%): 10%
 Subregion (LRR): D Lat: 33.101191 Long: -116.670499 Datum: NAD83
 Soil Map Unit Name: Holland fine Sandy loam NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are 'Normal Circumstances' present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____		
Wetland Hydrology Present?	Yes <u>X</u> No _____		
Remarks:			

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>10'x10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
Sapling/Shrub Stratum (Plot size: <u>10'x10'</u>)				
1. <u>None</u>	<u>0%</u> = Total Cover			
2. _____				
3. _____				
4. _____				
5. _____				
Herb Stratum (Plot size: <u>10'x10'</u>)				
1. <u>Hemizonia fasciculata</u>	<u>30</u>	<u>Y</u>	<u>-</u>	Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% ___ Prevalence Index is >3.0' ___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u>X</u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Bromus hordeaceus</u>	<u>40</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Hirshfeldia incana</u>	<u>55</u>	<u>N</u>	<u>-</u>	
4. <u>Rumex crispus</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
5. <u>Juncus dubius</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	
6. <u>Iolium Perene</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
7. <u>Bromus diandrus</u>	<u>1</u>	<u>N</u>	<u>-</u>	
8. <u>Anemopsis californica</u>	<u>1</u>	<u>N</u>	<u>OBL</u>	
Woody Vine Stratum (Plot size: <u>10'x10'</u>)				
1. <u>None</u>	<u>0%</u> = Total Cover			
2. _____				
% Bare Ground in Herb Stratum <u>12%</u> % Cover of Biotic Crust <u>0</u>				

Remarks: Vegetation is highly disturbed. Both hydric soils and wetland hydrology absent. Plot also had 5 species with wetland status, including

Sampling Point: W2L9-P1

HYDROLOGY

Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input checked="" type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge monitoring well, aerial photos, previous inspections) if available		
Remarks		

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: SDGE TL 6371 P150 City/County: Ramona / San Diego Sampling Date: 7/13/11
 Applicant/Owner: SDGE State: CA Sampling Point: WL9-P2

Investigator(s): D. Cerven, M. Mazon Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Valley Local relief (concave, convex, none): concave Slope (%): 5%

Subregion (LRR): D Lat: 33.101265 Long: -116.670383 Datum: NAD83

Soil Map Unit Name: Holland Fine Sandy Loam NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation X Soil X or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks:		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 10'x10')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
Sapling/Shrub Stratum (Plot size: 10'x10') 1. <u>None</u> 2. _____ 3. _____ 4. _____ 5. _____ <u>0%</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiplied by: OBL species _____ x 1 = _____ FACW species <u>15</u> x 2 = <u>30</u> FAC species <u>35</u> x 3 = <u>105</u> FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: <u>50</u> (A) <u>135</u> (B) Prevalence Index = B/A = <u>2.7</u>
Herb Stratum (Plot size: 10'x10') 1. <u>Ambrosia Psilostachya</u> <u>5</u> <u>NO</u> <u>FAC</u> 2. <u>Rumex crispus</u> <u>15</u> <u>NO</u> <u>FACW</u> 3. <u>Lolium perenne</u> <u>30</u> <u>yes</u> <u>FAC</u> 4. <u>Avena barbata</u> <u>15</u> <u>NO</u> <u>-</u> 5. <u>Hemizonia fasciculata</u> <u>30</u> <u>NO</u> <u>-</u> 6. <u>Wyethia amplexicaulis</u> <u>1%</u> <u>NO</u> <u>-</u> 7. <u>Hirschfeldia incana</u> <u>1%</u> <u>-</u> <u>-</u> 8. _____ <u>87%</u> = Total Cover				
Woody Vine Stratum (Plot size: 10'x10') 1. <u>None</u> 2. _____ <u>0%</u> = Total Cover				
% Bare Ground in Herb Stratum <u>13%</u> % Cover of Biotic Crust <u>0</u>				
Remarks: _____				

*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

SOIL

Sampling Point: WL9-P7

[illegible]

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input checked="" type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
(includes capillary fringe)		
Describe Recorded Data (stream gauge monitoring well aerial photos previous inspections) if available		
Remarks		

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: SDGE TL 6371 P1501 City/County: Ramona / San Diego Sampling Date: 7/13/11
 Applicant/Owner: SDGE State: CA Sampling Point: WL9-P3
 Investigator(s): N. Cerven, M. Mazon Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): valley Local relief (concave, convex, none): concave Slope (%): 5%
 Subregion (LRR): D Lat: 33.101317 Long: -116.670658 Datum: NAD83
 Soil Map Unit Name: Holland fine sandy loam NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks:		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>10' x 10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>none</u>				
2. _____				
3. _____				
4. _____				
Sapling/Shrub Stratum (Plot size: <u>10' x 10'</u>) <u>0.1</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>30</u> x 3 = <u>100</u> FACU species <u>15</u> x 4 = <u>60</u> UPL species _____ x 5 = _____ Column Totals: <u>55</u> (A) <u>122</u> (B) Prevalence Index = B/A = <u>2.2</u>
1. <u>none</u>				
2. _____				
3. _____				
4. _____				
5. _____				
Herb Stratum (Plot size: <u>10' x 10'</u>) <u>0.1</u> = Total Cover				Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is ≤3.0' _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Ambrosia Acanthioides</u>	<u>15</u>		<u>-</u>	
2. <u>Bromus hordeaceus</u>	<u>15</u>		<u>FACU</u>	
3. <u>Wyethia amplexicaulis</u>	<u>25</u>		<u>-</u>	
4. <u>Juncus dubius</u>	<u>1%</u>		<u>FACW</u>	
5. <u>Galium perenne</u>	<u>30%</u>	<u>yes</u>	<u>FAC</u>	
6. <u>Avena barbata</u>	<u>5%</u>		<u>-</u>	
7. <u>Hodium murinum</u>	<u>5%</u>		<u>-</u>	
8. _____	<u>71%</u>			
Woody Vine Stratum (Plot size: <u>10' x 10'</u>) <u>0.1</u> = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>none</u>				
2. _____				
3. _____				
% Bare Ground in Herb Stratum <u>29</u> % Cover of Biotic Crust <u>0</u>				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
Remarks:				

SOIL

Sampling Point: WL9-P3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features				
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture
16	10YR 3/3	100%					

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5) (LRR C)
- ☐ 1 cm Muck (A9) (LRR D)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)
- ☐ Vernal Pools (F9)

Indicators for Problematic Hydric Soils³:

- ☐ 1 cm Muck (A9) (LRR C)
- ☐ 2 cm Muck (A10) (LRR B)
- ☐ Reduced Vertic (F18)
- ☐ Red Parent Material (TF2)
- ☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>
Remarks:	

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches). _____	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches). _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches). _____	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available		
Remarks		

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: SDGE TL6371 P159 City/County: Ramona CA Sampling Date: 7/13/11
 Applicant/Owner: SDGE State: CA Sampling Point: WLG-P4
 Investigator(s): N. Penin, M. Mazon Section Township Range: _____
 Landform (hillslope, terrace, etc.): Valley Local relief (concave, convex, none): Concave Slope (%): 5%
 Subregion (LRR): A Lat: 33.10136 Long: -116.670672 Datum: NAD83
 Soil Map Unit Name: Holland fine sandy loam NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X Soil X or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present? Yes <u>X</u> No _____	
Wetland Hydrology Present? Yes <u>X</u> No _____	
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>10' x 10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
Sapling/Shrub Stratum (Plot size: <u>10' x 10'</u>)				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species <u>1</u> x 2 = <u>2</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species _____ x 5 = _____ Column Totals: <u>31</u> (A) <u>102</u> (B) Prevalence Index = B/A = <u>3.2</u>
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
Herb Stratum (Plot size: <u>10' x 10'</u>)				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% _____ Prevalence Index is ≤3.0' _____ Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) <u>X</u> Problematic Hydrophytic Vegetation' (Explain) 'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic'
1. <u>Ambrosia acanthicarpa</u>	<u>10</u>		<u>-</u>	
2. <u>Juncus dubius</u>	<u>1%</u>		<u>FACW</u>	
3. <u>Avena barbata</u>	<u>5</u>			
4. <u>Lolium perenne</u>	<u>20</u>	<u>40</u>	<u>FAC</u>	
5. <u>Lolium multiflorum</u>	<u>5</u>			
6. <u>Bromus hordeaceus</u>	<u>10</u>		<u>FACU</u>	
7. <u>Hordium murinum</u>	<u>5</u>			
8. <u>Lotus purshianus</u>	<u>5</u>			
	<u>61</u>		<u>= Total Cover</u>	
Woody Vine Stratum (Plot size: <u>10' x 10'</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
1. <u>None</u>				
2. _____	<u>0</u>			
	<u>0%</u>		<u>= Total Cover</u>	
% Bare Ground in Herb Stratum <u>39</u> % Cover of Biotic Crust <u>0</u>				
Remarks: <u>Area highly disturbed</u>				

SOIL

Sampling Point: W29-P4

Sampling Point: W-1-M

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
<u>2'</u>	<u>10YR 8/2</u>	<u>90%</u>	<u>5YR 5/8</u>	<u>10%</u>	<u>Rm</u>	<u>m</u>	<u>Sandy loam</u>	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Type: _____ Depth (inches): _____	
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required: check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input checked="" type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____	
Describe Recorded Data (stream gauge monitoring well, aerial photos, previous inspections) if available:		
Remarks:		

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: SDGE TL 6371 Helo Site City/County: Co. Santa Ysabel / San Diego Sampling Date: 7/14/11
 Applicant/Owner: SDGE State: CA Sampling Point: WL10-P1
 Investigator(s): D. Cervin, M. Mazon Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): hilly Slope Local relief (concave, convex, none): Convex Slope (%): 5%
 Subregion (LRR): D Lat: 33.111045 Long: -116.1670902 Datum: NAD83
 Soil Map Unit Name: Holland fine Sandy Loam (HMD) NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____ No <u>X</u>		
Wetland Hydrology Present?	Yes <u>X</u> No _____		
Remarks: <u>Vegetation recently mowed. In heavily disturbed area</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>10' x 10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>None</u>					Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>2</u> (B)	
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (AVB)	
4. _____					
Sapling/Shrub Stratum (Plot size: <u>10' x 10'</u>)				Prevalence Index worksheet:	
1. <u>None</u>	<u>0%</u> = Total Cover				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____	
3. _____				FACW species <u>5</u> x 2 = <u>10</u>	
4. _____				FAC species _____ x 3 = _____	
5. _____				FACU species <u>20</u> x 4 = <u>80</u>	
Herb Stratum (Plot size: <u>10' x 10'</u>)				UPL species _____ x 5 = _____	
1. <u>Juncus mexicanus</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	Column Totals: <u>25</u> (A) <u>90</u> (B)	
2. <u>Hierfeldia incana</u>	<u>5</u>	<u>N</u>		Prevalence Index = B/A = <u>3.6</u>	
3. <u>Bromus madritensis</u>	<u>30</u>	<u>yes</u>		Hydrophytic Vegetation Indicators:	
4. <u>Bromus hordeaceus</u>	<u>20</u>	<u>N</u>	<u>FACU</u>		___ Dominance Test is >50%
5. <u>Avena barbata</u>	<u>30</u>	<u>yes</u>			___ Prevalence Index is ≤3.0'
6. <u>Trifolium hirtum</u>	<u>5</u>	<u>N</u>			___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
7. _____				___ Problematic Hydrophytic Vegetation ¹ (Explain)	
8. _____	<u>95</u>			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	
Woody Vine Stratum (Plot size: <u>10' x 10'</u>)					
1. <u>None</u>	<u>0%</u> = Total Cover			Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	
2. _____					
% Bare Ground in Herb Stratum <u>5%</u> % Cover of Biotic Crust <u>0</u>					
Remarks: <u>Although Vegetation is disturbed/mowed. Area did Not have Hydric Soils</u>					

SOIL

Sampling Point: WL 10-P1

Sampling Point: DL10-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
1'	10YR 3/3	95	2.5YR 2 3/4	5%			Sandy loam	
6'	10YR 3/2	100					Sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____	Hydric Soil Present? Yes _____ No <u>X</u>
Depth (inches): _____	

Remarks: Soils do not meet the Redox Dark Surface Chroma and Redox Percent requirements

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input checked="" type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge monitoring well, aerial photos, previous inspections) if available		
Remarks		

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: SDGE TL6371 City/County: Ramona / San Diego Sampling Date: 7/14/11
 Applicant/Owner: SDGE State: CA Sampling Point: WL11-P1

Investigator(s): N. Levin, M. Mazon Section, Township Range: _____

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0%

Subregion (LRR): D Lat: 33.018368 Long: -116.851606 Datum: NAD83

Soil Map Unit Name: Vista rocky coarse sandy loam NWI classification: none

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No X (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are 'Normal Circumstances' present? Yes _____ No X

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	

Remarks: Area is disturbed / Wetland = man made from Run-off Adjacent to House. During heavy Rain Run off water from Depression would likely flow into Blue line tributary.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>10' x 10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>None</u>				
2. _____				
3. _____				
4. _____				
Sapling/Shrub Stratum (Plot size: <u>10' x 10'</u>) <u>0%</u> = Total Cover				
1. <u>None</u>				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤3.0' ____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
3. _____				
4. _____				
Herb Stratum (Plot size: <u>10' x 10'</u>) <u>0%</u> = Total Cover				
1. <u>None</u>				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
2. <u>Hirshfeldia incana</u>	<u>10%</u>			
3. <u>Polygomon monspeliensis</u>	<u>90</u>	<u>Yes</u>	<u>FACW</u>	
4. _____				
Woody Vine Stratum (Plot size: <u>10' x 10'</u>) <u>100%</u> = Total Cover				
1. _____				
2. _____				
% Bare Ground in Herb Stratum <u>0</u> % Cover of Biotic Crust <u>0</u>				
Remarks: _____				

SOIL

Sampling Point: WL11-P1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features		Type ¹	Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
<u>10</u>	<u>10YR 3/2</u>	<u>90</u>	<u>5YR 4/8</u>	<u>10%</u>	<u>CS</u>	<u>MEP</u>	<u>Sandy loam</u>	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

Indicators for Problematic Hydric Soils³:

- ☐ Histosol (A1)
☒ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5) (LRR C)
☐ 1 cm Muck (A9) (LRR D)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)
- ☒ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Vernal Pools (F9)

- ☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

 Type: _____
 Depth (inches): _____
Hydric Soil Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

Secondary Indicators (2 or more required)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1) (Nonriverine)
☐ Sediment Deposits (B2) (Nonriverine)
☐ Drift Deposits (B3) (Nonriverine)
☐ Surface Soil Cracks (B6)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Water-Stained Leaves (B9)
- ☐ Salt Crust (B11)
☐ Biolic Crust (B12)
☐ Aquatic Invertebrates (B13)
☐ Hydrogen Sulfide Odor (C1)
☒ Oxidized Rhizospheres along Living Roots (C3)
☒ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ 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)
☐ FAC-Neutral Test (D5)

Field Observations:

 Surface Water Present? Yes ☐ No ☒ Depth (inches): _____
 Water Table Present? Yes ☐ No ☒ Depth (inches): _____
 Saturation Present? Yes ☒ No ☐ Depth (inches): 0
 (includes capillary fringe)
Wetland Hydrology Present? Yes ☒ No ☐

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

Remarks:

Attachment B
Site Photographs

SITE PHOTOGRAPHS



Pole D167. Photo taken looking east along Creelman Rd. The stake is located to the east of the pole (background). Stake is located on bank of erosional/drainage feature and will require BMPs to avoid impacts. Location #15



Pole D167, direct bury. Photo taken looking west along Creelman Rd. Existing pole can be removed without impacts to the erosional/drainage feature on the right hand side of the photo. Location #15

SITE PHOTOGRAPHS



Pole P152. The stake is located on the bank of a swale feature. Propose to move stake location 8ft 4inches to the N (340 degrees from stake, or left of the stake) to avoid impacts to feature on the center/right. Location #10



Pole P152. Photo taken looking west along the overland travel from access road over feature to staked location. Surveyor is standing in the swale feature. Oak tree trimming may be required for pole removal. (Location #10)

SITE PHOTOGRAPHS



Pole R11. Photo taken looking east along Creelman Rd. The poles along the north side of Creelman will be relocated to south side (P168). Pole located within a drainage feature. Location #16



Pole R11, pole removal. Photo taken looking west along Creelman Rd. Pole is located within a drainage feature. Options for removal are cut at base and leave, or access pole from road and pull out with boom truck and wench to minimize impacts. Location #16

SITE PHOTOGRAPHS



Pole R13. Photo taken looking west along Creelman Rd. Existing pole located a drainage feature. Removal: access pole from road and pull out with boom truck and wench to minimize impacts. May require back hoe to dig out from exposed bedrock. Location #17



Pole R13, pole removal. Photo taken looking east along the north side of Creelman Rd. Temporary disturbance of up to 10 feet will occur during removal. Location #17

SITE PHOTOGRAPHS



Pole P103, pole removal and relocation. Photo taken looking southeast from staked location towards pole located in wetland meadow area, to be removed. Location #4



Pole P103. Photo taken looking northwest towards access road. The pole will be relocated between two access roads within 15 feet of staked location, within a more disturbed wetland area. Removal of pole will temporarily disturb the wetland area. Relocation will minimize disturbance during maintenance activities of pole, since pole will be directly adjacent to two access roads. Loc.#4

SITE PHOTOGRAPHS



Pole P103, pole removal and relocation area. Relocation will minimize disturbance during maintenance activities. Location #4



Pole P103. Photo taken looking northeast along the intersection of two access roads. Relocation area will minimize disturbance during maintenance activities of pole, since pole will be directly adjacent to two access roads. Location #4

SITE PHOTOGRAPHS



Pole P104, pole removal and relocation. Photo taken looking southeast from staked location towards pole located in wetland meadow area, to be removed. Relocation will minimize disturbance during maintenance activities. Location #5



Pole P104. Photo taken looking northwest towards access road. The pole will be relocated to this side of the access road, outside of the wetland area. Removal of pole will temporarily disturb the wetland area, but will minimize disturbance during maintenance activities of pole (access to pole).

SITE PHOTOGRAPHS



Pole R107, removal. Pole located in wetland area, will be removed. Englemann oak tree trimming will be required. Possible removal of oak trees since span will be increased. Location #8



Pole R107. Photo taken looking northwest towards access road. This pole and existing pole butt will be removed and will not be relocated. Location #8

SITE PHOTOGRAPHS



Pole P114, removal (and relocation). Photo taken looking west towards access road. Existing pole located within wetland meadow area, new location along access road outside wetland boundary. Access to pole by overland travel or helicopter. Location #9



Pole P114. Photo taken looking southwest towards access road. If conditions are dry during construction, the meadow in photo will require mowing for overland travel. An existing pole butt which may require removal is located on this side of the pole, a few feet from pole P114.

SITE PHOTOGRAPHS



Pole P114, relocation area. Photo taken looking northeast towards access road and old pole location. New pole located outside wetland meadow area. Location #9



Pole P114. Photo taken looking northeast at new pole location in foreground and old pole location in background. Location #9

SITE PHOTOGRAPHS



Pole P129, micropile. Pole not located within a drainage/wetland feature; however, a wetland meadow exists between access road and pole. Overland travel during dry conditions to avoid ruts in meadow is proposed. If wet, helicopter will be used for removal and installation processes. Loc #11



Pole P129. Photo taken from staked location towards the access road. If conditions are dry during construction, the meadow in photo will require mowing for overland travel. Location #11

SITE PHOTOGRAPHS



Pole P148, micropile. Photo taken looking southwest along the wetland meadow area to the left of the access road. Pole removal and relocation will occur in the disturbed wetland area. Pole P147 in background. Location #1



Pole P148. Photo taken looking northeast along the disturbed wetland meadow area. Temporary disturbance area is approximately 55ft by 20ft, from the access road to the fence. Location #1

SITE PHOTOGRAPHS



Pole P149, direct bury. Photo taken looking northeast along the wetland meadow area. Pole removal and relocation will occur in the disturbed wetland area. Pole P150 in background. Loc#2



Pole P149. Photo taken looking southwest along the disturbed wetland meadow area. Soils identified in the area contained redox features indicative of anaerobic conditions. Pole P148 in background. Location #2

SITE PHOTOGRAPHS



Pole P150, direct bury. Photo taken looking southwest along the wetland meadow area. Pole removal and relocation will occur in the disturbed wetland area. Pole P149 in background. Loc#3



Pole P150. Photo taken looking east along the disturbed wetland meadow area. Temporary disturbance area is approximately 10 square feet for installation, and 10 feet for removal. Loc #3

SITE PHOTOGRAPHS



Pole R10. Photo taken looking east along Creelman Rd. The poles along the north side of Creelman will be relocated to south side (D167). Pole located within a drainage feature. Loc #12



Pole R10, pole removal. Photo taken looking west along Creelman Rd. Pole is located within a drainage feature. Options for removal are cut at base and leave, or access pole from road and pull out with boom truck and wench to minimize impacts. Location #12

SITE PHOTOGRAPHS



Pole R169. Photo taken looking east along Creelman Rd. Existing pole located a drainage feature. Removal: access pole from road and pull out with boom truck and wench to minimize impacts. Loc#13

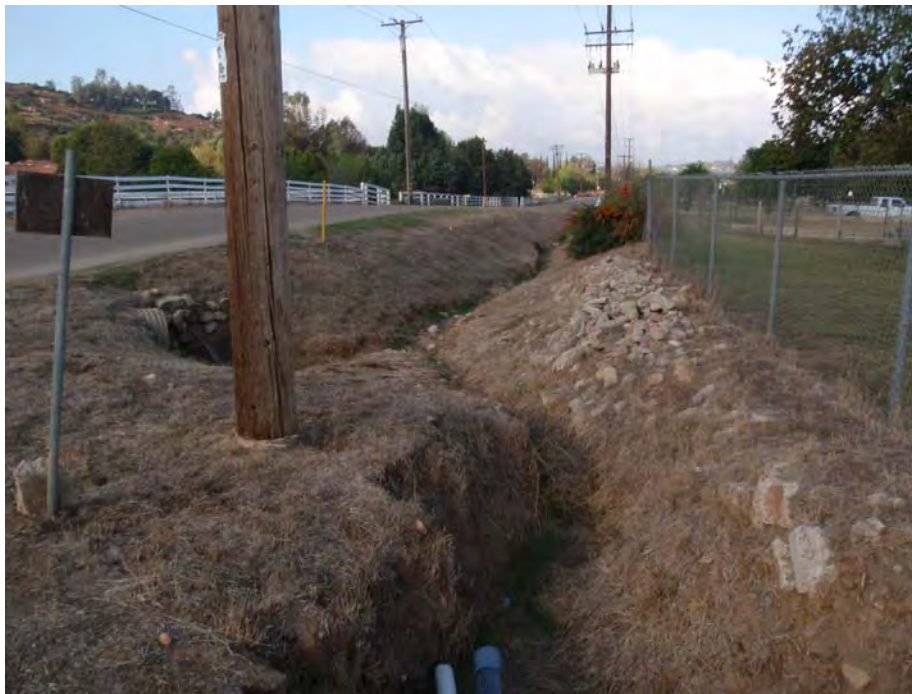


Pole R169, pole removal. Temporary disturbance of up to 10 feet will occur during removal. Loc 13

SITE PHOTOGRAPHS



Pole R171. Photo taken looking east along the north side of Creelman Rd. Existing pole located at the top of a drainage feature. Removal: access pole from road and pull out with boom truck and wench to minimize impacts. Will require BMPs to avoid impacts to drainage. Location #14



Pole R171, removal. Photo taken looking west along the north side of Creelman Rd. Drainages can be avoided with BMP implementation. Location #14

SITE PHOTOGRAPHS



Photo taken along access road crossing drainage feature between poles P141 and P140, looking south (downstream). OWHM 2ft, Bank to bank 12ft measured south of pole. Location #19



Photo taken from access road looking north at swale feature. No culvert was present. To avoid impacts, placement of gravel less than 6 inches on access road is proposed. Second option is to use plates to travel over feature.

SITE PHOTOGRAPHS



Santa Ysabel Staging Yard, located approximately 1100 feet southwest of substation. The staging area is approximately 6 acres and will avoid the oak tree depicted in this picture. The surrounding habitat is disturbed non-native grassland with a few scattered native upland species including California buckwheat, tarplant and vinegar weed.



Photo taken looking north along the eastern boundary of the Santa Ysabel staging area. No drainage features were observed during the survey. Small mammal burrows were observed.