

June 23, 2015

Peter D. Zak NCA Real Estate 3 Corporate Plaza, Suite 230 Newport Beach, California 92600 USA

SUBJECT: Results of Vegetation Mapping for Latitude II, Escondido, California

Dear Mr. Zak:

This letter report summarizes the results of a vegetation mapping for the above referenced property.

The Latitude II site comprises approximately 3.73 acres in the City of Escondido, San Diego County, California [Exhibit 1- Regional Map] and is located in an unsectioned area within Township 12 South and Range 2 West, of the U.S. Geological Survey (USGS) 7.5: quadrangle map Valley Center (dated 1968 and photorevised in 1975)[Exhibit 2 – Vicinity Map]. The Project site is bordered by West Washington Avenue to the south, Centre City Parkway to the west, and by commercial development to the north and east.

During vegetation mapping of the Project site, one vegetation alliance was identified. Table 1 provides a summary of vegetation alliances/land uses and the corresponding acreage. Three additional vegetation types are identified that did not meet alliance membership requirements. Detailed descriptions of each vegetation type follow the table. A Vegetation Map is attached as Exhibit 3. Photographs depicting various vegetation types and land uses are attached as Exhibit 4. No special status plants were encountered during any vegetation mapping efforts.

29 Orchard • Telephone: (949) 837-0404

Lake Forest

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Table 1. Summary of Vegetation/Land Use Types for the Project Site

VEGETATION ALLIANCES/ LAND USE TYPE	RANK	CODE	ACREAGE
Bromus (diandrus, hordeaceus) – Brachypodium distachyon (Annual	N/A	42.026.00	
Bromus diandrus - Mixed herbs		42.026.11	0.39
Non-alliance Vegetation			
Ornamental Trees			0.31
Bare/Disturbed			1.88
Developed			1.15

Annual brome grasslands Alliance

Approximately 0.39 acres of the Project site located in the eastern and north western open areas are vegetated with annual brome grasslands alliance. The annual brome grasslands alliance vegetation type has no rank, meaning it is not threatened in either a local or global capacity. It should also be noted that annual brome grasslands are non-native and invasive.

The membership rules for the annual brome grasslands alliance include the following: (1) Brachypodium distachyon > 50% relative cover in the herbaceous layer, (2) Bromus diandrus > 60% relative cover with other non-natives in herbaceous layer and with a variety of annuals at low cover, (3) Bromus diandrus, B. hordeaceus, and/or Brachypodium distachyon > 80% relative cover separately or co-dominant with non-natives; natives usually with low or insignificant cover, and (4) Bromus hordeaceus > 50% relative cover in the herbaceous layer. Within the subject areas of vegetation, relative cover of Bromus species within the herb layer is approximately 60 %. Within the western area, relative cover of Brachypodium distachyon is 85%, co-dominant with other weedy species.

Ornamental Trees

The trees on-site do not meet any alliance membership rules, and therefore are not considered part of any vegetative alliance. On site there are seven gum trees (*Eucalyptus sp.*), seven pine trees (*Pinus sp.*), and eleven queen palms (*Syagrus romanzoffiana*), occupying approximately 0.31 acres.

Bare/Disturbed

This area on site comprises approximately 1.88 acres and consists of recently disced soils and ruderal sites that have limited plant growth. The majority of these areas are bare dirt with small populations of native and non-native vegetation that do not meet any membership rules. Species encountered in this area include Russian thistle (*Salsola tragus*), wild mustard (*Hirschfeldia incana*), and dove weed (*Croton setigerus*). These species do not fall into any alliance category due to the overall lack of vegetation/cover.

Developed

This area consists of building pads, a storm drain, and asphalt and comprises approximately 1.15 acres.

If you have any questions regarding this letter report, please call me at (949) 837-0404, ext. 48.

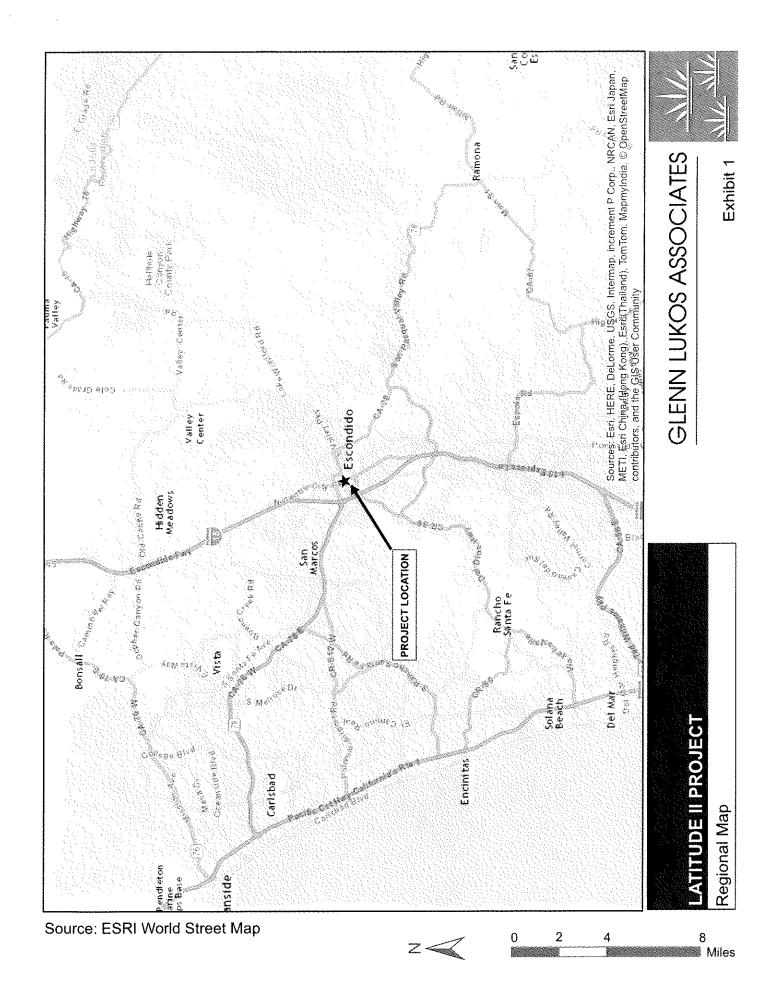
Sincerely,

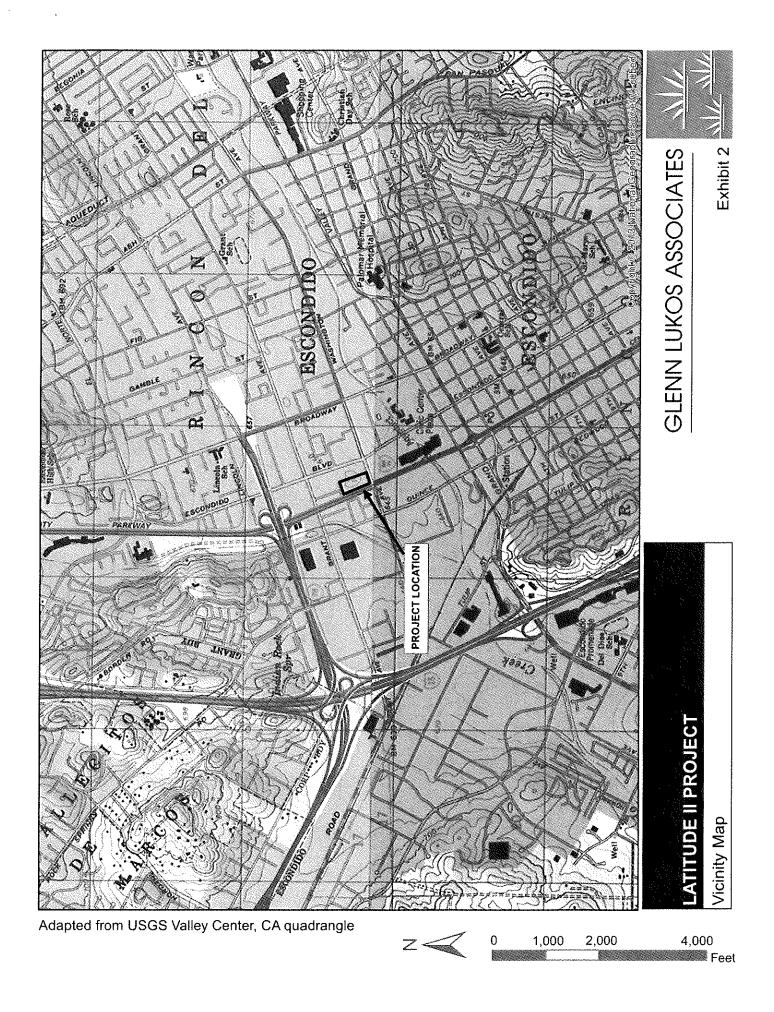
GLENN LUKOS ASSOCIATES, INC.

David Smith

David Smith Biologist

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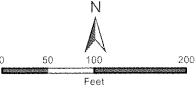


Legend

Annual Brome Grasslands Bare/ Disturbed

Developed

Ornamental



1 inch = 100 feet

Aerial Photo: ESRI Basemaps Reference Elevation Datum: State Plane 6 NAD 83 Map Prepared by: C. Lukos, GLA Date Prepared: June 23, 2015

LATITUDE II PROJECT Vegetation Map







Photograph 1: Photo depicts sparse, annual brome grasslands in the eastern portion of the site.



Photograph 2: View of the center of the site taken from the eastern edge.

LATITUDE II PROJECT Site Photographs

MEMORANDUM



PROJECT NUMBER:

10870002

TO:

Peter Zak

FROM:

Tony Bomkamp

DATE:

February 2, 2015

SUBJECT:

Latitude II Project Biological Survey and Wetland Determination Results

The purpose of this Biological Memorandum is to provide an updated evaluation of the biological resources associated for the Latitude II Project (Project)[Exhibits 1, 2 & 3] along with a discussion of areas potentially subject to the U.S. Army Corps of Engineers (Corps) pursuant to section 404 of the Clean Water Act and the California Department of Fish and Wildlife (CDFW) pursuant to Section 1602 of the Fish and Game Code and the documentary concurrence by the respective regulatory agencies.

1. Survey History for the Latitude II Project

In 2005 a biological survey and wetland evaluation of the Project Site was conducted. The survey found that the Project Site exhibited no state or federally listed threatened or endangered species and no candidate, sensitive or special status plants or animal species and that the Project Site lacked any habitat to support them. Nor did the Project Site function as a foraging or nesting area for native resident or migratory fauna and is not within or near native wildlife nursery sites. The Project Site was not included in any conservation planning area or program.

The 2005 report identified an on-site drainage feature that was potentially subject to Section 404 of the Clean Water Act and Section 1602 of the California Fish and Game Code jurisdictions; however, a formal verification was not obtained from the Corps or the CDFW. No applications were submitted to the respective agencies and as such there was no determination by the agencies that permits to construct the Project would be required.

To summarize, the previous biological report determined that in accordance with Appendix G of the CEQA Guidelines, excerpted below, the Project would have no significant impacts under Paragraphs A, B, E and F. The report determined that impacts to the drainage feature; while potentially subject to 404 and Section 1602 regulation, were less-than-significant.

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Vincent Scheidt, Results of a Biological Survey for the LCW Townlwme Residential Project. November 1, 2005.

Appendix G to the State CEQA Guidelines indicate that a project may have a significant effect on the environment if it would:

- (a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.
- (b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.
- (c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.
- (d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.
- (e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.
- (f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

2. Surveys in 2014

On June 23, 2014, Glenn Lukos Associates (GLA) conducted biological surveys on the Project Site and confirmed that no special status plants or animals have any potential for occurring on the Site and there is no native habitat that could support such species. As such the conclusion that no significant impacts would occur associated with Paragraphs A, B, E & F above was confirmed.

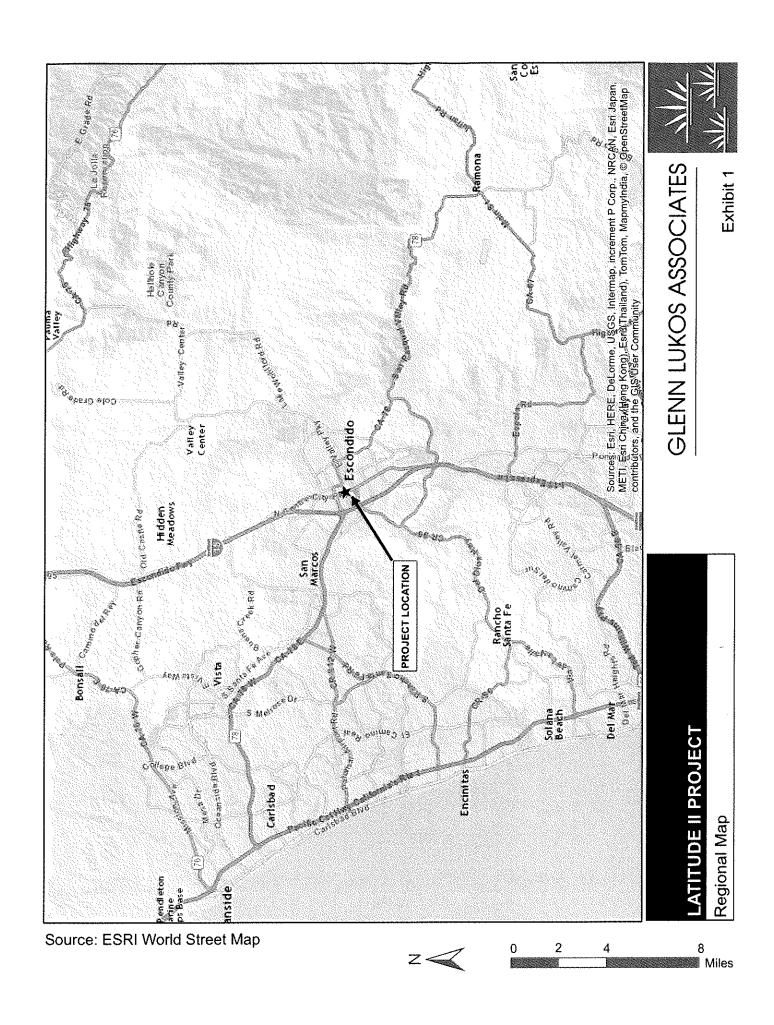
GLA also conducted a jurisdictional determination of the Site (See Attached) which found no wetlands or riparian habitat and confirmed the absence of hydrophytic vegetation, including Cattails "Typha", Sedge "Cyperus" or any other hydrophytic plants that were mentioned in the 2005 report.

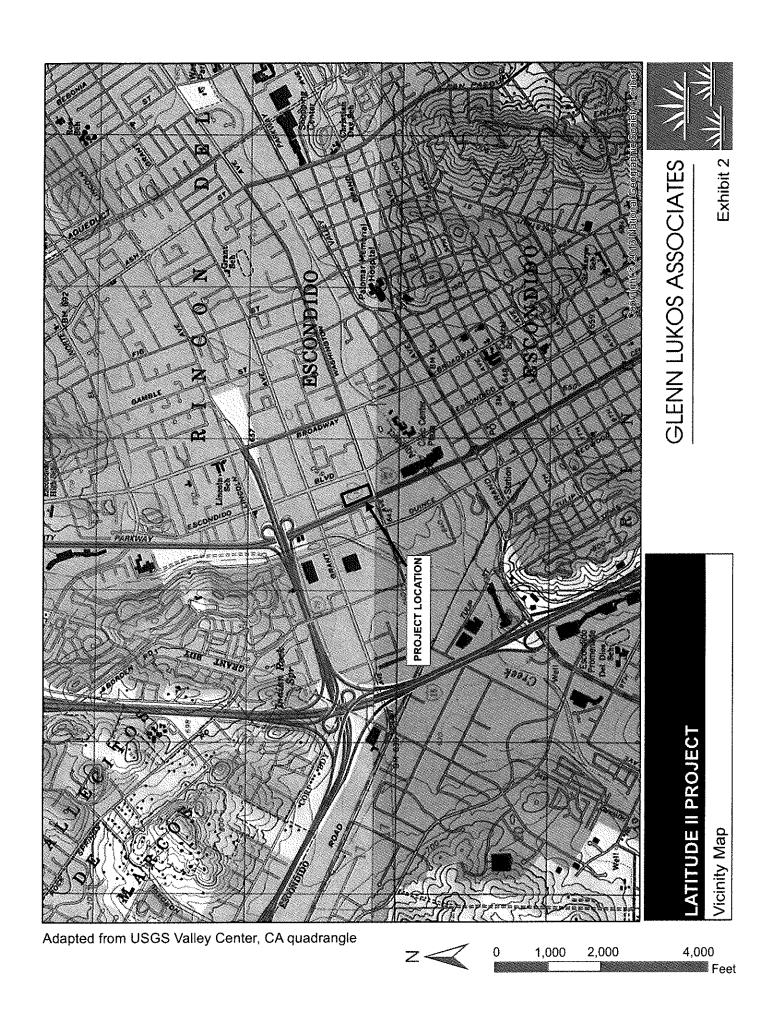
MEMORANDUM February 2, 2015 Page 3

GLA obtained concurrence from the Corps via email by Therese O. Bradford, Chief, South Coast Branch on July 3, 2014 that there were no waters of the United States, subject to Corps jurisdiction on the Site, including wetlands. Similarly GLA also obtained concurrence from CDFW concerning potential waters of the State from Kevin Hupf via an informal consultation at the Project Site on July 24, 2014. Mr. Hupf indicated that the Department of Fish and Wildlife would not require "notification" (i.e., require a Section 1602 Streambed Alteration Agreement) prior to grading the site, which is the Department's confirmation that that feature on the site is not a "Water of the State" pursuant to Section 1602 of the Fish and Game Code. Mr. Hupf explained that there are no provisions in the Fish and Game Code for making "nonjurisdictional" determinations and that his determination that "notification" would not be required would not be provided in writing, but that he would be happy to cover this with the City of Escondido Planning staff by means of a telephone conversation. As such, construction of the site would not result in impacts to Section 404 or Section 1602 jurisdiction, including wetlands or riparian habitat. Given that the Project contains no areas of defined waters of the U.S. or waters of the State, the Regional Water Quality Control Board would assert no jurisdictional oversight over the Property pursuant to the Clean Water Act or under the Porter-Cologne Act.

3. Conclusion

In accordance with the CEQA Appendix G Guidelines noted above construction of the Project would result in no significant impacts on biological resources and therefore require no mitigation. As confirmed by the regulatory agencies the Project requires no authorizations for impacts to the non-jurisdictional drainage feature.







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Legend

Project boundary



1 inch = 150 feet

Aerial Photo: ESRI Basemaps Reference Elevation Datum: State Plane 6 NAD 83 Map Prepared by: C. Lukos, GLA Date Prepared: June 24, 2014

LATITUDE II PROJECT

Aerial Photograph







June 30, 2014

Peter D. Zak NCA Real Estate 3 Corporate Plaza, Suite 230 Newport Beach, California 92660 USA

SUBJECT: Jurisdictional Determination for Latitude II, Escondido, California

Dear Mr. Zak:

This letter report summarizes our preliminary findings of U.S. Army Corps of Engineers (Corps) and California Department of Fish and Wildlife (CDFW) jurisdiction for the above-referenced property.¹

The Latitude II project site in San Diego County [Exhibit 1], comprises approximately 3.73 acres and contains no blue-line drainages (as depicted on the U.S. Geological Survey (USGS) topographic map Valley Center, California [dated 1968 and photo revised in 1975]) [Exhibit 2]. On June 23, 2014, regulatory specialists of Glenn Lukos Associates, Inc. (GLA) examined the project site to determine the limits of (1) Corps jurisdiction pursuant to Section 404 of the Clean Water Act, and (2) CDFW jurisdiction pursuant to Division 2, Chapter 6, Section 1600 of the Fish and Game Code. Enclosed is a 150-scale map [Exhibit 3] that depicts the areas of Corps and CDFW jurisdiction. Photographs to document the topography, vegetative communities, and general widths of each of the waters are provided as Exhibit 4. Wetland data sheets are attached as Appendix A.

The site contains no wetlands pursuant to Section 404 of the Clean Water Act and the area contains no drainages with an Ordinary High Water Mark (OHWM).

The site contains no streambed pursuant to section 1602 of the California Fish and Game Code and the site contains no riparian habitat.

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¹ This report presents our best effort at estimating the subject jurisdictional boundaries using the most up-to-date regulations and written policy and guidance from the regulatory agencies. Only the regulatory agencies can make a final determination of jurisdictional boundaries. If a final jurisdictional determination is required, GLA can assist in getting written confirmation of jurisdictional boundaries from the agencies.

I. METHODOLOGY

Prior to beginning the field delineation a color aerial photograph, and the previously cited USGS topographic map were examined to determine the locations of potential areas of Corps/CDFW jurisdiction. Potential jurisdictional areas were field checked for the presence of definable channels and/or wetland vegetation, soils and hydrology. Potential wetland habitats on the site were evaluated using the methodology set forth in the U.S. Army Corps of Engineers 1987 Wetland Delineation Manual² (Wetland Manual) and the 2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Supplement (Version 2.0) (Arid West Supplement).³ Data relevant to potential presence of wetlands were recorded onto wetland data sheets. The presence of an Ordinary High Water Mark (OHWM) was determined using A Field Guide to the Identification of the ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States and Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States.

The Soil Conservation Service (SCS)⁴ has mapped the following soil types as occurring in the general vicinity of the project site:

Placentia Sandy Loam, 2 to 9 percent slopes

The Placentia series consists of moderately well drained sandy loams that have a sandy clay subsoil. These soils formed in granite alluvium. In a typical profile the surface layer is brown, medium acid and slightly acid sandy loam about 13 inches thick. The subsoil is brown, moderately alkaline sandy clay and clay loam about 40 inches thick.

Ramona Sandy Loam, 2 to 5 percent slopes

The Ramona series consists of well-drained deep sandy loams that have a sandy clay loam subsoil. These soils also formed in granite alluvium. In a typical profile the surface layer is yellowish-brown and brown, slightly acid and medium acid sandy loam about 17 inches think. The subsoil is brown and yellowish-brown slightly acid and neutral sandy clay loam about 43 inches thick.

² Environmental Laboratory. 1987. <u>Corps of Engineers Wetlands Delineation Manual</u>, Technical Report Y-87-1, U.S. Army Engineer Waterways Experimental Station, Vicksburg, Mississippi.

³ U.S. Army Corps of Engineers, Ed. J.S. Wakeley, R.W. Lichevar, and C.V. Noble, <u>Regional Supplement to the Corps of Engineers Wetland Delineation Manual</u>; <u>Arid West Region</u> (Version 2.0), 2008.

⁴ SCS is now known as the National Resource Conservation Service or NRCS.

None of these soil units are identified as hydric in the SCS's publication, <u>Hydric Soils of the United States</u>⁵ or the hydric soils list for San Diego County. 6

II. JURISDICTION

A. Army Corps of Engineers

Pursuant to Section 404 of the Clean Water Act, the Corps regulates the discharge of dredged and/or fill material into waters of the United States. The term "waters of the United States" is defined in Corps regulations at 33 CFR Part 328.3(a) as:

- (1) All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
- (2) All interstate waters including interstate wetlands;
- (3) All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect foreign commerce including any such waters:
 - (i) Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
 - (ii) From which fish or shell fish are or could be taken and sold in interstate or foreign commerce; or
 - (iii) Which are used or could be used for industrial purpose by industries in interstate commerce...
- (4) All impoundments of waters otherwise defined as waters of the United States under the definition;
- (5) Tributaries of waters identified in paragraphs (a) (1)-(4) of this section;
- (6) The territorial seas;

(7) Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (a) (1)-(6) of this section.

⁵ United States Department of Agriculture, Soil Conservation Service. 1991. <u>Hydric Soils of the United States</u>, 3rd Edition, Miscellaneous Publication Number 1491. (In cooperation with the National Technical Committee for Hydric Soils.)

⁶ United States Department of Agriculture, Soil Conservation Service. <u>Hydric Soils List</u>, Escondido, CA Field Office, Section II (March 1992).

Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 CFR 123.11(m) which also meet the criteria of this definition) are not waters of the United States.

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

In the absence of wetlands, the limits of Corps jurisdiction in non-tidal waters, such as intermittent streams, extend to the OHWM which is defined at 33 CFR 328.3(e) as:

...that line on the shore established by the fluctuation of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

1. Wetland Definition Pursuant to Section 404 of the Clean Water Act

The term "wetlands" (a subset of "waters of the United States") is defined at 33 CFR 328.3(b) as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support...a prevalence of vegetation typically adapted for life in saturated soil conditions." In 1987 the Corps published a manual to guide its field personnel in determining jurisdictional wetland boundaries. The methodology set forth in the 1987 Wetland Delineation Manual and the Arid West Supplement generally require that, in order to be considered a wetland, the vegetation, soils, and hydrology of an area exhibit at least minimal hydric characteristics. While the manual and Supplement provide great detail in methodology and allow for varying special conditions, a wetland should normally meet each of the following three criteria:

⁷ The term "prior converted cropland" is defined in the Corps' Regulatory Guidance Letter 90-7 (dated September 26, 1990) as "wetlands which were both manipulated (drained or otherwise physically altered to remove excess water from the land) and cropped before 23 December 1985, to the extent that they no longer exhibit important wetland values. Specifically, prior converted cropland is <u>inundated for no more than 14 consecutive days</u> during the growing season...." [Emphasis added.]

- more than 50 percent of the dominant plant species at the site must be typical of wetlands (i.e., rated as facultative or wetter in the National List of Plant Species that Occur in Wetlands⁸);
- soils must exhibit physical and/or chemical characteristics indicative of permanent or periodic saturation (e.g., a gleyed color, or mottles with a matrix of low chroma indicating a relatively consistent fluctuation between aerobic and anaerobic conditions); and
- Whereas the 1987 Manual requires that hydrologic characteristics indicate that the ground is saturated to within 12 inches of the surface for at least five percent of the growing season during a normal rainfall year, the Arid West Supplement does not include a quantitative criteria with the exception for areas with "problematic hydrophytic vegetation", which require a minimum of 14 days of ponding to be considered a wetland.

B. California Department of Fish and Wildlife

Pursuant to Division 2, Chapter 6, Sections 1600-1603 of the California Fish and Game Code, the CDFW regulates all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake, which supports fish or wildlife.

CDFW defines a "stream" (including creeks and rivers) as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having surface or subsurface flow that supports or has supported riparian vegetation." CDFW's definition of "lake" includes "natural lakes or manmade reservoirs."

CDFW jurisdiction within altered or artificial waterways is based upon the value of those waterways to fish and wildlife. CDFW Legal Advisor has prepared the following opinion:

- Natural waterways that have been subsequently modified and which have the potential to contain fish, aquatic insects and riparian vegetation will be treated like natural waterways...
- Artificial waterways that have acquired the physical attributes of natural stream courses and which have been viewed by the community as natural stream courses, should be treated by [CDFW] as natural waterways...

⁸ Lichvar, R.W., M. Butterwick, N.C. Melvin, and W. N. Kirchner, 2014, <u>The National Wetland Plant List</u>: Update of Wetland Ratings, Phytoneuron 2014-41: 1-42.

 Artificial waterways without the attributes of natural waterways should generally not be subject to Fish and Game Code provisions...

Thus, CDFW jurisdictional limits closely mirror those of the Corps. Exceptions are CDFW's exclusion of isolated wetlands (those not associated with a river, stream, or lake), the addition of artificial stock ponds and irrigation ditches constructed on uplands, and the addition of riparian habitat supported by a river, stream, or lake regardless of the riparian area's federal wetland status.

III. RESULTS

A. Corps Jurisdiction

The project site contains a single swale that enters the site at the eastern boundary and extends in a westerly direction to a concrete inlet where it exits the site. The swale contains no indicators for an OHWM; rather it exhibits dense upland vegetation across the entire feature. The swale contains no wetlands.

The swale supports a predominance of upland species. Dominant species include, Johnson grass (*Sorghum halepense*, FACU), castor-bean (*Ricinus communis*, FACU), Bermuda grass (*Cynodon dactylon*, FACU), and Italian Rye grass (*Festuca perennis*, FAC).

Other species include, bristly ox-tongue (*Helminthotheca echiodes*, FACU) yard knotweed (*Polygnomum aviculare*, FACW), field bindweed (*Convolvulus arvensis*, UPL), wild oats (*Arena fatua*, UPL), giant reed (*Arundo donax*, FACW), and curly dock (*Rumex crispus*, FAC).

The plants were examined at three data collection points, [Exhibit 3] with each one failing the basic dominance test. The prevalence index score from point 1 is 3.89, with soil point 2 scoring 3.59, and point 3 scoring 3.87. Given that all three points failed both the basic dominance test and the prevalence index, the site does not support hydrophytic vegetation.

Soils exhibited a chroma of 10/YR 2/1 and no redoximorphic features. No other hydric soil indicators were present. Therefore the site does not exhibit hydric soils.

As to Hydrology, the swale exhibited one secondary indicator, drainage patterns (B10), but because no other secondary or primary indicators were present, the site does not meet the threshold for wetland hydrology.

Therefore, the swale fails to meet each of the three criteria for a positive wetland determination.

B. CDFW Jurisdiction

The project site contains a single swale that enters the site at the eastern boundary and extends in a westerly direction to a concrete inlet where it exits the site. The swale contains no indicators that water flows in a manner consistent with the presence of a "stream." The swale does not support riparian or wetland habitat.

The swale supports a predominance of upland species. Dominant species include, Johnson grass (Sorghum halepense, FACU), castor-bean (Ricinus communis, FACU), Bermuda grass (Cynodon dactylon, FACU), and Italian Rye grass (Festuca perennis, FAC).

Other species include, bristly ox-tongue (*Helminthotheca echiodes*, FACU), yard knotweed (*Polygnomum aviculare*, FACW), field bindweed (*Convolvulus arvensis*, UPL), wild oats (*Avena fatua*, UPL), and curly dock (*Rumex crispus*, FAC).

Giant reed (Arundo donax, FACW) is also present but only a few individuals occur inside and outside of the swale.

Soils exhibited a chroma of 10/YR 2/1 and no redoximorphic features. No other hydric soil indicators were present. Therefore the site does not exhibit hydric soils.

As noted, the swale does not exhibit the characteristics of a stream, therefore the swale is not a streambed pursuant to section 1602.

If you have any questions about this letter report, please contact Tony Bomkamp at (949) 837-0404, ext. 41.

Sincerely,

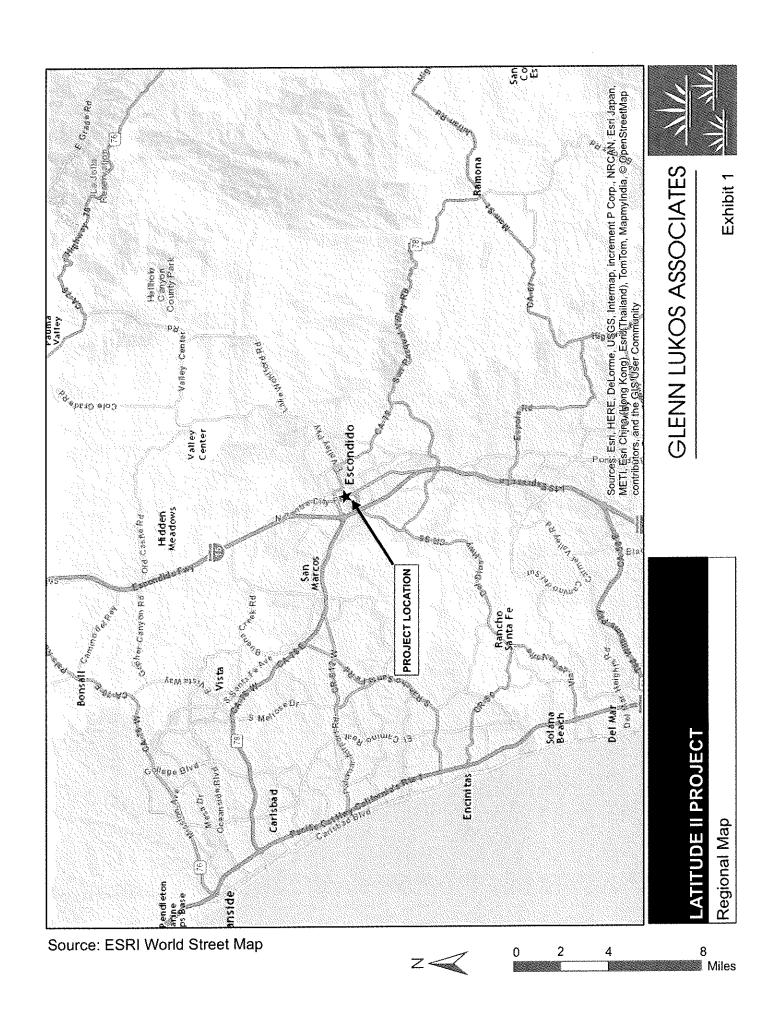
GLENN LUKOS ASSOCIATES, INC.

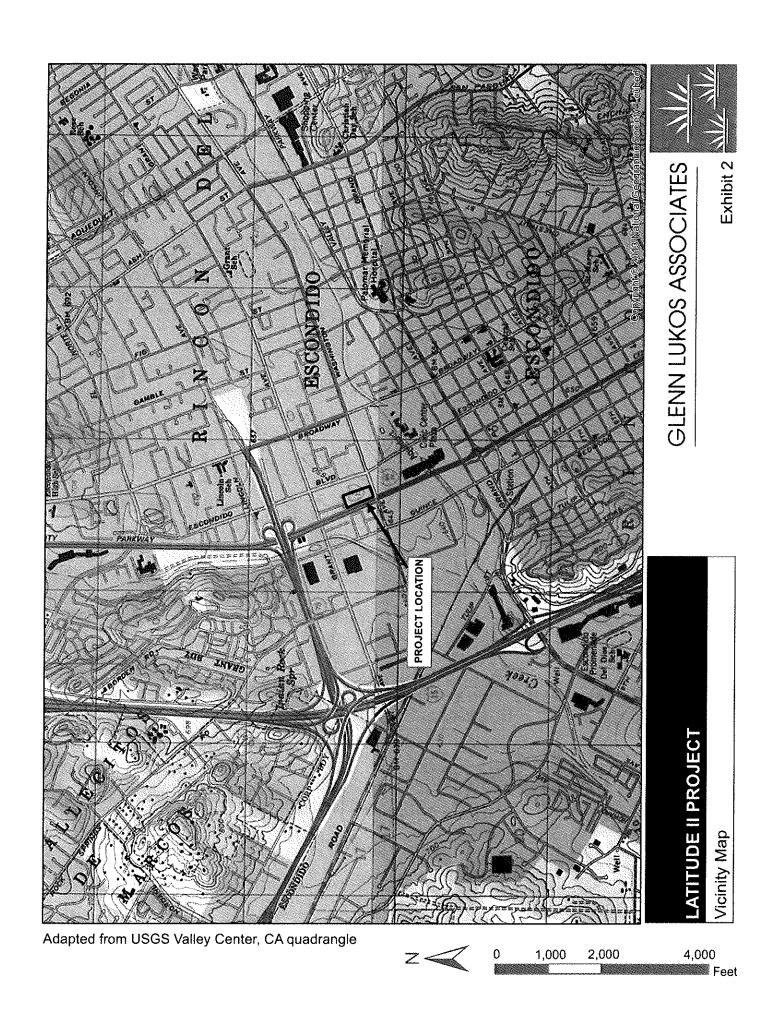
Tony Bomkamp

Regulatory Specialist

Tony Bondand

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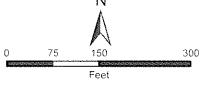




Legend

Data Pits

Project boundary

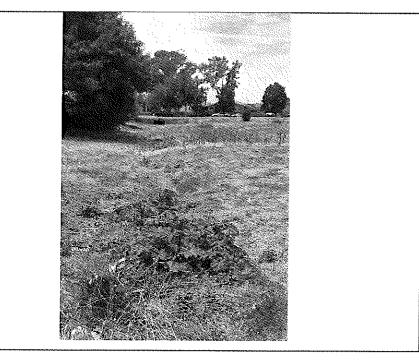


1 inch = 150 feet

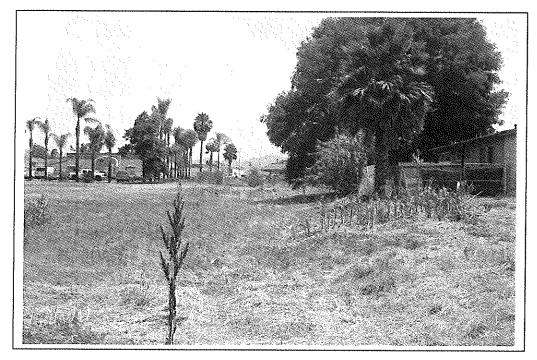
Aerial Photo: ESRI Basemaps Reference Elevation Datum: State Plane 6 NAD 83 Map Prepared by: C. Lukos, GLA Date Prepared: June 24, 2014







Photograph 1: View of Swale Looking West



Photograph 2: View of Swale Looking East

LATITUDE II Site Photographs

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Intitude II	City/0	County: Sales	Diego Sampling Date: <u>6/23//</u>
Applicant/Owner: NCA			State: CA Sampling Point: 4
Investigator(s): To 13 em kamp/P.Rot	Section Section	ion, Township, Ra	nge:
Landform (hillstope, terrace, etc.): field	Loca	al relief (concave,	convex, none): 👉 🖟 (८५ ८ ८ ८) Slope (%): 🎉 🕻 🕹
Subregion (LRR): LRRC	Lat: <u>// 7°</u> 0	5121.98W	Long: 33 67 34, 54" \ Datum:
			Ayloum NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for			
			"Normal Circumstances" present? Yes 🔀 No
Are Vegetation, Soil, or Hydrology	_ naturally problem	atic? 🏑 (If no	eeded, explain any answers in Remarks.)
		·	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No ×	in the Commission	1 4
Hydric Soil Present? Yes		is the Sampled within a Wetla	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Wetland Hydrology Present? Yes	No	WIEITH & WELLE	103
Remarks:			
VEGETATION – Use scientific names of pl	ants.		
	Absolute Do	minant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		ecies? Status	Number of Dominant Species That Are OBL FACW or FAC: (A)
1			That Are OBL, FACW, or FAC: (A)
3			Total Number of Dominant Species Across All Strata: (B)
4.		***************************************	, , ,
	= To	otal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)			
1,			Prevalence Index worksheet:
2			Total % Cover of: Multiply by: OBL species x 1 =
3			FACW species
4.			FAC species
	= To	otal Cover	FACU species 75 x4= 300
Herb Stratum (Plot size:)	-	na para	UPL species x5=
1. Elcinus Companios	— <u>32,7 X</u> ;	<u> 5</u>	Column Totals: (A) 330 (B)
2. Cymoden daetylen	5 5 % V	ro FACU	Prevalence Index = B/A = 3, 569
3. Helminthother echione	5 <u>54 N</u> 34 N		Hydrophytic Vegetation Indicators:
4. Arepa fatua 5. Convervilus arvensis	- 3 % N		Dominance Test is >50%
6. Paragram windare	700 1		Prevalence Index is ≤3.0¹
7.		· wheelster and a second	Morphological Adaptations ¹ (Provide supporting
8.			data in Remarks or on a separate sheet)
	<u>87</u> = Te	otal Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	v		If the state of th
1.			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Z		otal Cover	Hydrophytic
D. C.			Vegetation
<u> </u>	ver of Biotic Crust _		Present? Yes No No
Remarks:			

madila Dani	cription: (Describe	in the death	anadad ta dagu	mont the indicat	v or confie	m the sheepee	of indicators)
		to tue gebru			or Commi	III tile anselice	or marcators.)
Depth inches)	Matrix Color (moist)	%	Color (moist)	x Features % Type	Loc ²	Texture	Remarks
~17	1000 411	100	**	40		Loam	
· ·	10 yo 11	100				C-C-F-YE	
							
							
							-
				·			

vpe: C=C	oncentration, D=Dep	eletion, RM=R	educed Matrix, C5	S=Covered or Co	ted Sand G	irains. ² Loc	ation: PL=Pore Lining, M=Matrix.
	Indicators: (Applic				-		for Problematic Hydric Soils ³ :
_ Histosol			Sandy Red			1 cm M	uck (A9) (LRR C)
	pipedon (A2)		Stripped Ma				iuck (A10) (LRR B)
- ,	istic (A3)		Loamy Muc	ky Mineral (F1)			ed Vertic (F18)
	en Sulfide (A4)			ed Matrix (F2)		***************************************	rent Material (TF2)
	d Layers (A5) (LRR (3)	Depleted M			Other (Explain in Remarks)
	ick (A9) (LRR D)			Surface (F6)			
	d Below Dark Surfac	e (A11)		ark Surface (F7)		3 maliantara	-f to december to consisting and
	ark Surface (A12)		Redox Depi	ressions (F8)			of hydrophytic vegetation and lydrology must be present,
-	Mucky Mineral (S1) Sleyed Matrix (S4)		Venan Fooi	8 (ГӘ)			sturbed or problematic.
	Layer (if present):	s					attibut or proportion.
70u:	rakas in branaria.	4					
Tune:		f,					
Type:	3 7 7 7	<u> </u>				Hydric Soil	Procent? Yes No
Depth (in	3 7 7 7	<u> </u>		***************************************		Hydric Soil	Present? Yes No
Depth (in	3 7 7 7	Š		and a company of the second		Hydric Soil	Present? Yes No
Depth (inc	3 7 7 7	<u> </u>				Hydric Soil	Present? Yes No
Depth (in	3 7 7 7	<u> </u>				Hydric Soil i	Present? Yes No
Depth (in	3 7 7 7	<u> </u>				Hydric Soil	Present? Yes No
Depth (inc	ches):					Hydric Soil	Present? Yes No
Depth (incernarks:	ches):					Hydric Soil	Present? Yes No
Depth (incernarks:	ches):		check all that appli	ν).			Present? Yes No
Depth (incernarks: DROLO etland Hydinary Indic	GY drology Indicators:					Secon	dary indicators (2 or more required)
Depth (incernarks: DROLO etland Hydicimary Indice	GY drology Indicators: cators (minimum of o		Salt Crust	(B11)		Secon	dary Indicators (2 or more required) ater Marks (B1) (Riverine)
Depth (incernarks: DROLO etland Hydicimary Indice High Wa	GY drology Indicators: cators (minimum of o Water (A1) ster Table (A2)		Salt Crust Biotic Crus	(B11) st (B12)		<u>Secon</u> W: Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adment Deposits (B2) (Riverine)
Depth (incernarks: DROLO etland Hydical mary Indical Surface High Wal Saturation	GY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3)	ne required; c	Salt Crust Biotic Crus Aquatic Inv	(B11) st (B12) vertebrates (B13)		Second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine)
Depth (incernarks: DROLO etland Hydical mary Indical Surface High Wall Saturation Water M	GY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) arks (B1) (Nonriver)	ne required; c	Salt Crust Biotic Crus Aquatic Int	(B11) it (B12) vertebrates (B13) Sulfide Odor (C1)		Second W Se Dr Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10)
Depth (incernarks: DROLO etland Hydimary Indices High Wassaturation Water M Sedimer	GY drology Indicators: cators (minimum of o Water (A1) after Table (A2) on (A3) larks (B1) (Nonriveri at Deposits (B2) (No	ine <u>required; c</u> ine) nriverine)	Salt Crust Biotic Crust Aquatic Inu Hydrogen Oxidized R	(B11) it (B12) vertebrates (B13) Sulfide Odor (C1) thizospheres ator	g Living Ro		dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
Depth (incernarks: DROLO etland Hydimary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep	GY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri at Deposits (B2) (Non cosits (B3) (Nonriveri	ine <u>required; c</u> ine) nriverine)	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized R	(B11) It (B12) Vertebrates (B13) Sulfide Odor (C1) thizospheres alor of Reduced Iron (g Living Ro C4)	Second W Se Dr Dr Dr Cots (C3) Dr	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adment Deposits (B2) (Riverine) ait Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8)
Depth (incernarks: DROLO etland Hydimary India Surface High Water M Sedimer Drift Dep	GY drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriveri at Deposits (B2) (Nor posits (B3) (Nonriver Soil Cracks (B6)	ne required; c ine) nriverine) rine)	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized R Presence o	(B11) it (B12) vertebrates (B13) Sulfide Odor (C1) thizospheres alor of Reduced Iron (in Reduction in Ti	g Living Ro C4)	Second W Second Dr Dr Cr Cr Se	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (
Depth (incemarks: DROLO etland Hydrimary India Surface High Was Saturatio Water M Sedimer Drift Dep Surface Inundatio	GY drology Indicators: cators (minimum of o Water (A1) of (A3) larks (B1) (Nonriver at Deposits (B2) (Non cosits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial II	ne required; c ine) nriverine) rine)	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iron Thin Muck	(B11) it (B12) vertebrates (B13) Sulfide Odor (C1) thizospheres alor of Reduced Iron (in Reduction in Ti Surface (C7)	g Living Ro C4)	Second W Second Dr Dr Cr St (C3) Dr Cr St (C3) Sa St St	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adment Deposits (B2) (Riverine) ait Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Gallow Aquitard (D3)
Depth (incernarks: DROLO etland Hydical Surface High Water M Sedimer Drift Dep Surface Inundation Water-Si	GY drology Indicators: cators (minimum of o Water (A1) after Table (A2) on (A3) larks (B1) (Nonriveri at Deposits (B2) (Non posits (B3) (Nonriveri Soil Cracks (B6) on Visible on Aerial I tained Leaves (B9)	ne required; c ine) nriverine) rine)	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iron Thin Muck	(B11) it (B12) vertebrates (B13) Sulfide Odor (C1) thizospheres alor of Reduced Iron (in Reduction in Ti	g Living Ro C4)	Second W Second Dr Dr Cr St (C3) Dr Cr St (C3) Sa St St	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (
Depth (incernarks: DROLO etland Hydican High Water M Sedimer Drift Dep Surface Inundation Water-Sield Observites	GY drology Indicators: cators (minimum of o Water (A1) after Table (A2) on (A3) larks (B1) (Nonriveri at Deposits (B2) (Non cosits (B3) (Nonriveri Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations:	ine) nriverine) rine) magery (B7)	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp	(B11) it (B12) vertebrates (B13) Sulfide Odor (C1) thizospheres alor of Reduced Iron (in Reduction in Ti Surface (C7) slain in Remarks)	g Living Ro C4) led Solls (Co	Second W Second Dr Dr Cr St (C3) Dr Cr St (C3) Sa St St	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adment Deposits (B2) (Riverine) ait Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Gallow Aquitard (D3)
Depth (incemarks: DROLO Tetland Hydrimary Indicemary Indicemark Water-State Observant	GY drology Indicators: cators (minimum of o Water (A1) after Table (A2) on (A3) larks (B1) (Nonriveri at Deposits (B2) (Non cosits (B3) (Nonriveri Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present?	ine) ine) inriverine) rine) magery (B7)	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp	(B11) it (B12) rertebrates (B13) Sulfide Odor (C1) thizospheres alor of Reduced Iron (in Reduction in Ti Surface (C7) clain in Remarks)	g Living Ro C4) led Soils (Ci	Second W Second Dr Dr Cr St (C3) Dr Cr St (C3) Sa St St	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adment Deposits (B2) (Riverine) ait Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Gallow Aquitard (D3)
Depth (incernarks: /DROLO /etland Hydrimary Indices Surface High Water M Sedimer Drift Dep Surface Inundation Water-Sield Observirface Water	GY drology Indicators: cators (minimum of o Water (A1) after Table (A2) on (A3) larks (B1) (Nonriveri at Deposits (B2) (Nonriveri Soil Cracks (B6) on Visible on Aerial II tained Leaves (B9) vations: er Present? Ye	ine) nriverine) rine) magery (B7) es No	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp	(B11) It (B12) Ivertebrates (B13) Sulfide Odor (C1) Chizospheres alor of Reduced Iron (In Reduction in Till Surface (C7) Idain in Remarks) Ches):	g Living Ro	Second W Se Dr Dr Cr St St St FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (incentive control of the cont	GY drology Indicators: cators (minimum of o Water (A1) after Table (A2) on (A3) arks (B1) (Nonriveri at Deposits (B2) (Nonriveri soil Cracks (B6) on Visible on Aerial Intained Leaves (B9) vations: er Present? Yesent? Yesent?	ine) ine) inriverine) rine) magery (B7)	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp	(B11) it (B12) rertebrates (B13) Sulfide Odor (C1) thizospheres alor of Reduced Iron (in Reduction in Ti Surface (C7) clain in Remarks)	g Living Ro	Second W Se Dr Dr Cr St St St FA	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (incemarks: /DROLO /etland Hydrimary Indice Surface High Water M Sedimer Drift Dep Surface Inundation Water-Sield Observater Table atturation Procludes cap	GY drology Indicators: cators (minimum of o Water (A1) ster Table (A2) on (A3) larks (B1) (Nonriveri at Deposits (B2) (Non cosits (B3) (Nonriveri Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Present? Ye resent? Ye resent? Ye resent? Ye resent? Ye resent?	ine) nriverine) rine) magery (B7) es No es No	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp	(B11) It (B12) Vertebrates (B13) Sulfide Odor (C1) Chizospheres alor of Reduced Iron (In Reduction in Til Surface (C7) Idain in Remarks) Ches): Ches):	g Living Ro C4) led Soils (Ci	Second When the second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Ca) allow Aquitard (D3) aC-Neutral Test (D5)
Depth (incemarks: /DROLO /etland Hydrimary Indice Surface High Water M Sedimer Drift Dep Surface Inundation Water-Sield Observater Table atturation Procludes cap	GY drology Indicators: cators (minimum of o Water (A1) after Table (A2) on (A3) arks (B1) (Nonriveri at Deposits (B2) (Nonriveri soil Cracks (B6) on Visible on Aerial Intained Leaves (B9) vations: er Present? Yesent? Yesent?	ine) nriverine) rine) magery (B7) es No es No	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp	(B11) It (B12) Vertebrates (B13) Sulfide Odor (C1) Chizospheres alor of Reduced Iron (In Reduction in Til Surface (C7) Idain in Remarks) Ches): Ches):	g Living Ro C4) led Soils (Ci	Second When the second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (incemarks: /DROLO /etland Hydrimary Indice Surface High Water M Sedimer Drift Dep Surface Inundation Water-Sield Observater Table atturation Procludes cap	GY drology Indicators: cators (minimum of o Water (A1) ster Table (A2) on (A3) larks (B1) (Nonriveri at Deposits (B2) (Non cosits (B3) (Nonriveri Soil Cracks (B6) on Visible on Aerial In tained Leaves (B9) vations: er Present? Present? Ye resent? Ye resent? Ye resent? Ye resent? Ye resent?	ine) nriverine) rine) magery (B7) es No es No	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iron Thin Muck Other (Exp	(B11) It (B12) Vertebrates (B13) Sulfide Odor (C1) Chizospheres alor of Reduced Iron (In Reduction in Til Surface (C7) Idain in Remarks) Ches): Ches):	g Living Ro C4) led Soils (Ci	Second When the second	dary Indicators (2 or more required) ater Marks (B1) (Riverine) adment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3)

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Latitude II	City/Co	ounty: <u>Sia</u>	11450 Sampling Date: 6/23//4
Applicant/Owner: NCA			State: CA Sampling Point: 2
Investigator(s): I Bounkamp IP Rohm	Section Section	n, Township, Rai	nge:
Landform (hillslope, terrace, etc.): Field	Local	relief (concave, o	convex, none): <u>Concalde</u> Slope (%): <u>< 2*</u>
			Jong: 330734 /5W Datum:
Soil Map Unit Name: Plazantia Sandy Logues			
Are climatic / hydrologic conditions on the site typical for thi	٥		•
Are Vegetation, Soil, or Hydrology s			
Are Vegetation, Soil, or Hydrology r			h in the second of the second
SUMMARY OF FINDINGS – Attach site map			
Hydrophytic Vegetation Present? Yes N	ło		
Hydric Soil Present? Yes N	lo	Is the Sampled within a Wetlan	
Wetland Hydrology Present? Yes N	i i	within a wetian	ICF 162
Remarks:			
			ver en
VEGETATION – Use scientific names of plan	· te		
VEGETATION – Use scientific flames of plan		inant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Spec		Number of Dominant Species
1			That Are OBL, FACW, or FAC: (A)
2.			Total Number of Dominant
3.	-		Species Across All Strata: (B)
4			Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)	= Tota	al Cover	That Are OBL, FACW, or FAC: 25.72 (A/B)
1.	~		Prevalence Index worksheet:
2	 		Total % Cover of: Multiply by:
3			OBL species x1 = 0
4			FACW species
5			FAC species x3 =
Herb Stratum (Plot size:		al Cover	FACU species
1. Senshum haleneuse	354V	> EACU	Column Totals: 7/ (A) 254 (B)
	396 IN	D EACLE	<u> </u>
3. Helmin Mothecoc echipolos	- 350 N	2 FACK	Prevalence Index = B/A = 3
1. Arunde deinax	- 300 ND	FACIU	Hydrophytic Vegetation Indicators:
5. Los fucu poromus	- <u>250/2 yê</u>	2 <i>EHC</i>	Dominance Test is >50% Prevalence Index is ≤3.0¹
6. Cenyalvalus amonsis	- 3° W	2 2072	Prevalence index is \$5.0 Morphological Adaptations¹ (Provide supporting
7.			data in Remarks or on a separate sheet)
8.	-7/ = Tota	al Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		ar Oover	
1			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2			
		al Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum 29 % Cove	r of Biotic Crust	<u> 10</u>	Present? Yes No
Remarks:			

US Army Corps of Engineers Arid West – Version 2.0

SOIL	Sampling Point:
Profile Description: (Describe to the depth needed to document the indicator or confirm	
Depth Matrix Redox Features	,
(inches) Cotor (moist) 4 Cotor (moist) % Type¹ Loc²	Texture Remarks
0-12 104R HI 100 0	LOAM
PROPERTY AND ADDRESS OF THE PROPERTY ADDRE	2
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Gr	rains. ² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	
Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	•
Thick Dark Surface (A12) Redox Depressions (F8)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Vernal Pools (F9)	wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Restrictive Layer (if present):	Threes distorbed or problematic.
Type:	,
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	Trydic contresent: 103 100
remars.	
I IVODO I OOV	
HYDROLOGY	
Wetland Hydrology Indicators:	Canandary Indicators (2 or mars required)
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10) uts (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6)	• • • • • • • • • • • • • • • • • • • •
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9) Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:	17.0 (1000)
Surface Water Present? Yes NoX Depth (inches):	
Water Table Present? Yes No Depth (inches):	~ /
	and Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches): Wetter (includes capillary fringe)	and right totally resent.
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections),	if available:
Remarks:	

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Latituele	2 Line	City/C	county: Say 1	Dieco	Sampling Date: <u>6/23//</u>
Applicant/Owner: NGA				State:	Sampling Point:
Investigator(s): T. Bonn kan	mo IP. Robi	in Sola Secile	on, Township, Rai	nge:	
Landform (hillslope, terrace, etc.): _	1 /	Loça	relief (concave,	convex, none): <u>Ček</u>	<u>1 € € (</u> Slope (%): <u> </u>
Subregion (LRR): LKKC		Lat: <u>// / /</u>	<u> 25 27 474</u>	∠ Long: <u>√7°07</u> →	<u>₹∑*/ - //</u> Datum:
Soil Map Unit Name: Plazautia	Sundy Loose	Rom Dua	Sundy L	್ಟ್ ಈ ₃ NWI class	sification:
Are climatic / hydrotogic conditions	on the site typical for t	his time of year? Y	′es <u>X</u> No	(If no, explain i	n Remarks.)
Are Vegetation, Soil	, or Hydrology	significantly distur	bed?///O Are "	Normal Circumstance	s" present? Yes 💢 No
Are Vegetation, Soil					
SUMMARY OF FINDINGS -	Attach site ma	showing san	npling point l	ocations, transe	cts, important features, etc.
Hydrophytic Vegetation Present?	Yes	No	to the Compled	l Anna	
Hydric Soil Present?	Yes	No	is the Sampled		No
Wetland Hydrology Present?	Yes	No	within a versar	ius :es	
VEGETATION – Use scient	ific names of pla		ninant Indicator	Dominance Test w	orksheat
Tree Stratum (Plot size:		% Cover Spe		Number of Dominar	
1				That Are OBL, FAC	
2				Total Number of Do	_
3.				Species Across All	Strata: (B)
Sapling/Shrub Stratum (Plot size.		= To	tal Cover	Percent of Dominan That Are OBL, FAC	
1				Prevalence Index v	vorksheet:
2.				Total % Cover	of: Multiply by:
3				OBL species	$O \times 1 = O$
4					X2= ()
5				FAC species	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Herb Stratum (Plot size:	Y	= To	tal Cover		The second second
1. Sorgham Hales	ense	3500 W	25 FACU	UPL species 2 Column Totals: 9	
2. Festuca ocres		3590	es FAC		
3. Convoluntus am	ensis	2590 V	e5 UPL	Prevalence Inc	dex = B/A = 3, 87
4. Rumer criedas		7 - 1 - 1	10 EAC	Hydrophytic Veget	ation Indicators:
5				Dominance Tes	
6				Prevalence Inde	
7				Morphological / data in Rem	Adaptations ¹ (Provide supporting arks or on a separate sheet)
8.		<u>97</u> = To	dol Cover	1	drophytic Vegetation ^t (Explain)
Woody Vine Stratum (Plot size:		= To	iai Cover		
1					soil and wetland hydrology must disturbed or problematic.
2.			tal Cover	Hydrophytic	
% Bare Ground in Herb Stratum	0/ 5		Mark.	Vegetation	Yes No V
Remarks:	70 COV	rei oi biodic Crust _		riosonif	Yes No
INCINGINS.					

SOIL	
------	--

Sampling Point: 3

Color (moles)	Depth	Matrix		eded to docum Redo	c Features	}			
Type: C-Concentration, D-Depletion, RM=Reduced Matrix, CS=Covered or Coaled Sand Grains. **Location: PL=Pore Lining, M=Matrix. tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Indicators (AIR) Reduced Vartic (F18) Indicators of hydrophytic vegetation and welland Hydrophytic vegetation and velland Hydrophytic vegetation	(inches)		% C			Type	Loc2	Texture	e Remarks
Type: C-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.	")-17	10 18 41	100	\overline{A}		4		1 OAL	1
Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solls*: Histos Epipedon (A2)	- ()	·		<u> </u>					
Histosol (A1) Sandy Redox (S5) Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) 1 cm Muck (A8) (LRR C) Histo Epipedron (A2) Slripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histo (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Stiffde (A4) Loamy Gleyed Matrix (F2) Reduced Vertic (F18) - Strattfied Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) - 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) - Depleted Dark Surface (A11) Depleted Dark Surface (F7) - Thick Dark Surface (A12) Redox Dark Surface (F7) - Thick Dark Surface (A12) Redox Dark Surface (F7) - Sandy Mucky Mineral (S1) Vernal Pools (F9) well and hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) - Mucky Mater Mucky Mineral (S1) - Mucky Mater Mucky Mucky Mineral (S1) - Mucky Mucky Mineral (Mucky Mucky									
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Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solls*: Histos Epipedon (A2)		-							
Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solls*: Histos Epipedon (A2)								-1	2
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Histic Epipedion (A2)	-	*	DIE IO AII LINKS			ru. j			· · · · · · · · · · · · · · · · · · ·
Black Histic (A3)			•						
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Sandy Gleyed Matrix (S4) cestrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes		• •				o)			
estrictive Layer (if present): Type: Depth (inches): Depth (in			_	_ vemai Poois	(F9)				
Type:								unie	ss disturbed or problematic.
Depth (inches):		Layer (n present):		•					
### Application of the present?	Type:	- 17 PM							
/DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Satt Crust (B11) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Sediment Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Sediment Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B3) (Riverine) Drift Deposi	Depth (in	ches):						Hydric S	Soil Present? Yes No 🔀
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Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Edit Observations: Urface Water Present? Yes No Depth (inches): Surface Water Table Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Surface Vater Present? Yes	fetland Hy rimary Indi Surface High W	drology Indicators: cators (minimum of one Water (A1) ater Table (A2)	e required; cher	Salt Crust (Biotic Crust	B11) (B12)			St	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Drift Deposits (B3) (Nonriverine)	/etland Hy rimary Indi Surface _ High Wi _ Saturati	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3)	-	Salt Crust (Biotic Crust	B11) (B12)	(B13)		Se	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
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Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Indicated Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth	/etland Hy rimary Indi _ Surface _ High Water N _ Water N _ Sedime	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) (Nonriverine nt Deposits (B2) (Nonri	- - e) iverine)	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh	B11) (B12) ertebrates Sulfide Od nizospher	or (C1) es along t			Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
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