Appendix D-2 LAX SPECIFIC PLAN AMENDMENT STUDY

Jurisdictional Delineation

July 2012

Prepared for:

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1. INTRODUCTION

This report summarizes Glenn Lukos Associates' (GLA) preliminary findings of U.S. Army Corps of Engineers Corps (USACOE¹), and California Department of Fish and Game (CDFG) jurisdiction for the Los Angeles International Airport (LAX).²

The LAX Specific Plan Amendment Study (SPAS) biological resources study area, located in Los Angeles County (Figure 1), comprises approximately 3,815 acres and contains two blue-line drainages, the Argo Drainage Channel, and the Century Boulevard Storm Drain. The biological resources study area is located within the U.S. Geological Survey (USGS) topographic maps Venice and Inglewood, California) (Figure 2). On July 7 and December 1, 2011, regulatory specialists of GLA examined the project site to determine the limits of (1) USACOE jurisdiction pursuant to Section 404 of the Clean Water Act, and (2) CDFG jurisdiction pursuant to Division 2, Chapter 6, Section 1600 of the Fish and Game Code. Figure 3 is an 800-scale map that depicts the areas of USACOE and CDFG jurisdiction. Photographs to document the topography, vegetative communities, and general widths of each of the waters are provided in Figure 4. Wetland data sheets are provided in Attachment 1. Preliminary Jurisdictional Determination Forms are provided in Attachment 2.

USACOE jurisdiction at the site totals approximately 3.78 acres, of which approximately 2.45 acres consist of non-wetland waters of the United States, and approximately 1.33 acres consist of jurisdictional wetlands.

CDFG jurisdiction at the site totals approximately 3.97 acres, of which approximately 2.45 acres consist of streambed, and approximately 1.52 acres consist of vegetated riparian habitat.

There is no California Coastal Commission (CCC) jurisdiction associated with the biological resources study area, as the only portion of the biological resources study area subject to the jurisdiction of the CCC is the Los Angeles/El Segundo Dunes, which contain no potential jurisdictional areas. All areas subject to the jurisdiction of the USACOE and CDFG are located east of Pershing Drive, outside the coastal zone.

2. METHODOLOGY

2.1 Literature Review

Prior to beginning the field delineation, a 200-scale color aerial photograph, a 200-scale topographic base map of the property, and the previously cited USGS topographic map were examined to determine the locations of potential areas of USACOE/CDFG jurisdiction.

Additionally, a literature review was conducted of the past jurisdictional delineations conducted for the biological resources study area and other relevant documents, including:

- ♦ LAX Master Plan Final EIR, Appendix J2, Jurisdictional Delineation, April 2004
- ◆ LAX Master Plan Final EIR, Appendix S-A, Agency Consultation Letters, April 2004
- ◆ LAX Master Plan Final EIR, Section 4.12, Wetlands, April 2004
- LAX Bradley West Project Draft EIR, Section 5.6, Wetlands, September 2009
- ♦ Jurisdictional Delineation Report, Tom Bradley International Terminal Reconfiguration Project (Bradley West Project) and Airfield Operations Area, June 2009

The US Army Corps of Engineers refers to itself in regulatory documents as "Corps," and GLA typically follows this convention; however, previous documentation for the Master Plan EIR has used the term "USACOE," and as such GLA will use the latter term for consistency with LAX Master Plan EIR documents.

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.

The literature review found that the biological resources study area has in the past supported ephemerally-wetted areas that were determined by the USACOE to be jurisdictional wetlands. Impacts to these jurisdictional wetlands were previously considered by the LAX Master Plan EIR. The USEPA subsequently determined that these ephemerally-wetted areas USACOE are not waters of the United States³ and they are not discussed further in this document. Two blue-line drainage features were found to appear within the biological resources study area, the Argo Drainage Channel and the Century Boulevard Storm Drain.

A review of historical topographic maps and aerial photographs⁴ conducted for the LAX Master Plan EIR indicated that the Argo Drainage Channel is a man-made flood control structure that was constructed circa 1949. The Argo Drainage Channel does not connect to any river, stream, or lake, but has been determined to flow into the Pacific Ocean through connections with the City of Los Angeles' storm drain system.⁵ A jurisdictional delineation of the Argo Drainage Channel was previously completed in support of emergency channel maintenance activities in October 1997. This was triggered by exertion of jurisdiction by CDFG over the channel pursuant to Section 1600 of the California Fish and Game Code. Section 1600 of the CDFG code requires a Streambed Alteration Agreement (SAA) for projects that will divert or obstruct the natural flow of water, change the bed channel, or bank of any stream, or use any material from a streambed. As a man-made structure, the Argo Drainage Channel was considered by LAWA not to be subject to the jurisdiction of the CDFG. However, CDFG and USACOE exerted jurisdiction over isolated wetlands and riparian habitat that had formed in the Argo Drainage Channel from a lack of routine operations and maintenance activities over an approximate 20-year period. CDFG and USACOE authorized emergency operations and maintenance activities that involved permanently removing riparian and wetland vegetation not exceeding 1.0 acre from the Argo Drainage Channel for the purpose of airport operational safety pursuant to a Negotiated Agreement and to Nationwide Permit No. 31 issued on January 7, 1998. As required by the CDFG Negotiated Agreement, and the USACOE authorization, the removal of isolated wetland and riparian vegetation was mitigated by LAWA through an off-site mitigation program, which consisted of the successful native plantings in the existing wetlands at Ken Malloy Regional Park. Because CDFG and USACOE jurisdictional areas impacted largely overlapped, the same off-site mitigation was appropriately used for both agencies. On December 9, 2004, USACOE issued a letter of satisfaction to LAWA recognizing the successful completion of the mitigation work. According to Section 4.12, Wetlands, of the LAX Master Plan EIR, USACOE determined that, upon completion of emergency operations and maintenance activities, the Argo Drainage Channel would no longer be subject to its jurisdiction pursuant to Section 404 of the Clean Water Act. However, this has not been confirmed. Therefore, for the purposes of this EIR, it is assumed that Argo Drainage Channel has the potential to continue to be subject to the jurisdiction of USACOE.

According to the LAX Master Plan EIR, field examination of the second "blue-line" drainage depicted on the topographic map revealed the Century Boulevard Storm Drain to be a man-made urban flood control structure excavated from a terrestrial upland area. The Century Boulevard Storm Drain parallels Century Boulevard and Aviation Boulevard, and consists primarily of a concrete box structure. It was determined that the storm drain does not contain soils or vegetation and, therefore, does not constitute a wetland or "waters of the United States." The Century Boulevard Storm Drain has subsequently been converted into an underground structure and therefore is not a jurisdictional feature.

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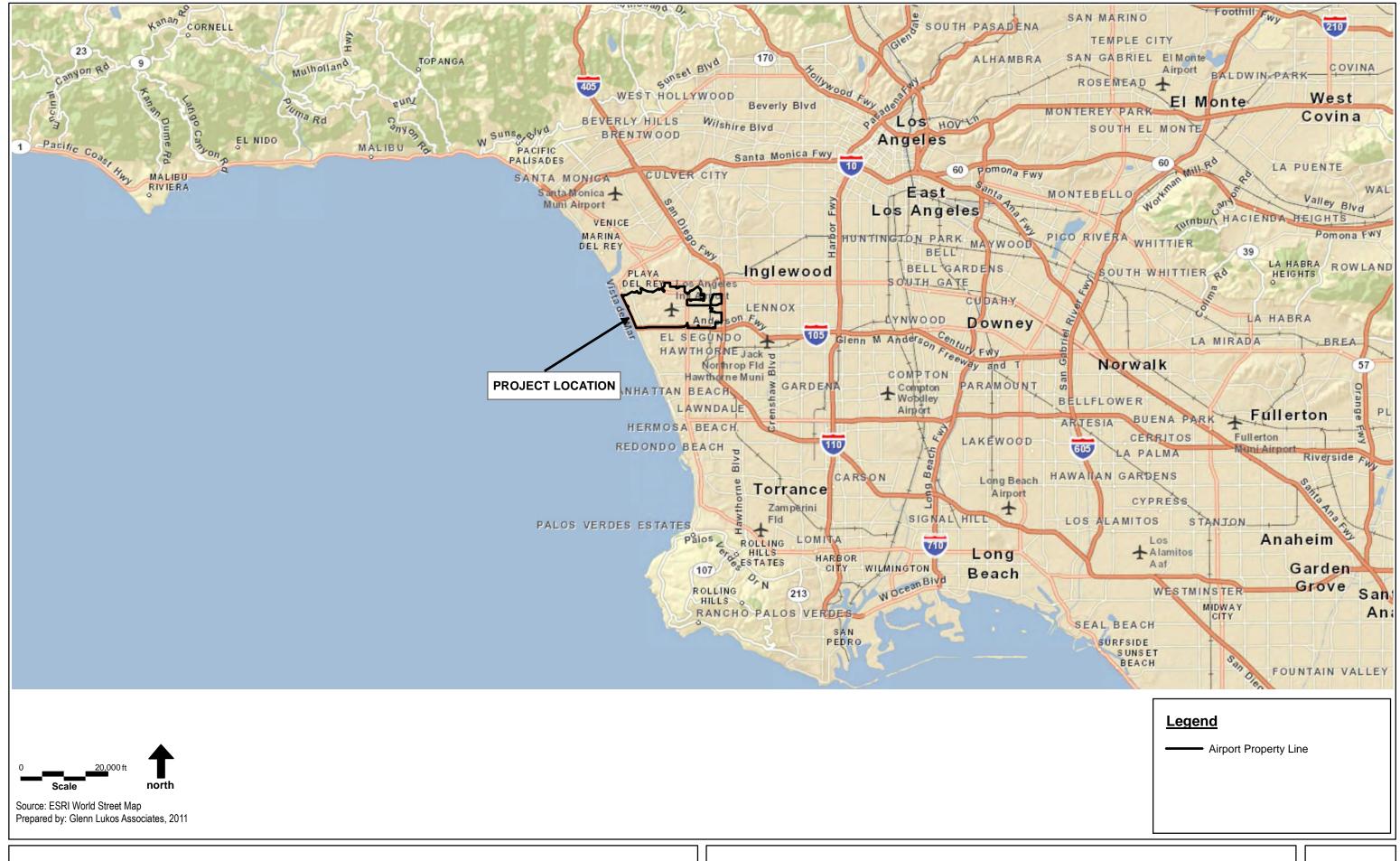
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³ U.S. Army Corps of Engineers, Los Angeles District, <u>Letter to Robert Freeman, Los Angeles World Airports, from Daniel P. Swensen: Approved Jurisdictional Determination Regarding Presence/Absence of Geographic Jurisdiction, December 30, 2009.</u>

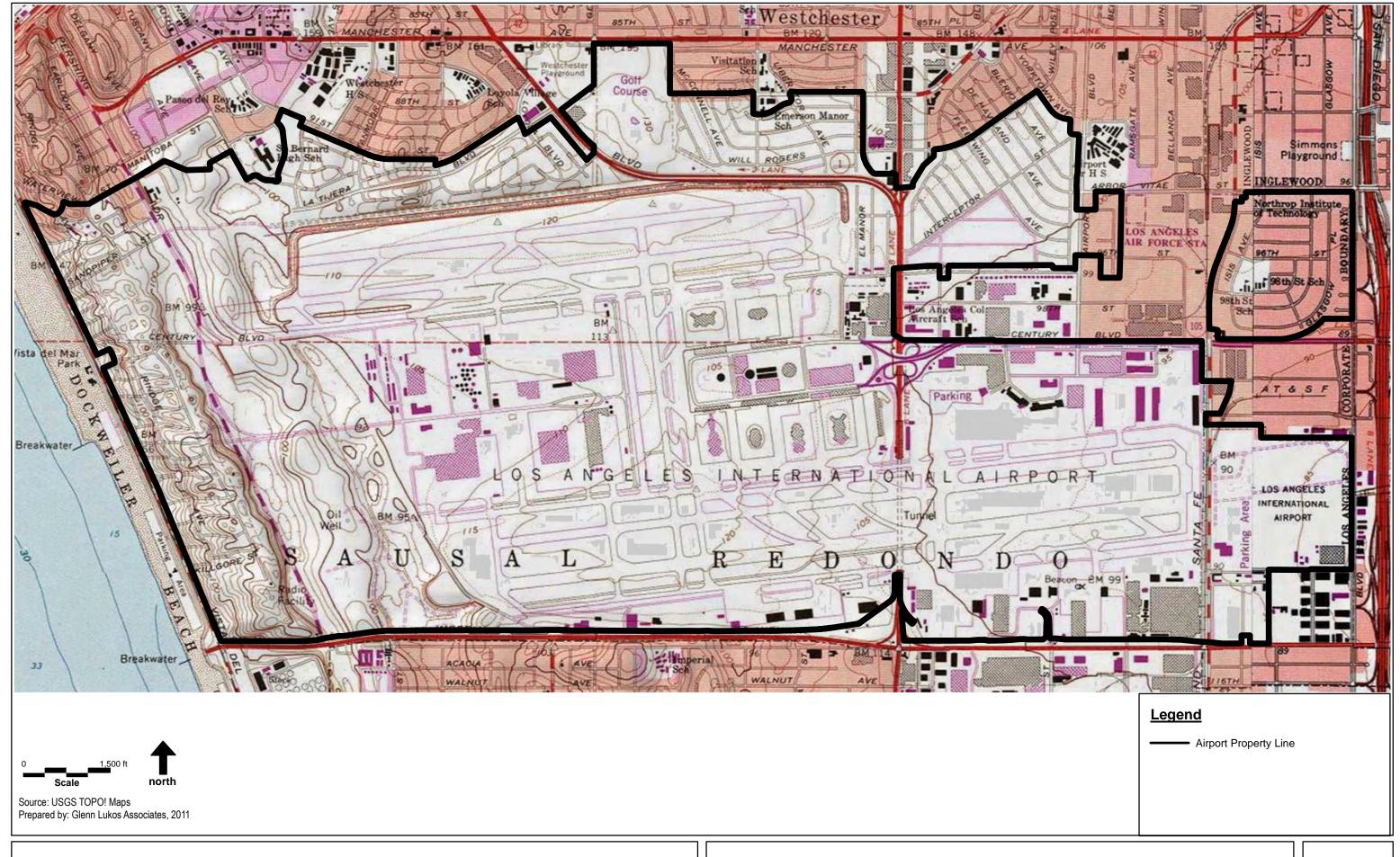
Sapphos Environmental, Inc., Memorandum for the Record (JN 1067-004.M18), Recommendations for Addressing Regulatory Compliance Issues Related to Areas Subject to the Jurisdiction of the U.S. Army Corps of Engineers and the California Department of Fish and Game at Los Angeles International Airport, City of Los Angeles, California, 1997.

Bapna, Victor, County of Los Angeles Department of Public Works, <u>Personal Communication</u>, August 2000.

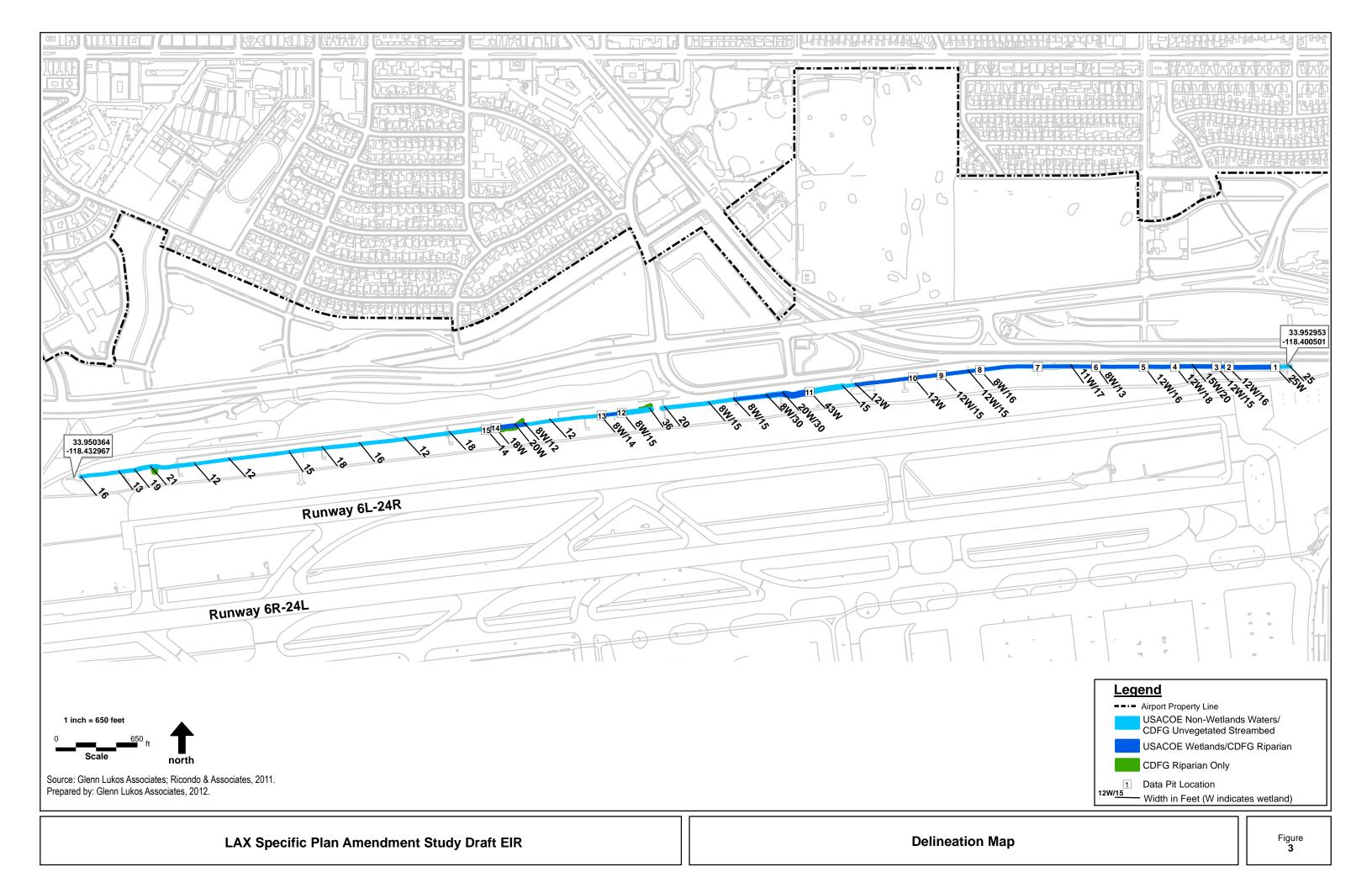
City of Los Angeles, Final Environmental Impact Report for Los Angeles International Airport (LAX) Proposed Master Plan Improvements, Section 4.12, Wetlands, April 2004.



Appendix D-2 Jurisdictional Delineation	n		
Los Angeles International Airport			
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Appendix D-2 Jurisdictional Delinea	tion		
Los Angeles International Airport	6	LAX Specific Plan	Amendment Study



Appendix D-2 Jurisdictional Deli	neation		
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Photograph 1: View of wetland area within Argo Drainage Channel typical of areas of storm drain discharge.



Photograph 3: View of reach of Argo Drainage Channel dominated by upland non-native yellow star thistle.

Source: Glenn Lukos Associates, 2011. Prepared by: Glenn Lukos Associates, 2012.



Photograph 2: View of Argo Drainage Channel looking west. Note predominance of upland non-native grasses.



Photograph 4: View of mostly unvegetated Argo Drainage Channel characteristic of western one-quarter of feature.

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2.2 Field Methodology

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 USACOE 1987 Wetland Delineation Manual⁷ (Wetland Manual) and the 2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (Arid West Supplement).⁸ While in the field, the limits of USACOE and CDFG jurisdiction were recorded onto a 100-scale color aerial photograph using visible landmarks. Other data were recorded onto wetland data sheets.

The potential for hydric soils in the context of a wetland delineation is typically evaluated by both an examination of hydric soil characteristics encountered in the field, and by examining soil maps and comparing the soil types mapped to lists of hydric soil types known for a given area. However, because of the long history of urban development within and surrounding the biological resources study area, no soil maps are available for the biological resources study area. Therefore, detection of hydric soils for the biological resources study area is limited to the field analysis.

3. JURISDICTION

3.1 Army Corps of Engineers

Pursuant to Section 404 of the Clean Water Act, the USACOE 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 USACOE 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;

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

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</u> Wetland Delineation Manual: Arid West Region (Version 2.0), 2008.

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.⁹ 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 USACOE jurisdiction in non-tidal waters, such as intermittent streams, extend to the ordinary high water mark (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.

3.1.1 <u>Wetland Definition Pursuant to Section 404 of the Clean</u> <u>Water Act</u>

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 USACOE 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 requires that, in order to be considered a wetland, the vegetation, soils, and hydrology of an area exhibit at least minimal hydric characteristics. While the Wetland Delineation Manual and Arid West Supplement provide great detail in methodology and allow for varying special conditions, a wetland should normally meet each of the following three criteria:

- ♦ 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 Wetlands ¹⁰);
- ♦ 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 Wetland Delineation 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.

3.1.2 U.S. Fish and Wildlife Service Wetland Definition

The U.S. Fish and Wildlife Service (USFWS) definition of wetlands is set forth in Classification of Wetlands and Deepwater Habitats of the United States:¹¹

WETLANDS are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For purposes of this

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 inundated for no more than 14 consecutive days during the growing season...." [Emphasis added.]

Reed, P.B., Jr., "National List of Plant Species that Occur in Wetlands", <u>U.S. Fish and Wildlife Service Biological Report 88(26.10)</u>, 1988.

Cowardin, Lewis M, Virginia Carter, Francis C. Golet, and Edward T. LaRoe, <u>Classification of Wetlands and Deepwater Habitats of the United States</u>, 1979.

classification wetlands must have one or more of the following three attributes: (1) at least periodically, the land supports predominantly hydrophytes; (2) the substrate is predominantly undrained hydric soil; and (3) the substrate is nonsoil and is saturated with water or covered by shallow water at some time during the growing season of each year.

Following the wetland definition, the following clarification/guidance is provided by USFWS:

The term wetland includes a variety of areas that fall into one of five categories: (1) areas with hydrophytes and hydric soils, such as those commonly known as marshes, swamps, and bogs; (2) areas without hydrophytes but with hydric soils--for example, flats where drastic fluctuation in water level, wave action, turbidity, or high concentration of salts may prevent the growth of hydrophytes; (3) areas with hydrophytes but nonhydric soils, such as margins of impoundments or excavations where hydrophytes have become established but hydric soils have not yet developed; (4) areas without soils but with hydrophytes such as the seaweed-covered portion of rocky shores; and (5) wetlands without soil and without hydrophytes, such as gravel beaches or rocky shores without vegetation.

Of the five categories noted in the USFWS definition, only (1) and (3) above, exhibit potential for occurrence in the Argo Drainage Channel. Based on the field investigation conducted in the Argo Drainage Channel, no areas within the Argo Drainage Channel support hydrophytes while lacking hydric soils. As such, all of the wetlands within the Argo Drainage Channel are consistent with (1) above.

3.2 Regional Water Quality Control Board

Subsequent to the decision in the Solid Waste Agency of Northern Cook County (SWANCC) v. USACOE (SWANCC decision), the Chief Counsel for the State Water Resources Control Board (SWRCB) issued a memorandum that addressed the effects of the SWANCC decision on the Section 401 Water Quality Certification Program.¹² The memorandum states:

California's right and duty to evaluate certification requests under section 401 is pendant to (or dependent upon) a valid application for a section 404 permit from the Corps, or another application for a federal license or permit. Thus if the Corps determines that the water body in question is not subject to regulation under the COE's 404 program, for instance, no application for 401 certification will be required...

The SWANCC decision does not affect the Porter Cologne authorities to regulate discharges to isolated, non-navigable waters of the states....

Water Code section 13260 requires "any person discharging waste, or proposing to discharge waste, within any region that could affect the waters of the state to file a report of discharge (an application for waste discharge requirements)." (Water Code § 13260(a)(1) (emphasis added).) The term "waters of the state" is defined as "any surface water or groundwater, including saline waters, within the boundaries of the state." (Water Code § 13050(e).) The U.S. Supreme Court's ruling in SWANCC has no bearing on the Porter-Cologne definition. While all waters of the United States that are within the borders of California are also waters of the state, the converse is not true—waters of the United States is a subset of waters of the state. Thus, since Porter-Cologne was enacted, California always had and retains authority to regulate discharges of waste into any waters of the state, regardless of whether the COE has concurrent jurisdiction under section 404. The fact that often Regional Boards opted to regulate discharges to, e.g., vernal pools, through the 401 program in lieu of or in addition to issuing waste discharge requirements (or waivers thereof) does not preclude the regions from issuing WDRs (or waivers of WDRs) in the absence of a request for 401 certification....

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Wilson, Craig M., <u>Memorandum Addressed to State Board Members and Regional Board Executive Officers</u>, January 25, 2001.

In this memorandum, the SWRCB's Chief Counsel has made the clear assumption that fill material to be discharged into isolated waters of the United States is to be considered equivalent to "waste" and therefore subject to the authority of the Porter Cologne Water Quality Act. However, while providing a recounting of the Act's definition of waters of the United States, this memorandum fails to also reference the Act's own definition of waste:

"Waste" includes sewage and any and all other waste substances, liquid, solid, gaseous, or radioactive, associated with human habitation, or of human or animal origin, or from any producing, manufacturing, or processing operation, including waste placed within containers of whatever nature prior to, and for purposes of, disposal.

The lack of inclusion of a reference to "fill material," "dirt," "earth," or other similar terms in the Act's definition of "waste," or elsewhere in the Act, suggests that no such association was intended. Thus, the Chief Counsel's memorandum signals that the SWRCB is attempting to retain jurisdiction over discharge of fill material into isolated waters of the United States by administratively expanding the definition of "waste" to include "fill material" without actually seeking amendment of the Act's definition of waste (an amendment would require action by the state legislature). Consequently, discharge of fill material into waters of the State not subject to the jurisdiction of the USACOE pursuant to Section 404 of the Clean Water Act may require authorization pursuant to the Porter Cologne Act through application for waste discharge requirements (WDRs) or through waiver of WDRs, despite the lack of a clear regulatory imperative.

3.3 California Department of Fish and Game

Pursuant to Division 2, Chapter 6, Sections 1600-1603 of the California Fish and Game Code, the CDFG 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.

CDFG 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." CDFG's definition of "lake" includes "natural lakes or man-made reservoirs."

CDFG jurisdiction within altered or artificial waterways is based upon the value of those waterways to fish and wildlife. CDFG 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 [CDFG] as natural waterways...
- Artificial waterways without the attributes of natural waterways should generally not be subject to Fish and Game Code provisions...

Thus, CDFG jurisdictional limits closely mirror those of the USACOE. Exceptions are CDFG'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.

In conjunction with adopting a wetlands policy on March 9, 1987 the California Fish and Game Commission assigned CDFG the task of recommending a wetlands definition. CDFG found the USFWS Cowardin et al. wetland definition and classification system to be the most biologically valid and has adopted this definition as a guide in identifying wetlands.

4. RESULTS

The only jurisdictional feature associated with the biological resources study area is the Argo Drainage Channel. The Argo Drainage Channel is a drainage feature constructed to carry storm flows through the airport property and is located approximately 450 to 500 feet north of Runway 6L/24R. The feature originates near the northeast corner of the airport, immediately south of Lincoln Boulevard and east of the eastern limits of Runway 6L/24R, where a concrete outlet structure discharges storm water and nuisance water into the feature. Flows travel from east to west for a distance of approximately 9,800 feet and leave the site at a concrete inlet located approximately 300 feet beyond the western terminus of Runway 6L/24R. A review of historical topographic maps and aerial photographs¹³ conducted for the LAX Master Plan EIR indicated that the Argo Drainage Channel is a man-made flood control structure that was constructed circa 1949. The Argo Drainage Channel does not connect to any river, stream, or lake, but has been determined to flow into the Pacific Ocean through connections with the City of Los Angeles' storm drain system.¹⁴

The Argo Drainage Channel varies in depth from approximately 30 to 35 feet and the slopes support upland (UPL) ruderal vegetation dominated by wild oats (*Avena fatua*, UPL), ripgut (*Bromus diandrus*, UPL), fountain grass (*Pennisetum setaceum*, UPL), deerweed (*Acmispon glaber*, UPL), wild radish (*Raphanus sativus*, UPL), Russian thistle (*Salsola tragus*, UPL), yellow-star thistle (*Centaurea solstitialis*, UPL), giant horseweed (*Erigeron canadensis*, facultative [FAC]), telegraph weed (*Heterotheca grandiflora*, UPL), white sweet-clover (*Melilotus albus*, facultative upland [FACU]), and Spanish clover (*Lotus purshianus*, UPL).

Flows are confined to the bottom of the drainage channel, which varies in width from 12 to 43 feet. Wetlands occur within the majority of the eastern 5,900 feet of the drainage channel and are supported by a combination of storm discharge and nuisance flow. In addition to the storm-drain outlet at the eastern origin of the channel, smaller storm-drain discharge points occur at various points along the Argo Drainage Channel, with the wettest areas concentrated at the discharge points. As such, the wetlands within the Argo Drainage Channel exhibit a range of characteristics, with areas at the discharge points characterized by strong wetland indicators, which weaken with distance from areas of storm or nuisance discharge.

The wettest areas support a predominance of obligate (OBL) wetland plants such as California bulrush (*Schoenoplectus californicus*, OBL), willow smartweed (*Persicaria lapathifolium*, OBL), southern cattail (*Typha domingensis*, OBL), and pale spike-rush (*Eleocharis palustris*, OBL). These areas also exhibit strong indicators for hydric soils such as Black Histic (A3) or Hydrogen Sulfide (A4). The presence of wetland hydrology in these areas was indicted by standing water or soil saturation in the upper 12 inches.

Wetlands within the other portions of the Argo Drainage Channel support a predominance of plants ranging from OBL to FAC with willow smartweed (*Persicaria lapathifolia*, OBL) common along with California bulrush (*Schoenoplectus californicus*, OBL), barnyard grass (*Echinochloa crus-galli*, facultative wet [FACW]), tall umbrella sedge (*Cyperus eragrostis*, FACW), giant horseweed (*Erigeron canadensis*, FAC), and English plantain (*Plantago lanceolata*, FAC). Soils in these areas exhibit low chroma matrix with redox concentrations (Redox Dark Surface F6). Indicators for the presence of wetland hydrology included Soil Saturation (A3), Soil Surface Cracks (B6), or two or more secondary indicators such as Sediment Deposits (B2) and Drainage Patterns (B10).

Limited areas of sandbar willow thicket were identified on the banks of the Argo Drainage Channel, typically immediately above some of the wetter storm drain outlets, where the presence of water is more reliable. Where they occur on the slopes, the willow scrub is dominated by sandbar willow (*Salix exigua*, OBL).

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Sapphos Environmental, Inc., Memorandum for the Record (JN 1067-004.M18), Recommendations for Addressing Regulatory Compliance Issues Related to Areas Subject to the Jurisdiction of the U.S. Army Corps of Engineers and the California Department of Fish and Game at Los Angeles International Airport, City of Los Angeles, California, 1997.

Bapna, Victor, County of Los Angeles Department of Public Works, <u>Personal Communication</u>, August 2000.

At approximately 5,900 feet from the eastern origin of the drainage, the wetlands disappear as the conditions become much drier due to the absence of inlet structures discharging storm flows and nuisance flows. The channel width varies in this reach from 12 to 21 feet and the channel bottom is either unvegetated sand or areas vegetated with a predominance of herbaceous upland species including yellow starthistle (*Centaurea solstitialis*, UPL), long-beaked filaree (*Erodium botrys*, UPL), ripgut (*Bromus diandrus*, UPL), wild oats (*Avena fatua*, UPL), and Italian ryegrass (*Lolium multiflorum*, UPL).

4.1 USACOE Jurisdiction

USACOE jurisdiction associated with the biological resources study area totals approximately 3.78 acres of waters of the United States, of which approximately 1.33 acres consist of wetlands. The boundaries of the waters of the United States are depicted on the enclosed **Figure 3**. Areas of potential USACOE jurisdiction (i.e., areas that exhibit either an OHWM or three criteria wetlands) total 3.78 acres, of which 2.45 acres consist of non-wetland waters and 1.33 acres consist of wetlands as described above. In all cases, wetlands within the Argo Drainage Channel are confined to areas within the OHWM of the drainage.

4.2 Regional Water Quality Control Board Jurisdiction

If the USACOE asserts jurisdiction over the Argo Drainage Channel, the Regional Water Quality Control Board (RWQCB) would review the project pursuant to Section 401 of the Clean Water Act as necessary for issuance of a Section 401 Water Quality Certification. Should the USACOE determine that the Argo Drainage Channel is not a water of the U.S., then the RWQCB would assert jurisdiction over the Argo Drainage Channel in accordance with the Porter Cologne Act. In either case, the RWQCB jurisdiction would be coincident with the limits of potential USACOE jurisdiction as described above.

4.3 CDFG Jurisdiction

Areas of potential CDFG jurisdiction total approximately 3.97 acres, of which 1.52 acres consist of vegetated riparian habitat, including 1.31 acres of California bulrush marsh and 0.21 acre of sandbar willow thicket.

5. IMPACT ANALYSIS

There are nine project alternatives associated with SPAS. Of the nine alternatives, Alternatives 2, 3, 4, 7, 8, and 9 would completely avoid impacts to USACOE and CDFG jurisdiction associated with the Argo Drainage Channel. Under Alternatives 1, 5, and 6, Runway 6L/24R would be relocated to the north of its current location, requiring that all or part of the Argo Drainage Channel be structurally covered to varying degrees depending on the alternative, thereby impacting some portion of the USACOE and CDFG jurisdiction associated with the Argo Drainage Channel.

Under Alternatives 1 and 5, the entire length of the channel would be structurally covered (converted to a concrete box culvert), impacting 3.78 acres of USACOE jurisdiction, of which approximately 1.33 acres consist of wetlands, and 3.97 acres of CDFG jurisdiction, of which 1.52 acres is vegetated riparian habitat.

Under Alternative 6, the eastern 1,400 feet of the channel would be structural covered. Impacts would include 0.56 acre of USACOE jurisdiction, of which 0.41 acre consists of wetlands, and 0.56 acre of CDFG jurisdiction, of which 0.41 acre is vegetated riparian habitat.

Attachment 1 Wetland Data Sheets

MASSING (1): TISMIKAMP/T	Firzgibbon =	sction, Township, Ray	State: CA Sampling Point: 1 Ingo: UNSectioned Common area: NONE Stope (W): 22 Lame - 117, 4172.24 Datase U.S.S.
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re Vegitation Soil, or Hydrology		storted? ATO Are:	Normal Circumstances" present? Yes X No
ra Vegetation, Scill, or Hydrology		ematic? No Illine	eced, explain any mowers in Remarks (
UMMARY OF FINDINGS - Attach si	te map showing s	ampling point i	ocations, transects, important features, etc
Hydrio So3 Present? Yes _ Weltand Hydrology Present? Yes _	X No	is the Sampled within a Wellan	
Rom Hito.			
EGETATION - Use scientific names	of plants.		
Trea Stratum (Plot size:	Absolute	Dominant Indicator Specim? Shiftis	Dominance Test worksheet:
incommunity of Strates	-33000	opvenit. Ciane_	Number of Dominant Species That Aw OBL, FACW, or FAC: (A)
			Tutal Number of Dominant
			Species Acress All-Strate (B) 1/6roset of Dominiant Species 1007s
SanwordShruer Stretum (Plot size:		+ Tolia Cover	That Am OBL FACW, IN FAC. 100 70(A/S)
			Prevalence Index Worksheet:
			Total % Cover of: Mulliply by: Office species 10 = 10
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in diamele		= Total Cover	FACU species ±4 =
1 Echinochlan chus gal	1 507	Y FACH	LIPL species x5 = Catimus Totalia 100 (A) 190 (B)
E CHAMUS ENAMOSTIS.	107	h Faces	Frevalence Index = B/A = 1 - 9
Polygonve lagathiful	10m 119	on obl	Hydrophytic Vegetation Indicators:
0.			Domination Test is >50% Provisionos Index is <3.0
n			Morphological Adaptations' (Provide supporting
0	27	* Total Cover	data in Remarks or on a reparate shoot — Problematic Hydrophytic Vegetation* (Explain)
Woody Vine Statum (Plot size)		= Total Gover	
1			invicators of hydric and and welland hydrology most be present, unless disturbed or problematic.
^	0%	Total Cown	Hydrophytic Vegetation
% Bare Ground in Herb Straum	% Cover of Biotic Cri	-0-	Prosent? Yes No
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US Army Corps of Engineers

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		arbie to en t	LRRs, unless other		Indicators for Problematic Hydric Soils3:
Histosof (A			Sandy Rédor		T cm Muck (AB) (LRR C) 2 cm Muck (A10) (LRR B)
Black Hati				y Minemii (F1)	Reduced Vertic (F18)
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	ayets (A5) (LRR	C)	Depleted Ma		Other (Explain in Rambrica)
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	Surface (A12)		Redax Depri		Indicators of hydrophytic vegetation and
	cky Mineral (S1)		Vernal Pyols	(F9)	wellend hydrology must be present.
	yed Marsix (SA) yer (if present):				tinless disturbed or problematic
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	Y plogy indicatom				
Wattend Hydro	ology indicators:		t, check all that apply)	Secondary Indicators 12 or more resulted.
Wattend Hydro	ology indicators on infrastra of		l; Check all Yout Republ Solt Crust (
Wittland Hydro Primary Indical Surface W	ology indicators on infrastra of s later (A1)		Salt Crust (B11)	Water Marks (B1) (Riverine)
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Wetland Hydro Primery Indicat Starface W High Waite Staturation Waiter Mar Sediment I Driff Depair Surface Staturation Water-Stati	ology indicators: on indimum of i later (A1) r Table (A2) (A3) As (B1) (Nonrives becosts (B2) (Nonrives all Cracks (B5) Visible on Annal ind Leaves (B9) tions:	rine) portverine) prine) tringery (E7	Salt Grust (Biotic Crust (Biotic Crust (Aquatic Intri Hydragen S Doddized R Brasines o Resent are (Thin Muck Other (Exp	B11) (R12) infebrutes (B13) satisfies Odor (C1) introsphrens along Living if Reduced iron (C4) Fieducation in Talled Solls Surface (C7) alon in Flamarka)	White Marks (B1) (Rivertine) Sulliment Deposits ((2) (Rivertine) Det Objectits ((3) (Rivertine) Devinage Patterne ((610) Dey Sement Walder Fable ((2) Craylish Burrows (C8) Sullivation Vatable on Aertial Integery (C9) Steller Aguillar (C9)
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Wetland Hydro Primary fodical Surface W Saturdoe W Saturdoe W Saturdoe Water Mar Sediment i Drift Depor Surface So Inuncation Water-Stai Field Observa Surface Water Water Table Pr Saturdoen Free Saturdoen Free	ology indicators: ors (minimum of a later (A1) or Table (A2) (A2) (A3) (rine) portverine) prine) (magazy (iii)	Salt Grust (Biotic Cruse Aquatic Into Hydringen S Oxidized R Present and Richard Root (Rich	D11) (B12) (B13) Sulfife Odor (C1) Sulfife Odor (C1) Introupheres along Living Plasticate film (C4) Reduction in Talled Solls Sulfife (C7) Lists in Flammaks) drawpy 14 Inns)	White Marks (B1) (Rivertine) Sulliment Deposits ((2) (Rivertine) Det Objectits ((3) (Rivertine) Devinage Patterne ((610) Dey Sement Walder Fable ((2) Craylish Burrows (C8) Sullivation Vatable on Aertial Integery (C9) Steller Aguillar (C9)
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Wettand Hydro Primery fodical Sastrace W High Wate Sasturation Water Mar Sediment I Drift Dispos Surface Sc Inundation Water Stati Field Observa Surface Water Water Table Pr Saturation Pres Siduration Pres	ology indicators: one characters of a bare (A1) r Table (A2) (A3) bas (B1) (Nonrive Decisals (B2) (Nonrive Decisals (B3) (Nonrive Di Cracks (B3) (Visible on Amial Steel Leaves (B9) Steel The Committee Steel Ste	rine) ontverine) imagery (E) (res	Salt Crust (Biofic Crus t (B	D11) (B12) (B13) Sulfife Odor (C1) Sulfife Odor (C1) Introupheres along Living Plasticate film (C4) Reduction in Talled Solls Sulfife (C7) Lists in Flammaks) drawpy 14 Inns)	Walter Markey (B.11 (Filventine) Saliment Deporatin (E.2) (Filventine) Orth Colpeilla (103) (Riburnine) Draining Patienne (B.10) Conylen Burnava (28) Conylen Burnava (28) Conylen Burnava (28) Sinelium Aputition on Azetal Enseguely (Co) Sinelium Aputition CO) FAC-Natural Teat (D5) Wortland Hydrology Present? Yes No
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Wittend Hydro Primary Indicat Sturface W Sturface W Seamusion Water Mar Sediment I Drift Depor Surface Sc Indicate Sturface Sc Indicate Sturface Sc Indicate Sturface Sc Indicate Sturface Sc Indicate State Sturface State Sturface Table Sturface Ta	ology indicators: one characters of a bare (A1) r Table (A2) (A3) bas (B1) (Nonrive Decisals (B2) (Nonrive Decisals (B3) (Nonrive Di Cracks (B3) (Visible on Amial Steel Leaves (B9) Steel	rine) ontverine) imagery (E) (res	Salt Crust (Biofic Crus t (B	D11) (B12) (B13) (B14) (B14) (B14) (B15) (Walter Markey (B.11 (Filventine) Saliment Deporatin (E.2) (Filventine) Orth Colpeilla (103) (Riburnine) Draining Patienne (B.10) Conylen Burnava (28) Conylen Burnava (28) Conylen Burnava (28) Sinelium Aputition on Azetal Enseguely (Co) Sinelium Aputition CO) FAC-Natural Teat (D5) Wortland Hydrology Present? Yes No
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Wetland Hydro Primary Indical Sturface W Sauration Water Mar Sediment Drift Depor Surface Sc Indicate	ology indicators: one (indimensor of: disconsisted for one (indimensor of: disconsisted for one of o	rine) ontverine) imagery (E) (res	Salt Crust (Biofic Crus t (B	D11) (B12) (B13) (B14) (B14) (B14) (B15) (Walter Markey (B.11 (Filventine) Saliment Deporatin (E.2) (Filventine) Orth Colpeilla (103) (Riburnine) Draining Patienne (B.10) Conylen Burnava (28) Conylen Burnava (28) Conylen Burnava (28) Sinelium Aputition on Azetal Enseguely (Co) Sinelium Aputition CO) FAC-Natural Teat (D5) Wortland Hydrology Present? Yes No
Wetland Hydro Primare Indicat Surface Wales High Wale High High Wale High High High High High High High High	ology indicators: one (indimensor of: disconsisted for one (indimensor of: disconsisted for one of o	rine) ontverine) imagery (E) (res	Salt Crust (Biofic Crus t (B	D11) (B12) (B13) (B14) (B14) (B14) (B15) (Walter Markey (1511 (Rivertine) Salinamic Responds (122 (Rivertine)) Delt Delgends (153) (Rivertine) Delt Delgends (153) (Rivertine) Delt Delgends (153) (Rivertine) Delt Delgends (153) (Rivertine) Delta Delta (153) Delta Delta (153) Delta Delta (153) Salinamic Valaba on Antal Integral (163) Salinamic Valaba on Antal Integral (163) Selection Valaba on Antal Integral (163) Selection Valaba
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Profile Description: (Describe to the dep		or committee to	torstice of murcators.)
Depth Matrix (loches) Goldr (moist) 16	Culor (moist) % Type*	Total To	ntura Romarks
		8.4	LUL OF CH. J. I.
0-12 10422/1	NONE	M	LY OF Smds, Loam +
			clan
	E. L. 101/17/20 E. 17 A.T.	70.72	TAT - Training to the second
Type: G-Concentration, D-Depletion, RM			*Location: PL=Pore Lining, M=Matrix:
Hydric Soll Indicatorer (Applicable to all		Inc	dicators for Problematic Hydric Soils*:
Fristosol (A1)	Sandy Redex (S5)	100	1 cm Muck (A9) (LRR C)
Histia Epipedon (AE)	Stripped Malrix (S8)		2 cm Muck (A10) (LRR B)
Black Hielio (AS)	Learny Mucky Mineral (F1)		Reduced Versic (F18)
Y Hydrogen Sulfide (A4)	Learny Gwynd Matrix (F2)		Red Perent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Malrix (F3)		Other (Explain in Remarks)
I om Muck (AG) (LRR D)	Findby Dark Surface (F6)		(
Depleted Balow Dark Sorface (A11)	Dopinton Dark Surface (F7)		
Thick Dark Surface (A12)	Redox Depressions (FB)	April 1	cleaters of hydroshytic vegetation and
Stridy Mucky Minarel (S1)	Vernal Pools (Fu)		wotland hydrology must be present.
Sandy Gleyed Matrix (S4)	various r does (r a)		uniesu d'aturbad or problematic
			thisea meinings on at bungstature
Restrictive Layer (if present):		- 1	
Restrictive Layer (If present): Type: NONE			
Popular (inches): NA		Hyd	dric Soil Present? Yee 🔀 No
Restrictive Layer (if present): Type: None Dinglit (icches): AA Regmerks;		Hyd	dric Soil Present? Yee 📐 No
Restrictive Layer (if present): (Ype: NOAG: Depth (inches): NA Gometez: YDROLOGY		Hyd	tric Soil Present? Yee X No
Restrictive Layer (if present): Type: NOAG Dipfli (inches): NA Romersa; YDROLOGY		Hyd	dric Soil Present? Yee 🔀 No
Restrictive Layer (if present): Type: Vode Dreft (notes): VA Regimete: YDROLOGY Weissed Hydrology (ndicators:	oli, check all that annia)	Hyd	
Restrictive Layer (if present): Type:		Hys	Secondary lodicators (2 or more inquires)
Pastrictive Layer (if present): Type: NOAE Type: NoA	Salt Crust (B11)	Hyr	Secondar Lobrators (2 or more inquires) Water Marks (84) (Riverina)
Particitive Layer (if present): Type:	Sall Crust (B11) Biotic Crust (B12)		Secondary Indicators (2 or more required) Water Marks (31) (Riverine) Sectioned Exposits (32) (Riverine)
Pastriction Layer (if present): Type:	Sall Crust (B11) Blobb Crust (B12) Aquatic Invertebrates (B13)		Secondary Indicators, (2 or more inquires) Water Marks (0.1) (Rivertina) Sediment Deposits, (0.3) (Rivertina) Onth Deposits (0.3) (Rivertina)
Particitive Layer (if present): Type:	Sall Crust (B11) Slotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfido Odor (C1)		Secondary Indicators (2 servoro requires) Visar Marks (31) (Riverins) Sostimed Exposits (52) (Riverins) Onf Deposits (53) (Riverins) Discharge Patams (816)
PROLOGY VDROLOGY VSTAND Hydrocy redicators: VDROLOGY VSTAND Hydrocy redicators: VStation Hydrology redicators: VSurface Water (A) Figin Value Table (A) Value Marks (B) (Montvertine) Statistical (A) Value Marks (B) (Montvertine) Statistical (A) Value Marks (B) (Montvertine)	Sall Crust (B11) Slotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suffice Odor (C1) Continued Rinzosphema along	g Living Roots (CS	Secondary Indicators (2 or more required) Value Maris (81) (Riverins) Solfmed Exposits (82) (Riverins) Onfi Deposits (83) (Riverins) Discharge Falamers (816)
Particitive Layer (if present): Type:	Sall Crust (B11) Slotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfido Odor (C1)	g Living Roots (CS	Secondary Indicators (2 servoro requires) Visar Marks (31) (Riverins) Sostimed Exposits (52) (Riverins) Onf Deposits (53) (Riverins) Discharge Patams (816)
PROLOGY VDROLOGY VSTAND Hydrocy redicators: VDROLOGY VSTAND Hydrocy redicators: VStation Hydrology redicators: VSurface Water (A) Figin Value Table (A) Value Marks (B) (Montvertine) Statistical (A) Value Marks (B) (Montvertine) Statistical (A) Value Marks (B) (Montvertine)	Sall Crust (B11) Slotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suffice Odor (C1) Continued Rinzosphema along	g Llying Backs,(Co	Secondary Indicators (2 or more requires) Water Marks (B.1) (Riverina) Sediment Depocits (63) (Riverina) Onli Deposits (63) (Riverina) Dislingue Falterns (B10) - Biy Season Water Table (C3) Craylah Burrews (D8)
Pastrictive Layer (if present): Type: Vol. Copple (notes): VAROLOGY Wattand Hydrology Indicators: Pripar indicators, (indination of one require Surface Watter (A)) High Watter Table (A2) Saturation (A3) Valent Marks (B1) (Montiverine) Saturation (S0) (Montiverine) Saturation (S0) (Montiverine)	Sall Crust (B11) Biotic Crust (B12) Aquatic Invertebratins (B13) Hydrogen Sulfide Odor (C1) Childred Risconghonna along Presentes of Reduced Iron (C Roomt Ion Reduction in Title	g Llying Backs,(Co	Secondary Indicators (2 or more requires) Water Marks (B1) (Rivertine) Sediment Deposits (B2) (Rivertine) Drift Deposits (B3) (Rivertine) Drisings Pääarrus (B10) Biy Seasce Water Table (C2) Caylish Burrews (D3) Saburatinn Visible on Aerial Imagery (C6)
Pastrictive Layer (if present): Type:	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrains (B1a) Hydrogen Suifac Odor (C1) Chaltesd Riszosphema along Presence of Feducard Iron (C Recent Iron Reduction in Till This Much Surface (C7)	g Llying Backs,(Co	Secondary Indicators (2 or more requires) Water Marks (81) (Riverina) Sediment Deposits (92) (Riverina) Ont Deposits (93) (Riverina) Dishings Fedienris (B11) Sily-Sesson Water Table (C3) Crayfish Sirrows (C8) Saburatins Visible on Aerial Imagery (C9) Shabar Acculated (C5)
PROLOGY VPROLOGY Visitase Hydrology Indicators: Supplie (victors): VPROLOGY Withinse Hydrology Indicators: Supplies (victors): Sufficiency Water (A)) Fight Whater Table (A2) Sutterflation (A3) Votant Marks (B) (Montiverino) Sustined (Signation (C)) (Mantivarine) Surface Soli Carola (Signation (Victors) Surface Soli Carola (Signation (Victors) Surface Soli Carola (Signation (Victors) Vedan-Visital Carola Carola Vedan-Visital Vedan-Visi	Sall Crust (B11) Biotic Crust (B12) Aquatic Invertebratins (B13) Hydrogen Sulfide Odor (C1) Childred Risconghonna along Presentes of Reduced Iron (C Roomt Ion Reduction in Title	g Llying Backs,(Co	Secondary Indicators (2 or more requires) Water Marks (B1) (Rivertine) Sediment Deposits (B2) (Rivertine) Drift Deposits (B3) (Rivertine) Drisings Pääarrus (B10) Biy Seasce Water Table (C2) Caylish Burrews (D3) Saburatinn Visible on Aerial Imagery (C6)
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US Army Corps of Engineers

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MARY OF FINDINGS - Attac	ch site map	showing samp	ling point to	cations, transects, important features, etc.
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				Dominance Test is >50% Prevalence Index is \$3.0°
				Morphological Adaptations (Provide supporting data in Remarks or an a separate street)
		30 %Tuta	al Cour	data in Remarks of on a separate sheet) Problematic Hydrophytic Vegetation* (Expeain)
Andy Vine Statute (Plut size	- 1-		sevyat	*Indicators of hydric sail and westerd hydrology must
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DIL Profile Description: (Describe to the dep	th needed to document the indicator or	confirm the abec	nce of indicators 1	
Dentily Matrix	Redox Feelures	Political transfer	nico di maisanora y	
Inchesi Color (mojet) 5	Color (moist) 55 Type	Loca Texture	Bern Bern	arks.
-n Sand-	51R 4/6 727 C	M 51	and	
(HAT CALTY O)	The state of the s			
(101 0000				
Type: C=Concentration, D=Depleton, RM	and the second of the second of the second	Could Carlon	Location: PL*Pore Lin	in Halling
lydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)		fors for Problematic H	
Historol (A1)	X Sandy Redox (S5)		om Mick (AB) (LRR C)	,,,,,
Histo Epipedon (A2)	Stripped Matrix (S6)		om Muck (A10) (LRR II)	
Black Histic (A3)	Loamy Mooky Mineral (F1)	R	educed Ventic (F18)	
Hydrogen Suffide (A4)	Loumy Glayed Matrix (F2)		ed Parent Meterial (TF2)	
_ Somtified Layers (A5) (LRR C)	Depleted Matrix (F3)	0	her (Explain in Remarks	1
1 cm Muck (A5) (LRR D) Depleted Below Dark Surface (A11)	 Bedox Dark Surface (F6) Depleted Dark Surface (F7) 			
Thick Dark Surface (A12)	Rodox Depressions (F8)	*jouties	tors of hydrophytic vega	total median
Sendy Musky Mineral (S1)	Vernal Poels (F9)		land hydrology must be :	
Santy Cinyell Matrix (S4)			sa disturbed or problem	
Restrictive Layer (if present):				
TYPE NONE		1		
Depth (inches) NA		Hydric	Soil Present? Yes_	No_
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YDROLOGY Vetland Hydrology Indicators:	1			
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Netland Hydrology Indicators; Primary Indicators (minimum of one moute Surface Water (A1)	Sull Crust (811)	, w	Water Marks (B1) (R	(varino)
Welland Hydrology Indicators: Frimary Indicators (Indicators one musice Surface Waler (A1) High Water (A2)	Sell Crest (811) Block Crest (812)	-	Water Marks (B1) (R Sedment Deposits (iverine) B2) (Riverine)
Welland Hydrology Indicators: Yimary Instation (Inditrum of one mustre Surface Water (A1), 15gh Water Table (A2) Saturation (A3)	Self Crest (B11) Block Crest (B12) Aquatic Involvatinates (B13)		Water Marks (61) (R Sedment Deposits (Onl) Deposits (63) (R	ivarino) B2) (Riverine) Riverino)
Netland Hydrology Indicators: Ymary Indicators (Indicators of one results Surface Water (A1) 15gh Water Table (A2) Staturation (A3) Water Marks (B1) (Hondvestne)	Sall Crust (B11) Block Crust (B12) Aquatic Involvabrates (B13) Hydrogen Sulfide Odor (C1)		Water Marks (B1) (R Sedment Deposits (Onth Deposits (B3) (R Drainage Patterns (B	Ivarino) B2) (Riverine) Trverino) I10)
Vetland Hydrology Indicators: *rimany indications (indineum of one mouten - Surface Water (A1), - 15gh Water Table (A2) - Saturation (A3) Water Marks (B1) (Montiverine) - Sediment Deposits (B3) (Montiverine)	Sall Crust (811) Block Crust (812) Aquatic Involubration (813) Hydrogen Sulfab Cidor (C1) Chistonic Riscouphoos along (1)	Ving Rools (C3)	Water Marks (B1) (R Sediment Deposits (i Onth Deposits (B3) (R Drainage Patterns (B Dry Season Water T	Iverino) B2) (Riverine) Ziverino) (10) nble (C2)
Netland Hydrology Indicators: rimary Indicators Indiamen of one resulte Surface Walter (A1). 15ph Walter Table (A2) Statumition (A3). Walter Macha (B1) (Hondvestine). Sectioned Deposits (B2) (Hondvestine). Drift Deposits (B3) (Hondvestine).	Self Crust (B11) Block Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suffe Older (C1) Chiddred Riskraphness along I Presence of Reduced Iron (C4)	Ving Rools (C3)	Water Marks (B1) (R Sedment Deposits (I Onn Deposits (B3) (R Dranege Patterns (B Dry Season Water T Draylish Burrows (Ci	Iverino) B2) (Riverine) Riverino) (10) nble (C2)
Vetland Hydrology Indicators: **Trimary Indicators (Infollment of one resulten **Surface Walter (A1) - Info Walter (A2) - Statustion (A3) - Section (A2)	Sall Crusi (841) Biblic Grust (842) Aquatic Invertibilities (813) Hydrogen Suffice Older (C1) Chitmen Risinaphosa along) Pressure at Reduced Inn (C4) Recent Inn Reduction in Tilled	Ving Rools (C3)	Water Marks (B1) (R Sedment Deposits (I Dnh Deposits (B3) (R Drainage Patterns (B Dry-Sassen Water T Crayfish Burrows (Cl Saturation Valble on	Iverino) B2) (Riverine) Civerino) (10) oble (C2) 6) Amiai Imagery (C
Netland Hydrology Indicators: **rimary Insistings (Insistemen of non resulting Surface (Waller (A1)) - High Yullor Table (A2) - Staturation (A3) - Walter Marter (B1) (Honrivezine) - Sander Corporate (B2) (Honrivezine) - Soft Response (B3) (B3) (Honrivezine) - Soft Response (B3) (B3) (Honrivezine) - Soft Response (B3) (Bandraumen) - Surface - Sod Cracks (B3) - Surface - Sod Cracks (B3) - Surface - Sod Cracks (B3)	Sign Cross (8/1) Stock Crust (8/1) Aquatic Invertebrates (8/3) Hydrogen Suifde Citor (C1) Chitmee Riskesphose along I/I Pressures at Reduced fron (C4) Recent from Reduction in Tilled Thin Mack Surface City	Ving Rools (C3)	Water Marks (B1) (R Sedment Deposits (Only Deposits (B3) (R Drainage Pattarns (B Dry Sassen Water T Crayfish Burrows (Cl Saturation Valible on Shellow Aquitlert (D)	Iverino) B2) (Riverino) (to) oble (C2) b) Areial Imagery (C
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	ipedur (A2)		Stripped Ma			2 cm Muck (A10) (LRRB)
Black H				ky Mineral (F1)		Reduced Vertic (F18)
	n Sulfide (A4)			ed Matrix (F2)		Red Parent Material (TF2)
	Layers (A5) (LRR C	7	Depleted M			Other (Explain in Hamarka)
	ICK (AS) (LRR D)			Surface (F6)		
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	tucky Mineral (S1)		Vernal Prod	resilons (F3)		Throicellans of hydrophytic vegetation and
			AGUET SANCE	e (ic.n)		wetland hydrology must be present.
Sandy C	iloyad Matrix (S4)	_				unless disturbed or problematic
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thregion (LEA); MEO, Lat: 33.95	1907 Long: 117.4172.84 Water (1951
e climate. I hydroidest conditions on the side typical for titls lime of year?	
o Vegetaliön:	
e VegetationSet	mpling point locations, transects, important features, etc.
	170 V. T.
Hydric Soil Present? Yes K No.	is the Sampled Area within a Wetland? Yes No
Welland Hydrology Present? Yes _ No No	
EGETATION – Use scientific names of plants. Absolute Do	ominant Indicator Dominance Trest workshoot
fine Stratum (Por St	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2	Table Number of Commercia
5	Species Across All Strate; (8)
EggStrut/Struth Station (Pict star	Forted Cover That Are CBL_FACW, or FAC: 100 (A/b)
	Prevalence Index worksheet:
2	OBL species 40 x1 = 40
<u> </u>	FAGW spinoes 3D xz= CO
10' dina	FAC (pocine) 3 =
Hulb Straim (Piel size 10 dimin) Echinoschian Cova-gelli 30% - Polygonum lapethito live 40	Y FACED COLUMN TOTALE TO (A) 100 (B)
Polygonum Inputhito Num 40	Prevalence hidex = B/A - 1.43
1	Hydrophytic Vegetation Indicators: Dominance Total is >50%
5	Dominanon Test (s >50%) Provalence Index is \$2.0°
7	Morphological Adaptations (Provide supporting data in Remirks or on a separate shoot)
701/2	The second secon
Woody Mne Stratum, (Rot size)	*Indicators of bydric soil and welland hydralogy must lin present, ucless distincted or problematic
2 - 37	
% Burn Ground in Herb Stratum 30 % % Cover of Biotic Crus	
S Amy Graps of Englissens.	A/d West – Version 2.0
WETLAND DETERMINATION	DATA FORM – Arid West Region
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Black Fest				Mucky Miner				ed Verso (Ft		
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	k Surface (A12) Icky Mineral (G1)			Depressions Paols (F9)	0.01				c vegetation i	
	avad Matrix (54)		Assume	Lucie (En)				sturbed or p	ist be present	
							940SS 0	stringed or b	promine	
	eyer (if present):									
Тури:	NONE		-							
Dopth (incl	wes):						Hydric Sall	Present?	You /X	No
Nemarks:							1,7			
Hemarks:	SY.						1,7			
IYDROLOG	SY rology Indicators:						1,7,000			
IYDROLOG Wettand Hyde	ratingy Indicators:	Legal d)	driech on Hust.	diadaka)				dury liedicati	ora (2 be more	roadren.
YDROLOG Wetland Hyde Frimmy Indica	ratingy Indicators: stors (min/mum of om	(jega =d)					Secon			
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Worker Hydroxy Indicate V	relogy Indicators: stors (min/muni of om Vater (A1) er Table (A2)	I (eqti =d),	Saft C	nuid (B15) Circel (B12)	ton (DAW)			rater Marks (B1) (Riverine oses (B2) (Ri	(verime)
Wettand Hydr Primary Indica Surface V High Wate Saturation	rology Indicators: stors (min/mun) of on Vater (A1) er Table (A2) o (A3)		Sart C fluids: Argust	iust (B15) Grust (B12) ic Invertilbrit			Secon	rater Marks (ediment Dep rift Deposits	B1) (Riverine oss (B2) (Ri (B3) (Riverio	(verime)
Wettamii Hydi Primary Iralica Surfaco V High Web Saturation Water Ma	rnlogy Indicators: Note: (mir/mun) of on Vater (A1) er Table (A2) o (A3) cks (B1) (Nonriverin	\$]	Saft C fluida Argust Hydro	ruid (B1\$) Grust (B12) ic Invertibrat gen Sulfide (Oder (C1)		Second — W	rater Marks (ediment Dep ent Deposits rainage Patt	B1) (Riverine osts (B2) (Ri (B3) (Riverio ima (B10)	(vorinje) i)
Wettand Hyde Primary Indica Surface V High Wate Saturation Water Ma Sediment	relingy Indicators: tech_(min/mun) of on Vater (A1) or Table (A2) or (A3) orks (B1) (Monrivorin Decosits (B2) (Monri	s) (vorina)	Saft C fluite Argust Hydro Cxida	ruid (B15) Grust (B12) is Invertibrat gen Sulide (sel Rhaccale	Odor (C1) www.along		Secon — W — W — D — D — D	rater Marks (ediment Dep off Deposits rainage Patt ry-Sosson V	B1) (Riverine osts (B2) (Ri (B3) (Riverio ima (B10) (aber Fable (C	(vorinje) i)
Wettand Hyde Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo	relingy Indicators: Noter (A1) ser Table (A2) o (A3) cks (B1) (Nonriverin Decemba (B2) (Nonriverin Decemba (B3) (Nonriverin	s) (vorina)	Safi C Ruste Argust Hydro Crédiz Preside	uuri (B15) Geust (B12) ic invertilbrat gen Guilde (out Rhu oudi noe of Reduc	Oder (C1) wes along sed fron (C	4)	Sesson Y S D D D D O D O O O O O O O O O O O O O	rater Marks (commit Dep cit Deposits rainage Patt ry-Sossan V raytish Burro	B1) (Riverine osts (B2) (Riverio (B3) (Riverio ema (B10) (alter Table (C ews (CE)	(verime) i) 2)
Wettand Hydri Primary Indica Surface V High Wate Saturation Water Ma Edithment Date Section S	relagy Indicators: tors (min/mum of on Vater (A1) er Table (A2) o (A3) orks (B1) (Nonriveria Decosits (B2) (Nonriveria tol (G3) (Nonriveria tol (G3) (Nonriveria tol (G3) (Nonriveria	o) (vorina) ho)	Saff C Floritic Argust Hydro Crédic Prosid Recer	uuit (B15) Grust (B12) is invertilbrat gen Guilde (sed Rharasah noe of Reduc it iron Reduc	Oder (C1) wes along bed fron (C dion in Tele	4)	Secon — Y S	rater Marks (comment Dep cit Deposits rainage Patt ry-Sosson V raylish Burro aturation Vis	B1) (Riverine osts (B2) (Riverin (B3) (Riverin ema (B10) fater Table (C was (C6) bis on Aerial	(verime) i) 2)
Wettand Hydr Primary Isaliza Surface V High Wate Saturation Water Ma Sedimend Criff Depo Surface S Interdetion	rnlagy Indicators: Nos. (min/mun), of om Vater (A1), or Table (A2), o (A3), orks (B1) (Nonriversion petra (B3) (Nonriversion Costs (B3) (Nonriversion Costs (B3) (Nonriversion Costs (B3) (Nonriversion on Cracka (B3), orks (B4), (Nonriversion on Cracka (B3), orks (B4), (Nonriversion on Cracka (B3),	o) (vorina) ho)	Saft C Flinks Argust Hydro Creds Proso Recer Thin h	ruid (B15) Gruet (B12) ic invertibrat gen Guilde C and Rhanash noe of Reduc d fron Reduc Muck Surface	Oder (C1) wes along bed Iron (C dion in Tille (C7)	4)	Secon — W S S D D D D D D D D D D D D D D D D D	rater Marks (ediment Dep eft Deposits ratingge Patt raySosson V rayTah Burro aturation Va hallow Aquit	B1) (Riverine oses (B2) (Riverin emis (B10) fater Table (C ews (CE) this on Aerial and (D3)	(verine) i) 2)
WDROLOG Wettand Hydr Crimary Institut Surface V High Water Ma Sedimend Until Depo	relagy Indicators: Mos. (minimum, of ore Vator (A1) or Table (A2) o (A3) riss (B1) (Nonriverin Decembs (R2) (Nonriverin (IS) (IS) (IS) (IS) (IS) (IS) (IS) (IS)	o) (vorina) ho)	Saft C Flinks Argust Hydro Creds Proso Recer Thin h	uuit (B15) Grust (B12) is invertilbrat gen Guilde (sed Rharasah noe of Reduc it iron Reduc	Oder (C1) wes along bed Iron (C dion in Tille (C7)	4)	Secon — W S S D D D D D D D D D D D D D D D D D	rater Marks (comment Dep cit Deposits rainage Patt ry-Sosson V raylish Burro aturation Vis	B1) (Riverine oses (B2) (Riverin emis (B10) fater Table (C ews (CE) this on Aerial and (D3)	(verine) i) 2)
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WDROLOG Wettand Hydr Crimary Institut Surface V High Water Ma Sedimend Until Depo	relagy Indicators: trees (min/mun) of our vater (A1) ar Tattle (A2) (A3) (A3) (A3) (Nonriversi (B5) (Nonriversi (B1) (Nonriversi (Nonriversi (B1) (Nonriversi (Non	e) (varina) (e)	Saft C Titalia Argust Hydro Oxista Prote Roper Thin 6	ruid (B15) Gruet (B12) ic invertibrat gen Guilde C and Rhanash noe of Reduc d fron Reduc Muck Surface	Oder (C1) wes along bed Iron (C dion in Tille (C7)	4)	Secon — W S S D D D D D D D D D D D D D D D D D	rater Marks (ediment Dep eft Deposits ratingge Patt raySosson V rayTah Burro aturation Va hallow Aquit	B1) (Riverine oses (B2) (Riverin emis (B10) fater Table (C ews (CE) this on Aerial and (D3)	(verime) i) 2)
Wetami Hydrocome Chimary Indian Surface V High Wate Ma Saturation Water Ma Sediment Drift Depo Surface S mandator Water Ma Series S mandator Water Ma Series S Field Observ.	relagy Indicators: toss (min/murcl.of on vitor (A1) or Table (A2) or Kall (A2) or Table (A2) or Table (A2) or Table (A2) or Table (A2) Or Control (A2) Or Control (A2) or Visible on Amini Mined Leaves (B6) attimes: Freedit? Visi	e) (varina) (e)	Saft C ritable Argust Hydro Cxistle Protein Rocer Thin M Other	rust (B15) Grust (B12) ic invertilbrat gen Guilde (mid Rhura ali nos of Reduc d iron Hedus Auck Surface (Explain in R	Oder (C1) wes along bed Iron (C dion in Tille (C7)	4)	Secon — W S S D D D D D D D D D D D D D D D D D	rater Marks (ediment Dep eft Deposits ratingge Patt raySosson V rayTah Burro aturation Va hallow Aquit	B1) (Riverine oses (B2) (Riverin emis (B10) fater Table (C ews (CE) this on Aerial and (D3)	(verime) i) 2)
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OIL Profile Description: (Describe to the dep	th needed to document the indicator or	confirm the absence of indicators.)
Dueth Matrix	Rodox Features	
(Inches) Color (Inoist) %	Color (moist) % Type	Loc Toolure Remades
0-6 2.543/1 95	544/6 5 C	M Sandy loam
b-12 Sand W	FRINT PODON SO	elled
2 10 == 21021 = 21	7.2	
Type: C=Concertration, D=Depletion, RM	Willestand Mater. CSmCovered or Coated	Sand Grains. *Location: PL*Pore Uning, M=Melstri.
Hydric Soil Indicaturs: (Applicable to all		Indicators for Problematic Hydric Soils*:
Histopol (AT)	X Sandy Riddox (55)	1 cm Muck (AP) (LRR C)
Masis Ep/podon (AZ)	Stripped Marrix (S6)	2 cm Muck (A1fi) (LRR B)
Black Histic (A3)	Loamy Musky Mineral (F1)	Reduced Vertic (F18).
Hydrogen Sulfide (A4)	Loamy Glayed Metrix (F2)	Red Paront Material (TF2)
Strattfied Layers (A6) (LRR C)	Disploted Matrix (F3)	Other (Explain in Nemarks)
1 cart Muck (A0) (LRR D)	Radox Dark Surface (F6)	
Depleted Below Durk Suiface (A(1))	Decleted Dark Surface (F7) Redox Depressions (F5)	Address of the first property and the said
Thick Dark Surface (A12) Sandy Mucky Minorial (S1)	Vernai Poeta (F9)	"miscators of hydrophytic vegetation and welfand hydrology must be present."
Sendy Gleyed Matrix (S4)		unless trialurbed or problematic
Restrictive Layer (If present):		cisos gannicos or procionante
THE NAME		
Type: NONE Depth (inches): NA		Hydric Sail Present? Vos K. No
Depth (kiches): AIA		Hydric Sail Present? Yes No No
Depth (kiches): AIA		Hydric Sail Present? Yes No
Depth (kiches): AIA		Hydric Sall Present? Yes
Dopth (kiches): NH.		Hydric Sail Present? Yes 12 Ho
Depth (subset) MK Remarks: IYDROLOGY		Hydric Sail Present? Yes
Depth (inches): MK Remults: MK IYDROLOGY Wetland Hydrology Indicators:		
Depth (subset) MK Remarks: IYDROLOGY	ek: chock all that acciv)	Hydric Sail Presant? Yes No
Depth (inclusis) NA Remarks: IYDROLOGY Westand Hydrology Indicators: Primary Indicator (instrument of one teculing a Surface Wheeler (14))	Saft Crust (B11)	Seconsur (Edicator, L) of more countill). Wale Make (B1) (Rhymnu)
Depth (inches): ME Remailes: IYDROLOGY Wetland Hydrology Indicators: Plimary Indicators information of one issuite	Saft Crust (B11) Biotic Crust (B12)	Secondary Indicators 22 of motor scenario () - Walde Marks (81) (Revenue) - Sectiment Departing ((21) (Revenue)
Depth (inclusis) NPROLOGY Wetland Hydrology Indicators: Primary Indicator Indicators: Primary Indicator (A) - Plan Visiter Table (A) - Salumbian (A)	Saft Crust (B11) Biotic Crust (B12) Aquatic Invertabriates (B13)	Seconstan/Indicators Li of more contillibil. Walse Make (B1) (Rhymmu) Sechment Depaula (B2) (Rhymna) Drift Depaula (B2) (Rhymna)
Depth (inches): APPROLOGY Wettland Hydrology Indicators: Pitter Pideates Instrument of one leculine Sortinole Water Latio (A2) - Falgy Water Latio (A2) - Saturnation (A3) - Water Marks (B3) (NonHydrine)	Safi Crust (B11) Biotic Crust (B12) Aquatic Invertabrates (B13) Figangen Subde Odor (G1)	Secondary Indicators IZ of moon requiries) — Villate Makia (81) (Reventes) — Sectiment Expession (82) (Reventes) — Offit Departies (93) (Reventes) — Visingle Publishers (8119)
Depth (inclusis) NPROLOGY Westland Hydrology Indicates re: Permany Indicates Incirculated to one results Surface Water (A1) - High Water Table (A2) - Water Marks (31) (Montivertine) Sediment Exposite (32) (Montivertine) Sediment Exposite (32) (Montivertine)	Saft Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Frydrogen Subde Eder (C1) Oxidaced Rivanspoorns along U	Seconstary Indicators, IJ of moin remailful). Walse Make (B1) (Rhymrine) Sectiment Deposite (B2) (Rhyerine) Drift Deposite (B3) (Rhyerine) Drift Deposite (B3) (Rhyerine) Verp (Books (CB)) Dry Season Walser Tude (CB)
Depth (inches): AFROLOGY Wetsand Hydrology Indicators: Primary Indicators: Primary Indicators: Primary Indicators: Primary Indicators: Primary Indicators: Primary Indicators: Subtrace Weller (A1) High Wester Yabio (A2) Salamation (B2) Salamation (B2) Salamation (B2) Salamation (B2) Salamation (B2) Salamation (B3) Salamation (B4	Sait Crust (B11) Bictic Crust (B12) Aquatic (Invertebrates (B13) Frytmogen Suidec Odor (O1) Osidicos Riviansperens along Li Prosence of Reduced Iron (C4)	Seconsian Indicators (Lot mon realitio) Wilder Marks (B1) (Rivertins) Sectioned Deposite (B2) (Rivertins) Offit Deposite (B3) (Rivertins) Offit Deposite (B3) (Rivertins) Org. Secons Visites Table (C2) Cryshab Burrow (C4)
Depth (inclusis) WPROLOGY Westland Hydrology Indicates:: Framery Indicates:: Surface Water (A1) Fligh Water Table (A2) Water Marks (31) (Hondiverine) Sedimed Exposing (83) (Montiverine) Surface Crocks (86) Surface Crocks (86)	Sall Crust (B11) Biotic Crust (B12) Aquatic Investaborates (B13) Figurogen Sulfado Dolor (O1) Ocidados Pricanquentes along (I) Financia of Reduced tron (C4) Barant turn Raticulion in Tilled	Secondary Indicators II of moin nonlillib. Wilde Marks (81) (Rhymrae) Sectiment Deposite (82) (Rhymrae) Ont Deposite (80) (Rhymrae) Ontsings Pallotts (810) Ontsings Ontsings (810) Ontsings Ontsings (810) Ontsings Ontsings (810) Ontsings (8
Depth (inclusis) PRETAINS: Wetland Hydrology Indicators: Primary Defeators Instrument of one Institute Surface White Pacific (A) High Water Tacto (A) Wetlor Marks (31) (Montiverno) Sediment Cerosite (32) (Montiverno) Drift Deposite (33) Montiverno) Surface Said Cracks ((6)) Surface Said Cracks ((6))	Sail Crust (B12) Biblio Crust (B12) Aquatic Invertibebrates (B13) Frietrogen Suido Color (D1) Ordelaced Prizersoperms along II Presente of Reduced tron (C4) Renard typs Raticellon in Tilled This MacA Surface (Sail	Secondary forications (Lot more constitute)
Depth (inclusis): MAC Remailliss: White And Hydrology Indicates:: Permany Josefanta (microsaur of one sequile Surface Water (A1) - Ham Water (Asis (A2) Satismation (A3) Water Maris (31) (Nontiverine) Sedimed Carolina (32) (Montiverine) Sedimed Carolina (33) (Montiverine) Surface Sat Carola (36) immadation (Vinitée un Assis) (magery (8) immadation Vinitée un Assis) (magery (8)	Sall Crust (B11) Biotic Crust (B12) Aquatic Investaborates (B13) Figurogen Sulfado Dolor (O1) Ocidados Pricanquentes along (I) Financia of Reduced tron (C4) Barant turn Raticulion in Tilled	Secondary Indicators II of moin nonlillib. Wilde Marks (81) (Rhymrae) Sectiment Deposite (82) (Rhymrae) Ont Deposite (80) (Rhymrae) Ontsings Pallotts (810) Ontsings Ontsings (810) Ontsings Ontsings (810) Ontsings Ontsings (810) Ontsings (8
Depth (inclusis) AFE TRemailes: Wetland Hydrology Indicators: Firmer Inflication Inflicators: Firmer Inflication Inflication of one Institute Surface Whater Latio (A2) Fligh Water Latio (A2) Water Marks (31) (Montiverine) Sedimed Depth (Sta) (Montiverine) Surface Sail Cincled (89) Included (99) Included (99)	Sali Crust (811) Biels Crust (812) Aquatic Investmentars (812) Hydropin Sulface Oxfor (013) Hydropin Sulface Oxfor (013) Hydropin Sulface Oxfor (014) Provincts of Reduced vior (024) Provincts of Reduced vior (024) Research for Reduced vior (024) Research for Reduced vior (024) This Muria Sunface (07) Other (Cuptain in Remerks)	Secondary forications (Lot more constitute)
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Depth (inclusis) AFE TRemailes: Wetland Hydrology Indicators: Firmer Inflication Inflicators: Firmer Inflication Inflication of one Institute Surface Whater Latio (A2) Fligh Water Latio (A2) Water Marks (31) (Montiverine) Sedimed Depth (Sta) (Montiverine) Surface Sail Cincled (89) Included (99) Included (99)	Sali Crust (811) Biels Crust (812) Aquatic Investmentars (812) Hydropin Sulface Oxfor (013) Hydropin Sulface Oxfor (013) Hydropin Sulface Oxfor (014) Provincts of Reduced vior (024) Provincts of Reduced vior (024) Research for Reduced vior (024) Research for Reduced vior (024) This Muria Sunface (07) Other (Cuptain in Remerks)	Secondary forications (Lot more constitute)
Depth (inclusis): NPROLOGY Wettland Hydrology Indicators: Financy Indicators: Financy Police Indicators: Fina	Baid Crust (811) (Sield Coras (812) Aquatic Investedrates (813) Hydrogen Stubble Odder (Od) Oddescell Privanepowas along Li Privanep	Secondary forications (Lot more constitute)
Depth (inclusis) APPROLOGY Wetland Hydrology Indicators: Primary Indicator Indicators Sentimed Excellent (A1) — High Vatier Tacio (A2) — Wator Maris (31) (Nonrivertine) Drift Dopositis (RS) (Nonrivertine) — Sudraco Sa) Crecka (Sin) — Indicators Indicators Sudraco Visite on Ascial Inspery (E Wator-Claimed Leaves (30) Field Observations: Sudraco Water Present? Ves Subvator Tebel Present? Ves Subvator Present?	Sal Crust (811) Biels Crust (812) Biels Crust (812) Aquatic Investabristes (813) Hydropen Sulfabo Odor (01) Prosente of Technodroma along (1) Prosente of Technodrom along (1) Prosente of Technodrom in Tibel Prosente of Technodrom in Tibel Prosente of Technodrom (C4) Remark term Reduction in Tibel This MucA Surface (C7) Other (Explain in Romerica) No Depth (inches): No Depth (inches): No Depth (inches):	Seconsary Indicators (2 of more consults) - Water Marks (81) (Rhymme) - Sechment Departie (82) (Rhymme) - Sechment Departie (82) (Rhymme) - On't Departia (83) (Rhymme) - On't Departie (83) (Rhymme) - Ony Sesses Vater Tube (C2) - Ony Sesses Vater Tube (C2) - Settle (C3) - Settle (C4) - Settle (C5) - Settle (C
Depth (inclusis): NPROLOGY Wettland Hydrology Indicators: Financy Indicators: Financy Police Indicators: Fina	Sal Crust (811) Biels Crust (812) Biels Crust (812) Aquatic Investabristes (813) Hydropen Sulfabo Odor (01) Prosente of Technodroma along (1) Prosente of Technodrom along (1) Prosente of Technodrom in Tibel Prosente of Technodrom in Tibel Prosente of Technodrom (C4) Remark term Reduction in Tibel This MucA Surface (C7) Other (Explain in Romerica) No Depth (inches): No Depth (inches): No Depth (inches):	Seconsary Indicators (Lot moin requilible) Water Marks (81) (Rhymther) Sectiment Deposite (82) (Rhymther) Ont Deposite (83) (Rhymther) Ont Deposite (83) (Rhymther) Arising Debters (R10) Ony Sesses Valet Tuber (02) Sele (03) Sele (04) Sele (05) Sele (06) Sele (06) Sele (07) FAC-Nourel Test (05) Wetland Rhydrology Present? Yes No
Depth (inclusis) NPROLLOGY Wetstand Hydrology Indicates re: Permany Indicates (recommended by the Indicates (recommended by the Indicates (recommended by Indicates (recomm	Sal Crust (811) Biels Crust (812) Biels Crust (812) Aquatic Investabristes (813) Hydropen Sulfabo Odor (01) Prosente of Technodroma along (1) Prosente of Technodrom along (1) Prosente of Technodrom in Tibel Prosente of Technodrom in Tibel Prosente of Technodrom (C4) Remark term Reduction in Tibel This MucA Surface (C7) Other (Explain in Romerica) No Depth (inches): No Depth (inches): No Depth (inches):	Seconsary Indicators (Lot moin requilible) Water Marks (81) (Rhymther) Sectiment Deposite (82) (Rhymther) Ont Deposite (83) (Rhymther) Ont Deposite (83) (Rhymther) Arising Debters (R10) Ony Sesses Valet Tuber (02) Sele (03) Sele (04) Sele (05) Sele (06) Sele (06) Sele (07) FAC-Nourel Test (05) Wetland Rhydrology Present? Yes No
Depth (inclusis) APPROLOGY Wetland Hydrology Indicators: Primary Indicator Indicators Sentimed Excellent (A1) — High Vatier Tacio (A2) — Wator Maris (31) (Nonrivertine) Drift Dopositis (RS) (Nonrivertine) — Sudraco Sa) Crecka (Sin) — Indicators Indicators Sudraco Visite on Ascial Inspery (E Wator-Claimed Leaves (30) Field Observations: Sudraco Water Present? Ves Subvator Tebel Present? Ves Subvator Present?	Sal Crust (811) Biels Crust (812) Biels Crust (812) Aquatic Investabristes (813) Hydropen Sulfabo Odor (01) Prosente of Technodroma along (1) Prosente of Technodrom along (1) Prosente of Technodrom in Tibel Prosente of Technodrom in Tibel Prosente of Technodrom (C4) Remark term Reduction in Tibel This MucA Surface (C7) Other (Explain in Romerica) No Depth (inches): No Depth (inches): No Depth (inches):	Seconsary Indicators (Lot moin requilible) Water Marks (81) (Rhymther) Sectiment Deposite (82) (Rhymther) Ont Deposite (83) (Rhymther) Ont Deposite (83) (Rhymther) Arising Debters (R10) Ony Sesses Valet Tuber (02) Sele (03) Sele (04) Sele (05) Sele (06) Sele (06) Sele (07) FAC-Nourel Test (05) Wetland Rhydrology Present? Yes No
Depth (inclusis) NPROLLOGY Wetstand Hydrology Indicates re: Permany Indicates (recommended by the Indicates (recommended by the Indicates (recommended by Indicates (recomm	Sal Crust (811) Biels Crust (812) Biels Crust (812) Aquatic Investabristes (813) Hydropen Sulfabo Odor (01) Prosente of Technodroma along (1) Prosente of Technodrom along (1) Prosente of Technodrom in Tibel Prosente of Technodrom in Tibel Prosente of Technodrom (C4) Remark term Reduction in Tibel This MucA Surface (C7) Other (Explain in Romerica) No Depth (inches): No Depth (inches): No Depth (inches):	Secondar Indicators (L of mone requirities) Water Marks (81) (81) (89-writtes) Sectiment Deposities (82) (89-writtes) Sectiment Deposities (82) (89-writtes) Ont Deposities (83) (89-writtes) Aris Roods (C3) Dry Sessen Water Tuber (C2) Selds (C5) Settlement Values on / Areal Breagery (8 Selds (C5) Settlement Values on / Areal Breagery (8 FAC-Modral Test (D5) Wetland Rivderlogy Present? Yes No
Depth (inclusis) NPROLLOGY Wetstand Hydrology Indicates re: Permany Indicates (recommended by the Indicates (recommended by the Indicates (recommended by Indicates (recomm	Sal Crust (811) Biels Crust (812) Biels Crust (812) Aquatic Investabristes (813) Hydropen Sulfabo Odor (01) Prosente of Technodroma along (1) Prosente of Technodrom along (1) Prosente of Technodrom in Tibel Prosente of Technodrom in Tibel Prosente of Technodrom (C4) Remark term Reduction in Tibel This MucA Surface (C7) Other (Explain in Romerica) No Depth (inches): No Depth (inches): No Depth (inches):	Secondar Indicators (L of mone requirities) Water Marks (81) (81) (89-writtes) Sectiment Deposities (82) (89-writtes) Sectiment Deposities (82) (89-writtes) Ont Deposities (83) (89-writtes) Aris Roods (C3) Dry Sessen Water Tuber (C2) Selds (C5) Settlement Values on / Areal Breagery (8 Selds (C5) Settlement Values on / Areal Breagery (8 FAC-Modral Test (D5) Wetland Rivderlogy Present? Yes No

&D = Total Cover

20

US Army Corps of Engineers

WETLAND DETERMINATION DATA FORM		SOIL Profile Description: (Describe to the
MANUAL LAY/ARGOD DITCH DIVICION LOS	Angeles Sameling Onto: 7-7-11 State: CA , Sampling Peint: 7	Depth Matrix (inches) Cotor (moist) 3
ORDCONICHION LAWA VIENDAMORINE TESTUKAMA J FIRZZIBANA SOCION, TOWARDIO, P	Pange unsectioned	0-4 2.543/2
vestigatorius: TTSOVIKAMP IS Firza i bann Socion, Tennatio, F motivon guitasous, britisco, 1803: Dramage DIFA Local retest (concern	e, convex, none): NONE Stope (Not: 270	4-22 Sand
MANDUNI NAME LAS 33.951907	NVA dashification: NONE	
to ettimatic / flythologic concitions on the sale typical for this time of year? Yes No	(thro, explain in Remarks.)	
to Vogotifion Ball or Hydrologysignificantly disturbed? NO Ar	w Normal Crometanous' present? Yes X 18u	
IN Vegetation Soil of Hydrocopy Institutely problems to SOI (III) UMMARY OF FINDINGS — Attach site map showing sampling point		
	ciocatuma, minorcia, important maturito, utc.	Type: C=Concentration, D=Depletion, Hydric Solf Indicators: [Applicable t
Hydrophytic Virginitation Pressent? Yes No is the Sample Hydric Scil Pressent? Yes to within a Wel		Historial (A1) Historial (A2)
Vielland Hydrology Present? Yes No		Black (fissic (A3)
contracted for sufficient durant	who to meet minimal	Hydrogen Suffide (A4) Stratfied Layers (A5) (LRR C)
Hydnology Threshold		1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A1)
EGETATION – Use scientific names of plants. Absolute Dominant Indicate Lices Stratum, (Plot size: 3 Stratum	Dominance Test worksheet:	Thick Dark Surface (A12) Sandy Mucky Mineral (S1)
Trem Strehming (Plot size:) N. Cover Species 2 Status	Number of Domissort Species That Are OBL, FAGIV, or FAC: (A)	Sandy Glayad Maute (SA) Restrictive Layer (if present):
	Total Number of Deminaria	Type: NONE
		Remarks: NPA
inplies Shrub Sentura (Pfot size:= Total Cover	Fercent of Deminant Species That We DRL FACW, or FAC: 50 170(A/E)	
	Provalance Index worksheet: Total & Cover of: Multiply by.	
	DBL species 30 x1= 35	HYDROLOGY
	FAC species X2* FAC species X3* 1.5	Watland Hydrology Indicators: Primary indicators (minimum all secret
Total Cover	UPLepecies 65 x0= 3.15	Surfaça Water (A1) [High Water Table (A2)
1891 STREET PRINTED TO BEAM 300 Y OBLINE TO THE PRINTED TO STREET TO BE TO THE STREET TO BE TO THE STREET TO THE S	Column Totals / OD (A) 370 (B)	Saturation (A3) Water Marks (B1) (Nonriverine)
· Plantago Janceslata 540 AD 500	Prevalence Index +B/A = 3 = 7	Sediment Deposits (B2) (Monthyer
	Mydrophytic Vegetation fedicators: Dominance Test is >50%	Drift Deposits (83) (Nonriverine) Surface Sol Credes (88)
6	Prevalence tratex is \$5.0' Morphological Adaptinisms' (Provide supporting	Inundation Visible on Arriel Image Water-Stated Leaves (89)
7	data in Romarks or on a separate sheet)	Field Observations: Sixface Water Frenent? Yes
Vipody Vine Stritum (Piot size): 1000 = Total Cover	Problematic Hydrophytic Vegetation* (Explain)	Water Table Present? Yes
	'indicators of hydric sou and welland hydrology must be present, unless disturbed of problematic.	Balanation Present? Yes (includes capitary trings) Describe Recorded Data (stream gauge
/OD = Total Cover	Hydrophytic Vegetation	
Bare Ground in Hero Stratum N. Cover of Binks Crust	Present? Yes No	Rumurks:
Finnerias:		
S. Armis Corna et Fruitseara	Atil West - Verson 2.0	DN Arms Come of Freemans
CS Army Craspa of Engineers	And What - Version 2.0	All Army Gorga of Enginees
US Army Corps of Engineers	-9.69 What - Venson 200	UR Army Gorga of Engineers
WETLAND DETERMINATION DATA FORM	i – Arid West Region Angeles Sampag Date: 7 – 7 – 11	SOIL
WETLAND DETERMINATION DATA FORM Spicus LAY ARCTO DITCH CONTOURLY LOS Bicustioners LANDA CONTOURN LOS	1—Arid West Region Angeles Samping Date: 7—7—11 Samping Point: 8 January M. C. C. Samping Point: 8	SOIL Profile Gescription: (Gescribe to the Dooth (Gescribe Control of Control
WETLAND DETERMINATION DATA FORM Spiciethoners: LANA Spicethoners: LANA Spicethoners	1—Arid West Region Angeles Samping Date: 7—7—11 Samping Point: 8 January M. C. C. Samping Point: 8	SOIL Profile Gescription: (Gescribe to the Dooth (Gescribe Control of Control
WETLAND DETERMINATION DATA FORM JOCATHONNUS LAWA ASSESSATION ASSESS	1-Arid West Region Anogles Sampling Date: 7-7-11 State: CA Empling Polyt: 8 Langus Unicettury Specially 2270 Long: 113-417234 Distant USS 1984 NWW desaffration NEWS	SOIL Profile Gescription: (Gescribe to the Dooth (Gescribe Control of Control
WETLAND DETERMINATION DATA FORM operations LAX ARCETO DITCH Copyrous LOS observious LANA copyrous LA	And West Region Angles Sampling Date: 7-7-11 State: CA Empling Orige: 8 Lange: UN SECTION Society Section CA Long: 117.417.236 Date: V45. 1984 Will describe on Parallel ((fine, option in Parallel)	SOIL Profile Gescription: (Gescribe to the Dooth (Gescribe Control of Control
WETLAND DETERMINATION DATA FORM SpicultOwner: LAND A CaptCounty LOS DiscustOwner: LAND A CaptCounty LOS DiscustOwner: LAND A CaptCounty LOS Discustome disclassing in the content of t	Arid West Region Angles Sampling Date: 7-7-11 State: CAL Bampling Point: 8 Larges UN SULTURE Bloca (N): 22 7 8 Large III. 417.38 6 What disadination New 6 (If no, eighted in Percalls) **Hormal Gircannicos* Proceen(*) Yes. X. No.	SOIL Profile Gescription: (Gescribe to the Dooth (Gescribe Control of Control
WETLAND DETERMINATION DATA FORM Spicostone: LANA ARCED DITCH CONTOURN: LANA	Angles Sampling Date: 7-7-11 State: CA: Sampling Date: 7-7-11 State: CA: Sampling Date: 7-7-11 State: CA: Sampling Date: 7-7-11 State: UA SELFTUTLE Stope (N): 2270 Long: 117-117.3 & Date: 145 1934 Will classification NONE (Int), explain in Paramete) **Normal Circumstances* processing, Vas. No. **Normal Circumstances* processing, Vas. No.	SOIL Profile Description: [Describe to the Depth Section 1.0] Soldward 1.0 D-13. 2:5-43/1.2
WETLAND DETERMINATION DATA FORM Incidibles LAY ARCOTO DITCH Copyrous LOS Silicard/Orane LAWA ARGINATO DITCH Copyrous Incident Copyrous	Anguls Surpling Date: 7-7-11 State: CAt Surpling Date: 7-7-11 State: CAt Surpling Print: S Surpling Print: S Lung: 117-117-34 Date: 1/45 1/934 NM desaffeation New S (fine, explicit in Perceits): 1/45 1/934 Internal Gresswards in Perceits; 1/45 1/934 Internal Gresswards in Perceits; 1/45 1/45 Internal Gresswards in Perceits;	SOIL Profile Description: [Clescribe to the Double of the Control
WETLAND DETERMINATION DATA FORM plent/Owner. LATA/ARCTO DITCH Cap/County LOS plent/Owner. LATA/ARCTO DITCH Cap/County LOS plent/Owner. LATA/ARCTO DITCH DISTANCE CONTINUES CONTI	Arid West Region Arregus State: CA Sampling Date: 7-7-11 State: CA Sampling Date: 7-7-11 State: CA Sampling Point: 8 Large: UA SCETTURE Stope (16): 227 o Large: UA 1971236 Will date Wrester Volume V 1945 1984 Will date Wrester V 1945 1984 Will	SOIL Profile Gescription: (Describe to this Doph Scale Color Colo
WETLAND DETERMINATION DATA FORM plent/Grave: LATA/ARCHO DITCH Cap/County LOS plent/Grave: LATA/ARCHO DITCH Cap/County LOS plent/Grave: LATA/ARCHO DITCH Cap/County LOS plent/Grave: LATA/ARCHO DITCH Losd reside (concave actingtion (LRR) MEQ. Lat 33:151907 It hap lost frame: NA a vegetation Soi or hydrology applicately glassebed? NO An a vegetation Soi or hydrology applicately glassebed? NO (It UndmARY OF FINDINGS – Attach site map showing sampling point funding hydrologic formation? Vegetation Soi or hydrology Adjustion Soi or h	Arid West Region Arregus State: CA Sampling Date: 7-7-11 State: CA Sampling Date: 7-7-11 State: CA Sampling Point: 8 Large: UA SCETTURE Stope (16): 227 o Large: UP 1/17.36 - Not described on Point State (16): 227 o Large: UP 1/17.36 - Not described on Point State (16): 227 o Large: UP 1/17.36 - Not described on Point State (16): 227 o Locations, transects, important features, etc. and Area	SOIL Profile Description: [Describe to this Dopt). Solid Town Color Control of the Control
WETLAND DETERMINATION DATA FORM Spicart/Owner LANA Capicousing LOS Distant/Owner LANA Capicousing LOS Distant/Owner LANA Capicousing LOS Distant/Owner LANA Capicousing LOS Scalar LANA Lond relief (concave Lond relief lond Lond rel	Arid West Region Arregus State: CA Sampling Date: 7-7-11 State: CA Sampling Date: 7-7-11 State: CA Sampling Point: 8 Large: UA SCETTURE Stope (16): 227 o Large: UP 1/17.36 - Not described on Point State (16): 227 o Large: UP 1/17.36 - Not described on Point State (16): 227 o Large: UP 1/17.36 - Not described on Point State (16): 227 o Locations, transects, important features, etc. and Area	Profile Description: [Describe to the Dopth Color Invest State State
WETLAND DETERMINATION DATA FORM Spicart/Owner LATA ARCETO DITCH CopyCounty LOS spicarto LOS s	Arid West Region Arregus State: CA Sampling Date: 7-7-11 State: CA Sampling Date: 7-7-11 State: CA Sampling Point: 8 Large: UA SCETTURE Stope (16): 227 o Large: UP 1/17.36 - Not described on Point State (16): 227 o Large: UP 1/17.36 - Not described on Point State (16): 227 o Large: UP 1/17.36 - Not described on Point State (16): 227 o Locations, transects, important features, etc. and Area	SOIL Profile Description: (Describe to this Dooth State Control of the
WETLAND DETERMINATION DATA FORM Incidistas LATA ARCOD DATCH Copyrously LOS Control Data Copyrously LOS Cop	Arid West Region Angles Sampling Date: 7-7-11 State: CA Sampling Date: CA Sam	SOIL Profile Description: (Gescribe to the Depth Matrix (Firshes) Color (Ironal) 5 O-J3 2-5-y3/1 8 Type: O-Conventination, D-Depthale Hallower (A1) Hallower (A2) Hallower (A3) Hallower (A3) Hallower (A3) Hallower (A4) (HR C) To mixed (A6) (HR C) Depthale (Baylow Carlo Surface (A1) Tilks Dark, Surface (A2) Ti
WETLAND DETERMINATION DATA FORM Incidition LAY ARCOTO DITCH CopyCounty LOS Discartification CopyCounty LOS Discartification CopyCounty LOS Discartification CopyCounty LOS Losd reliefs (concave determination physicalogic conditions in the same of plants) Losd reliefs (concave Losd 23.15.1907 Map that Factor. NA Losd reliefs (concave Losd 23.15.1907 Map that Factor. NA Losd reliefs (concave Losd 23.15.1907 Map that Factor. NA Losd reliefs (concave Losd 23.15.1907 Map that Factor. NA Losd reliefs (concave Losd 23.15.1907 Map that Factor. NA Losd relief (concave Losd 23.15.1907 Map that Factor. NA Losd relief (concave Losd 23.15.1907 Map that Factor. NA Losd reliefs (concave Losd 23.15.1907 Map that Factor. NA Losd reliefs (concave Losd 23.15.1907 Map that Factor. NA Losd reliefs (concave Losd 23.15.1907 Map that Factor. NA Losd reliefs (concave Losd 23.15.1907 Losd 23.1507 Losd 23.1507 Losd	Angles Sampling Date: 7-7-11 State: CA: Sampling Date: 7-7-11 State: CA: Sampling Date: 7-7-11 State: CA: Sampling Date: 7-7-11 State: UR SELFTUNG Stock (No. 2016) Long: 117-117.3 & Stock (No. 2016) Well classification NONE (Ind. scripturin Faransic) **Normal Circamance Proceeding. **Stormal Circamance Proceding. **S	SOIL Profile Description: (Gescribe to the Depth Matrix (Firshes). Color (Irosell) 5 (O-J) 2 (-S-J) 3/1 2 (O-J) 2 (O-
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Profile Description: (Describe to the de	pth needed to document the Indicate	r or confirm the absence of indicators.)
Depth Matrix	Redox Friatures	or community and a community of the comm
(inches) Coter (moist) %	Color (moint) % Type	Loc Textore Romarks
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1 22		1 300001
y -w same	NONE	
	A CONTRACT OF THE PARTY OF THE	The same of the sa
Type: C=Concentration, D=Depletion, R3 fydric Soll Indicators: (Applicable to a		indicators for Problematic Hydric Soils ³
Histosol (A1)	Sandy Redex (SS)	t am Muck (A9) (LRR C)
Histin Epipedon (A2)	59/pped Matrix (S6)	2 tan Muck (A10) (LRR B)
Black Histic (A3)	Lostny Mucky Mineral (F1)	- Reduced Vertic (F18)
Hydrogen Sutido (A4)	Loamy Gloyed Marrix (F2)	Red Parers Malerial (172)
Stratified Layors (A5) (LRR C)	Depleted Metrix (F3)	 Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (Fil)	
Depleted Below Dark Surface (A11)	Depleted Dark Surince (F7)	* *** *** ****************************
Thick Dark Surface (A12)	Reifex Deprensions (FA):	andicators of hydrophytic vegeration and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	settland hydrology must be present,
Sandy Gloyad Matter (S4)		unless disturbed or problematic
Restrictive Enyer (if present):		
Type: Aller		
Depth (inches):		Hydric Sall Present? Vas No C
terrarks:		
YDROLOGY		
YDROLOGY Watland Hydrology Indicators:		
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Watland Hydralogy Indicators: Primary indicators (minimum ni por reous Surfaço Water (A1)	Salt Crust (B11)	Water Marks (B1) (Riverine)
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Watland Hydralogy Indicators: Printury Indicators (micrown of pop reduit Staface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Biblic Crust (B12) Aquetto Invertebrates (B13)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Watland Hydrology Indicators: Primary Indicators (incimum nil oper robus Surface Weter (A1) High Water Table (A2) Sahuration (A3) Water Marks (B1) (Nonfiverine)	Satt Crust (B11) Blace Crust (B12) Aquatio Invertebrates (B13) Hydrogen Gutfida Odor (C1)	Water Marks (B1) (Riverine) Sectional Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Ordinage Patterns (B10)
Williand Hydrology Indicators: Frinsury Indicators imminimum III operacivis Surface Wetor (A1) High Walter Table (A2) Saturation (A3) Water Maths (B1) (Nontivarine) Sodiment Depoints (B2) (Nontivarine)	Sab Crust (B11) Blade Crust (B12) Aquation invertebration (B12) tiyangen Guilfele Odor (C1) Colotted Rhizospheres alor	Water Marks (31) (Riverine) Sediment Deposits (82) (Riverine) Drift Deposits (63) (Riverine) Oralinage Patternii (910) by Living Rowle (C3) Dry-Sospot Water Table (C2)
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Watland Hydrology Indicators: "remary indicators: Innoverses and operations of the Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nontiversite) Sodiment Deposits (B2) (Montiversite) Drift Deposits (B3) (Montiversite) Surfams Soli Credux (B8) hundation Visita Soli (Red Innoversite) Surfams Soli Credux (B8) hundation Visita on Annal Imagery (Water-States Lesense (B9) Field Observations: Surface Water Fresent? Visit (Aber Table Present? Visit Subradion Present? Visit Subradion Present? Visit Subradion Present? Visit Subradion Present?	Sate Druct (311) Biller Cours (1912) Assett Free Free Free Free Free Free Free F	Water Maris (III) (Rivertice) Solidinary Deposits (33) (Rivertice) Drill Deposits (33) (Rivertice) Drill Deposits (33) (Rivertice) Dry-Sosset Water Table (C2) Ory-Sosset Water Table (C2) Cayfah Burrows (C8) Sammidon Visidos on Ankel mingury (Shallain Ankel Mingury (Shallain Ankel (C2) Sammidon Visidos (C3)
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Welland Hydralogy Indicators: (Pitnary Velocators Inscience of December 1995) Surface West (A) High Water Table (A2) Seatmaning (A) Water Maria (B) (Nonriversine) Sediment Decoults (B2) (Nonriversine) Sediment Decoults (B2) (Nonriversine) Sediment Decoults (B3) (Nonriversine) Sediment Decoults (B3) (Nonriversine) Sediment Decoults (B3) (Nonriversine) Sediment Decoults (B3) Water-Statement Decoults (B3) Field Observations: Suffice Water Field Pharmacrity Vel Sediment Present? Vel Sediment Present (P) Vel Sediment Present (P) Vel Sediment Present (P) Vel Sediment (P) Sedimen	Sale Crust (311) Ballet Crust (311) Assattd Investerates (813) Assattd Investerates (813) Vydrogen Guilfeld Cover (CI) Oxidated Retraceptores all office of International	Wieder Marks (11) (Phyerine) Sodinance Deposite (I2) (Elevenine) Sodinance Deposite (I2) (Elevenine) Deposite (I2) (Eleven
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Profile Den	cription: (Describe t	to the dopth	needed to document the indicator or or	onfirm the ensence of indicators.)
Dopth	Matrix		Redox Features	-
(inches)	Color (road)	-5	Color (moist) . Type Lo	Toxinto Remarks
2-12	2,5~3/1	20	7.542 4/2 20 C	M Sandy Joans
	- total			. Variable
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Type CvC	Concentration D=Dept	ation: RMes	Reduced Mairix, CS=Covered or Contest Sa	and Grains "Location: PL+Pone Living, M+Matrix.
Hydric Soil	Indicators: (Applica	date to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis*:
Historia	I (At)		Saruty Reidox (S5)	1 cm Mack (A9) (LRR C)
Histor E	pipedon (A2)		Stripped Matrix (S6)	2 on Musk (A10) (LRR B)
	tistic (A3)		Loanny Mucky Mineral (F1)	Reduced Vertic (F16)
Hydrog	on Statide (A4)		Loumy Glayed Matrix (F2)	Red Parent Material (TF2)
_ Stratific	d Layers (Ati) (LRR C	3.	Deplited Matrix (F3)	Other (Explain in Kemarks)
1 cm M	box (AS) (LRR D)		M Redox Dark Surface (FB)	
	ed Below Clark Surface	(A11)	Depleted Dark Surface (F7)	
	lark Surface (A12)		Redox Depressions (FB)	"Indicators of hydrophysic vegetation and
	Mucky Mio(ral (S1)		Voenni Poolis (F5)	westend hydrology must be present.
	Glayed Metrix (S4)			unless disturbed or problematic.
	Layer (If presently,			
COLUMN TO SERVICE SALES				
Тура	NIGHE		-	
Typa Dieptin (is	NgNE NgNE	4		Hydric Soil Present? You No No
Type	OGY ydrology indicators; kadors (minmun ôf o	A cal ropulena		Secondary indicators (2 or more required)
Type	OGY ydrology Inditators; isators (continue of o o Water (A1)	A cai roodkna.	Sall Crust (B11)	Secondary Indicators (2 or more required) Violer Makin (81) (Riverine)
Type	OGY pdrology inditators; scalors (mormum 6f o o Water (A1) htter Teble (A2)	слі горійна.	Sal(Crust (B11) Blobs Crust (B12)	Secondary indicators (2 or more required) Violer Mass (31) (Nevrina) Solityer Deposits (20) (Nevrina)
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Type Depth (if Remarks: IYDROLC Wetland H; Primary lod Surface High W Sattran Water Sudire	OGY ydrology indicators; leators (minimum 6f o y Water (A1) later Table (A2) fon (A3) Marus (B3) (Nontiveri ond Deposits (B2) (Non	ino) nelvoeltes)	Sal(Crust (B11) Blobs Crust (B12) Aquatic Invertebrates (B13) Engineen Salah Odor (C1) Ondered Rhizospheres stong Live	Secondary Indicators (2 or more required) — Valor Mass (81) (Rivertice) — Bedinged Deposits (81) (Rivertice) Drib Deposits (81) (Rivertice) Dransale Pattoris (810) g Roots (C1) — Use-leason Valor Table (C2)
Type Depth (if Remarks: IYDROLC Westland H; Primary log Surface High W X Sational Water Sussing	OGY ydrology indicators; keators forsimum ét o Vidato (Ari) hatur Tabliu (A2) forn (A3) Mariss (B3) (Montiversi on Deposits (B2) (Montiversi oposits (B3) (Montiversi	ino) nelvoeltes)	Sall (Crust (B11) Blotic Crust (B12) Aquatic Invertebrates (B13) I hydrogen Salbdo Odor (CS) Oeldesd Rhizosplares along Live Presence of Reduced (can (C4)	Secondary Indicators (2 or more required) Wilder Marks (81) (Riversiae) Sadigent Deposite (87) (Riversiae) Drib Deposite (187) (Riversiae) Drib Deposite (187) (Riversiae) Orașiale Patronis (1810) Orașiale Patronis (1810) Orașiale Sadioria (1810)
Type Depth (if Remarks: IYDROLC Wettand High Water Surface Ligh Water Surface Light Wate	DGY ydrology indicatora; leators (institutus of o 9 Mater (A1) alater Tables (A2) foo (A3) for (A3) fo	ino) nrivarino) rino)	Sall Crust (B11) Blotic Crust (B12) Aquatic Investabrates (B13) Hydrogen Sallden Odor (C1) Oddized Referenties along Live Preserves of Reduced tran (C4) Record from Reduced from (C4)	Secondary Indicators (2 or more required) Wilder Marks (81) (Riversiae) Sadigent Deposite (87) (Riversiae) Drib Deposite (187) (Riversiae) Drib Deposite (187) (Riversiae) Orașiale Patronis (1810) Orașiale Patronis (1810) Orașiale Sadioria (1810)
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il Map Unit Name: NA	19 331/01/01	16M disastication: NONE
s climatic / rivitrologic conditions on the will traice for the	is time of year? Yes X No	(if no. exclude to Remarks.)
e Vegetation; Still, or i (ydrology	significantly disturbed? NO An	a "Normal Circumstances" pleasent? Yes X No
e Vegetation Sail, or Hydrology		
UMMARY OF FINDINGS - Attach site map	showing sampling point	locations, transects, important features, etc.
	No to the Sample	
	Within a Wet	fand? Yes No No
Flumata		
EGETATION - Use scientific names of pla	nts.	
	Apacitica Dominant Indicato	
Trin Statum (Plat slaw	Schwar Species? Status	That Are OBL, FACW, or FAC: (A)
		Total Number of Dominant
4.		Species Acress All Strata (0)
SapingtShrop Stretum (PREAD)	= Total Cover	That Are OBL, FACW, or FAC: 100 (A/B)
-		Prevalence Index worksheet:
3		Total % Cover of Multicov by: OBE species x1+
4		FACW species x 2 =
1.1.	= Total Cover	FAC species x3.0
Ment Strain (Plot also: 10 diany	80% Y FAC	UPE species k.5 a
Lollyn my Lt. Floria	10 h un	Column Totals (A) (B)
4	<u> </u>	Prevalence index = U/A = Hydrophytic Vegutation Indicators:
5		Deminance Test is >50%
6		Prevalence Index is \$3.01 Murphological Adaptations' (Provide augusting
8	- 0	Morphological Adaptations' (Frovide supporting that in Remarks or on a separate sheet) Proclematic Hydrophytic Vegepation' (Expens)
Woody Vine Stratum (Plot size:	90 - Total Cover	
)		Indicators of hydric soil and worland hydrology must be present, unless disturbed or problematic
	90 = Total Cover	Matembedie
M. Barn Cimumi In Herb Stratum /10	mr of Gloric Crust 17	Vegetation Present? Yes No
15 Army Corps of Engineers		And West Vansien 2.0
15 Apry Corps of Engliwers		And Wind Varnien 2.0
WETLAND DETE	rmination data form	n – Arid West Region
WETLAND DETE	City/County Los	A-Arid West Region Anagelus Sumpling Cale: 7-7-11
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OIL Profile Description: (Describe to the dept	B conded to deciment the last state	Sampling Point:
		confirm the amonce of indicators.)
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0-5 10 yr 3/2 100		Lung some
5-12 luy (3/295	7.54 4/4 5 C	M Smy laam
Type: C=Conpertration D=Desileton RM=	Dadicial Malife ("Sufferment in Posted)	Sand Grains. *Locition: PL+Pere Living, M+MMor.
Hydric Sell Indicators: (Applicable to all)		Indicators for Problematic Hydric Solle*:
H€stoeel (A1)	Sandy Redox (S5)	i cm/Muck (AB) (LRR C)
Histic Epipedao (A2)	Stripped Matrix (Sil)	2 cm Muck (A(0) (LRR B)
Binck Histic (A3)	Learny Musky Mineral (F1)	Reduced Verba (F18)
Hydrogen Sulfide (A4):	Loamy Gleyed Matrix (F2)	Red Parant Material (TF2)
Stratified Layers (All) (LRR C) 1 cm Muck (All) (LRR D)	Depleted Matrix (F3) Redox Dark Surface (F6)	Other (Explain in Remarks)
Displeted Beltw Dark Surface (A11)	Depleted Data Surface (F7)	S. Marian Administration of
Thick Dark Surface (A (2)	- Fredox Dapressions (F6)	indicators of tydrophytic vegetation and
Sandy Mucky Mineral (81) Sandy Cleyed Matrix (54)	Vernal Pocts (Ell)	wedland hydrology must be pretent, unless disturbed or problematic.
Restrictive Layer (if present):		Amesa disturbed of propertisals.
1 10 16		
THE MONE		V
Depth (loches):	_	Hydric Sail Present? Yes X. No.
Romanis:		
YDROLOGY		
YDROLOGY Westand Hydrology Indicators:		
YDROLOGY Wetland Hydrology Indicators: Primary Indicatins mramum of one digurati		Societary Indicators (2 of more fectures)
IYDROLOGY Wettand Hydrology indicators: Primary Indicates immunity of one oliquead Surface Whate (A1)	Sall Crust (B11)	Water Marka (B1) (Rivorine)
IYDROLOGY Wettand Hydrology Indicators: Primary Indicators arminium of nina tiquend Burfaco White (A1) High Water Table (A2)	Salt Crest (B11) Biolic Crest (B12)	Water Marka (B1) (Riverine) Sectionert Deposits (B2) (Riverine)
IYDROLOGY Wettend Hydrology Indicators: Prinary Indicators imminum of one required Surface Vetter (Art) High Water Table (AS) Saturation (AS)	Sall Crest (B11) Bloic Crest (B12) Aqualic Invertebrales (B13)	Water Marka (B1) (Riverine) Sectioned Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
YOROLOGY Wetland Hydrology Indicators: Franks Indic	Self Crust (B11) Bloic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Suffide Odor (G1)	Water Marka (B1) (Rivorine) Sectiment Deposits (BC) (Rivorine) Drift Deposits (B3) (Rivorine) Ordenage Patterns (B16)
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YOROLOGY Wetland Hydrology Indicators: Franks Indicators: Franks Indicators: Surface Wider (A1) Fight Water Tubbs (A2) Sulfuration (A3) Water Marks (31) (Nonriverine) Sulfuter (A4) Delt Disposal (B2) (Monriverine)	Self Crust (B11) Blaic Crust (B12) Aqualic Invariatrales (B13) Higdragen Suffde Odor (G1) Outstand Rivizagnanes along Lit Preserve of Reduced Iron (C4)	Water Marks (B1) (Riverine) Sectiment Deposits (ED) (Riverine) Drift Deposits (ED) (Riverine) Oridinals (B3) (Riverine) Oridinals (B3) (Riverine) Oridinals (B1) Originals (B1) Originals (B1) Originals (B1) Originals (B1) Originals (B1) Originals (B1)
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YDROLOGY Wettand Variology indicators: Prinary Indicators: Burlaco Weter (A1) Felgh Walter Tables (A2) Satistration (A3) Walter Marks (D1) (Nooriverine) Sediment Despots (E2) (Khartverine) Drift Dispots (E3) (Khartverine) Fortace 56) Crade (E6) Insuration Visites on Areal Imagery (B1 Whater Status Leaves (B9) Fraid Charter Present? Veter Table Present?	SRI Creat (B11) Bloic Creat (B12) Aquisitic Inventoralers (B13) Figerogen Sutfad Odor (G1) Odiffiched Riffuspensers along Lt. Presence of Reduced from (C4) Recent Non Reduction to Trilliat 6 Thin Mod Southout (G7) Other (Explain in Remarks) Depth (Inches) Depth (pathws) Depth (pathws)	Water Marks (B1) (Riverine) Sectionard Deposits (20) (Riverine) And Deposits (20) (Riverine) And Deposits (20) (Riverine) And Blocie (C2) Dry-Season Vater Table (C2) Craytest Burrows (C5) Salmation Valeto on Annal Imagery (Cil. Shaftow Aquitare (C5) FAC Neutral Treat (C5) Wetland Hydrology Present? Yes No.

Profile Description: (Describe to the do			firm the absence of indicators.)
Depth Melrix (Inches) Color (molet) %	Hadas Finitire	Time 140	Texture Remarks
0-10 /01/23/2 85	Syr3/4 15	1900 100	Co. L. I
1-10 104×512 83	341314 15	C 19	Sandy Com
Type: C=Concentration, D=Depletion, RN lydric Soli Indicators: (Applicable to a	I I.RRs, unless otherwise not		Indicators for Problematic Hydric Soils*:
Historial (A1)	Sandy Rodox (S5)		1 cm Muck (A9) (LRR C)
Histic Epipedun (A2) Black Histic (A3)	Stripped Matrix (S6)	Local .	2 gra Minck (A10) (LRR B)
Hydrogen Sulfida (Ad)	Lourny Mucky Minury Lourny Glayed Matrix		Red Parent Material (TF2)
Stratfind Layers (A5) (LRR C)	Depintod Matrix (F3)		Deser (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Rodex Fank Surface		- Seem Debrame at Machinest
Dopleted Below Durk Surface (A11).	Depleted Dark Surface		
Thick Dark Sorteon (A12)	Redox Depresalors ((F8)	fludies are of hydrophytic vegestion and
Sandy Mucky Mineral (81)	Vernal Pouls (F9)		wetland hydrology must be present.
Samly Gloyed Matrix (S4)			untena disturbed or problematic.
Restrictive Layer (if present):			
TWO - NONE IN	-		~
Diebus (inches)	E		Hydric Soll Present? Yus K No.
Depth (Irichas) NV NV NX	<u> </u>		Hydric Soll Present7 Yes Ka No
Depth (inches): NOTICE NA	r_		Hydric Sell Present? Yes K Ha
Depth (inches) NV III N Barnariss: YDROLOGY Wetland Hydrology Intilicators:	and chack all that hereby		
Delph (inchas): VDROLOGY Welland Hydrology Indicators: Phinix Indicates Infinitum of one received.			Secondary (ndi-ators /2 or moni nondied)
Peligh (hichala): NOTICE Notic	Salt Coust (B11)		Secondary (ndiventors, 22 or mont installed) Vater Marks (B1) (Rivertee)
Deight (inchas): VDROLLOGY Welland Hydrology Inflicators: Printing Indicates Infinitum of sine receil Surface Water (As) - High Wilder Taile (A2)	Salt Crust (B11) Blotic Crust (B12)	es (B13)	Secondary (edicators /2 of mont impulsed) Vater Maria (103) (Rivertee) Sectioned Chapolic (20) (Rivertee)
Delight (inchais): YDROLOGY Welland Hydrology Indicators: Private Indicators: Indicators: Surface Walter (A1) - Bight Walter (A2) Sathradion (A3)	Salt Crust (B11) Blotic Crust (B12) Aquasic Invertebrate		Secondary (ndivators, /2 or mont resulted) Vater Marks (B1) (Rivertee) Settement Deposite (B2) (Rivertee) E Dist Deposite (B3) (Rivertee)
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Delph (Inchala). VOROLOGY Welland Hydrology Indicators: Private Notestata Intelname of one recoll 18th Hydrology Indicators: Private Notestata Intelname of one recoll 18th Walter Table (A2) 28th and Market (A1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquasic Invertebrate Hydragen Suilide O	idor (C1) Hea Blong LiVing I	Scoodary (odicators /2 of most inquired) — Vater Maris (101) (Rivertice) — Settlement Deposits (103) (Rivertice) — With Deposits (103) (Rivertice) — Oricing Phathres (1010)
Deight (inchas): YDROLOGY Welland Hydrology Indicators: Private Indicators: Surface Walter (Al) 19th Walter Table (A2) Saturation (A) Value falues, (11) (Nonriverine) Sodinocal Deposits (B3) (Montherine)	Salt Crust (B11) Blotic Crust (B12) Aquasic Invertebrate Hydragen Sulfide O Oxidized Reizosghe	idor (C1) erea islang Elvlag i est iron (C4)	Secondary (odilisators, /2 or mont required) — Vature Marks (B1) (Rivertee) — Settiment Deposits (B2) (Rivertee) — Vature Marks (B3) (Rivertee) — Vature Marks (B3) (Rivertee) — Vature Patients (B10) — On-Senton Walser Table (C2) — On-Senton Walser Table (C2)
Ceight (inchais) YDROLOGY Willand Hydrology indicators: **Cristra (includes /minimum of one receit Surface Walser (Al) High Waller Table (A2) Sathradion (A) Valler Marks (B1) (Montiverine) Godinont Liepousis (B2) (Nondriverine) Diff Deposits (B3) (Montiverine) Surface Soil Cauche (Bn) Insurfacion Visible on Annal Imagery (Includes and Annal Imagery)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertiditial Hydragen Suifide O Oxidized Reizosphe Prissesses of Bischin Roccel fron Restuct	idor (C1) Has stong Living i ad fron (C4) lion in Tilled Salls	Secondary (odicators, 22 or mont required) — Varier Afacks (B1) (Revertee) — Sediment Deposits (B2) (Revertee) — With Deposits (B3) (Revertee) — Varies Afacks (B3) (Revertee) — Varies Patterns (B3) (Revertee) — Cooks (C3) — Dry-Seaton Wales Table (C2) — Dry-Seaton Wales Table (C2)
Deight (inchea): YDROLOGY (Welland Hydrology Indicators: "Welland Hydrology Indicators: "Within Mydrology Indicators: "	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertiditial Hydragen Suifide O Oxidized Reizosphe Prissesses of Bischin Roccel fron Restuct	idor (C1) Hos siong Elving (ed from (C4) Bor in Tilled Shila (C7)	Secondary (ndicators (2 of more inspiled) Vature Marks (151) (Rivertee) Sectioner Caposite (12) (Rivertee) District Disposite (18) (Rivertee) Discrease Patherra (1810) Roods (1C3) Dry-Senston Walser Table (12) Drayfort Dismovies (20) Sectioner Caposite (1810) (C50) Settle Grander Marks (1810)
De(0% (inchais): VPROLOGY Welland Hydratogy indicators: "Intima inchais a minimum of min resolitation with the second of the	Salt Cress (811) 85clic Cress (812) Aquatic Inverfebrate Hydragen Suitde O Oxidized Reizenghe Presence of Recurs Rockel from Revicel 87) This Milds, Surface o	idor (C1) Hos siong Elving (ed from (C4) Bor in Tilled Shila (C7)	Scoodlay (olicators 12 or mont resided) Vater Marks (33) (Severice) Settlment Deposits (82) (Reverine) Critic Lipsens (33) (Reverine) Descape Pathers (43) (Reverine) Descape Pathers (43) (Reverine) Descape Pathers (43) (Reverine) Crayfor Burrows (24) (Reverine) Crayfor Burrows (25) (Reverine) Salturation Vacilitation on Audia Imagery (25) Station Agrithment (43)
Deight (inchais): VPROLOGY Notiand Hydrology indicators: Pricina in Nobeditis Infinitum of one resolu- Surface Nature (As) High Waller Tanile (A2) Saturation (A) Valuer Marks (B1) (Nonriverine) Sodiment Deposite (B3) (Nonriverine) Sodiment Deposite (B3) (Nonriverine) Sodiment Deposite (B3) (Nonriverine) Valuer Solid Cache (B6) Invariation Visible on Aerali Imagery (I White:Staired Leaves (B6) White:Staired Leaves (B6)	Salt Cress (811) 85clic Cress (812) Aquatic Inverfebrate Hydragen Suitde O Oxidized Reizenghe Presence of Recurs Rockel from Revicel 87) This Milds, Surface o	idor (C1) Hos siong Elving (ed from (C4) Bor in Tilled Shila (C7)	Scoodlay (olicators 12 or mont resided) Vater Marks (33) (Severice) Settlment Deposits (82) (Reverine) Critic Lipsens (33) (Reverine) Descape Pathers (43) (Reverine) Descape Pathers (43) (Reverine) Descape Pathers (43) (Reverine) Crayfor Burrows (24) (Reverine) Crayfor Burrows (25) (Reverine) Salturation Vacilitation on Audia Imagery (25) Station Agrithment (43)
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Deight (inchais): YDROLOGY Welland Hydrology Indicators: Private Noteatas Información en recoli Surface Waler (Al) Surface Sol Cache (B) Insurdation Visible on Aeral Insuppry (I Veder States Leaves (B) Fried Observations: Surface Sol Cache (B) Insurface Waler (Al) Surface Waler (Fresenti) Veder States (Laves (B) Surface Waler (Fresenti) Ven Surface Waler (Fresenti) Ven Surface Waler (Fresenti) Ven Surface Waler (Fresenti) Ven Surface Waler (Fresenti)	Salt Crest (811) Blotic Crest (812) Aquation Invertebrate Hydragen Suitide O Oxidated Retrospet Hymsenes of Biscure Rocal from Reduct Ethical Suitides O Offer (Explain in Ri No. M. Dogth (inches):	idor (C1) iros atong Elving i ed éran (C4) linn in Tilled Solis (C7) irmarks)	Secondary (officiators /2 or monit resided) Vature Marks (301) (Rivertee) Settlement Deposite (32) (Rivertee) Discourse Patherns (310) Roots (C3) Dy-Sesson Values ** Table (C3) Drayfer Burrows (C8) Software Values or Assist Imagery (C5) State Values Applicated (C3) Fac2-Newtree Tost (105)
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region (LEH) MED.	Jan 33.4	51907"	190: UN SECTION AD CONTROL OF STORE (%) SECTION DETERMINED AS	1984
Map Unit NameNA dispate / hydrologic conditions on the atte typ			IMI dassification NONE	-
Vegetation Sol or Hydrology			Normal Circumstances' present? Yes X No	
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direphytic Vegetation Present? Yes_ dric Sel Present? Yes_	No	is the Sampled		
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GETATION – Use scientific names	Aliestato I	Dominant Indicator	Dominance Test worksheets	- 1
in Stralum (Ptot post	S Cover 3	Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)	
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olda/Shrub Silvinian (Plot size)		Торы Соунк	Percent of Dominant Species 100 (A/E)	9
9			Prevalence Index worksheet: Total % Cover of Mulliphy by DBL Species 20 x 1 = 20	
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rb Stratum (Pict size In of the	1. 70	Total Clover	UPL species x 5 =	1
Echinochles (nos-gal	15	TO FACIN	Column Tatala 85 (A) 90 (6)	
Sally MIGHE Schonia SA	5	TO NA	Prevalence Index = BIA a / 1.05 Hydrophytic Vegetation indicators:	4 11
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		==	Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)	41 11
1.40 M. 1 0.700	90	= Total Cover	Problematic Hydrophytic Vegetation (Espain)	
ody Vine Statum (Pint size;			*Indicators of trydric soil and welland hydrology must be present, unless dissurted as published.	4
	90	Total Cover	Hydrophytic	4
Bare Geourgi in) levels Stretum	% Cover of Biosc Cru		Vegetation Present? Yalk No	
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WETLAND ASSOCIATE LAXY ARGOD DIT ASSOCIATE LAXY ARGOD DIT ASSOCIATE LAXY ARGOD DIT ASSOCIATE LAXY ARGOD DIT ASSOCIATE LAXY ARGOD LAXY BOTH HARM NAT BOTH HARM NAT BOTH HARM SOL OF Hydrology MARY OF FINDINGS — Attach sill Reptryce Vegatation Present Ves	Frequency of plants. Absolute To Supplementary of the plants.	County: LOS / Chan, Township, Ran cal relief (concave, of 1907 Ves	Arid West Rogion TogUS Sampling Date: 7-7-7 State: CA Sampling Date: 7-7-7 State: CA Sampling Point: 1 Down UNSCHADOR From State: Stope (%): 2 Long: 117.41723L Date: 1 Des (If Ac, explain in Pizzanica) (If Ac	1 20° 1984

OIL		Sampling Paints //
Profile Description: (Describe to the dep	to needed to document the indicator or co	onfirm (he absonce of indicators.)
Depth Matrix	Redox Foatures	Teatine Remarks
(inches) Color (most) 16	Color (maint) 5 Type Li	
0-10 254 25/160	5 4124/6 40 C 1	m Soudy Learn
Tune DicConnectesting DePartmen BM	Reduced Matrix, CS+Covered or Couled Sa	and Grains. PLocation: FL=Pore Lining, M=Metric.
lydric Soil Indicators: (Applicable to all		Indicators for Problematic Hydric Soils':
Historial (A1)	Sandy Redox (S5)	1 cm Muck (AR) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Hasic (A3)	Learny Mocky Mineral (F1)	Reduced Variet (F18)
Sytrogen Sutide (A4)	Lizamy Gazyod Matrix (FZ)	Hod Parent Milimiai (TF2)
Stratified Layers (A5) (LRR C)	Declated Matrix (F3)	Oliver (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Recov Dark Surface (Fd)	
Depletod Below Dark Surface (A11)	Depleted Dark Surface (F7)	AND THE RESERVE AND ADDRESS OF THE PARTY OF
Thick Dark Surface (A12)	Redox Depressions (F8)	"Indicators of hydrophytic vegetation and
Sandy Mucky Mirtinal (S1)	Virmit Pools (F9)	welland hydrology must be present.
Sandy Gleyed Matrix (S4)		uning disturbed or problematic
Restrictive Layer (if present):		
		W
Depth (inches): NA-		Hydric-Soil Present? Yes No
Westland Hydrology Indicators: Primary Indicators (miscrams of one require		Secondary (validations (2 or more repréred)
Surface Water (A1)	Salt Crust (311)	Wainr Marks (B1) (Riverine)
High Water Tuble (A2)	Biodic Crust (B192)	Sediment Doposits (B2) (Riverine)
Salmmion (All)	Amutic Invertibratos (B13)	Drift Ellipositio (B3) (Riverine)
- Water Macks (B1) (Nonriverse)	Hydrogen Sulfide Oddr (C1)	Drainage Pailwrrv (B10)
Sediment Deposits (82) (Manrivaries)	Deduced Rhizosphyres along Livin	
Drift Deposits (B3) (Monriverine)	Presence of Reduced Iron (C4)	Crayfish Burrows (Cil)
Surface Soil Cracks (B5)	Recent fron Reduction in Titled So	
inundation Visible on Autol Imagory (B Water-Stained Leaves (B9)		Shallow Aquitard (D3)
	Dilyer (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:	2111	
THE RESERVE THE PROPERTY OF THE PARTY OF THE	No Depth (Inches): 2	
Water Table Present? Yes	No Depth (mones): SVC+nll	1
Saturation Present? Yes Y	No Depth (Miches): Swith LL	Wetland Hydralogy Present? Yes No
Describe Recorded Data (strillam gauto, Inc.	onboding walf, surial photos, previous inspect	Sonal Cavalible
Romarkii:		
SULLIER NO.		
(Ollier No.)		
CONTRACTOR.		
SOUTHER PROC.		
300 tab/92		
10/11/07/02		
		Arld Winst - Version
		Arld Winst - Version
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S. Асту Согра of Ейдэлнөгч		Add Winst - Verslim
		Arld West - Variable

			thu dopth	needed to docum			or confirm	n the absence of	indicators.)
Doptn (Inches)	Color int	latrix	-	Culos (moist)	K Felahardia	Type	lor2	Toetura	Hemarky
0-10	2541	5/1	100	NA	Δ _				- Control of
D-10	204 4		100	107	_				
					_	=			
				educed Matrix, CS RRs, unless other			od Sand C		on: PL=Pore Liring, M=Matrix: Problematic Hydric Solls*
_ Flutoso				Sandy Redi					k (AS) (LRR C)
	Epigedon (AZ)			Stripped Mr					x (A10) (LRR B)
	Histic (A1)			Loamy Muc					Vertic (F18)
	pen Sulfide (A4) ad Layara (A5)			Loamy Gley Depleted M		(FZ)			nt Malodai (TF2) pain in Ramana)
	fucil (A9) (LRR			- Rodox Durk		F(6)		_ cause (ica)	hans in Limitaria)
	ed Below Dark		(633)	_ Depleted Dr					
	bark Surtano (A			Fordox Dep		8)			ydruphytic vegetation and
	Mucky Mineral			Vernal Foot	s (F9)				pology ment be present,
	Gleyed Mabrix	1341							
			_		_			Transacian	provid to produce the con-
Restrictive	Layer (if pres			_				Tames Care	prod is promised.
Restrictive Type:	Layer (if pres								
Restrictive	Layer (if pres							Hydric Spil Pr	
Restrictive Type: Diepth (i Remarks: HYDROLO Wetland H Primary and	Cayer (if press notice): OGY ydrology India	Sent): NE	g (squiled;	check jil flut jood				Hydric Soil Pr	esent? Yes Ko Ro
Restrictive Type: Diepth (i Remarks: HYDROLO Wetland H Primary ind Surface	DGY ydrology India	cators:	a realisted;	Sall Crost	(B11)			Hydric Soil Pr	osent? Yes No
Restrictive Type: Depth (i Remarks: HYDROLO Wetland H Primary ind Surface High W	DGY oches): OGY sydrology India sizetors (mythology (M) Sydrology (M) Sydrology (M) Sydrology (M) Sydrology (M) Sydrology (M)	cators:	a realised;	Salt Crost Blotto Crus	(B11) ut (B12)	u (R1V)		Hydric Soil Pro	osent? Yes
Restrictive Type:_ Depth (i Remarks: HYDROLG Wetland H Primary and Surface High V Satura	DGY ydrology India liculars Anymore ydrology (A) liculars Anymore ydrology (A) liculars Anymore datale (A2)	cators:		Sall Crest Blotte Cres Aquable In	(B11) st (812) vertebrates			Hydric Soil Pro	posent? Yes
Restrictive Type: Depth (s Remarks: HYDROLO Wotland H Primary ins Surface High V Satura Wotar	DGY oches): OGY sydrology India sizetors (mythology (M) Sydrology (M) Sydrology (M) Sydrology (M) Sydrology (M) Sydrology (M)	cators:	10)	Sall Creat Bloto Crus Aquable In Hydrogen	(B11) ut (B12)	for (Q1)	Living Ro	Seconds Seconds Sadi Dist	osent? Yes
Restrictive Type: Depth (i Remarks: HYDROLO Wotland H Private India Surface Lift(i) V Satura Woter Seding	DGY ydrology India liculars towner b Water (A1) Varent Table (A2) klan (A3) Marsa (01) (No.	cators:	to)	Salt Creat Biotec Creat Aquable in Hydrogen Oxidized F	(B11) st (B12) verlebrates Suffice Od	for (C1) ms along		Seconda Second	posent? Yes No
Rentrictive Type: Depth (i Remarks: HYDROLC Westland H Private India Surfac Surfac Surfac Lent Surfac Surfac	OGY ydrology India licators common o Vister (A1) Marks (01) (Marks (01) Marks (03) (Marks (03) Marks (03) (Marks (cators: cator cators: cators: cators: cators: cators: cators: cators: cators:	ro) risterios)	Sall Creat Bione Crus Aquable in Hydrogen Oxidized F Presence Recont for	(B11) at (B12) vertebratas Sutfide Od thizaspase of Reducation refeducation	for (C1) ms along d fron (C on in Title	4)	Seconda Seconda Seconda Sed Doral Drait ota (OS) Cray	osent? Yes
Rentrictive Type: Depth (i Remarks: HYDROLC Wetland H Primary Ind Surface Hygh V Satura Bedine Dent D Surface Insuring	DGY ydrology India licatols (mones of Visite (11) Value (13) Value	cators: um of on the cators to cator	ro) risterios)	Eall Crust Globe Crust Aquable in Hydrogen Oxidized F Presence Recont for	(B11) at (B12) verlebratas Sulfide Od thizosphen at Reducas in Reducas Surfara (C	for (C1) ms along d from (C on in Tota C7)	4)	Seconda Seconda Seconda Seconda Seconda Seconda Seconda Seconda (CS) Drata Seconda (CS) Seconda Second	posent? Yes No
Rentrictive Type: Depth (i Remarks: HYDROLG Wettand H Primary: Ind Surface High V Satura Vettar Gedine Limit D Surface High W Wettand W Wettand W W W W W W W W W W W W W W W W W W W	DGY ydrology India licators (minor a Visitar (A1) vare Table (A2) lion (A3) danni Deposits (A3) o Seji Carcia p desor Visitar (A3) danni Deposits	cators: um of on the cators to cator	ro) risterios)	Eall Crust Globe Crust Aquable in Hydrogen Oxidized F Presence Recont for	(B11) at (B12) vertebratas Sutfide Od thizaspase of Reducation refeducation	for (C1) ms along d from (C on in Tota C7)	4)	Seconda Seconda Seconda Seconda Seconda Seconda Seconda Seconda (CS) Drata Seconda (CS) Seconda Second	osent? Yes No
Rentrictive Type: Depth () Remarks: HYDROLS Westand H Primary ins Surface High V Satura United Surface High V Westand High V Westand High V Westand High V Satura V High V Satura High V H High V H H H H H H H H H H H H H H H H H H H	DGY ydrology India (isala): Common o'Viller (A): Valer Table (A2 ion (A3) o'Solid (A3) (N o'So	cators: um of on the cators to cator	ro) risterios)	Sell Creat Biotic Creat Aquable in Hydrogon Oxidiant Presence Recont to This Muck Other (Ex	(B11) at (B12) vertebralas Suffice Od thizasance of Reduction in Reduction Surface (Cotala in Rer	for (C1) ms along d from (C on in Tota C7)	4)	Seconda Seconda Seconda Seconda Seconda Seconda Seconda Seconda (CS) Drata Seconda (CS) Seconda Second	posent? Yes No
Restrictive Type: Depth (s Remarks: HYDROLC Wotland H Primary and Surface High W Satura Surface Limit Limit Surface Institute Surface	Layur (if pre- product): OGY ydrology India licators (mines a Wilder (A1) Waser Table (A2) Mansa (01) (incl depocals (83) (in depocals	cators: um of on the cators to cator	ro) riverima)	Sell Creat Blone Creat Aquatic in Hydrogen Coulding F Presence Reconfine This Muck Other (Ex	(B11) at (B12) vertebralas Suffido Od fibizosphori of Reductio in Reductio in Surface (Cotalin in Ror criso): 2	for (C1) ms along d from (C on in Tota C7)	4)	Seconda Seconda Seconda Seconda Seconda Seconda Seconda Seconda (CS) Drata Seconda (CS) Seconda Second	posent? Yes No
Hydrology of the control of the cont	DGY ydrology India licates (months) ydrology India licates (months o Wilder (A1) Marks (01) (Months (01) Marks (cators: um of on the cators to cator	ro) riverima)	Sell Creat Blote Crus Aquabs in Hydrogen Oxidenal 7 Presence Recont to This Muck Other (Ex) Depth (in	(B11) at (B12) vortebratas Sutfido Od thizasanon at Reducato n Reducato Starfara (C plain in Ror crius): 2 chess):	for (C1) ms along d from (C on in Tota C7)	4) of Solin (C	Seconda Wald Sed Drat Ora (5) Ora FAC	posent? Yes No
Restrictive Type: Depth (i) Fernarka: HYDROLG Wetland H Pringar, ind Satura Wetland Limit D Satura Wetland Wetland Hight Wetland Hight Obas Selfand Wetland Hight Obas Selfand Wetland Hight Obas Selfand Wetland Hight Obas	Layer (if pre- process) OGY yydrology India (isoto)s (minimum yydrology India (isoto)s (minimum yydrology India (isoto)s (minimum yydrology India (isoto)s	cators: Cat	no) chesics) nomy (87)	Sell Creat Blone Creat Aquatic in Hydrogen Coulding F Presence Reconfine This Muck Other (Ex	(B11) at (B12) verlebratas Sulfide Od thizosphore of Reducation Reducation Surface (Colonia in Re- critica) ches):	for (G1) ms along d from (G on in Tate G7) marks)	4) d Solls (C	Feccand of the control of the contro	osent? Yes Ko No. No. No. No. No. No. No. No. No. No
Restrictive Type: Depth (i) Fernaria: Wetland H Primary Ind Satura Water High W Satura Water High W Water Tebl Settration (includes c	Layer (if pre- process) OGY yydrology India (isoto)s (minimum yydrology India (isoto)s (minimum yydrology India (isoto)s (minimum yydrology India (isoto)s	cators: Cat	no) chesics) nomy (87)	Sell Crest Blocc Cour Aquable In Fydringen Oxidized F Presence Record to This Muck Other (Ex	(B11) at (B12) verlebratas Sulfide Od thizosphore of Reducation Reducation Surface (Colonia in Re- critica) ches):	for (G1) ms along d from (G on in Tate G7) marks)	4) d Solls (C	Feccand of the control of the contro	posent? Yes No
Restrictive Typet, Copth (Cop	Layer (if pre- process) OGY yydrology India (isoto)s (minimum yydrology India (isoto)s (minimum yydrology India (isoto)s (minimum yydrology India (isoto)s	cators: Cat	no) chesics) nomy (87)	Sell Crest Blocc Cour Aquable In Fydringen Oxidized F Presence Record to This Muck Other (Ex	(B11) at (B12) verlebratas Sulfide Od thizosphore of Reducation Reducation Surface (Colonia in Re- critica) ches):	for (G1) ms along d from (G on in Tate G7) marks)	4) d Solls (C	Feccand of the control of the contro	posent? Yes No

May Unit Name: NA	1	ion, Township, Ran	state CA Samping Point: 13
Map Unit Name: NA	M 33.95	1907	солуек, none): N9N6 Slope (%): ≈27ь Long: 119.4172.84° Datim: 1/45.1984
affected to the state of the st	0-07		NWI classification: NONE
climatic / hydrologic conditions on the stie typical for this t			
Vegetation 5cil a Hydrology sign			Normal Cocumutarious" present? YesX No estud, explain any antweix in Remarks.)
			ocations, transects, important features, etc.
pdrophysic Vagetation Present? Yes No.			
retric Soil Present? Yes No. No.		is the Sampled within a Watter	
enand Eydrology Present? Vos X No.			
CETATION Has released a service			
GETATION - Use scientific names of plants	Absolute De	minant Indicator	Dominanon Tost worksheet
go-Simum (Plot state)	% Cover So	ociot? Sintun	Number of Dominant Species That Are CBL, FACW, or FACI. (A)
			Total Number of Dominant
			Species Across All Strate (6)
colles/Strub-Stratum (Plet nive:		chi Cover	That Are OBL FACW, or FAC: 100 QAVB)
	_		Prevalence Index worksheet: Yotal % Cover pt, Multiply by:
			OBL spendes 40 x1= 40
	_	_	FACW species 15 + 2 = 45
est Statum (Pict stee 10 Alann		olat Cowie	YACU species x4 =
Pohymon Tapa Prifolium	40.	Y OBL	Distant Totals: SS (A) &5 (B)
Conyze Comadence	15 1	n FAL	1-5
The state of the s	3	- 1 - 1	Hydrophytic Vegetation Indicators:
			Dominance Test is >50% Prevalence index is ±3,0*
Scientifica Windows (1994) 12	55 -	Fotal Cover	Problemutic Hydrophytic Vegetation ⁷ (Exp(ain)
Voorly Vine Stratum (Plot size:	1,70		*Indicators of hydric soll and well and hydrology must be present, unless disturbed or posterioristic;
	55.	Total Cover	Hydrophytic
6 Bare Ground in Heib Stratum 457 = Cover	uf Blotic Crust	110-	Vegetation Present? Yes Wo
Amarks:			
			- Arid West Region
MUSIUM LAX/ARGIO DITCH	Caylo	come Los A	Angeles Sampling Date 7-7-11 State: CA Sampling Point: 14
MUSIUM LAX/ARGIO DITCH	Caylo	come Los A	Angeles Sampling Date 7-7-11 State: CA Sampling Point: 14
ANTARGIO DITCH CONTONIONIONIONIONIONIONIONIONIONIONIONIONIO	thin sour	on. Township, Run	Angles Sempling Date 7-7-11 Sillo: CA Sempling Point 14 OR LOCATORING MODEL 15 OR LONG THE STREET STREET STREET LINE THE STREET STREET STREET LINE THE STREET STREET STREET STREET LINE THE STREET STREET STREET STREET STREET LINE THE STREET S
ACUSTIN LAN/ARCHO DITCH BOUNDAMER LA EVA MORRORIA TILDOTULKUMAD/J FITZAJA MORRORI PANUDO, BETUALA MOJ DYA KASE DITC MORRORIANI MISO MORRORIANI NA NA	Cayro to Luci Luci 33.45	on Township, Run I nativit (concave, o	Angles Sempling Date 7-7-11 Sillio CA Sempling Point 14 ON MECHANICAL ONLY POINT NO. 117, 4172.84* HWI CHARSTELLIDIN NO. 15 HWI CHARSTELLIDIN NO. 15
AUSTRIA LAY ARCHO DITCH AUGUSTANIA TO THE THE STANDA TH	CANCE CANCEL COLOR CANCEL COLOR CANCEL CANCE	on Township, Fundamental (concessor, of 1907)	Trocks Semples Pale 7-7-11 Setto CA Semples Pole 14 Setto CA Semples Pole 14 Setto CA Semples Pole 22 Sept 19 19 19 19 19 19 19 19 19 19 19 19 19
AUSTIN LANARGIO DITCH CONTONNO LANA MASSACRIA MASSAC	CANCE CANCEL COLOR CANCEL COLOR CANCEL CANCE	on, Township, Ran I rain! (concave, o 1907	Trocks Semples Pale 7-7-11 Setto CA Semples Pole 14 Setto CA Semples Pole 14 Setto CA Semples Pole 22 Sept 19 19 19 19 19 19 19 19 19 19 19 19 19
ACUSTION LANDARCHO DITCH ACUSTION LANDARCHO DITCH ACUSTION LANDARCHO LANDARC	CANCE CONTROL	on Township, Fair I refut (concave, of 1907 (See X No rood? NO Are?)	Angels Sempting Pate 7-7-11 Stitles CA Bempting Point 14 get Un Lest-ture of Stope Pair 227 JOHN 19.4172.34 Catam. P. 45.19.84 MY classification: NONE Memory organism Remarks. Merchal Cocontainer's Present? Yes X No.
AND	CANCE CONTROL	on Township, Fair I refut (concave, of 1907 (See X No rood? NO Are?)	Static CA Sempting Pate 7-7-11 Static CA Sempting Poot 14 ge Un Lect-tured Stope (N): 2270 NOW Charge Walk Stope (N): 2270 NOW Charge Walk Cather (9 45 19 84 NOW Charge Walk Pate (N) NOW Charge Walk Pate (N) Now Control (N) Now Control (N) Now Cather (N) Now Control (
COUNTERNE LAY ARCHO DITCH AND A HOSSING LAY ARCHO DITCH AND A HOSSING AND A FIRE AND A FIRE AND A HOSSING AND A HO	CANCE CONTROL	on Township, Fam. I relimit (concave, of 1907) (See X No bod? No Are 11 ales? No ill ales? No	Angles Sempling Pale 7-7-11 Sittle: CA Sempling Park 14 Get Un Lectured Stope (At 227) Linea 119.41728 Stope (At 227) Linea 119.41728 Castim 19.55 [534] HW descination: Now Sempling (At 257) Horman Coccentrations' present? Yes, No. 100, 100, 100, 100, 100, 100, 100, 100
COUNTERNE LAY ARCHO DITCH AND A HOSSING LAY ARCHO DITCH AND A HOSSING AND A FIRE AND A FIRE AND A HOSSING AND A HO	CANCE CONTROL	on Township, Ran I mind (concave, 6) 1907 (*** ** No	Angles Sempling Pale 7-7-11 Sittle: CA Sempling Park 14 Get Un Lectured Stope (At 227) Linea 119.41728 Stope (At 227) Linea 119.41728 Castim 19.55 [534] HW descination: Now Sempling (At 257) Horman Coccentrations' present? Yes, No. 100, 100, 100, 100, 100, 100, 100, 100
COUNTERNE LAY ARCHO DITCH AND A HOSSING LAY ARCHO DITCH AND A HOSSING AND A FIRE AND A FIRE AND A HOSSING AND A HO	CANCE CONTROL	on Township, Ran I mind (concave, 6) 1907 (*** ** No	Angles Sempling Pale 7-7-11 Sittle: CA Sempling Park 14 Get Un Lectured Stope (At 227) Linea 119.41728 Stope (At 227) Linea 119.41728 Castim 19.95 19.84 Mention of Pale 119.41728 No. 19.45 Million, expain in Remains Normal Cecometamoral present? Yes, No. 19. 100-04, expain any acceptant in Remains) pocations, transects, important features, etc. Area
AND AND DITCH AND	Cayon Seeta A Liceus Liceus Communication Co	on Township, Ran I mind (concave, 6) 1907 (*** ** No	Angles Sempling Pale 7-7-11 Sittle: CA Sempling Park 14 Get Un Lectured Stope (At 227) Linea 119.41728 Stope (At 227) Linea 119.41728 Castim 19.95 19.84 Mention of Pale 119.41728 No. 19.45 Million, expain in Remains Normal Cecometamoral present? Yes, No. 19. 100-04, expain any acceptant in Remains) pocations, transects, important features, etc. Area
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AND	Cayro	on. Tomstep. Rain telled (concave, of telled (Sempling Plate 7 - 7 - 11 Stitles CA Sempling Post 1/4 ge Un Extructed Stope (A): 22 7 o JONES 119 - 4172.34 Castern: 1/4 5/5 1/9 8*4 MM classification: Moule MM classification: Moule MM classification: Moule MM classification: Moule Millino, existin Remarks.) Nocations, transects, important features, etc. Area Area 477 Yes No. Olyminance Tost worksheet: Number of Dominiance Tost worksheet: Number of Dominiance (A) That Aro Old, 1/4/10, 47 PACS. A (A)
AND	Cayro	An. Tomstey, Ran An. Tomstey, Ran An India (Concave, 6 1907 Test No. Dod'f No. See 'I no Matter NO et sus Matter NO It sus Matter NO Within a Wildian	Sempling Plate 7 - 7 - 11 Stitles CA Sempling Post 1/4 ge Un Extructed Stope (A): 22 7 o JONES 119 - 4172.34 Castern: 1/4 5/5 1/9 8*4 MM classification: Moule MM classification: Moule MM classification: Moule MM classification: Moule Millino, existin Remarks.) Nocations, transects, important features, etc. Area Area 477 Yes No. Olyminance Tost worksheet: Number of Dominiance Tost worksheet: Number of Dominiance (A) That Aro Old, 1/4/10, 47 PACS. A (A)
AND	Capic South Local Lar 33.95 In Older of Market And Capic And Capic Absolute Ab	county Los / no. Formster, Fair not relief (concave, of 1907 Tem Mo Ann In Medican policy Ann In Medican within a Welfan round indicate. Date: Date	Semples Semples Date 7-7-11 Setto CA Semples Post 14 Set On Section 16 Set On Section 16 Set On Section 16 Set On Section 17 Set On Section
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AVAIRA LAY ARCHO DITCH COMPONENCE LA WA MISSIONESS THE TAY A CONTROL OF THE ARCHO DITCH RESIDENCE TO THE ARCHO DITCH RESIDENCE THE ARCHO DITCH RESI	Capic South Local Lar 33.95 In Older of Market And Capic And Capic Absolute Ab	county Los / no. Formster, Fair not relief (concave, of 1907 Tem Mo Ann In Medican policy Ann In Medican within a Welfan round indicate. Date: Date	Semples Semples Date 7-7-11 Setto CA Semples Post 14 Set On Section 16 Set On Section 16 Set On Section 16 Set On Section 17 Set On Section
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US Army Curpe of Engineers

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_ Sandy !	Mucky Mineral (\$1)		Vernal Pools (F9)			watland hydrology must be present.	
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Profile Description: (Describe to the dec	th needed to document the indicator or o	confirm the absence of indicators.)
Depth Maute	Redox Features	
(inches) Cotor (moint) %	Color (moint) % Type 1	oc Texture Remarks
0-12 25 25/1	Areas OF G	leyed Sound + organics
Type: C=Contentration, D=Depicton, RM	Reduced Matrix, GS*Covered or Coated S	
Hydric Soil Indicators: (Applicable to all		Indicators for Problematic Hydric Soils*:
Histasul (A1)	Sandy Redice (55)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Mick (A10) (LRR 8)
Black Histic (A3)	Laberry Mucky Mineral (F1)	Reduced Vertic (F13)
Hydrogen Sulfide (A4)	Lourny GWyod Mittor (FZ)	Red Parent Material (TF2)
Stratified Layora (A5) (LRR C)	Depleted Matrix (F3)	Offier (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redex Dark Surface (F6)	
Deploted Below Dark Surface (A11) Thick Dark Surface (A11)	Depleted Dark Switate (F7) Radox Depresalons (F8)	Contract of the second of the second
Snorty Mucky Mineral (S1)	Vernal Profs (FS)	***Scates of hydrophysic vegetation and
Sandy Gleyed Marity (64)	Aguat Luote (La)	walland hydrofogy misst be present. unless disturbed of problematic.
Restrictive Layer (if present):		windse disturbed or problemistic
Type:		
	_	V
Dupiti (ricrina): Recontită:		Hydric Soil Present? Yes
Dupth (Inclus): Recorbis:		Hydric Soil Present? Yes X No No
Dupth (Profins): Bernetha: IYDROLOGY		Hydric Soil Present? Yes
Dupth (Profes): Remarks: HYDROLOGY Wetland Hydrology Indicators:		
Depth (notina): Removika: IYDROLOGY Wetland Hystrology indicators: Primary indicators of oce require	of, choos all that acety)	Hyddic Soil Present? Yes
Depth (rection) Remoliss: HYDROLOGY Wetland Hydrology indicators: Primer politicator invinces of one require Surface Wate (A)	Satt Crust (B11)	
Dupit (prefina): Removalia: HYDROLOGY Wettand Hydrolingy Indicators: Filmers Indicators indicators of one results furface Water (AS) High Wilder Table (AZ)		Secondary Indicatoriu. Z.o. mism Incodemni
Daysti (ruchas) Remolas RYDROLOGY WetSand Hydrology indicators: Primer Indicators: Surface Visite (AS) High Visiter Table (A2) Saturation (A)	Satt Crust (B11)	Seccessivs Indication, I.C.o. mism tocophesis Woler Marks (B1) (Reventes)
Doyalt (prefina): Remorals: HYDROLOGY Wetland Hydrology Indicators: Primery Indicators indicators of one results Eurosco Water (AS) High Wister Table (A2) Salvardon (A3) Waler Marks (B1) (Montiversine)	Set Crust (B11) Basic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sutrice Oder (C1)	Secondary Indication, LE-o-mises Incomess) Whate Makes (B11) (Revertee) Second Deposits (B2) (Revertee)
Dugit (rucha) Remula: WDROLOGY Wattand Hydrology indicators: Primary Indicators: Surface Value (A) High Watter Table (A) Water Marts (B) (Manfverina) Sediment Deposits (B) (Monfverina)	Set Crust (B11) Basic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sutrice Oder (C1)	Secondary Indicators J2-or roses troopiess) White Maks (B1) (Reventee) Sectional Deposits (E2) (Reventee) Distract Parties (E3) (Reventee) Distract Parties (B10)
Depth (nctina): Remolita: HYDROLOGY Wetland Hydrology Indicators: Primer Jodicator Imministration of one results Surface Water (A1) High Water Table (A2) Sahusidion (A3) Water Mark (B1) (Menriverina) Sediment Deposits (B3) (Menriverina) Drift Deposits (B3) (B1)	Set Crust (B11) Bosic Crust (B12) Aquatic Invertibilitates (B13) Liydrogen Sutrice Oder (C1)	Secondary Indicators J2-or roses troopiess) White Maks (B1) (Reventee) Sectional Deposits (E2) (Reventee) Distract Parties (E3) (Reventee) Distract Parties (B10)
Depth (ncrina) Remeila: WEstand Hydrollegy Indicators: Philmor Indicators imminents of one results Surface Vistor (A1) High Water Table (A2) Submitted (B1) (Montherina) Sediment Deposits (B2) (Montherina) Drift Deposits (B3) (Montherina) Sufface Sed (Crosks) (B3)	Satt Crant (B11) Blobe Creat (B12) Aquation invention attention (B13) Lightneyer Suttion Odor (C1) Oxistated Rhimaginess along LM Presence of Reduced Iron (C4) Bacant Iron Reduction in Illines 3	Secondary Indicators, I.S. c. mices toopless) Water Maks (B1) (Riverlae) Sectional Deposite (82) (Riverlae) Drift Deposite (82) (Riverlae) Drange Patterns (83) (Riverlae) Dry Season Water Table (22) Ory-Season Water Table (22)
Degati (rectina): Records: IYDROLOGY Wetland Hydrolegy Indicators: Primer (retinators immirrate of one results Eurinan Wester (A1) High Water Table (A2) Sahusdon (A3) Water Mark (B1) (Menriverina) Sediment Deposits (B2) (Monriverina) Drift Deposits (B3) (Bonferente)	Satt Crant (B11) Blobe Creat (B12) Aquation invention attention (B13) Lightneyer Suttion Odor (C1) Oxistated Rhimaginess along LM Presence of Reduced Iron (C4) Bacant Iron Reduction in Illines 3	Secondary Indicators, I.S. c. mices toopless) Water Maks (B1) (Riverlae) Sectional Deposite (82) (Riverlae) Drift Deposite (82) (Riverlae) Drange Patterns (83) (Riverlae) Dry Season Water Table (22) Ory-Season Water Table (22)
Depth (ncrina) Remeila: WEstand Hydrollegy Indicators: Philmor Indicators imminents of one results Surface Vistor (A1) High Water Table (A2) Submitted (B1) (Montherina) Sediment Deposits (B2) (Montherina) Drift Deposits (B3) (Montherina) Sufface Sed (Crosks) (B3)	Satt Could (B11) Blobs Coast (B12) Aquatic Invertebrates (B13) Liydrogen Suthise Odor (C1) Oxidized Ribinophress along List Presence of Reduced trois (C4) Blocart tron Recruicion in Clites S	Secondary Indications I.E.o. mises Economics Wither Masks (B1) (Rivertine) Secondared Depositing (B2) (Rivertine) Derif Depositing (B3) (Rivertine) Dramage Patterns (B10) Dry-Seasces Viscer Vasios (C2) Crryfalt Burnews (C8) Sampleon Vasios of Arelial Indicary (C5) Ottin (C6)
Degeti (nortina): Rierceillas Wettaland Hydrollegy Indificatorss: Philips Visitacions imministratin, of one reculars Burland Water (A1) High Water Table (A2) Sachasation (A5) Water Martin (B1) (Montiversina) Softman Decoults (S1) (Montiversina) Softman Decoults (S1) (Montiversina) Softman Decoults (S1) (Montiversina) Softman Soft Croada (S8) Innuarison Visitatio en Aemal Integery (B Water Statinat Laurew (B8)	Set Crisis (1915) Biole Crisis (1915) Biole Crisis (1913) Aquatic inversion rates (1913) Injertogen Suttina Color (C1) Didition Philipsophies along List Presence of Reduced trics (C4) Biocard tion Recording in Bleed Set	Secondary Indicators, I.S. c. miles toppymin Weler Maxas (B1), Silvertine) Sectional Deposits (32) (Rivertine) End Deposits (32) (Rivertine) Drawge Patterns (33) (Rivertine) Dry-Season Meser Table (32) Ory-Season Meser Table (32) Ory-Season Meser Table (33) Ory-Season Meser Table (33) Ory-Season Meser Table (33) Ory-Season Meser Table (35)
Depth (Profiles) Remeilles: Wettland Hydrology Indicators: Primery lettication immirrant of one require fundament of the profiles of the state (%) High Water Table (A2) Water Marks (81) (Montiverine) Sediment Descolat (92) (Montiverine) Sediment Descolat (93) (Montiverine) Sediment Descolat (93) (Montiverine) Sediment Descolat (93) (Montiverine) Surfaxs Sed Cracks (68) surfaxs Sed Cracks (68)	Set Crisis (1915) Biole Crisis (1915) Biole Crisis (1913) Aquatic inversion rates (1913) Injertogen Suttina Color (C1) Didition Philipsophies along List Presence of Reduced trics (C4) Biocard tion Recording in Bleed Set	Secondary Indicators I.S.o. moins troplems) Wither Maxis. (B1) (Severine) Sectional Deposits (32) (Riverine) Ent Orpisals (ISS) (Riverine) Drawpe Patterns (ISS) (Riverine) Drawpe Patterns (ISS) Orpisals (ISS)
Dugitt (ricrina) NDROLOGY Weddand Hydrollegy Indicators: Primer Jediscon Imministrating of one results Euricana Water (A1) Hylly Wister Taulor (A2) Saturation (A3) Softman Descublic (92) (Montiverina) Finance (Main Production (Production Imministration Vision Vision Imministration Visi	Sett Clark (1915) Bioloc Centr (1915) Aputation were inferred (1915) Injeriospe in Suttina Code (1915) Injeriospe in Suttina Code (1915) Oddatod Plainsgirmous Javong Luk Presentica of Reduction of Injeriospe in February Injeriospe in Terransia (1916) Injeriospe in Terransia (1916) Injeriospe in Terransia)	Secondary Indicators, I.S. or more tooleren) Woter Mans, (B1) (Swortine) Socimont Deposits (32) (Riverine) End Organia (33) (Riverine) Dry Genas (33) Cry-Season Mater Table (23) Cry-Season Mater Table (24) Cryfist Burnwey Saturdion Valdee on Aenial Indiquiry (C) Saturdion Valdee on Aenial Indiquiry (C)
Depth (Profiles) Remedia: Withdate Hydrolingy indicators: Politics / Indicators: District / Value / Indicators: District / Indica	Sett Clark (1911) Bioloc Cenet (1912) Aquation invariant (1913) Aquation invariant (1913) Injertoejen Suttles Goto (CT) Oddetoe Riphinespirens along Luk Presentica of Reduced then (C4) Blacent ten Reducation in (1944) S 101 Then March Sentinian (1971) Then March Sentinian (1971) Tober (Coptinian) Degra (Retenan) Degra (Retenan) Degra (Retenan) Degra (Retenan) Degra (Retenan)	Secondary Indicators (L.c. mises toppinal) Wither Mans (B1) (Nevertine) Sections Depositin (G2) (Rivertine) District Depositin (G3) (Rivertine) District Depositin (G3) (Rivertine) District District (G3) Section Applied (G3) FAC-Meutral Test (D3) Westland Hydrology Prosent? Vea No
Degal (rechas) Remelas RYDROLOGY Wettend Hydrology indicators: Primary Indicators: Surface Water (AS) High Vulser Table (A2) Surface Water (AS) Water Marks (B1) (Remiverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Sediment Deposits (B3) (Nonriverine) Surface Sed Torcks (B8) toundarion Valida on Annal Ymagov (B Water Table Present? Ves Water Table Present? Ves Saturdion Freent? Yes Saturdion Freent? Yes Saturdion Freent? Yes Saturdion Freent?	Sett Color (1911) Bioloc Count (1912) Aquatic inversion infection (1913) Aquatic inversion for (1913) Injeriospin Suthos Color (CT) Odistor Bit insegerous ulang Lish Presentics of Reduced from (C4) Blacant for Reduced from (C4) Blacant for Reduced (1917) The Mark Settlicus (197) Other (Colories) Into Depth (Internal) Set (Sections) Set (Sections)	Secondary Indicators I.E.o. moins tocoperary Whiter Manss (B1) (Nevertine) Sections Deposite (B2) (Revertine) Deliver Deposite (B2) (Revertine) Deliver Deposite (B3) (Revertine) Deliver Partners (B10) Deliver Table (C2) Ory-Season Mater Table (C3) Ore (C6) Saturation Valuer (D4) FAC-Neutral Test (D0) Westland Hydrology Present? Yes A No
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entigatorio): TBONKAMP/J. Fis natioon primatopo, tarraco, etc.: Diasnass. I	DIFCH LOCALINATION (CONCAVA	CONTINUE SODE (M) 22
DIDENTIFIED MED.	(# 33.451907"	100g - 117.417286" Date DGS 19
Map Unit Name: _NA	V	1999 classification: NONE
comatic / hydrologic conditions on the site typical		(If no, nyplain in Romarkin)
Vegetation Set or Hydrology		"Normal Circumstances" presently Yes X No
Vegetation Self selfythology	naturally problematic3 (pro	seeded, explain any sociatre in Heroarke)
IMMARY OF FINDINGS - Attach site of	map showing sampling point	locations, transects, important features, etc.
ydrophytic Vegetation Present? Yes	No ts the Sample within a Wetti	
omake The channel	L IS SIMILAR	From Pt 15 to
Class 4		TO Out
THE WAY OF WHITE	inlet at we	siong
EGETATION - Use scientific names of	plants.	
iee Stratum (Plet exec.	Absolute Dominant Indicator	
ine Stratum (Pict was:	% Cover Species? Status	Number of Deniheard Species That Are ORL, FACW, or FAC. (A)
		Total Number of Dominant Species Agress All Strata (B)
	- Total Cover	Perpend of Deminarit Species That Are DBL, FACW, or FAC: (NB)
SphraShrubStrakim (Plot size:		Providence Index worksheet:
		Total % Cover of: Multiply by:
		OBL modes K1=
		FACW species 82*
		FAC speciese3 =
Sup Straum (Pier size: 10 Deann	= Total Cover	FACU species 64*
Ecodism Botrys	30% Y UP	UPL spaces 90 x5+ 4.50
Contaurea Solstitiales	2070 4 110	Geliann Totals 90 (A) 450 (B)
Bramus diandrus	30 V UPL	Prevalence Index = H/A = 5, 5
Loliva MULTIPLIUM	5 h 1) P	Hydrophytic Vegetation Indicators:
Avene Latia	5 N UP	
		Fravalance Index is <3.01
		Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
-	90 - Total Cover	Problematic Hydrophytic Virgitiation (Explain)
Abody Vine Stratum (Plot size:	- Took Covin	
L		¹ Indicators of trydific soil and wetland hydrology must be present, unless disturbed or problem size.
2		_
	= Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum 5	Cover of Blood Crust	Present? Yes No
Rimen/ka:		

confirm the absence of indicators.)
Loc Texturo Remarko
no redux
1000
Sand Grains - Recation: PL=Pore Univer, M=Matrix
Indicators for Problematic Hydric Soils
1 cm Mack (A9) (LRR C)
2 cm Mock (A19) (LRR B)
Reduced Vertic (F18)
Red Parent Melenal (TF2)
Other (Explain in Romance)
*Indicators of hydrophytic vegetation and
wetland hydrology must be present;
unters disturbed or problematic.
Hydric Soll Present? Yes No.X
regions state Presents: 145 day.
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Sacondary Indicators 22 or maco zonamon.
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Saccodary Indicators IZ of mice zoolusion White Marin, (81) (Riversine) Sectional Disposite (32) (Riversine) Dist Deposite (33) (Riversine) Oralinge Patterns (810) Ang Riccis (C3) — Dre-Senson Walter Table (C2)
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Attachment 2 Preliminary Jurisdictional Determination Form

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

District Office Los Angeles District File/ORM #	PJD Date: Jun 5, 2012
State CA City/County Los Angeles	Name/ Los Angeles World Airports
Nearest Waterbody: Pacific Ocean	Address of One World Way Person Los Angeles, California 90045
Location: TRS, LatLong or UTM: 33.950364 -118.432967	Requesting PJD
Non-Wetland Waters: Stream Flow: On the Section	of Any Water Bodies Tidal: none e Site Identified as ction 10 Waters: Non-Tidal: none
XXX (1 1 1 C) COWALCHII I	Office (Desk) Determination Field Determination: Date of Field Trip: TBD
SUPPORTING DATA: Data reviewed for preliminary JD (check a and requested, appropriately reference sources below): ✓ Maps, plans, plots or plat submitted by or on behalf of the application of the specific plate as sheets prepared/submitted by or on behalf of the application of the concurs with data sheets/delineation report. ✓ Office concurs with data sheets/delineation report. ✓ Office does not concur with data sheets/delineation of the application of the properties of the corps. ✓ Corps navigable waters' study: not applicable of the applicable of the properties of the applicable of the properties of the propert	pplicant/consultant: included in JD Report ant/consultant. report. ewood . Citation: not available n 2011 JD Report ET: 980015100JLB lephemeral areas
Signature and Date of Regulatory Project Manager (REQUIRED)	Signature and Date of Person Requesting Preliminary JD (REQUIRED, unless obtaining the signature is impracticable)

${\bf EXPLANATION\ OF\ PRELIMINARY\ AND\ APPROVED\ JURISDICTIONAL\ DETERMINATIONS:}$

- 1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.
- 2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; a

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

Appendix A - Sites

CA City/County Los Angeles Person Requestinq PJD Los Angeles World Airp Site Number Latitude Longitude 1 33.950364 -118.432967 Palustrine, emergent 1 33.950364 -118.432967 Riverine 2.45 acres Ephemeral Channel Notes:	t Office	Los Angeles Distric	t File/ORM #			PJD Date: Jun 5, 2012
Site Number Latitude Longitude Cowardin Class Aquatic Resource in Review Area Class of Aquatic Resource in Review Area Class of Aquatic Resource in Review Area 1 33.950364 -118.432967 Palustrine, emergent 1.33 acres Emergent Wetlands 1 33.950364 -118.432967 Riverine 2.45 acres Ephemeral Channel	CA	City/County Los Ar	ngeles	Pe	erson Requestinq	PJD Los Angeles World Airports
1 33.950364 -118.432967 Riverine 2.45 acres Ephemeral Channel		er Latitude	Longitude	Cowardin Class	Aquatic Reso	urce Class of
	1	33.950364	-118.432967	Palustrine, emergent	1.33 acres	Emergent Wetlands
Notes:	1	33.950364	-118.432967	Riverine	2.45 acres	Ephemeral Channel
Notes:						
Notes:						
Notes:						
Notes:						
The Argo Drainage Channel includes areas of emergent marsh typically associated with drainage outfalls and associated dry-weather flows and areas of dry ephemeral channel that are unvegetated or vegetated with upland weeds.						