Runway 6L-24R and Runway 6R-24L Runway Safety Area and Associated Improvements Draft EIR

Appendix D

Jurisdictional Delineation

Jurisdictional Delineation Report Los Angeles International Airport Proposed Runway 6L-24R and Runway 6R-24L Safety Area and Associated Improvements Project

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1.0 INTRODUCTION

1.1 Project Location

Los Angeles International Airport (LAX) is located in the southwestern portion of the County of Los Angeles, adjacent to the Santa Monica Bay and 14 miles southwest of downtown Los Angeles (Figure 1.1-1, *Regional Vicinity Map*). The LAX airfield is located entirely in the City of Los Angeles, Los Angeles County, California, as depicted on the United States Geological Survey (USGS) Venice Quadrangle, within the boundaries of Township 2 South and Township 3 South and Range 14 West and Range 15 West. The airfield lies within the Sausal Redondo Land Grant Boundary and is bordered to the north by Westchester Parkway, to the east by Aviation Boulevard, to the south by Interstate 105, and to the west by Dockweiler Beach State Park. Cities surrounding LAX include Los Angeles to the north, Inglewood to the east, and El Segundo to the south. LAX encompasses approximately 3,350 acres with a field elevation of 126 feet above mean sea level.

The northern airfield complex at LAX incorporates Runway 6L-24R, the northernmost runway, and Runway 6R-24L, the inboard runway. In addition, there are a number of taxiways and airfield operations roadways located within the north airfield area. The Argo Ditch lies just north of the eastern edge of Runway 6L-24R (see Figure 1.1-2, *Local Vicinity Map*).

1.2 Existing Conditions

The Argo Ditch was constructed in 1949 as a flood control structure. The primary source of Argo Ditch's water supply is from runoff. Several concrete culverts and drainage features exist throughout the Argo Ditch. Surface water runoff enters a gated outlet structure where a concrete box section transitions to an open ditch and a series of side drainages/culverts along the length of the ditch (6 on the northern slope and 9 on the southern slope). Many of the plant species that have been documented within the Argo Ditch are nonnative species, typically associated with disturbed sites. The integrity of the Argo Ditch has also been significantly affected by maintenance activities conducted along the flood control structure over the last 50 years, beginning in 1957. These activities, which included the cleanout of vegetation and debris, have altered its original design. Moreover, the continual development of the airport has resulted in the removal of native upland plant communities and loss of habitat, meaning that any plant communities present within the ditch are likewise degraded and have little wildlife value.

1.3 Project Description

The Los Angeles World Airports (LAWA) is planning Runway Safety Area (RSA) improvements and associated improvements of Runway 6L-24R and RSA improvements of Runway 6R-24L at LAX in response to the requirements of *The Transportation, Treasury, Housing and Urban Development, the Judiciary, The District of Columbia, and Independent Agencies Appropriations Act (Public Law 109-115)*. This act states that all RSAs at 14 Code of Federal Regulations (CFR) Part 139 certified airports (such as LAX) must meet Federal Aviation Administration (FAA) design standards by December 31, 2015. As the RSAs of Runways 6L-24R and 6R-24L do not meet current FAA standards, LAWA is proposing to improve the Runway 6L-24R RSA to meet FAA design standards

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¹ The Transportation, Treasury, Housing and Urban Development, the Judiciary, the District of Columbia, and Independent Agencies Appropriations Act, 2006. Public Law [P.L. 109-115). 30 Nov. 2005.

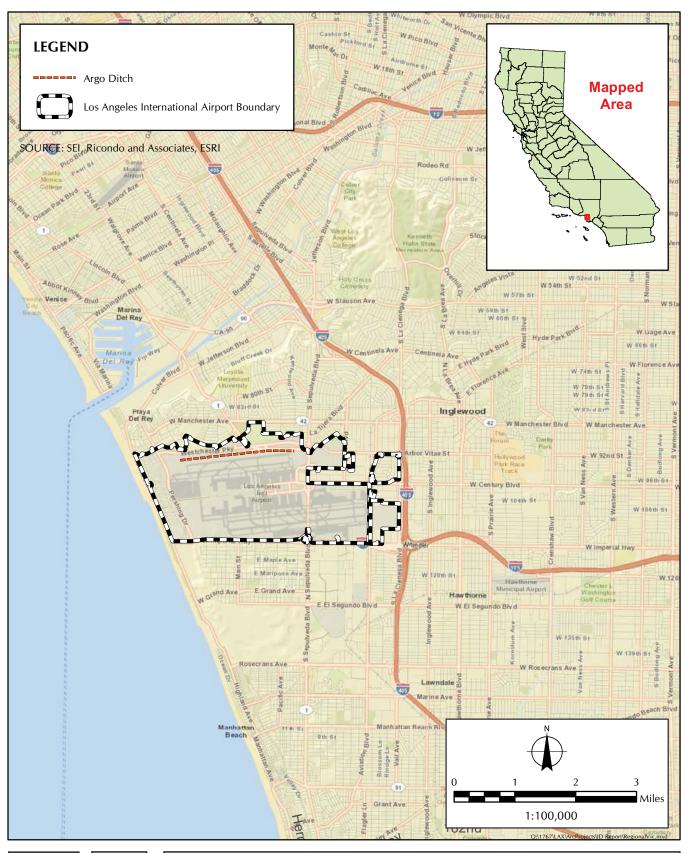






FIGURE 1.1-1
Regional Vicinity Map





FIGURE 1.1-2

and is proposing to implement improvements to Runway 6R-24L that can be implemented by December 31, 2015. LAWA is also evaluating additional RSA improvements to Runway 6R-24L that would be implemented after December 31, 2015, which would be the subject of a separate environmental evaluation. The components of the proposed undertaking related to Runways 6L-24R and 6R-24L RSA improvements are:

- Implementation of declared distances on Runways 6L-24R and 6R-24L
- Service roads would be relocated, closed or realigned outside the RSA
- Relocate navaid service roads
- Pavement rehabilitation
- Cover a segment of the Argo Ditch
- Relocate security gate(s)
- Relocate Air Operations Area Fence
- LAWA equipment parking area closures
- Realignment of taxiway holdbars
- Construction staging areas

As a part of the improvements, an approximately 2,900-foot-long on-airport service road segment, situated within the RSA and north of the Runway 6L-24R, would be relocated north of the RSA. Due to the proximity of Lincoln Boulevard in this area, a portion of this on-airport service road, located north of the Runway 24R threshold, would be relocated over the Argo Ditch. As a result, approximately 1.17 acres of the eastern portion of the ditch will be covered (see Figure 1.1-2).

2.0 REGULATORY FRAMEWORK

2.1 Section 404 of the Clean Water Act

Impacts on wetlands (including marsh, riparian, or vernal pools) or other "waters of the United States" are defined in Section 404 of the Clean Water Act of 1977, as amended (40 CFR 230.10). This section authorizes the Secretary of the Army, acting through the Chief of Engineers, to exert jurisdiction over wetlands. Section 404 requires the United States Army Corps of Engineers (USACOE) to regulate discharges of dredge or fill material into "waters of the United States." Activities that result in the discharge of dredge or fill material into "waters of the United States" or wetlands are subject to permit by USACOE. USACOE may issue permits for the discharge of dredge or fill material under Section 404 in compliance with Section 404(b)(1) guidelines established by the U.S. Environmental Protection Agency. Section 404(b)(1) requires project proponents to document measures in order to avoid or minimize negative effects on wetlands in a stepwise manner. The guidelines require permits to be issued only in the absence of practical alternatives to the proposed discharge that would have less adverse impacts on aquatic ecosystems. USACOE requires an individual permit for any activity that will affect an area in excess of 10 acres of "waters of the United States".

On August 2, 2013, USACOE stated to LAWA that a permit may likely be required for the proposed project based on USACOE records. Sapphos Environmental, Inc. and LAWA met with USACOE for a pre-application meeting on August 13, 2013 to discuss the project history and previous mitigation. In response, USACOE notified Sapphos Environmental, Inc. and LAWA that the proposed project would qualify for Nationwide Permit No. 39 for Commercial and Institutional Developments because the proposed project results in the permanent loss of 500 linear feet (0.093 acre) of aquatic resources. Normally, projects that result in impacts of less than 0.5 acre and 300 linear feet of streambed for "waters of the United States" can be conducted pursuant to Nationwide Permit No. 39. Given that the proposed impacts result in the permanent loss of more than 300 linear feet, the district engineer (USACOE) will need to waive the linear foot requirement by making a written determination concluding that the discharge will result in minimal adverse effects. Further, the permittee must submit a pre-construction notification to the district engineer prior to commencing the activity (General Condition 31) for USACOE to verify all proposed uses of Nationwide Permit No. 39. Given that the proposed impacts would result in the permanent loss of more than 300 linear feet, the permittee must also provide: (1) a narrative description of the stream; (2) measures taken to avoid and minimize losses, including alternative methods of constructing the proposed project; (3) an analysis of the proposed impacts to the water body in accordance with General Condition 31 and Regional Condition 3; and (4) a compensatory mitigation plan describing how the unavoidable losses are proposed to be compensated, in accordance with 33 CFR Part 332.

Nationwide Permit No. 39

The following information is required to be submitted to USACOE for review, pursuant to Regional Condition #9 and to provide evidence of minimal adverse effects:

- 1. Description of the waterway, which should include known information on:
 - a. Volume and duration of flow
 - b. Dimensions of the waterway (length, width, and depth), characters observed associated with an Ordinary High Water Mark (e.g. bed and bank, wrack line, or scour marks)
 - c. A description of the surrounding vegetation communities and land use
 - d. A statement regarding the wetland status of the associated vegetation community (i.e. wetland, non-wetland)
 - e. Water quality
 - f. Cumulative impacts in the watershed and any other relevant information
- 2. Analysis of the proposed impacts to the waterway in accordance with General Condition 31 and Regional Condition #3
- 3. Practices taken to minimize or avoid loss of wetlands, including other methods of constructing the proposed project
- 4. A compensatory mitigation plan describing how the unavoidable losses are proposed to be compensated or were compensated, in accordance with 33 CFR Part 332

Under the Regional Supplement to the Corps of Engineers Wetland Delineation Manual (WDM), Arid West Region (Version 2.0)², hereafter "Regional Supplement WDM", wetlands must have:

- 1. Hydrophytic vegetation present: To consider the site as having wetland plants, the location must pass either a Dominance Test or Prevalence Index, in which >50% of the dominant species are wetland plants or the Prevalence Index of wetland plants is ≤ 3.0 .
- 2. Wetland hydrology present: Standing water, high water table, and saturation may be present; however, hydrology indicators apart from observed water also may be present, which may indicate the area has water pooling for more than 14 days, the minimum number of days required to classify the area as a wetland.
- 3. Hydric soil present: Soils may exhibit physical and chemical characteristics that indicate inundation or saturation by water; however, areas where soils are disturbed may constitute an atypical situation and fall under a classification of "Problematic hydric soils".³

² U.S. Army Corps of Engineers. 2008. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)*, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-08-28. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

³ U.S. Army Corps of Engineers. 2008. "Chapter 5, Difficult Wetland Situations in the Arid West", Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0), ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-08-28. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

2.2 Section 1600 of the State Fish and Game Code

Activities in stream courses are subject to the jurisdiction of the California Department of Fish and Wildlife (CDFW; formerly California Department of Fish and Game [CDFG]) pursuant to Section 1600 of the State Fish and Game Code. This jurisdiction includes all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream or lake in California that supports fish or wildlife resources. Under the State Fish and Game Code, a stream is defined as a body of water that flows at least periodically, or intermittently, through a bed or channel having banks and supporting fish or other aquatic life. Included are watercourses with surface or subsurface flows that support or have supported riparian vegetation. The jurisdiction of the CDFW within altered or artificial waterways is based on the value of those waterways to fish and wildlife. The CDFW must be contacted for a Streambed Alteration Agreement (SAA) for any project that may impact a streambed or wetland. The CDFW has maintained a "no net loss" policy regarding potential impact and has required the replacement of lost wetlands on at least an acre-for-acre ratio.

3.0 METHODS

3.1 Literature Review

In support of writing this jurisdictional delineation report, Sapphos Environmental, Inc. consulted previous delineations and reports of the Argo Ditch, letters of correspondence with CDFW and USACOE, and reports documenting the satisfactory completion of compensatory mitigation in the form of habitat restoration and revegetation of wetlands at the Harbor Malloy Regional Park. These documents included:

- FAA, Record of Decision: Proposed LAX Master Plan Improvements⁴
- The LAX Master Plan Final Environmental Impact Report / Environmental Impact Statement (EIR/EIS)⁵
- Biological Assessment Technical Report for the LAX Master Plan EIR/EIS⁶
- Updated Biological Assessment Technical Report for the LAX Master Plan Supplement to the EIR/EIS⁷
- Jurisdictional Delineation for the LAX Specific Plan Amendment Study⁸
- Final EIR for the LAX Specific Plan Amendment Study⁹
- Memorandum for the Record (MFR) regarding Preliminary Results of the 1997 delineation of the Argo Ditch¹⁰
- MFR regarding Recommendations for Addressing Regulatory Compliance issues of the ditch¹¹
- USACOE Nationwide Permit Authorization¹²

⁴ U.S. Department of Transportation. 20 May 2005. Federal Aviation Administration, Western–Pacific Region. Record of Decision: Proposed LAX Master Plan Improvements (2005 Final EIS).

⁵ Federal Aviation Administration. January 2005. Final Environmental Impact Statement for the Proposed Master Plan Improvements at LAX.

⁶ Los Angeles World Airports. January 2001. *LAX Master Plan EIS/EIR. Appendix J1. Biological Assessment Technical Report.* Prepared by: Sapphos Environmental, Inc.

⁷ Los Angeles World Airports. June 2003. *LAX Master Plan Supplement to the Draft EIS/EIR. S-H. Updated Biological Assessment Technical Report.* Prepared by: Sapphos Environmental, Inc.

⁸ Los Angeles World Airports. July 2012. *LAX Specific Plan Amendment Study. Appendix D-2. Jurisdictional Delineation*. Prepared by: Glenn Lukos Associates.

⁹ Los Angeles World Airports. January 2013. LAX Specific Plan Amendment Study Final EIR.

¹⁰ Sapphos Environmental, Inc. Preliminary Results of Delineation of Areas Subject to the Jurisdiction of the U.S. Army Corps of Engineers and the California Department of Fish and Game at Argo Ditch, Los Angeles International Airport, City of Los Angeles, California.

¹¹ Sapphos Environmental, Inc. 4 Sept. 1997. 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.

¹² U.S. Army Corp of Engineers. 7 Jan. 1998. Letter to Mr. Driscoll regarding the Department of the Army Nationwide Permit Authorization.

- CDFG, Notification No. 5-480-97 (revision 2), Agreement Regarding Proposed Alteration to Argo Ditch.¹³
- CDFG, Amendment Regarding SAA¹⁴
- Cultural Resources Technical Report regarding potential impacts to sensitive cultural resources¹⁵
- Biological Assessment regarding potential impacts to sensitive biological resources¹⁶
- MFR regarding meetings and communications with USACOE and permit application under Nationwide Permit 39

3.2 Historic Maps and Timeline Review

During the jurisdictional delineation of the Argo Ditch, a series of historic topographic maps¹⁷ of the LAX airfield and immediate surrounding areas was reviewed, as was a series of historic aerial photographs. This review served to document the history of the Argo Ditch as a man-made feature. Historic aerial photographs and topographic maps were reviewed for the following years:

1923 USGS Topographic Map: The location of the current Argo Ditch and LAX consisted of vernal pools (and native grasslands), with City Coast Boulevard traversing the pools southwest of the present Argo Ditch. The Argo Ditch is not evident and there is no natural drainage at that location.

1924 USGS Topographic Map: Defiance Street (now Manchester Avenue) was constructed to traverse the vernal pools (and native grasslands) in an east-west orientation north of the current Argo Ditch location. The Argo Ditch is not evident and there is no natural drainage at that location.

1928: Mines Field is chosen as the site for an airport for the City of Los Angeles.

1934 USGS Topographic Map: Defiance Street was renamed Manchester Avenue and residential suburbs were developed on the northern side of Manchester Avenue. Lincoln Boulevard traversed the vernal pools (and native grasslands) and the current Argo Ditch site in a diagonal northwest-southeast orientation. The Argo Ditch is not evident and there is no natural drainage at that location.

1942 USGS Topographic Map: Century Boulevard crossed the vernal pools (and native grasslands) south of the current Argo Ditch location. Except for Lincoln and Century Boulevards, no

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¹³ California Department of Fish and Game. 9 Feb. 1998. Notification No. 5-480-97 (revision 2). Agreement Regarding Proposed Alteration to Argo Ditch. Executed by Mr. John Driscoll, Executive Director, Los Angeles World Airports, and Ms. Leslie McNair, Environmental Specialist II, California Department of Fish and Game.

¹⁴ California Department of Fish and Game. 28 Jan. 1998. Amendment Regarding Proposed Stream or Lake Agreement.

¹⁵ Sapphos Environmental, Inc. 18 Oct. 2013. Los Angeles International Airport Proposed Runway 6L-24R Runway Safety Area and Associated Improvements Project Cultural Resources Technical Report. Pasadena, CA.

¹⁶ Sapphos Environmental, Inc. 18 Oct. 2013. Los Angeles International Airport Proposed Runway 6L-24R Runway Safety Area and Associated Improvements Project Biological Assessment. Pasadena, CA.

¹⁷ U.S. Geologic Survey. Accessed 22 August 2013. "USGS Topo and Historic Topographic Maps Collection: Venice, California". PDF from website. Available at: http://geonames.usgs.gov/pls/topomaps/

topographic alterations had been made to the vernal pools between Manchester Avenue and Coast Boulevard. The Argo Ditch is not evident and there is no natural drainage at that location.

1950 USGS Topographic Map: The Argo Ditch site location was dramatically transformed, with the ditch acting as a northern boundary between the existing vernal pools and the re-graded airport expansion area. Significant residential expansion to the northeast and south of the airport expansion area reduced the vernal pool (and native grassland) territory to a zone north and west of the Argo Ditch, with the land southwest of the airport expansion area being drilled for oil. The Argo Ditch is now evident at the site location.

1964 USGS Topographic Map: The land immediately surrounding the airport to the north and south had been developed for residential use, including the land directly north of the Argo Ditch. The Argo Ditch is delineated as a dotted blue line. Imperial Highway had been constructed south of the airport, and Coast Boulevard was renamed Pershing Drive.

1969: Runway 6L-24R is constructed.

1972 USGS Topographic Map: The land directly south of Argo Ditch had been developed into an additional runway for the airport. The Argo Ditch is delineated as a dotted blue line.

1981 USGS Topographic Map: A golf course was constructed north of the Argo Ditch site (north of Lincoln Boulevard). The Argo Ditch is delineated as a dotted blue line.

Aerial Photographs from 1994-2002: Large shrubs growing in the Argo Ditch have been removed.¹⁸

2012 USGS Topographic Map: The Argo Ditch is delineated as a solid blue line. Between 1981 and 2012, Westchester Parkway and Northside Parkway were constructed as east-west oriented roads directly north of Argo Ditch, shifting residences farther away from the airport. Further, Sapphos Environmental, Inc. reviewed the historic maps and data included within the LAX Master Plan EIR/EIS, which also included potential vernal ponds in the vicinity of the Argo Ditch. In addition, Sapphos Environmental, Inc. reviewed soil data maps from the Natural Resources Conservation Service and the National Wetland Inventory map for the LAX area.

3.3 Field Surveys

Sapphos Environmental, Inc. conducted a jurisdictional delineation within the ditch on August 8 and August 13, 2013, in conformance with the USACOE 1987 Wetland Delineation Manual¹⁹ and the Regional Supplement WDM²⁰. The delineation was supervised by a wetland delineator certified by the Wetland Training Institute. The vegetation communities of the Argo Ditch had been previously mapped on May 8, 2013; minor refinements were made to the boundaries of the

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¹⁸ This aerial photograph was obtained through Google Earth Imagery.

¹⁹ Environmental Laboratory. 1987. "Corps of Engineers wetlands delineation manual," Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS. NTIS No. AD A176 912 (Note: Appendix C information is outdated and must be obtained from regional Wetlands offices).

²⁰ U.S. Army Corps of Engineers. 2008. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0),* ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-08-28. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

plant communities during delineation surveys. A biological and cultural assessment of potential impacts to the Argo Ditch was conducted on May 8 and June 14, 2013 to assess potential impacts to biological and cultural resources within the Argo Ditch.^{21,22} Sampling was conducted from the easternmost end of the Argo Ditch to the westernmost end. Sapphos Environmental, Inc. established sampling points every 100 feet for the first 4,000 feet of the Argo Ditch, which includes the area that is proposed to be directly altered by the RSA improvements. Downstream of the affected project area, from 4,000 to 9,900 feet, sampling points were established in the middle of each potential wetland and in the adjacent upland areas, within 100 feet of the visual boundary of each potential wetland. There were a total of 53 sampling points along the Argo Ditch (Figure 3.3-1, *Sampling Location Map*). Potential wetlands were determined by the presence of wetland plant species. The geospatial coordinates for the wetland units mapped during the plant community mapping were documented with a handheld Global Positioning System unit (Figure 3.3-1).

At each sampling location, two qualified biologists (one wetland delineator and one biologist) recorded vegetation, soil, and hydrology data as outlined in the standard Wetland Determination Data Form--Arid West (Appendix A, Wetland Determination Data Forms). Hydric soil and wetland hydrology indicators were consistent with the methods and classifications outlined in the Regional Supplement WDM. Hydrophytic vegetation classification was determined with quantitative transects. Transects were positioned along the width of the channel to the edges of the continuous plant community. Percent cover by species was determined by measuring the proportion of the transect occupied and by visual estimation. Each sampling point was classified as wetland or non-wetland based on the presence of hydrophytic plants, hydric soil, and wetland hydrology.

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²¹ Sapphos Environmental, Inc. 18 Oct. 2013. Los Angeles International Airport Proposed Runway 6L-24R Runway Safety Area and Associated Improvements Project Cultural Resources Technical Report. Pasadena, CA.

²² Sapphos Environmental, Inc. 18 Oct. 2013. Los Angeles International Airport Proposed Runway 6L-24R Runway Safety Area and Associated Improvements Project Biological Assessment. Pasadena, CA.



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Sampling Location Map

4.0 RESULTS

4.1 Literature Review

The Argo Ditch is a man-made flood control structure that was constructed circa 1949.²³ The Argo Ditch 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.²⁴

1997 Delineation

A jurisdictional delineation of the Argo Ditch was completed in support of emergency channel maintenance activities in October 1997. Sampling occurred every 100 feet for wetland vegetation, hydrology, and soil for a total of 99 locations. During the 1997 delineation of the Argo Ditch, Sapphos Environmental, Inc. found "riparian and wetland habitat created in association with the Argo Ditch". Wetlands were found within the man-made ditch in limited areas (~1 acre in total), mostly within the eastern portions of the Argo Ditch (Figure 4.1-1, 1997 Delineation of the Argo Ditch). Sapphos Environmental, Inc. also documented riparian vegetation dominated by willows but lacking wetlands in the mid-portions of the Argo Ditch.

USACOE exerted jurisdiction over isolated wetlands in the Argo Ditch that resulted from a lack of routine operations and maintenance activities over an approximate 20-year period. LAWA and the FAA consulted with USACOE and CDFW in order to perform annual clearing of vegetation and mitigation for the loss of wetlands. USACOE authorized emergency operations and maintenance activities pursuant to Nationwide Permit No. 31.²⁶ Further, CDFW issued an agreement on February 9, 1998 which stated that LAWA intended to remove vegetation on a regular basis and continually maintain the Argo Ditch to be "clear of vegetation until a permanent solution can be established"²⁷. This agreement also required mitigation for the loss of wetland vegetation. To mitigate for the loss of 0.99 acre of wetlands delineated in 1997, a restoration site was created at Ken Malloy Harbor Regional Park (KMHRP). USACOE determined that mitigation for this impact was complete and successful on December 9, 2004.²⁸

²³ Federal Aviation Administration. January 2005. Final Environmental Impact Statement for the Proposed Master Plan Improvements at LAX.

²⁴ Bapna, Victor. August 2000. County of Los Angeles Department of Public Works. Personal Communication.

²⁵ Sapphos Environmental, Inc. Preliminary Results of Delineation of Areas Subject to the Jurisdiction of the U.S. Army Corps of Engineers and the California Department of Fish and Game at Argo Ditch, Los Angeles International Airport, City of Los Angeles, California.

²⁶ U.S. Army Corp of Engineers. 7 Jan. 1998. Letter to Mr. Driscoll regarding the Department of the Army Nationwide Permit Authorization.

²⁷ California Department of Fish and Game. 9 Feb. 1998. Notification No. 5-480-97 (revision 2). Agreement Regarding Proposed Alteration to Argo Ditch. Executed by Mr. John Driscoll, Executive Director, Los Angeles World Airports, and Ms. Leslie McNair, Environmental Specialist II, California Department of Fish and Game.

²⁸ U.S. Army Corp of Engineers. 9 Dec. 2004. Letter to Mr. Brown regarding the status of wetland mitigation.

FIGURE 4.1-1 1997 Delineation of the Argo Ditch



2011 Delineation

On July 7, 2011, a second delineation was conducted by Glenn Lukos Associates (GLA) at 15 locations along the Argo Ditch in support of the LAX Specific Plan Amendment Study. Wetlands determined by GLA occurred primarily within the eastern portions of the Argo Ditch. This delineation identified a total of 3.78 acres of wetlands, of which approximately 2.45 acres consisted of non-wetland waters of the United States, and approximately 1.33 acres consisted of jurisdictional wetlands (Figure 4.1-2, 2011 Delineation of the Argo Ditch). The delineation concluded that water within the ditch originated from "storm discharge and nuisance flow" and "the wettest areas are concentrated at the discharge points". Further, potential areas subject to CDFW jurisdiction was 3.97 acres, of which 1.52 acres consisted of riparian vegetation.

4.2 Historic Maps and Timeline Review

Pre-Argo Ditch

- 1923: The location of the current Argo Ditch and Los Angeles airport consisted of vernal pools and native grasslands, with Coast Boulevard traversing the pools southwest of the present Argo Ditch (Figure 4.2-1, 1923 Topographic Map of Future LAX).
- 1924: Defiance Street was constructed to traverse the vernal pools and native grasslands in an east-west orientation north of the current Argo Ditch location (Figure 4.2-2, 1924 Topographic map of future LAX).
- 1928: An airport was built on 640 acres, called Mines Aviation Field, without a terminal building.³⁰
- 1929: The first hangar was built on the Mines Aviation Field and faced north-south. The hangar was located east of Arizona Avenue and the future site of the Argo Ditch.
- 1930: The airport was named the Los Angeles Municipal Airport.
- 1934: Defiance Street was renamed Manchester Avenue and residential suburbs were developed on the northern side of Manchester Avenue. Lincoln Boulevard traversed the vernal pools and native grasslands and the future Argo Ditch site in a diagonal northwest-southeast orientation (Figure 4.2-3, 1934 Topographic Map of Municipal Airport).
- 1937: The City of Los Angeles purchased the municipal airport.³¹
- 1942: Lincoln Boulevard was expanded and crossed the future site of the Argo Ditch. Except for Pershing Drive and Lincoln and Century Boulevards, no topographic alterations had been made to the vernal pools between Manchester Avenue and Coast Boulevard (Figure 4.2-4, 1942 Topographic Map of Municipal Airport).
- 1943: Development was put on hold from 1943-1945 during World War II. 32

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²⁹ Los Angeles World Airports. July 2012. LAX Specific Plan Amendment Study. Appendix D-2. Jurisdictional Delineation. Prepared by: Glenn Lukos Associates.

³⁰ Los Angeles International Airport. Accessed 22 August 2013. "History of Los Angeles International Airport". Website last updated 2012. Available at: http://losangelesinternationalairport.us/history-of-loszangeles-international-airport/

³¹ Los Angeles International Airport. Accessed 22 August 2013. "History of Los Angeles International Airport". Website last updated 2012. Available at: http://losangelesinternationalairport.us/history-of-losangeles-international-airport/

³² Los Angeles International Airport. Accessed 22 August 2013. "History of Los Angeles International Airport". Website last updated 2012. Available at: http://losangelesinternationalairport.us/history-of-losangeles-international-airport/

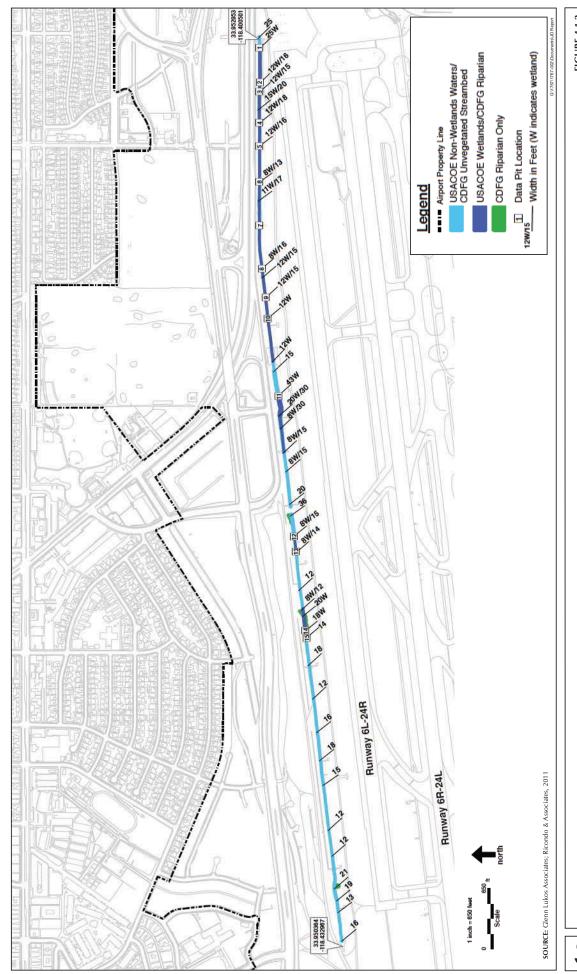




FIGURE 4.1-2 2011 Delineation of the Argo Ditch

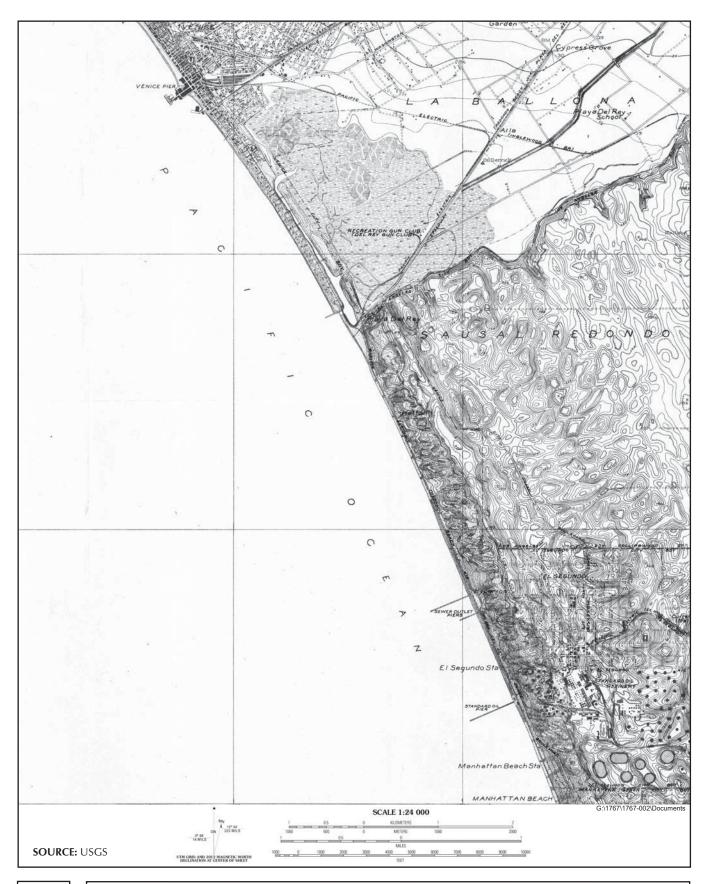




FIGURE 4.2-1 1923 Topographic Map of Future LAX

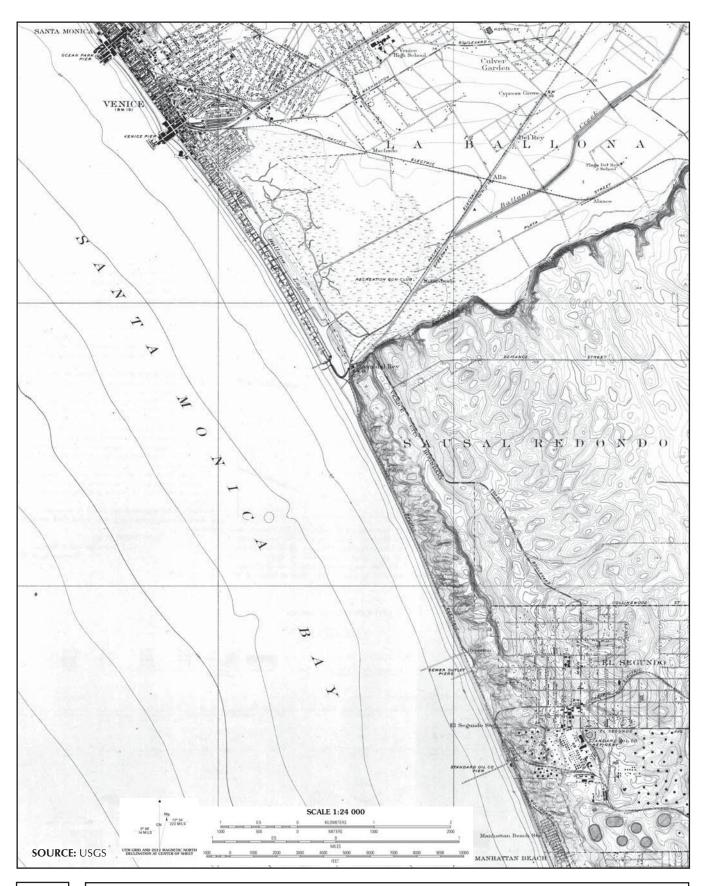




FIGURE 4.2-2 1924 Topographic Map of Future LAX

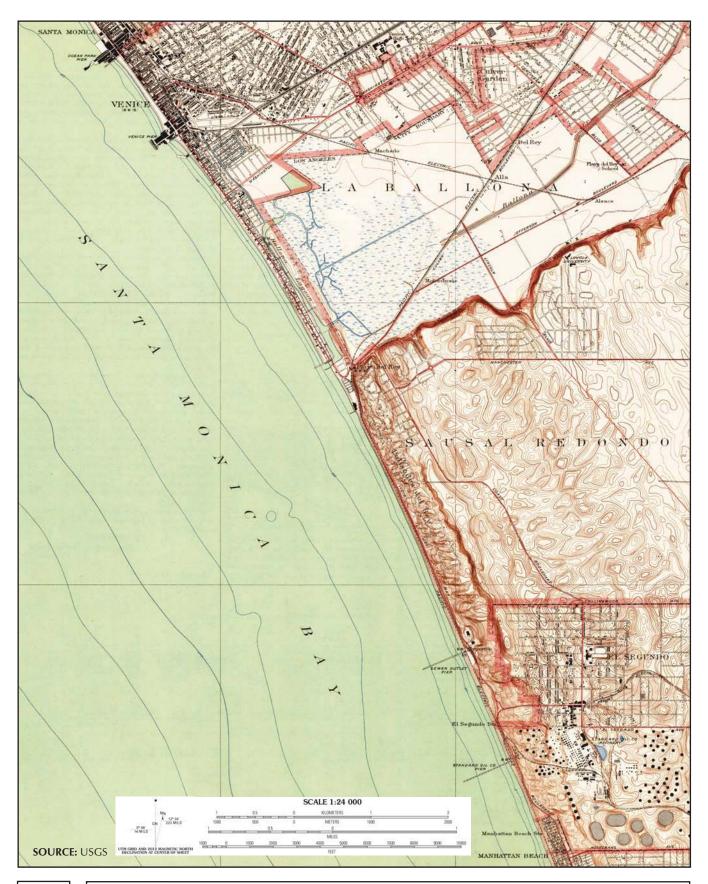




FIGURE 4.2-3 1934 Topographic Map of Municipal Airport

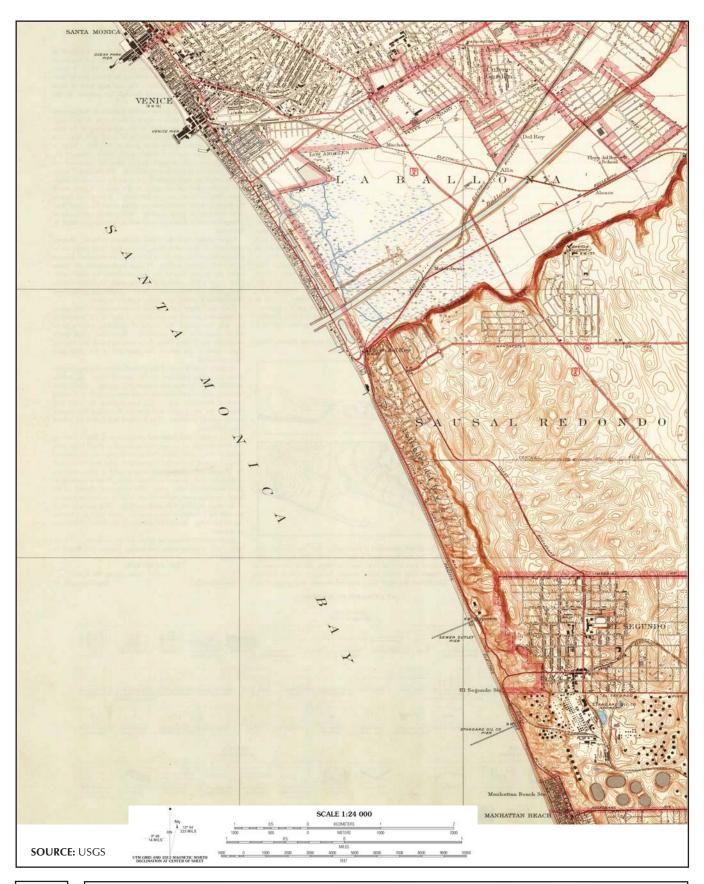




FIGURE 4.2-4 1942 Topographic Map of Municipal Airport

1946: After the war, five airlines had started their commercial operations from Los Angeles Municipal Airport.

Post-Argo Ditch, Pre-mitigation

- 1949: The municipal airport was renamed the Los Angeles International Airport. This year is a good estimate for the beginning of construction of the Argo Ditch.
- 1950: The Argo Ditch site location was dramatically transformed, with the ditch acting as a northern boundary between the existing undeveloped lands to the north and the airport expansion area to the south. Coast Boulevard was renamed (in part) to Century Boulevard and Pershing Street. Significant residential expansion to the northeast and south of the airport expansion area and oil drilling southwest of the airport reduced the vernal pools and native grasslands to areas north and west of the Argo Ditch (Figure 4.2-5, 1950 Topographic Map of LAX and the Argo Ditch).
- 1952: International flights began.³³
- 1964: Many of the runways existing at the airport today were operational. Land immediately surrounding the airport to the north and south had been developed for residential use, including previously undisturbed land directly north of the Argo Ditch. Residential development occurred west of the Argo Ditch in the El Segundo Dunes. Imperial Highway had been constructed south of the airport and Coast Boulevard was renamed Pershing Drive along the entire stretch west of LAX (Figure 4.2-6, 1964 Topographic Map of LAX and the Argo Ditch).
- 1969: Construction of Runway 6L-24R.
- 1972: By 1972, the land directly south of Argo Ditch had been developed into a runway for the airport (Figure 4.2-7, 1972 Topographic Map of LAX and the Argo Ditch).
- 1981: By 1981, a golf course was constructed north of the Argo Ditch site and north of Lincoln Boulevard. Aerial photographs indicate that the eastern terminus of the Argo Ditch and the associated retention basin were buried sometime between 1981 and 1997 (Figure 4.2-8, 1981 Topographic Map of LAX and the Argo Ditch).
- 1994: From 1994-1997, large shrubs and vegetated areas can be seen growing within the Argo Ditch.³⁴
- 1997: Technical studies in support of the LAX Master Plan EIR/EIS began. First delineation of the Argo Ditch was conducted by Sapphos Environmental, Inc.
- 1998: LAWA issued an agreement with CDFW, formerly CDFG, and Nationwide Permit No. 31 to perform emergency maintenance of the Argo Ditch.
- 1999: Mitigation of the impacted wetland areas in the Argo Ditch began at KMHRP.

³³ Los Angeles International Airport. Accessed 22 August 2013. "History of Los Angeles International Airport". Website last updated 2012. Available at: http://losangelesinternationalairport.us/history-of-losangeles-international-airport/

³⁴ This aerial photograph was obtained through Google Earth Imagery.

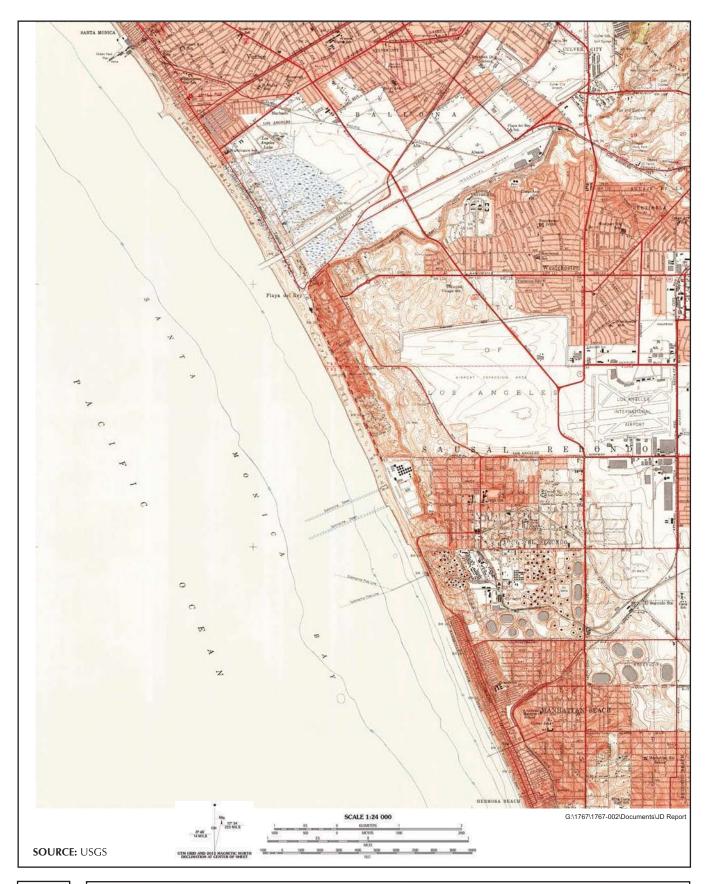




FIGURE 4.2-5 1950 Topographic Map of LAX and the Argo Ditch

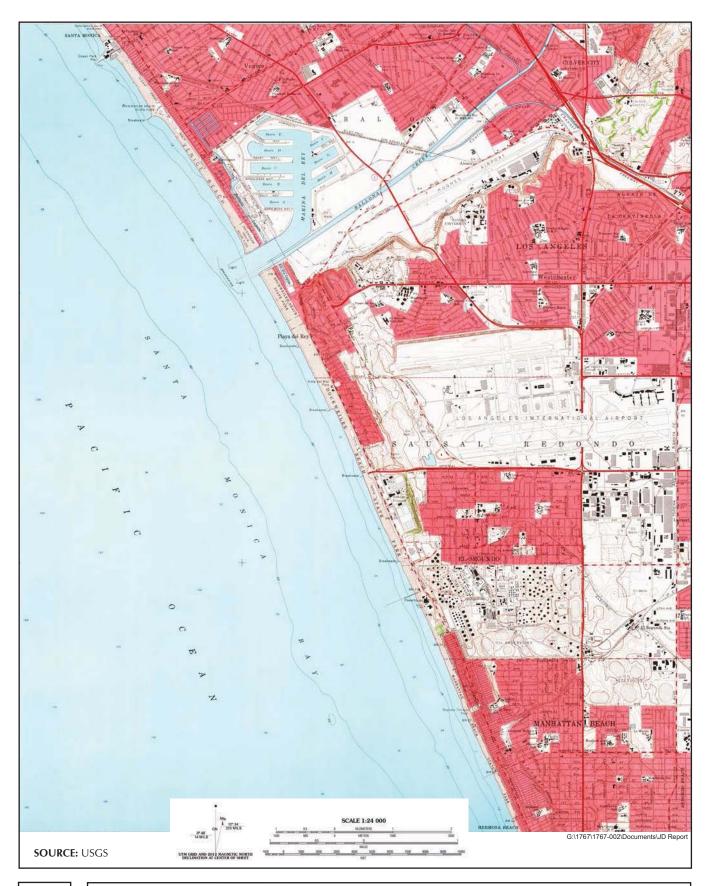




FIGURE 4.2-6 1964 Topographic Map of LAX and the Argo Ditch

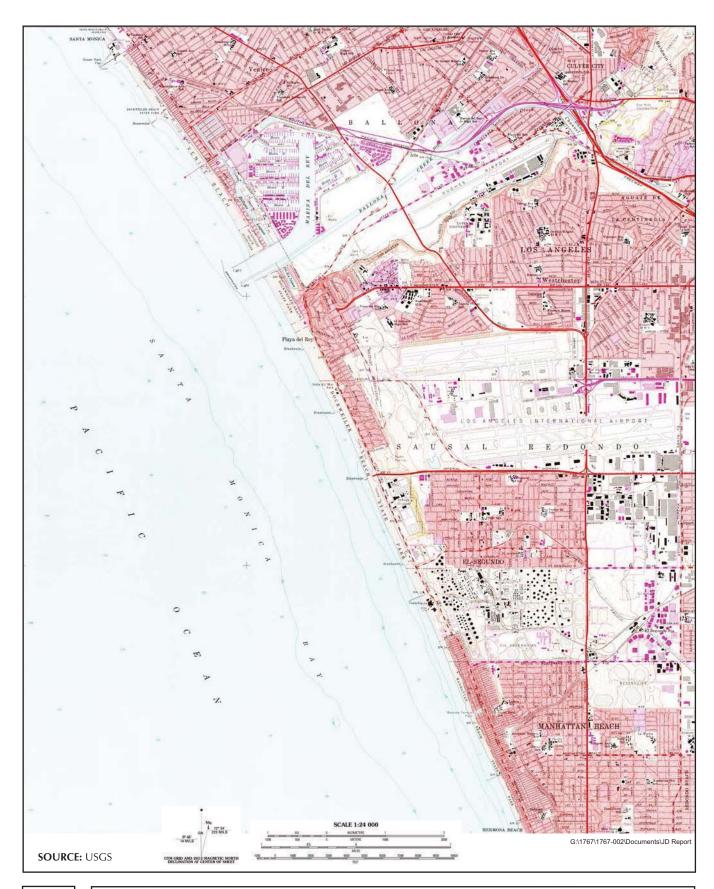




FIGURE 4.2-7 1972 Topographic Map of LAX and the Argo Ditch

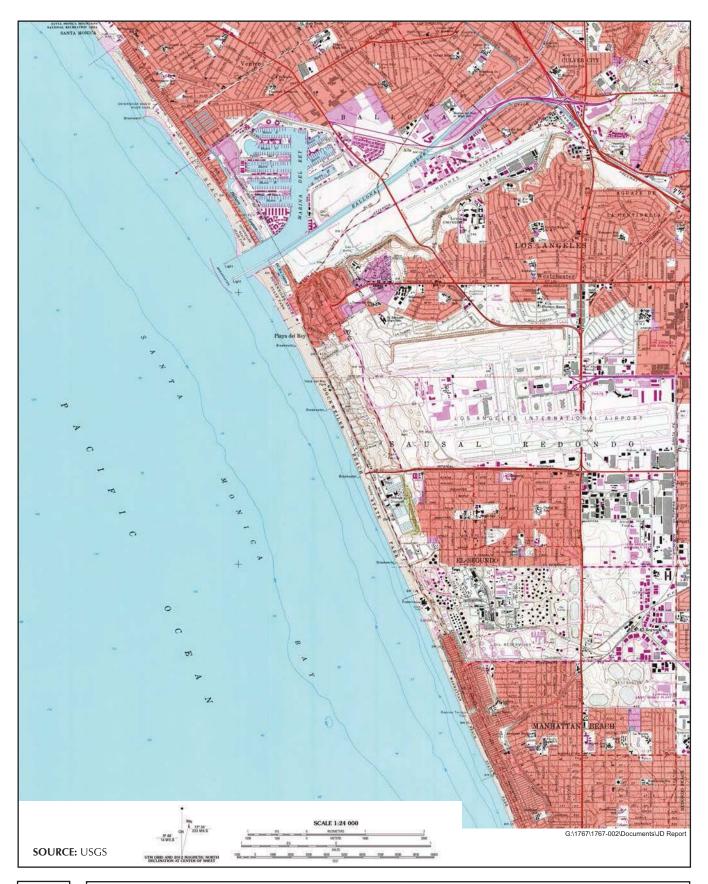




FIGURE 4.2-8 1981 Topographic Map of LAX and the Argo Ditch

Post-Argo Ditch, Post-mitigation

2002: Aerial photographs document clearing of vegetation within the Argo Ditch.³⁵ Mitigation occurring at KMHRP, but vandalism occurred within restoration sites.

2004: USACOE is satisfied with mitigation compliance for impacted wetlands in the Argo Ditch.

2011: Second delineation of the Argo Ditch by GLA.

2013: Third delineation of the Argo Ditch by Sapphos Environmental, Inc.

4.3 Field Surveys

Six plant communities were detected during the field surveys. Eighteen of the 53 sampled points were classified as wetlands. Of these 18 points, only 2 had hydric soil indicators and the remainder had indicators for Problematic Hydric Soils, such as standing water in August. Sixteen of the wetland points were classified as wetlands based on the Problematic Hydric Soils section of the Regional Supplement WDM.

Sapphos Environmental, Inc. delineated seven wetlands within the man-made Argo Ditch (Figure 4.3-1, Wetlands within the Man-Made Argo Ditch). Most of these wetlands were associated with culverts or concrete areas within the Argo Ditch. All of these wetlands were within the man-made ditch and subjected to periodic clearing of vegetation under current permits. Six plant communities also were detected within the Argo Ditch (Figure 4.3-2, Plant Community Map). Details on each wetland are as follows:

Wetland #1

Location Description: This wetland was located from 0–200 feet from the easternmost end of the Argo Ditch, immediately adjacent to a grate that was approximately 7–8 feet high and 16 feet wide. Most of this wetland had a concrete apron along the sides and bottom of the Argo Ditch with some soil accumulation on top of the concrete apron. During the 1997 wetland delineation, a wetland was documented in this area, up to 734 feet from the easternmost end of the Argo Ditch.

Hydrophytic Plants: The most dominant plant within this wetland was a nonnative variety of barnyard grass (*Echinochloa* sp.). Other plants detected within this wetland included native tall flat sedge (*Cyperus eragrostis*), dock-leaf smartweed (*Persicaria lapathifolia*), nonnative golden-crown grass (*Paspalum dilatum*), perennial rye-grass (*Festuca perrenis*), and yellow bristle grass (*Setaria pumila*). The area immediately within the boxed inlet was dominated by native broad-leaf cattail (*Typha latifolia*).

Hydric Soil: Hydric soil indicators were not identified; however, the presence of surface water in August, the dry season, would indicate that the area is inundated for at least 2 weeks during the growing season, which satisfies as an indicator for Problematic Hydric Soils of seasonally ponded soils.

Wetland Hydrology: Standing water and saturation were present.

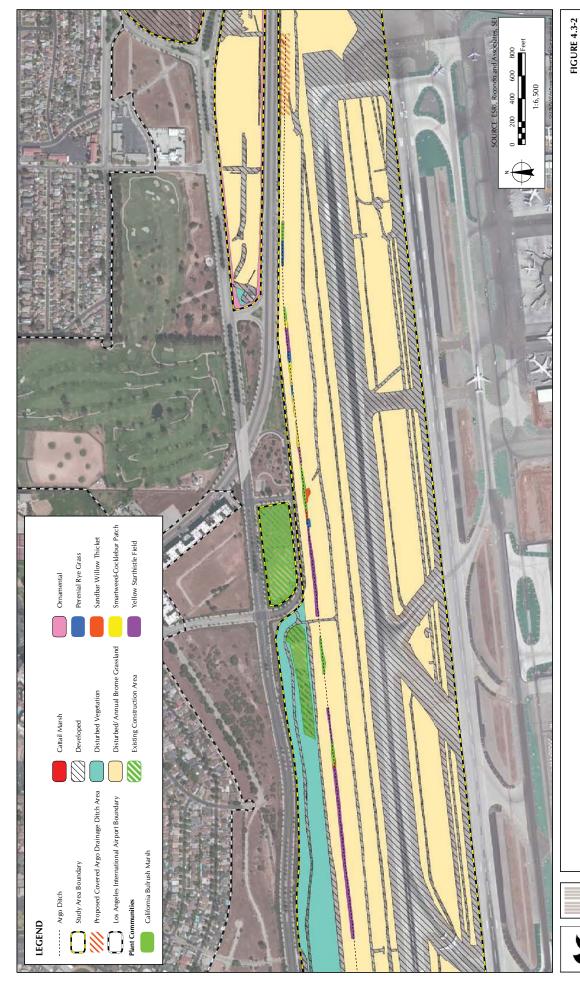
³⁵ This aerial photograph was obtained through Google Earth Imagery.



FIGURE 4.3-1 Wetlands within the Man-Made Argo Ditch











Plant Community Map

Notes: Vegetation within the wetland was cleared in 2013 and all growth has occurred within 2 months. Trash noted within the channel.

Upland area between Wetlands #1 and #2: Some hydrophytic plants and/or wetland hydrology were present; however, in most cases the hydrophytic vegetation was not dominant and these areas lacked hydric soils. Much of this area showed positive indicators for wetland hydrology, most likely due to periodic water overflow from the two adjacent wetlands.

Wetland #2

Location Description: This wetland was located from 1,600 feet to 2,000 feet from the eastern end of the Argo Ditch. A concrete apron and culvert was located on the north slope of the channel between sampling points at 1,900 and 2,000 feet, where standing water was observed. Runoff from this culvert was likely a driving factor in creating this wetland. During the 1997 delineation, a wetland was documented from 1,565 to 1,994 feet from the easternmost end of the Argo Ditch.

Hydrophytic Plants: Nonnative perennial ryegrass, yellow bristle grass, and native dockleaf smartweed were present around the edges of the wetland. Duckweed was observed within the open, standing water. Dominant plants observed within the wetter portions included nonnative barnyard grasses and native tall flat sedge and California bulrush (*Schoenoplectus californicus*).

Hydric Soil: Hydric soil indicators were not identified; however, the presence of surface water in August, the dry season, would indicate that the area is inundated for at least 2 weeks during the growing season, which satisfies as an indicator for Problematic Hydric Soils of seasonally ponded soils.

Wetland Hydrology: Standing water and saturation were present.

Notes: There was evidence that vegetation had been cleared on the eastern end of this wetland, but the vegetation had grown back.

Upland area between Wetlands #2 and #3: Approximately 400 feet of the Argo Ditch between Wetlands #2 and #3 were dominated by upland vegetation, including yellow starthistle (*Centaurea solstitialis*) and species of brome (*Bromus* sp.). There was no evidence of wetland hydrology or water flow between these two wetlands.

Wetland #3

Location Description: This wetland was located from 2,400 feet to 2,550 feet from the eastern end of the Argo Ditch. There was a concrete apron on both slopes of the channel on the western end of the wetland, which likely contributed to the presence of the wetland at this location. During the 1997 delineation, a wetland was documented from 2,400 to 2,650 feet from the easternmost end of the Argo Ditch.

Hydrophytic Plants: Dock-leaf smartweed dominated most of this wetland, growing up to 5

feet high. In addition, California bulrush and small patches of cattail (*Typha* sp.) were observed growing within 25 feet of the concrete apron.

Hydric Soil: A depleted matrix was documented at one of the two soil pits within this wetland.

Wetland Hydrology: The soil was saturated at sampling points 2,400 and 2,500.

Notes: Smartweed, which is an early successional wetland species, was dominant throughout most of this wetland.

Upland area between Wetlands #3 and #4: Yellow star-thistle dominated the area approximately 200 feet west of Wetland #3. Dock-leaf smartweed was present in varying abundance throughout the area between Wetlands #3, #4, and #5. Evidence of riverine hydrology in portions of the area between Wetlands #3 and #5 may indicate that flow and pooling water between these wetlands resulted in the establishment of Wetland #4.

Wetland #4

Location Description: This wetland was located from 3,000 feet to 3,300 feet from the eastern end of the Argo Ditch. Between sampling points 3,100 and 3,200, there was a concrete drainage feature for runway runoff on the south side of the Argo Ditch.

Hydrophytic Plants: Native dock-leaf smartweed and nonnative perennial ryegrass were the only two dominant wetland species, but nonnative English plantain (*Plantego lanceolata*) also was present. The bottom of the Argo Ditch in this section was less channelized near the bottom of the ditch and the slopes on the north and south side of the wetland were a gentle grade with brome and yellow starthistle.

Hydric Soil: No hydric soil indicators were identified. This area was classified under Problematic Hydric Soils as outlined in the Regional Supplement WDM.

Wetland Hydrology: Soil surface cracks were evident at three of the wetland sampling points. The westernmost sampling point within this wetland had two secondary indicators.

Notes: Smartweed at this location was dying back; perennial ryegrass had already completed its growth cycle.

Upland area between Wetlands #4 and #5: As stated above, evidence of riverine hydrology in portions of the area between Wetlands #3 and #5 may indicate that flow and pooling water between these wetlands resulted in the establishment of Wetland #4. As such, upland areas are dominated by dock-leaf smartweed and yellow star-thistle.

Wetland #5

Location Description: This wetland was located from 3,800 feet to 4,100 feet from the eastern end of the Argo Ditch. Downstream from 4,100 there was a concrete drainage feature for runway runoff on the south side of the Argo Ditch. The channel was bifurcated

in the upland area east of this wetland at 3,700 feet. The 1997 delineation documented riparian vegetation at 3,800 to 4,000 feet with some standing water.

Hydrophytic Plants: This wetland had a larger diversity of wetland plant species than most of the other wetlands. Native dock-leaf smartweed was present only at the eastern and western boundary of this wetland. The most dominant plants within this wetland were native California bulrush, broad-leaf cattail, tall flat sedge, common spikerush (*Eleocharis* cf. *macrostachya*), nonnative golden-crown grass, yellow bristle grass, and Bermuda grass (*Cynodon dactylon*). Narrow-leaf willow (*Salix exigua* cf. var. *hindsiana*) was common around the edges, but a single arroyo willow (*Salix lasiolepis*) was also observed. Several other plants were observed within this wetland including duckweed, barnyard grasses, English plantain, and curly dock (*Rumex crispss*).

Hydric Soil: Hydric soil indicators were not identified; however, the presence of surface water in August, the dry season, would indicate that the area is inundated for at least 2 weeks during the growing season, which satisfies as an indicator for Problematic Hydric Soils of seasonally ponded soils.

Wetland Hydrology: Standing water and saturation were present. One pit dug on August 8, 2013 had been inundated with water by the August 13, 2013 visit.

Notes: Open water with duckweed was observed near sampling point 4,000.

Upland area between Wetlands #5 and #6: There was a culvert with dock-leaf smartweed present. Sampling indicated that this was not a wetland. All areas sampled between Wetlands #5 and #6 were classified as upland.

Wetland #6

Location Description: This wetland was located from 5,250 feet to 5,700 feet from the eastern end of the Argo Ditch. Upstream was a bridge that crosses the Argo Ditch with concrete tunnels. Downstream from Station 5,700 there was a concrete drainage feature for runway runoff on the south side of the Argo Ditch. During the 1997 delineation, a dense stand of riparian vegetation was documented at 5,000 to 5,534 feet from the easternmost end of the Argo Ditch; however, willows were generally lacking from this location in the 2013 delineation.

Hydrophytic Plants: There was dense vegetation within the center of the wetland and a long shelf on the western end with wetland hydrology and scattered wetland plants. Native California bulrush and dock-leaf smartweed were present only at the eastern and western boundary of this wetland. The most dominant plants within this wetland were native California bulrush with perennial ryegrass. Arroyo willow and English plantain were present around the edges of the wetland.

Hydric Soil: A depleted matrix was documented at one of the two soil pits within this wetland.

Wetland Hydrology: The soil was saturated. Surface soil cracks were evident around the edges of the wetland.

Notes: Surface soils cracks were evident up to the sampling point at 5,800, but this point did not have enough hydrophytic vegetation for this point to be classified as a wetland. Dense hydrophytic plants ended at around 5,600 feet.

Upland area between Wetlands #6 and #7: There was a narrow band of upland vegetation with yellow starthistle that also lacked hydrology indicators.

Wetland #7

Location Description: This wetland was located from 6,000 feet to 6,450 feet from the eastern end of the Argo Ditch. During the 1997 delineation, willows were documented at 6,154 to 6,250, but no wetlands were documented.

Hydrophytic Plants: This wetland had dense and tall southern cattail (*Typha domingensis*) and California bulrush, with cattail being more dominant in the wettest areas. Narrow-leaf willow surrounded the edges of this wetland. Nonnative golden-crown grass also was present within the wetland and Bermuda grass and iceplant (*Carpobrotus edulis*) were dominant in the understory in the upland areas around the edges of the wetland.

Hydric Soil: Hydric soil indicators were not identified; however, the presence of surface water in August, the dry season, would indicate that the area is inundated for at least 2 weeks during the growing season, which satisfies as an indicator for Problematic Hydric Soils of seasonally ponded soils.

Wetland Hydrology: The soil was saturated; there was standing water, and a high water table within this wetland.

Upland area between Wetland #7 and the western end of the Argo Ditch (9900-foot mark): No other wetlands were detected west of Wetland #7.

5.0 CONCLUSIONS

The proposed project would result in impacts to 0.093 acre of jurisdictional wetlands that were previously mitigated in conjunction with the channel clearing that was authorized by USACOE pursuant to Nationwide Permit No. 31 in 1998.

The Argo Ditch is a man-made flood control structure that falls under the jurisdiction of USACOE and CDFW. In 1998, USACOE had exerted jurisdiction over the Argo Ditch because it ultimately discharges to the storm drainage system, which outfalls to the Pacific Ocean, a navigable water body pursuant to Section 404 of the Clean Water Act. USACOE and CDFW agreed to allow LAWA to perform clearance of 0.99 acre of vegetation within the Argo Ditch and to maintain the ditch clear of vegetation. Compensatory mitigation at 3:1 was required as a condition of approval, but USACOE approved a roughly 2:1 restoration given vandalism at the site and significant coverage of target species at the restoration sites in KMHRP.³⁶ On August 13, 2009, USACOE acknowledged the impacts had been mitigated for and no further mitigation was required.

Despite regular clearing outside of the breeding season for birds, vegetation periodically regrows. Many of the wetland plants growing within the Argo Ditch are nonnative or weedy species or are associated with early successional wetlands. Further, hydric soils were absent in all but two of the seven wetlands; however, four additional wetlands had standing water, which satisfied requirements as an indicator for Problematic Hydric Soils, and one wetland met classification based on the Problematic Hydric Soils section of the Regional Supplement WDM.

The proposed project would convert the easternmost portion of the Argo Ditch from a partially earthen-bottom ditch with a 720-foot long concrete apron to a concrete box channel. As a result of the 2013 delineation, the proposed project would result in removal of 0.09 acre of wetland vegetation within the area previously cleared for channel clearing (Table 5-1, Acres of Wetland in the Argo Ditch and Project Area).

TABLE 5-1
Acres of Wetland in the Argo Ditch and Project Area

	Total Acres of Wetland 2013 in Argo Ditch	Wetlands within Project Impact Area	Previously Mitigated Acres in the Argo Ditch
Argo Ditch	1.02	0.09	0.99

The proposed project would be an allowable activity pursuant to Nationwide Permit No 39. Proceeding under Nationwide Permit No 39 would require a pre-construction notification to be submitted to the USACOE, supported by a jurisdictional delineation and documentation that the required mitigation was completed pursuant to the 1998 authorization to complete channel clearing pursuant to Nationwide Permit No. 31.

³⁶ U.S. Army Corp of Engineers. 9 Dec. 2004. Letter to Mr. Brown regarding the status of wetland mitigation.

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Oth in leuled and WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles State: CA Sampling Point: 5000 Applicant/Owner: City of Los Angeles Section, Township, Range: T 2 S, R 14 W SAUSAL REDONDO GRANT Local relief (concave convex, none): FLAT bottom Slope (%): 0-1% Landform (hillslope, terrace, etc.): WEBROW DICH OFFE Lat: 370594.527 Long: 375 7822.01/ Datum: GCS NAD 83 Subregion (LRR): NWI classification: RUSRAX - riverine Soil Map Unit Name: No Dota Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No ______ (If no, explain in Remarks.) Are Vegetation X, Soil X, or Hydrology _____ significantly disturbed? YE3 Are "Normal Circumstances" present? Yes ___ Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.) Man-Maor CHannel SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? DITCH DAYLIGHTS FROM A Remarks: LOCATION WITERE AN OPEN SOIL BOTTOM CHANEL WI BOX CHANNEL Kecontly VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: % Cover Species? Status Tree Stratum (Plot size: _____) Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: OBL species FACW species FAC species FACU species = Total Cover Column Totals: Prevalence Index = B/A = _ Hydrophytic Vegetation Indicators: Dominance Test is >50% X Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) _(n() = Total Cover ,5=30 ,2=12 Woody Vine Stratum (Plot size: ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic = Total Cover Vegetation Present? % Bare Ground in Herb Stratum % Cover of Biotic Crust _ Remarks: Concrete offin with

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Nearly 100's	either,	site o	t the vege	dulin e	1 posed
US Army Corps of Engineers & CON Crete	Side \$100	e		Arid West - V	ersion 2.0

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch ____ City/County: City of Los Angeles Sampling Date: Applicant/Owner: City of Los Angeles State: CA Sampling Point: C Investigator(s): MCC, ECC Section, Township, Range: T.2 S, R 14 W SAVSAL REDONDO GRAIS Landform (hillslope, terrace, etc.): Landform (hillslope, etc.): Landform (hillslope, terrace, etc.): Landform (hillslope, etc.): Landform (hill T__ Long: 3757872,906 Datum: GCSNAD 83 Subregion (LRR): ___ NWI classification: R4SBAx - Riverine Soil Map Unit Name: No Doto Are climatic / hydrologic conditions on the site typical for this time of year? Yes _ No _____ (If no, explain in Remarks.) Are Vegetation 125, Soil 765, or Hydrology 165 significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? \/O (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area within a Wetland? Hydric Soil Present? Yes Wetland Hydrology Present? The area is a man-made ditch (1949) that has recently been cleared of vegetation and surface soil. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size:) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL. FACW, or FAC: Sapling/Shrub Stratum (Plot size: ____) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ FACW species ___ x 2 = ___ FAC species _____ x 3 = ____ FACU species _____ x 4 = ____ = Total Cover Herb Stratum (Plot size: Visual estimate _ x 5 = ____ 1. Non-native hoots Column Totals: _____ (A) ____ (B) 2. he baccons plant cully dock 80 Prevalence Index = B/A = ___ Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) 5=50 ,2=20 OO = Total Cover Woody Vine Stratum (Plot size: Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover Hydrophytic Vegetation % Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles ____ Sampling Date: 08/19 State: CA Sampling Point: _ Applicant/Owner: City of Los Angeles Investigator(s): MECLECC Charliton / Nex Section, Township, Range: T 2 S, R 14 W Sausal Redonds Land G. Landform (hillslope, terrace, etc.): V- Brites D. tch in Local relief (concave) convex, none): Plat bottom Slope (%): O Subregion (LRR): _____ Lat: 370503,116 Long: 3757823.352 Datum: GCS NAD 83 NWI classification: R45BAx - nivening Soil Map Unit Name: No Data No ____ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes ______ Are "Normal Circumstances" present? Yes _____ No X Are Vegetation X , Soil X , or Hydrology \(\subseteq S \) significantly disturbed? Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.) man made direct SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? The area is annuan-mode ditch (1949) that has recently been cleared of regetation and Remarks: surface soil. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: _____) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ___ FACW species _____ x 2 = ___ FAC species FACU species UPL species 1. PHILLIAMS UN Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ,5=10 ,2=4 20 = Total Cover Woody Vine Stratum (Plot size: ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic = Total Cover Vegetation % Bare Ground in Herb Stratum % Cover of Biotic Crust Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region ____ Sampling Date: _ \$ \ \ 08 / 13 Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles State: CA Sampling Point: 0400 Applicant/Owner: City of Los Angeles Investigator(s): MCC, ECC Charton / Rex Section, Township, Range: T25, R14W Source Control Con Landform (hillslope, terrace, etc.): Debrotes Oitchinder Local relief (concave) convex, none): f/at bottom Slope (%): 0-Subregion (LRR): Lat: 370472.646 Long: 375.7823.797 Datum: GCS.NAD 83 Soil Map Unit Name: No Data NWI classification: R45BAx - riverne Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.) Are Vegetation X, Soil , or Hydrology Ysignificantly disturbed? Are "Normal Circumstances" present? Yes _____ No ____ SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: The area is a man-made ditch (1949) that has recently been cleared of vegetation and surface soil VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: ____) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: ____) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ FACW species x 2 = FAC species 10 x4= FACU species ___ Herb Stratum (Plot size: UPL species x 5 = _ Column Totals: ___ Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ,5=5 ,2=2 ____ = Total Cover Woody Vine Stratum (Plot size: 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic _____ = Total Cover Vegetation

Wrack line 25'

Present?

% Cover of Biotic Crust ____

Remarks:

% Bare Ground in Herb Stratum

Project/Site: LAX Runway Safety Area/Ar	go Ditch Cir	v/County City of L	os Angeles	Sampling Date:	8/8/23
Applicant/Owner: City of Los Angeles	011	y, county. <u>Stry Str</u>	State: CA	Sampling Point:	0050
Investigator(s): Campbell Bielte	7 † so		nge: T 2 S, R 14 W		
andform (hillslope, terrace, etc.):	De Milate	celet lanx	#/s	Thattam our	- 100 A-1
andform (hillslope, terrace, etc.):	7-1717 - COM	ocal relief (concave,	convex, none): 16	U 242 -	e (%): <u>O T</u>
Subregion (LRR):		7044 2.770	Long: 3/3/1/2	-7, /3 Datum	: OUSNA
Soil Map Unit Name: No Data			NWI classi		tx - nix
re climatic / hydrologic conditions on the site					
re Vegetation, Soil, or Hydrol	ogy $\stackrel{\gamma e)}{-}$ significantly dis		Normal Circumstances		
re Vegetation, Soil, or Hydrol	ogy naturally proble	ematic? NO (If ne	eded, explain any answ	vers in Remarks.)	men made
SUMMARY OF FINDINGS – Attach	site map showing s	ampling point l	ocations, transect	ts, important fea	tures, etc
Hydrophytic Vegetation Present? Ye	No de	Is the Sampled	Агеа		
Hydric Soil Present? Ye	s No W		nd? Yes	No X	
	S X No X	and become the access			
Remarks: The area is a man-1	made ditch (19	(49) that	nas recently	been cleare	ed of
vegetation and surface	e soil.				
/EGETATION – Use scientific nam	es of plants.				
		Dominant Indicator	Dominance Test wo	rksheet:	
Tree Stratum (Plot size:)		Species? Status	Number of Dominant That Are OBL, FACW	Species 2	(A)
1			That Are OBL, PACK	, or PAC.	(^)
2			Total Number of Dom Species Across All St		(B)
3 4					(0)
Sapling/Shrub Stratum (Plot size:	=	Total Cover	Percent of Dominant That Are OBL, FACW	Species $\sqrt{2} = 1$	00% (A/B)
Saping/Snrub Stratum (Plot size:			Prevalence Index we	orksheet:	
			Total % Cover of		by:
2/ 3			OBL species		
4			FACW species		
5.			FAC species		
	ect ====================================	Total Cover	FACU species		
Herb Stratum (Plot size: 22 ft frags)	7987		UPL species	x 5 =	
1. O Setano pania		100M FAC	Column Totals:	(A)	(B)
2. O Persicante lep	mthitolia 9	DOM_PACW	Dravelence Inde	ex = B/A =	
3. 0			Hydrophytic Vegeta		
			Dominance Test		
			Prevalence Index		
6			Morphological Ac	daptations ¹ (Provide s	upporting
8. ,5=11.5 ,2=4.6			data in Remai	rks or on a separate s rophytic Vegetation¹ (
Woody Vine Stratum (Plot size:		Total Cover			
1			¹ Indicators of hydric s be present, unless dis		
2		Total Cover	Hydrophytic		
W Dave Convent in Llast Stratum			Vegetation	res No	
% Bare Ground in Herb Stratum	% Cover of Biotic Crus	3	1.16261K1		
Remarks:	109 had harles	10			
P	reg had herbicion (d	((()			
	Thereamy (9)	41111/			
		že.	4		

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of L	os Angeles Sampling Date: 8/4/20/3
Applicant/Owner: City of Los Angeles	State: CA Sampling Point: -06603
	nge: T2S, R14W Sansal Redords Lend Grant
Landform (hillslope, terrace, etc.): 1 1 1 1 1 1 1 1 Local relief (concave,	convex none): Flat bottom Slope (%):
Subregion (LRR): Lat: 370411.705	
	NWI classification: R4SBAx - riverine
	(If no, explain in Remarks.)
	"Normal Circumstances" present? Yes No X
	eeded, explain any answers in Remarks.) Man made drift
	100 11000
SUMMARY OF FINDINGS – Attach site map showing sampling point I	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sampled	1 Arna
Hydric Soil Present? Yes No within a Wetlan	X
Wetland Hydrology Present? Yes No No	
Remarks: 1 HI - Class Days & I'ce wear	wroppers throughint.
	1
by Yu inch sparatie clay depo	000000000000000000000000000000000000000
VEGETATION – Use scientific names of plants.	3 ft of bue shall rel kottom
Absolute Dominant Indicator Tree Stratum (Plot size:) % Cover Species? Status	Dominance Test worksheet:
Tree Stratum (Plot size:)	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.	
3	Total Number of Dominant Species Across All Strata: Z (B)
4	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:) = Total Cover	That Are OBL, FACW, or FAC: 10/0 (A/B)
1. <u>b</u>	Prevalence Index worksheet:
2. 0	Total % Cover of: Multiply by:
3	OBL species x 1 =
4	FACW species x 2 =
5	FAC species 2311 x 4 = 732 44
Herb Stratum (Plot size: = Total Cover	1101 energies 33 3> x5= 16 165
1. O Browns SP SSI- Nom Opting	Column Totals: 44 (A) 1346 (B) 49 5 729
2. U too Erigeron canadensis 11/2 Dom Fact	470 115
3. <u>Bue</u>	40
4	Hydrophytic Vegetation Indicators: Dominance Test is >50%
5	Prevalence Index is ≤3.0¹
6	Morphological Adaptations¹ (Provide supporting
8	data in Remarks or on a separate sheet)
8	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	¹ Indicators of hydric soil and wetland hydrology must
1	be present, unless disturbed or problematic.
2 = Total Cover	Hydrophytic
% Bare Ground in Herb Stratum % Cover of Biotic Crust	Vegetation Present? Yes No
	2/(1
Remarks: Transpit 7/H	235 -2671 herbicida hed
Remarks: Transport 26th 6-16 ft have x-2255T dead musice	the con red dais
6-16 Ft 1 3) % it 1 1 Bonns	(65
6-16 + have K-225ft. I dead Invasive	
US Army Corps of Engineers	Arid West - Version 2.0
	80 w of le pleasing

Project/Site: LAX Runway Safety Area/Argo Ditch	City/County: City of I	Los Angeles Sampling Date: 8/9/13
Applicant/Owner: City of Los Angeles		State: CA Sampling Point: 0.400 (A
Investigator(s): MCC, EEC carleton /RUX	Section, Township, Ra	ange: T2S, R14W Sousal Rodando Gar
Landform (hillslope, terrace, etc.): Vebat dit		convex, none): /2/ut hottom Slope (%): 0-10
		_ Long: 3757825 . 133 Datum: GCS NAD
Soil Map Unit Name: NO Data		NWI classification: RHSBAx - niv
Are climatic / hydrologic conditions on the site typical for this	s time of year? Yes No _	(If no, explain in Remarks.)
Are Vegetation X , Soil X , or Hydrology X s	ignificantly disturbed? Are	"Normal Circumstances" present? Yes No X
Are Vegetation, Soil, or Hydrologyn	aturally problematic?NO (If n	needed, explain any answers in Remarks.) Mm - Made
SUMMARY OF FINDINGS - Attach site map	showing sampling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No.	0 X X	2.2
Hydric Soil Present? Yes No	o Is the sample	VA.
Wetland Hydrology Present? Yes No	o within a vversa	Tes No
Remarks: The area is a man-1	made ditch (19	49) that has recently
been cleared of vegetation of		
U		
VEGETATION – Use scientific names of plant	ts.	
Tree Stratum (Plot size:)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2		
3		Total Number of Dominant Species Across All Strata: (B)
4		Percent of Dominant Species 50
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW, or FAC: (A/B)
1		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3.		OBL species x 1 =
4		FACW species x 2 =
5		FAC species 10 x3= 30
1 1 0 1 0	= Total Cover	FACU species $25 \times 4 = 100$
Herb Stratum (Plot size: U.San essimble 25	1 trusect 25	UPL species x 5 =
1. Now natur hybraco Unk	97/4	Column Totals: 35 (A) 30 (B)
3. Erigeron canadeasis	25 Pom Facu	Prevalence Index = B/A = 3,3
4. Flantego Janceolata	10 Dun Fac	Hydrophytic Vegetation Indicators:
5	The fac	Dominance Test is >50%
6		Prevalence Index is ≤3.01
7		Morphological Adaptations¹ (Provide supporting
8.		data in Remarks or on a separate sheet)
\$5 = 17,5 -22 7V.	35 = Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	a fill a martine and a second	
1		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2		
	= Total Cover	Hydrophytic Vegetation
	of Biotic Crust	Present? Yes No No
Remarks:	1	
\h	75	1
\ . W		Vrack like
,		Mrs. du e

Project/Site: LAX Runway Safety Area/Argo Ditch	City/County: City of I	Los Angeles	Sampling Date: 08/18/13
Applicant/Owner: City of Los Angeles	, ,	State: CA	Sampling Point: 050000
Investigator(s): MCC. EGE charely / Re	Section, Township, Ra	ange: T. 2 S, R 14 W	Saysel Redord Lade #
Landform (hillslope, terrace, etc.):	h interest Local relief (concave.	convex. none): Flat	t hottom Slope (%): 0-10/
Subregion (LRR):			
Soil Map Unit Name: No Data			cation: R4SBAx -river
Are climatic / hydrologic conditions on the site typical for this			
Are Vegetation, or Hydrology $\frac{\sqrt{c}}{2}$ s	significantly disturbed? Are	"Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrology r			ers in Remarks.) Man - made of
SUMMARY OF FINDINGS – Attach site map			
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: The area is a man-machine cleared of vegetation and	within a Wetla	nd? Yes 💆	
VEGETATION – Use scientific names of plan	ts.	(HIM CONCORDED CONCORD	
	Absolute Dominant Indicator	Dominance Test work	ksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant S	
1		That Are OBL, FACW,	or FAC: (A)
3.		Total Number of Domir Species Across All Stra	
4			
Continue (Charles Charles (District	= Total Cover	Percent of Dominant S That Are OBL, FACW,	
Sapling/Shrub Stratum (Plot size:) 1		Prevalence Index wor	rksheet:
2		Total % Cover of:	CONTRACT COURT
3.			x1=
4	-	FACW species	x2= (D
5			x 3 =
unt out of the strate	= Total Cover	FACU species 10	
Herb Stratum (Plot size: Vishal estimate	10 Am Raci	UPL species	
1. Perstearing Iganthation	5 Dan Facu	Column Totals:	S (A) SD (B)
3	- John Jagew	Prevalence Index	= B/A = 1 3,3
4		Hydrophytic Vegetation	
5		Dominance Test is	
6		Prevalence Index i	s ≤3.0¹
7		Morphological Ada	ptations ¹ (Provide supporting
8			s or on a separate sheet) phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	= Total Cover	Problematic riyuro	priytic vegetation (Explain)
1		¹Indicators of hydric so be present, unless distr	il and wetland hydrology must urbed or problematic.
2.	= Total Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover	of Biotic Crust	Present? Ye	s No X
Remarks:	The same of the sa	-	
	17,1		
	distribution of the state of th	wae.	K like
1	The American		

roject/Site: LAX Runway Safety Area/Argo Ditch	City/County: City of	
pplicant/Owner: City of Los Angeles		State: CA Sampling Point:
evestigator(s): MCC, ECC Charles / ICe	X. Section, Township, F	Range: T2S, R14W Sansal RedorNoted Ofto
		e, convex, none): Flat bottom Slope (%): 0-1%
		Long: 3757826.024 Datum: GCSNAD
oil Map Unit Name: No Data		NWI classification: R45BA× -rive
re climatic / hydrologic conditions on the site typical for t		
re Vegetation Soil or Hydrology	Name and the same	e "Normal Circumstances" present? Yes No
e Vegetation, Soil, or Hydrology		* ,
		needed, explain any answers in Remarks.) Men make of the locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No X	-
Hydric Soil Present? Yes	Is the Sample	
Netland Hydrology Present? Yes	No within a Wetl	land? Yes No
Remarks: The area is a main-no cleared of vegetation and	nade ditch (1940 soil.	1) that has recontly been
EGETATION – Use scientific names of pla		7 CONTROLLES CONTROLLE
Free Stratum (Plot size:)	Absolute Dominant Indicator <u>% Cover Species? Status</u>	
•		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
		Total Number of Dominant Species Across All Strata: (B)
		Percent of Deminent Species
anling/Chr. de Ctastum / Olat ains	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
apling/Shrub Stratum (Plot size:		Prevalence Index worksheet:
3000 00 00 00 00 00 00 00 00 00 00 00 00		Total % Cover of: Multiply by:
		OBL species x 1 =
V		FACW species $\frac{5}{2}$ x 2 = $\frac{1}{2}$
		FAC species x 3 =
and and do	= Total Cover	FACU species $10 \times 4 = 40$
erb Stratum (Plot size: 13 ma est my 42	1- 0 6	UPL species $x 5 = \frac{1}{2}$ Column Totals: $\frac{1}{2}$ (A) $\frac{5}{2}$ (B)
Errgeren coneders!	10 gim Fac	Column Totals: (A) SD (B)
Persicania lapathital		Prevalence Index = B/A = 313
		Hydrophytic Vegetation Indicators:
	- NEXT - III	Dominance Test is >50%
		Prevalence Index is ≤3.0¹
		Morphological Adaptations¹ (Provide supporting
		data in Remarks or on a separate sheet)
15= 7.5%	= Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
/oody Vine Stratum (Plot size:)	100,000	
		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	= Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cov	er of Biotic Crust	Present? Yes No No
lemarks:		
Mi	25'	
Wrack II	, , , ,	21
112		11/

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: State: CA Sampling Point: (1900) Applicant/Owner: City of Los Angeles Investigator(s): MCCFEE Charles / Nex Section, Township, Range: T2S, R14W Squigl Reland Grant Landform (hillslope, terrace, etc.): U-fals Ditch m (ac Local relief (concave, convex, none): Flat bottom Slope (%): O-Subregion (LRR): ______ Lat: 370289.824 Long: 3757826.469 Datum: GCSNAD83 NWI classification: RUSRAX - rivering Soil Map Unit Name: No Data Are climatic / hydrologic conditions on the site typical for this time of year? Yes No ____ (If no, explain in Remarks.) Are Vegetation ______, Soil ______, or Hydrology \(\frac{1}{2} \) significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____ (If needed, explain any answers in Remarks.) Men - Made J. tc Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? NO SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Yes No No No No No Within a Wetland? Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: The area is a man-made ditch (1949) that cleared of vegetation and soil. VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Species? Status Number of Dominant Species That Are OBL. FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species _____ = Total Cover That Are OBL. FACW, or FAC: Sapling/Shrub Stratum (Plot size: ____) Prevalence Index worksheet: Total % Cover of: Multiply by: 2. OBL species x 1 = FACW species FAC species FACU species _ UPL species Column Totals: (5) (A) 2. Erigaron Prevalence Index = B/A = 33 Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.01 ___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size: __ ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic = Total Cover Vegetation % Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Remarks: WINCK 11L

Project/Site: LAX Runway Safety Area/Argo Ditc	h a::	City of I	os Angolos	Compling Data:	8/18/13
Project/Site: LAX Runway Salety Area/Argo Ditc	City	//County: City of L	State: CA	_ Sampling Date: _	60(11)0
Applicant/Owner: City of Los Angeles			nge: T 2 S, R 14 W	_ Sampling Funt	1 1 1 1
nvestigator(s): MDR. Comple / 15, elfe 1	Se led	ction, Township, Rai	nge: 123, K14 VV	hadhan a	CON AS LENGO
andform (hillslope, terrace, etc.):		cal felief (concave,	convex, none): Flur	Slop	oe (%):
Subregion (LRR):	Lat:	10257,293	Long: 3757 87		
Soil Map Unit Name: No Dorto			NWI classifi		sax nven
Are climatic / hydrologic conditions on the site typical fo					V
Are Vegetation X , Soil X , or Hydrology Ye			Normal Circumstances"		
Are Vegetation, Soil, or Hydrology	naturally proble	matic? No (If ne	eded, explain any answ	ers in Remarks.)	W/ veg re
SUMMARY OF FINDINGS - Attach site m	ap showing sa	ampling point l	ocations, transects	s, important fe	
	2.2	T	<u> </u>		
Hydrophytic Vegetation Present? Yes	No X	Is the Sampled	Area	11	
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No	within a Wetlar	nd? Yes	No	- 1
Remarks: The area is a man-mad	e ditch (1	949) that	has recently	1 been c	leared
of vegetation and soi					
0		×			
VEGETATION – Use scientific names of p			T		
Tree Stratum (Plot size:)		ominant Indicator pecies? Status	Dominance Test wor Number of Dominant S		
1.			That Are OBL, FACW		(A)
2			Total Number of Domi	nant	
3			Species Across All Str	-/	(B)
4			Percent of Dominant S	Species 🙈	
OU/Obt-Ctestum /Diet eine:	=	Total Cover	That Are OBL, FACW		(A/B)
Sapling/Shrub Stratum (Plot size:) 1.			Prevalence Index wo	rksheet:	
2.			Total % Cover of:	Multipl	y by:
3.			OBL species	x1=	
4			FACW species	x2=	36 ID
5			FAC species	5 x 3 = _/	3 64
Herb Stratum (Plot size: Z8 A franscet	=	Total Cover	FACU species	20 x4= 4	595
1. Ednera Carackersi's	7.17	DOM Face	UPL species 450 Column Totals: 7	1/9 X5= 1.	1 (B) (4)
2 Brumus so	129.	Down Faget	Column Totals	(A)	4
3. Raphanus sativus	7/2	Ve	Prevalence Inde	x = B/A =	\$ 20 4,
4. Plantego lanceolata	5%	Ric	Hydrophytic Vegetat		
5			Dominance Test	경기 - 하루팅 및 .	
6			Prevalence Index		aumorting
7.			data in Remar	aptations ¹ (Provide ks or on a separate	sheet)
8. <u> </u>			Problematic Hydr	ophytic Vegetation ¹	(Explain)
Woody Vine Stratum (Plot size:)	=	Total Cover			
1			¹ Indicators of hydric s be present, unless dis	oil and wetland hyd	rology must
2			be present, unless dis	sturbed or problema	
	=	Total Cover	Hydrophytic Vegetation	\	
% Bare Ground in Herb Stratum % 0	Cover of Biotic Crus	st	Present? Y	'es No <u>/</u>	
Remarks: 75.1° 25 23	<u> </u>		1	Δ.	
	715/2	alut 13	q ft	78	A
200% war	MAGRIS K	Plantago	sk 35%	ink took in	llar
SOV. A Engren L-nn cas	mylos	(DS)16	104.	AN grass	
40% /2000			1 //22 -234	1 Arid Most	– Version 2.0
US Army Corps of Engineers Thanks			herb 5% plan	tyo And west	- VEISIUII 2.U
tox-satulation = 5%					

WETLAND DETE	ERMINATION DATA FORM	I – Arid West Region	11.
Project/Site: LAX Runway Safety Area/Argo Ditch	City/County: City of	Los Angeles	Sampling Date: 48/13
Applicant/Owner: City of Los Angeles		State: CA	Sampling Point: 1200 US
Investigator(s): MCC-ECE Charleton Mex	Section, Township R	Pange: T 2 S, R 14 W	Sausal Redood land
Landform (hillslope, terrace, etc.): UBrutes Ditch.	in Level of Tocal relief Concave	Occurrence Flat	bottom sina (0) 0-10/2
Subregion (LRR):	Lat: 370228.883	Long: 3757017 3	GO Dolumi GCS ALAD 85
Soil Map Unit Name: No Data			tion: R48 BAX - riveni
Are climatic / hydrologic conditions on the site typical for the	his time of year? Yes	/If no explain in Re	marks)
Are Vegetation X Soil X or Hydrology 44	chaificantly disturbed? Are	"Normal Circumstance"	X
Are Vegetation, Soil, or Hydrology	naturally problematic? NO (If r	needed, explain any answers	in Remarks.) Man - Mul.
SUMMARY OF FINDINGS - Attach site map	showing sampling point	locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks:—The area is a man—mad	Is the Sample within a Wetla	ed Area and? Yes	_ No
cleared of vegetation and so	111.		
VEGETATION – Use scientific names of plan	nts.	TERRE STATES THE SOIL SAME	
Tree Stratum (Plot size:)	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test worksh	
1	CONTRACTOR	Number of Dominant Spe That Are OBL, FACW, or	
2		Total Number of Dominar	
3		Species Across All Strata	
Sapling/Shrub Stratum (Plot size:)	= Total Cover	Percent of Dominant Sper That Are OBL, FACW, or	
1		Prevalence Index works	heet:
2		Total % Cover of:	Multiply by:
3		OBL species	
4		FACW species	
5		FAC species	
Herb Stratum (Plot size: Viral erliphic	= Total Cover	UPL species	x4= <u>70</u> x5=
1			
2. The as 1000	100 5	1	
3. Erigeron Canadensis 4. Pericaria langthi Police	5 Dan Facu		B/A = 33
5		Hydrophytic Vegetation Dominance Test is >5	
6		Prevalence Index is ≤	The state of the s
7.			tions ¹ (Provide supporting
8		data in Remarks of	on a separate sheet)
Woody Vine Stratum (Plot size:)	= Total Cover	Problematic Hydrophy	tic Vegetation ¹ (Explain)
1		¹ Indicators of hydric soil ar be present, unless disturbe	nd wetland hydrology must ed or problematic.
% Bare Ground in Herb Stratum % Cover	= Total Cover	Hydrophytic Vegetation Present? Yes	No_X
Remarks:	wrack lil	•	

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: Applicant/Owner: City of Los Angeles State: CA Sampling Point: Investigator(s): MCC, ECC Charlen/Rex Section, Township, Range: T.2 S, R 14 W Sausa Redends Land Govern Landform (hillslope, terrace, etc.): V-Brokes Oitch when Local relief (concave) convex, none): Fact bottom Slope (%): 0-1% Subregion (LRR): Lat: 370196.412 Long: 3757827.780 Datum: GCS NAD 83 Soil Map Unit Name: No Doctor NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.) Are Vegetation Soil , or Hydrology ______significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _, Soil _____, or Hydrology ____ naturally problematic? NO (If needed, explain any answers in Remarks.) Mca - made Add Are Vegetation SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: The area is a man-made ditch (1949) that has recently been VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: _____) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _ x1= 10 x2= 10 FACW species FAC species = Total Cover FACU species Herb Stratum (Plot size: UPL species Column Totals: Prevalence Index = B/A = __ Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) VZ= 3 = Total Cover Woody Vine Stratum (Plot size: ____) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover Hydrophytic Vegetation % Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Remarks: Wrack lin.

State CA sampling Port: Apt 1400 State Changeles State CA sampling Port: Apt 1400 Section, Township, Range: T.2.S. R.1.4 W Succes (Selected Level of Control (Riblishe), terrace, etc.).	Project/Site: LAX Runway Safety Area/Argo Ditch	City/County: City of L	os Angeles Sampling Date: 8/8//3
Interpretation (Pillolope, terrace, etc.): Lat: 77017.9 Long: 37 57 52 53 18 1 Datum: GCS NAD Not destallated in: 18 19 Datum: GCS NAD Not destallated in			
il Mep Unit Name: No Dicta climatic Inydrologic conditions on the site typical for this time of year? Yes X No X (If no, explain in Remarks.) **North Marker** **North Mark	nvestigator(s): Campbel / Bix Ite IT	Section, Township, Ra	ange: T2S, R14W Sausal Redendo Lund Gra
il Mep Unit Name: No Dicta climatic Inydrologic conditions on the site typical for this time of year? Yes X No X (If no, explain in Remarks.) **North Marker** **North Mark	andform (hillslope, terrace, etc.):	Local relief (concave)	convex, none): 14+ bottom slope (%): 0-1%
il Mep Unit Name: No Dicta climatic Inydrologic conditions on the site typical for this time of year? Yes X No X (If no, explain in Remarks.) **North Marker** **North Mark	Subregion (LRR): Lat:	370/67.94	Long: 3757825.187 Datum: GCS NAD
Section Section** Sect			NWI classification: R4SBAx - nycrin
Sepetation X Soil X or Hydrology Inc. significantly disturbed? Are "Normal Circumstances" present? Yes No Yespetation Soil or Hydrology naturally problematic? NO (if needed, explain any answers in Remarks.) Men More or Mydrology and Problematic? NO (if needed, explain any answers in Remarks.) Men More or Mydrophytic Vegetation Present? Yes No X is the Sampled Area within a Wetland? Yes No X recently veen cleared of vegetation and Soil. **GETATION - Use scientific names of plants. *	는데 마시아를 가입니다. 그는 마시아 그는 그는 그는 그는 그는 그를 보고 생각하고 하지만 하면 하고 하고 있다면 보다고 하는데 하는데 하는데 하는데 보고 있다면 보고 있다면 보고 있다. 그는 그는	year? Yes X No	(If no, explain in Remarks.)
Soli			
JUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Mo No			
within a Wetland? Yes No Wetland? Yes No Wetland? Yes No Within a Wetland? Yes No Wetland? Yes No Within a Wetland hydrology must be present, unless disturbed or problematic. Yes No Wetland? Yes No Within a Wetland hydrology must be present, unless disturbed or problematic. Yes No Wetland? Yes No Within a Yes No Wetland? Yes N	UMMARY OF FINDINGS – Attach site map showin	P. N. ANDRON P. S.	도시 하는 사람이에서 제한 아니라 마른 사람이 되었다면 하는데 아니라
No area is et man-made ditch (1949) that has reamans: Fast food trash The area is et man-made ditch (1949) that has reamans.	Hydrophytic Vegetation Present? Yes No		
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### Cover of Biotic Crust #### Cover of Biotic Crust #### Cover of Biotic Crust #### Cover of Biotic Crust ###################################			la dista (19119) that has
Absolute % Cover Steeles? Status (Plot size: Absolute % Cover Steeles? Status (A)	faid food trash recently	reals a man y been cleared	of vegetation and soil.
Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Arross All Strata: (B) Percent of Dominant Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)	EGETATION – Use scientific names of plants.	14 2000	
That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species X 1 = FACW species X 2 = FACW species X 3 = FACU species X 4 = UPL species X 5 = Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Voody Vine Stratum (Plot size: Total Cover All Faculty Stratum **Cover of Biotic Crust** **Total Cover Hydrophytic vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) **Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes No **Total Cover **A = Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Total Cover **A = Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Total Cover **A = Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Total Cover **A = Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Total Cover **A = Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Total Cover **A = Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Total Cover **A = Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Total Cover *	4.000 74.70000		
Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (AVB) Percent of Dominant Species That Are OBL, FACW, or FAC: (AVB) Provalence Index worksheet: Total & Cover of. Multiply by. OBL species			
Septing/Shrub Stratum (Plot size:			
Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species			
That Are OBL, FACW, or FAC: (A/B)			
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species		_ = Total Cover	
Total % Cover of: Multiply by: OBL species	Sapling/Shrub Stratum (Plot size:)		Drawel and a ludey workshoot:
OBL species x1 = FACW species x2 = FACW species x3 = FACW species x3 = FACW species x4 = UPL species x5 = Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0' Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (PExplain) Voody Vine Stratum (Plot size:			
FACW species			
FAC species			. I policy and the company of the c
FACU species			and the second s
UPL species		= Total Cover	77
Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is \$\leq 3.0\cdot Prevalence Index is \$\leq 3.0\cdot Morphological Adaptations\cdot (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation\cdot (Explain)	Herb Stratum (Plot size: 26 ft Tren)		
Prevalence Index = B/A =	. All species <5/		Column Totals: (A) (B)
Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Total Cover Hydrophytic Vegetation Present? Yes No Xemarks: No Yes No Xemarks: No Yes No Xemarks: Yes No Xemarks: Yes No Xemarks: Yes	•		Downless Index - B/A -
Dominance Test is >50% — Prevalence Index is ≤3.0¹ — Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. — = Total Cover # Hydrophytic Vegetation Present? We Memarks: O A full asky 5ft A Lead Lift 40 } Re Just 140 A Report 140 A R	•		
Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Femarks: Bare Ground in Herb Stratum Cover of Biotic Crust Present? Yes No	•		
			The state of the s
data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Vegetation Present? We will ashe Stratum Str			Morphological Adaptations ¹ (Provide supporting
Total Cover Problematic Hydrophytic Vegetation (Explain)			data in Remarks or on a separate sheet)
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover			Problematic Hydrophytic Vegetation¹ (Explain)
be present, unless disturbed or problematic. = Total Cover	Voody Vine Stratum (Plot size:)		
= Total Cover Hydrophytic Vegetation Yes No X Remarks: 0 Yes No X Remarks: 10 Yes Yes No X Remarks: 10 Yes Yes No X Remarks: 10 Yes Yes Yes Remarks: 10 Yes Yes Remark			'Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic.
Remarks: O Semarks: O Semark			
1967 R- dead lith 40), R= 10% dead			Vegetation Yes No X
1967 R- dead lith 40% R= 101- dead	Remarks:		1 - 200
1967 R- dead lith 40% R= 101- dead	50 10 11 11 1		- Lat
	is starting		
	lithe	1 10	a R- dead (+) 40), 101- 201
Army Corps of Engineers	S Army Corps of Engineers	190	

WETLAND DETERMINATION DATA FORM - Arid West Region State: CA Sampling Point: __ Applicant/Owner: City of Los Angeles Investigator(s): MCC, ECC (heriton / Section, Township, Range: T 2 S, R 14, W Sausal Redendo Lend Grent Landform (hillslope, terrace, etc.): Landform (hillslope, etc.): L Lat: 370137-470 Long: 3757828.594 Datum: GCS NAD 83 Subregion (LRR): _____ NWI classification: R45BAx - rivering Soil Map Unit Name: No Data Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes _____ No X Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? (If needed, explain any answers in Remarks.) Men made Illeh Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? V1O SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area No XX Hydric Soil Present? within a Wetland? Wetland Hydrology Present? The area is a man-made ditch (1949) that has recently VEGETATION – Use scientific names of plants. Dominance Test worksheet: Absolute Dominant Indicator % Cover Species? Status Tree Stratum (Plot size: _____) Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species _____ = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: _____) Prevalence Index worksheet: Total % Cover of: OBL species FACW species FAC species FACU species _ 20 20 x5= (00/00 UPL species Prevalence Index = B/A = 3.1 Hydrophytic Vegetation Indicators: __ Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ,5= 17.5 :2=7 35 = Total Cover Woody Vine Stratum (Plot size: ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic = Total Cover Vegetation % Cover of Biotic Crust Present? % Bare Ground in Herb Stratum _ Remarks: Wrack

WETLAND DETERMINATION DATA FORM	- Arid West Region
Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of	Los Angeles Sampling Date: \$\\8\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Applicant/Owner: City of Los Angeles	State: CA
Investigator(s): Met, ECC / Chord for Section Township B	ango: T2 S R 14 W C. (1) (1)
Landform (hillslope, terrace, etc.): V 15 (1) Local relief (concave)	December paper Flathorna and O-191
Subregion (LRR): Lat: 370106- 999	Long: TTC 7229 page Date GCS ALAD 90
	NWI classification: R4 SRAx - civerine
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No_	(If no explain in Personal)
Are Venetation V O 11	
Aug 1 per a	"Normal Circumstances" present? Yes No
SUMMARY OF FINDINGS – Attach site map showing sampling point	
Hydrophytic Vegetation Present? Hydric Soil Present? Yes No	d Area
Wetland Hydrology Present? Yes No within a Wetla	ind? Yes No
Remarks: The area is a man-made ditch (1949) th	as has necounted bearing
cleared of vegetation and soil.	at his reality peers
<u> </u>	
VEGETATION – Use scientific names of plants.	
Tree Stratum (Plot size:) Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2	Total Number of Dominant
3	Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size:) = Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1	Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3	OBL species x 1 =
4	FACW species $20 \times 2 = 40$
Total Course	FAC species x 3 = FACU species \(\begin{array}{c} \lorent & \delta & \delt
Herb Stratum (Plot size: Minal extinate = Total Cover	LIDI anasisa
1. 20% ann of Grea	Column Totals: (A) (B)
2. 1070 Unk helburg pernens	.,
3. Echnodos promestatestado Zo flom PACIO	Prevalence Index = B/A =
4. Erigeron canadersis 10 Don FACE	Hydrophytic Vegetation Indicators:
6	Dominance Test is >50% X Prevalence Index is ≤3.0¹
7	Morphological Adaptations¹ (Provide supporting
8	data in Remarks or on a separate sheet)
	Problematic Hydrophytic Vegetation ¹ (Explain)
1	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover	Hydrophytic
% Bare Ground in Herb Stratum % Cover of Biotic Crust	Vegetation Present? Yes No
Remarks: herbin was KII	V
11 27	
Vict 1	Cirass
N. J.	

Hydric Soil Indicators Remarks:

The following is justification for a positive problematic hydric soil determination: the landscape setting of this ditch is concave, which is a landscape position that is likely to collect or concentrate water. The area is periodically disturbed to remove vegetation. The area has positive indicators for wetland hydrology and hydrophytic vegetation.

Applicant/Owner: City of Los Angeles Investigator(s): Can Del Stretch Applicant/Owner: City of Los Angeles Investigator(s): Can Del Stretch And Del Stretch And Del Stretch And Candon Person Subregion (LRR): Del Stretch Lat: 3700 6 52 Long: 315 7 8 2 40 Datum Cickness (Signature) Soli Map Uni Name: No Dicho Not classification: Person Are Vegetation Soli Can or hydrology of Significantly disturbed? Are Vegetation Soli Can or hydrology of Significantly disturbed? Are Vegetation Soli Can or hydrology of Significantly disturbed? Are Vegetation Soli Can or hydrology of Significantly disturbed? Are Vegetation Person? Yes No Welland Hydrology Present? Yes No Welland	Project/Site: LAX Runway Safety Area/Argo Ditch	City of I	os Angeles Sempling Date: 4/8/13
Investigator(s): (A) bell Stetle 1 Section, Toynship, Range: 12 S. R. 14 W Sected Enable (and Landtom (nilislope, terrace, etc.): (For Not 1 And Missing terrace, etc.): (For Not 2 And Missing terrace): (For Not 2 A		City/County. City of E	State CA Sampling Point: 201700
Lanctorm (hilistope, terrace, etc.): Subregion (LRR): Lat: \$70076.52 Long: \$75172 40 Datum: \$500 Dat		0 - 1 T 1 - D -	
Subregion (LRR): DCPTO. Lat: \$10076555 Long: \$71578.9.40 Johann. BCSNADE No. Min. No. Control No. Min. Cont	Investigator(s):		
Soli Map Unit Name: No Datio. Not assistication: E4S BAY - rivering Are climate? hydrologic conditions on the sile typical for this time of year? Yes		7 Ch in Local relief (concave)	Convex, none): 1741 DOTTOWN Slope (%): 0 1/1
Are Climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or hydrology analysis significantly disturbed? SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No If a form of the feature of		_ Lat:	
Are Vegetation X Soil X or Hydrology			
Are Vegetation Soil or Hydrology naturally problematic? NO (If needed, explain any answers in Remarks). And Arch Log Microbial Summary of Provided Supporting Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No If a down channel Inflam to Yes Yes No If a down channel Inflam to Yes No If a do	Are climatic / hydrologic conditions on the site typical for thi	s time of year? Yes No _	(If no, explain in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present? Hydric Soil Present? Yes No No Is the Sampled Area within a Wetland? Yes No Is the Sampled Area within a Wetland? Yes No Yes No Is the Sampled Area within a Wetland? Yes No Yes No If I glore Channel Little A to Yes No Yes No Yes No Yes No Is the Sampled Area within a Wetland? Yes No Yes No Yes No Yes No Is the Sampled Area within a Wetland? Yes No Yes No Yes No Is the Sampled Area within a Wetland? Yes No Yes No Yes No Is the Sampled Area within a Wetland? Yes No Yes	Are Vegetation X, Soil X, or Hydrology 45	significantly disturbed? Are	Halletter Patrick State (1912년 - 1914년 -
Hydrophylic Vegetation Present? Hydrophylic Vegetation Present? Hydrophylic Vegetation Present? Yes No within a Wetland? Wetland Hydrology Present? Yes No No within a Wetland? Wetland Hydrology Present? Yes No No	Are Vegetation, Soil, or Hydrology	naturally problematic? NO (If ne	eeded, explain any answers in Remarks.) has made
Hydric Soil Present? Wetland Hydrology Present. Wetland Hydrology Present. Wetland	SUMMARY OF FINDINGS - Attach site map	showing sampling point I	ocations, transects, important features, etc.
Hydric Soil Present? Wetland Hydrology Present. Wetland Hydrology Present. Wetland	Hydrophytic Vegetation Present? Yes X	1008/	
Welfand Hydrology Present? Yes No West About channel Internation West About channel The alecal's a man-made differ (1949) West West About channel Internation West About channel Internation West Wes		lo l	I Area
Remarks: Liter / trask clay conding on SIJEs Pt glove channed intent to 4 the above channed. The area is a man-made direct (1949) the street of vagotation and surfaces. Tree Stratum (Plot size: Absolute	1	lo within a Wetlan	nd? Yes No.4
VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:		, , , ,	101 1 1 1 14.
VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:	Litler /trach clay	cracking on SINC	of 1st above channel bollow to
VEGETATION – Use scientific names of plants. Tree Stratum (Plot size:	4 4	Faline of and The	e orea is a man-made ditch (1949) to
Dominant Indicator Species Status Species		ie neniadical	ly cleared of vegetation and surface so
Tree Stratum (Plot size:	VEGETATION – Use scientific names of plan	11.5.	7
That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Birstata: Species Across All Birstata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: (A) (B) Pervalence Index worksheet: Total Cover (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: (A) (B) Pervalence Index worksheet: Total Cover (A) (A) (B) Pervalence Index worksheet: Total Cover (A) (A) (B) Pervalence Index worksheet: Total Cover (A) (A) (B) Pervalence Index worksheet: Total Cover (B) (A) (A) (B) Pervalence Index worksheet: Total Cover (B) (Column Totals: (Co	Tree Stratum (Plot size:		
2		70 00101 00001001	
3. Species Across All Strata: 4. Sapling/Shrub Stratum (Plot size: 1. Percent of Dominant Species That Are OBL, FACW, or FAC: 1. Total & Cover of Multiply by: 3. Species Across All Strata: 2. Sapling/Shrub Stratum (Plot size: 1. Prevalence Index worksheet: 1. Total & Cover of Multiply by: 3. Species S			1000 NANOTA NE
4			
Sapling/Shrub Stratum (Plot size: 1.			1 170
Prevalence Index worksheet: Total % Cover of: Mulliply by:	Capling/Chruh Stratum /Plot size:	= Total Cover	
2. Total % Cover of: Multiply by: 3. OBL species X 1 = FACW species X 2 = Id 5. FAC species X 2 = Id FACU species X 4 = Id FAC			Prevalence Index worksheet:
3. OBL species			Total % Cover of: Multiply by:
4. 5. Herb Stratum (Plot size: 19 A truspect 1. Pers : Carro Legath, folin 13/1, Drn Falm 2. Brumus Species 13/2 x 4 = Protect 3. Setanta pumi la 1/2 Drn Falm 4. 5. 6. 7. 8. 8. 8. 8. 8. 8. 9577 25 6.9 Woody Vine Stratum (Plot size: 10/2 New Stratum (Plot size: 11/2 S			
FAC species X 3 = ZY			
Herb Stratum (Plot size: 19 A trusted = Total Cover FACU species X 4 =			
1. Press, Caras (a) (A) (A) (B) (B) (Column Totals: 34 (A) (M) (M) (M) (M) (M) (M) (M) (M) (M) (M		= Total Cover	
2. Brums Special 3. Setaria pumila 81. Orm Hydrophytic Vegetation Indicators: 4. Hydrophytic Vegetation Indicators: 5. Dominance Test is >50% Prevalence Index is \$3.0¹ Prevalence Index is \$5.0% Prevalence Index is \$5.0° Preval	Herb Stratum (Plot size: 19 17 17 17 18	211. 1. 17.	
3. Setaria pum a 4. Hydrophytic Vegetation Indicators: 5. Dominance Test is >50% Frevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 1. Problematic Hydrophytic Vegetation¹ (Explain) Voody Vine Stratum (Plot size: 1. Problematic Hydrophytic Vegetation¹ (Explain) 1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation 1. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation 1. Problematic Hydrophytic Vegetation 1. Problematic Hydrophytic Vegetation 1. Problematic Food Problematic. Hydrophytic Vegetation 1. Problematic Food Problematic. 2. Problematic Food Problematic. 2. Problematic Food Problematic Problema			
## Hydrophytic Vegetation Indicators: Dominance Test is >50%	2. Brumus space		Prevalence Index = R/A = 101 3.7
Solution Stratum Stra	3. Jetaria pumila	01, 1/0/2 topic	Hydrophytic Vegetation Indicators:
6	4		
Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)			7
data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size: 1			Morphological Adaptations ¹ (Provide supporting
Woody Vine Stratum (Plot size: 1			data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size:	°52 17 . 22 6.8	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes No Present? Remarks: Spail and state for the grass deck sor to have a spain and grass of the grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass of the grass deck sor to have a spain and grass deck sor to have a			
## Total Cover Hydrophytic Vegetation Yes No ## Remarks: Hydrophytic Vegetation Yes No ## Fersion 20 Hydrophytic Vegetation Yes No ## Remarks: Hydrophytic Vegetation Yes No ## Hollow Server of Fersion 20 Hydrophytic Vegetation Yes No ## Hollow Server of Fersion 20 Hydrophytic Vegetation Yes No ## Hydrophytic Vegetation Yes No ## Hollow Server of Fersion 20 Hydrophytic Vegetation Yes No ## Hollow Server of Fersion 20 Hydrophytic Vegetation Yes No ## H	1		¹Indicators of hydric soil and wetland hydrology must
% Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No Present? Remarks: Spail afts 1 15 65 4 6 12 16 1005 11 19 1 19 19 19 19 19 19 19 19 19 19 1	2		be present, unless distributed of problematic.
Remarks: Still afts 10%, Majrels Arid West - Version 2.0 Arid West - Version 2.0 Arid West - Version 2.0		= Total Cover	
Remarks: Stall arts 34 55 65 4- kg/2 1- 1005- 1- 19ft +1/1 Stall arts 16 ingres 18 59, 1 km 1 10%, Majreis 180 grass Persinera 1974 - 100%, type 15% nn gress Arid West - Version 2.0	% Bare Ground in Herb Stratum % Cove	er of Biotic Crust	
Still after the fish by deck son less the fingrous of the grass less the grass look the grass look the grass look the grass and delay the grass and delay the grass and delay the grass are the grass are the grass and delay the grass are the gras	- 4	6 10 10	1 HISET WILL
10% March 180 grass Persiners 100% type 95% MA grass Arid West - Version 2.0	1 74 55 65	4 4 12	(1 menus
Arid West - Version 2.0		deck son	3% /m
Arid West - Version 2.0	10% Myres 1/2 crass	Persiceria	15/ nin giels
US Army Corps of Engineers Sample taken Arid West - Version 2.0 Arid West - Version 2.0	10x-91-0		gift light
65:5/109 MS 767 6 11/167	US Army Corps of Engineers Sample Taken		Arid West – Version 2.0
	bristle a mis	764 6 A / 16F9	

Hydric Soil Indicators Remarks:

The following is justification for a positive problematic hydric soil determination: the landscape setting of this ditch is concave, which is a landscape position that is likely to collect or concentrate water. The area is periodically disturbed to remove vegetation. The area has positive indicators for wetland hydrology and hydrophytic vegetation.

Project/Site: LAX Runway Safety Area/Argo Ditch City/0	County: City of Lo	os Angeles Sampl	ing Date:		
Applicant/Owner: City of Los Angeles, State: CA Sampling Point: 9018 1900					
Called Kieles + Section	ion Townshin Ran	nge: T 2 S, R 14 W (C)	cal Redards Lond Grant		
Landform (hillslope, terrace, etc.):	ol relief (concave co	onvex none): Flat both	OM Slope (%): 0-1%		
Subregion (LRR):					
Soil Map Unit Name: No Data	0 100	NWI classification: _	RYSBAX - riverine		
Are climatic / hydrologic conditions on the site typical for this time of year?					
Are Vegetation, Soil, or Hydrologysignificantly distu		Normal Circumstances" present			
Are Vegetation, Soil, or Hydrology naturally problem					
SUMMARY OF FINDINGS – Attach site map showing sar	npling point lo	ocations, transects, impo	ortant features, etc.		
Hydrophytic Vegetation Present? Yes X No	Is the Sampled	Area			
Hydric Soil Present? Yes No	within a Wetland	Y	10		
Wetland Hydrology Present? Yes No					
Remarks: This area is a man-made diten	(1949) the	at is periodically	cleared of		
regeration and surface soil.	22	,			
orner Good did's down	lere				
VEGETATION - Use scientific names of plants.			photo 30		
	minant Indicator	Dominance Test worksheet:			
1	ecies? Status	Number of Dominant Species That Are OBL, FACW, or FAC	(A)		
1					
3	1	Total Number of Dominant Species Across All Strata:) (B)		
4.					
= Ti	otal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC	(A/B)		
Sapling/Shrub Stratum (Plot size:)	- PERLUSS PER SUPERIOR ()				
1		Prevalence Index worksheet Total % Cover of:	Fig. 1 and 1		
2		OBL species			
3		FACW species	The second secon		
4,		FAC species			
$5. \underline{}$	etal Cause	FACU species			
Herb Stratum (Plot size: 19 ft fransect = T	otal Cover	UPL species			
1. Persiver Lepithitulia 3.4/2 1	Im town	Column Totals:	The state of the s		
2 setaria inmila, 510 1	Fac	Coldini Totals.	(5)		
3. Flontago lanceolata 570	Fac	Prevalence Index = B/A	=		
4.		Hydrophytic Vegetation Indi	cators:		
5		Dominance Test is >50%			
6.		Prevalence Index is ≤3.01	la l		
7		Morphological Adaptation	s¹ (Provide supporting		
8		data in Remarks or on			
5=475 ,2=19- ,5= 245 49 =T	otal Cover	Problematic Hydrophytic \	regetation (Explain)		
Woody Vine Stratum (Plot size: 12798	V - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	1	atland hydrology must		
1		¹ Indicators of hydric soil and w be present, unless disturbed of	r problematic.		
2					
= T	otal Cover	Hydrophytic Vegetation			
% Bare Ground in Herb Stratum % Cover of Biotic Crust	CONTRACTOR OF THE PROPERTY OF	Present? Yes	No		
Remarks: he with 605	le 1mi)		19 A		
		1/ 18	essia al mara		
to 50% dying to bit	75% con	16	loo is hear h		
ial	dock				
US Army Corps of Engineers		11591	Arid West – Version 2.0		
US Army Corps of Engineers		/ 1 1 7 7 /			

Hydric Soil Indicators Remarks:

The following is justification for a positive problematic hydric soil determination: the landscape setting of this ditch is concave, which is a landscape position that is likely to collect or concentrate water. The area is periodically disturbed to remove vegetation. The area has positive indicators for wetland hydrology and hydrophytic vegetation.

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: Applicant/Owner: City of Los Angeles State: CA Sampling Point: 1900 Investigator(s): MCC, ECC Charles /Rex Section, Township, Range: T 2 S, R 14 W Sausal Rodendo Lend Gra Landform (hillslope, terrace, etc.): # 500 Ditchin len local relief (concave, convex, none): F(4.+ bottom Slope (%): 0-1 Subregion (LRR): _____ Lat: 370015-584 Long: 375-782-9, 678 Datum: GCSNAD 83 Soil Map Unit Name: No Data NWI classification: R4SBA x - nivering No _____ (If no, explain in Remarks.) Are Vegetation ______, Soil ______, or Hydrology ______ significantly disturbed? Are "Normal Circumstances" present? Yes ____ Are Vegetation _____, Soil _____, or Hydrology naturally problematic? No (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size:) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover 100 (A/B) That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = ____ FAC species x 3 = FACU species _____ x 4 = _____ = Total Cover Herb Stratum (Plot size: / UPL species _____ x 5 = ____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: △ Dominance Test is >50% Prevalence Index is ≤3.01 __ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Woody Vine Stratum (Plot size: Problematic Hydrophytic Vegetation¹ (Explain) = Total Cover ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation % Bare Ground in Herb Stratum ___ % Cover of Biotic Crust Present? Congrete aller Remarks:

Hydric Soil Indicators Remarks:

The following is justification for a positive problematic hydric soil determination: the landscape setting of this ditch is concave, which is a landscape position that is likely to collect or concentrate water. The area is periodically disturbed to remove vegetation. The area has positive indicators for wetland hydrology and hydrophytic vegetation.

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: _____ Applicant/Owner: City of Los Angeles _____ State: CA ____ Sampling Point: __ Investigator(s): MCC, ECC Char ton / Red Section, Township, Range: T2S, R14W Sunsal Redondo Lent (vil brots Ditch in leveled for (concave) convex, none): Flat bottom Slope (%): 0-10/0 Landform (hillslope, terrace, etc.): Subregion (LRR): Lat: 36985.170 Long: 3757829.580 Datum: GCSNAD 83 Soil Map Unit Name: No Data _ NWI classification: 245BAx -riverine Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) Mon-Made 1146 SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: FACW species 4D x2= FAC species = Total Cover FACU species Herb Stratum (Plot size: 1/11/14) UPL species 1. Rechinoclos Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** Dominance Test is >50% Prevalence Index is ≤3.0¹ __ Morphological Adaptations1 (Provide supporting data in Remarks or on a separate sheet) ,5225 y. 122/V Problematic Hydrophytic Vegetation¹ (Explain) = Total Cover Woody Vine Stratum (Plot size: 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. ____ = Total Cover Hydrophytic Vegetation % Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Remarks: Gresce Wack line

Hydric Soil Indicators Remarks:

The following is justification for a positive problematic hydric soil determination: the landscape setting of this ditch is concave, which is a landscape position that is likely to collect or concentrate water. The area is periodically disturbed to remove vegetation. The area has positive indicators for wetland hydrology and hydrophytic vegetation.

Project/Site: LAX Runway Safety Area/Argo Ditc	h City/County: (City of Los Angeles	Sampling Date: 8/8/13
Applicant/Owner: City of Los Angeles			Sampling Point: 6-02 100
Investigator(s): (amphel / Bielfelt	Section Tow		Susal Redundo Lande
Landform (hillslope, terrace, etc.):	Ditch in local client	concave convex none): ITa	thattom since 1961: 0-101
Subregion (LRR):		장상 하는 것이 있는 경에서 그 이 사람들은 아이지가 하는 것이 없는 것이 없는 것이 없었다.	19 ⁴ (1955년 1955년 1951년 1952년 - 1952년 - 1952년
Soil Map Unit Name: No Dodg			
Are climatic / hydrologic conditions on the site typical fo	r this time of year? Yes X	No (Man avalain in I	Callon, K 13 B/1X - (1403)
Are Vegetation X, Soil X, or Hydrology Ve			present? Yes No
Are Vegetation, Soil, or Hydrology			ers in Remarks.) Mun Made
SUMMARY OF FINDINGS – Attach site m	ap snowing sampling	point locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes		Sampled Area	
Hydric Soil Present? Yes	No within	a Wetland? Yes	No X
Wetland Hydrology Present? Yes	No		Chief Le Shia to high a la transmille ground and a state of the state
Remarks: The alcais a man-n	noted ditch-C194	19) that is Deriodic	cally chared
of vegetation and surface:	soil.		3
VEGETATION – Use scientific names of p			
Tree Stratum (Plot size:)	Absolute Dominant In <u>% Cover Species?</u>	Status	Transfer to
1		Number of Dominant	
2			nant .
3.			1
4		Percent of Dominant S	pecies
Sapling/Shrub Stratum (Plot size:)	= Total Cove	That Are OBL, FACW,	
1		Prevalence Index wo	rksheet:
2			Multiply by:
3		OBL species	x 1 =
4		AND	x 2 = 12
5		FAC species	x3=
Herb Stratum (Plot size: & bt trap sect	= Total Cove	FACU species	* ×4= 352 * ×9 ×5= +40 440
1. Broms SP	881- Dom F	Column Totals:	
2. Persicarla lapathifolia	E/1 3	-alw	100,000
3.		Prevalence Index	0
4		Hydrophytic Vegetati	OMPOSES.
5		Dominance Test is Prevalence Index	
6			aptations ¹ (Provide supporting
7		data in Remark	s or on a separate sheet)
20 18,8	94 = Total Cove	Problematic Hydro	phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)			
1		be present, unless dist	il and wetland hydrology must urbed or problematic.
2		Hudrophytic	
141	= Total Cove	Vegetation	X
% Bare Ground in Herb Stratum % Co	over of Biotic Crust	Present? Ye	s No <u>/</u>
Remarks:		16 96	}
(0%	- 2 5 5 5	smil looks	
Her 05 1000 Lent	angrass in	or tome	x u stood +
skr o'S judin Lent + short	po d mixed h	HOCH	marssel
JS Army Corps of Engineers	bydhr	1 1-	Arid West - Version 2.0
personne de Prototes apromotivation (1)	\		minent the button

Project/Site: LAX Runway Safety Area/Argo Ditcl	h City/County: City of	Los Angeles Sampling Date: 8/4/13
Applicant/Owner: City of Los Angeles		State: CA Sampling Point: 202201
Investigator(s): Compall / Be felt	L	사람들이 살아보다 하는데 그는 그 사람들이 얼마를 가지 않는데 그 그 그 그 그 그 그 그들은 그는 그를 가지 않는데 그렇게 되었다.
· · · · · · · · · · · · · · · · · · ·		Range: T2S, R14W Sausal Rehandolem
· ·		e convex, none): Flat bottom Slope (%): 0-1
		Long: 375 7829.385 Datum: GOS NA
Soil Map Unit Name: No Data		NWI classification: R4BSA x -n'ven'
Are climatic / hydrologic conditions on the site typical for	r this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation X Soil X or Hydrology VE	significantly disturbed? Ar	e "Normal Circumstances" present? Yes No
Are Vegetation Soil or Hydrology	naturally problematica	needed, explain any answers in Remarks.) Men male l
	1	t locations, transects, important features, etc.
Control of the Contro	W: 3/	t locations, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes		ed Area
Hydric Soil Present? Yes	No No Within a West	N
Wetland Hydrology Present? Yes	No 🔨	A .
Remarks: The area is a man-mad	o ditch (1940) you	2. Leanel Allenbergeraite
Land of the or and ordered by	1	wire beinguiding accused of
vegetation and surface soi	ł t	
VEGETATION – Use scientific names of pl	lants.	
	Absolute Dominant Indicato	The state of the s
Tree Stratum (Plot size:)	% Cover Species? Status	- Number of Dominant Species /)
1.		That Are OBL, FACW, or FAC: (A)
2.		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
Carling/Charle Ctratum / Plat size:	= Total Cover	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)		Prevalence Index worksheet:
1.		Total % Cover of: Multiply by:
2.		OBL species x 1 =
3		FACW species 1 x 2 = 36
4.		FAC species x3 =
5.		FACU species 43 x 4 =
Herb Stratum (Plot size: 87+ transport	= Total Cover	UPL species 33 x5 = 145
1. Browns sp	75%. Dum Uot	• [
2. Persicaria (apothitalia	171. @ FAC	Column Totals: 96 (A) 451 (B)
3. pentagra Soletitialis	81. 1101	Prevalence Index = B/A = 4.7
4		Hydrophytic Vegetation Indicators:
5		Dominance Test is >50%
6.		Prevalence Index is ≤3.0¹
7		Morphological Adaptations ¹ (Provide supporting
		data in Remarks or on a separate sheet)
8. SZ 481/2 = 2=192	96 = Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)		
1		Indicators of hydric soil and wetland hydrology must
2		be present, unless disturbed or problematic.
	= Total Cover	Hydrophytic ,
% Bare Ground in Herb Stratum % Co	over of Biotic Crust	Vegetation Present? Yes No
Remarks:		
The state of the s	H 6ft 100% &	Escer
16 LONOS 51	to 6th some of	/
69/211 she shope 1	Shir	
starthan my	18-61 1600 1	365 / 15
IS Army Carps of Engineers	1971	Arid West – Version 2.0
JS Army Corps of Engineers		7

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: State: CA Sampling Point: 230 Applicant/Owner: City of Los Angeles Investigator(s): MGG-EEC Char leton / Rex Section, Township, Range: T 2 S, R 14 W Sausal Redunds Land Go Landform (hillslope, terrace, etc.): 4- Brokes Ditch in belief (concave) convex, none): Flat bottom Slope (%): 0-10/0 Subregion (LRR): ____ Lat: 369893.716 Long: 3757828.636 Datum: GOSNAD 93 Soil Map Unit Name: No Data NWI classification: RHSBAX - riverine Are climatic / hydrologic conditions on the site typical for this time of year? Yes ______ No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No X Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? NO (If needed, explain any answers in Remarks.) Non made Litch SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: The arcais a man-made ditch (1949) that is periodically cleared Vedetation and surface soil. VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size:) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL. FACW, or FAC: Sapling/Shrub Stratum (Plot size: ____) Prevalence Index worksheet: Total % Cover of: Multiply by: x 1 = OBL species 5 x2= 10 **FACW** species FAC species FACU species _ = Total Cover 40 x5= 200 UPL species Column Totals: 95 (A) 360 (B) Prevalence Index = B/A = 3.8 Hydrophytic Vegetation Indicators: __ Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) -5= 47.5 Woody Vine Stratum (Plot size: ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover Hydrophytic Vegetation % Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: ____ State: CA Sampling Point: 24 Applicant/Owner: City of Los Angeles Charlen Rex Investigator(s): MCC, EGG Section, Township, Range: T.2 S, R 14 W Sausal Redundo Lens Landform (hillslope, terrace, etc.): V-Broks Ditch in level facility (concave) convex, none): Flat bottom Slope (%): 0-10/a Lat: 369863.330 Long: 3757826.370 Datum: GCS NAD 83 Subregion (LRR): Soil Map Unit Name: No Dotto _ NWI classification: R45BAx-rivenire Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.) Are Vegetation X, Soil Y, or Hydrology Significantly disturbed? Are "Normal Circumstances" present? Yes No X Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? NO (If needed, explain any answers in Remarks.) Man Made ditch SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: the area is a man-made ditch (1949) that is periodically cleared of regetation and surface soil. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: ____) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species _____ = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ FACW species _____ x 2 = ____ FAC species _____ x 3 = ____ FACU species _____ x 4 = ____ UPL species _____ x 5 = ____ Column Totals: Prevalence Index = B/A = Hydrophytic Vegetation Indicators: ∠ Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) Woody Vine Stratum (Plot size: _____) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover Hydrophytic Vegetation % Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Remarks:

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City	of Los Angeles Sampling Date: \$\(\frac{4}{13} \)
Applicant/Owner: City of Los Angeles	State: CA Sampling Point: 602500
Investigator(s): Section, Townshi	p, Range: T 2 S, R 14 W Bausal Redondo Land Grant
Landform (hillslope, terrace, etc.):	Flat hattana siene (4), O-10/6
7/967294	5 Long: 3757924, 005 Datum: 6 5 MAD 93
	NWI classification: RUSBAx - riverine
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No No
Are Vegetation, Soil, or Hydrology naturally problematic? NO	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Is the San	npled Area
Hydric Soil Present? Yes X No within a V	Vetland? Yes No
Wetland Hydrology Present? Yes No	100
Remarks: The area is a man-made diten (194	a) that is periodically
cheared of vegetation and surface soil.	
Citalife of Address of State 2011	
VEGETATION – Use scientific names of plants.	
Absolute Dominant Indic	South Company of the Court Company of the Court Company of the Court Cou
Tree Stratum (Plot size:)	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2	Total Number of Dominant
3	Species Across All Strata: (B)
4	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:) = Total Cover	That Are OBL, FACW, or FAC: (A/B)
1	Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3	OBL species x 1 =
4	FACW species x 2 = FAC species x 3 =
5 = Total Cover	FACU species x 4 =
Hosh Stratum (Diet size)	
1. Schoenoplectus californius 462 pm 0	Column Totals: (A) (B)
2. Persucaria lapathifolia 347. Dim Fot	Chr)
3	Prevalence Index = B/A =
4	Hydrophytic Vegetation Indicators:
5	Dominance Test is >50% Prevalence Index is ≤3.0¹
6	Morphological Adaptations¹ (Provide supporting
7	data in Remarks or on a separate sheet)
8. $5 = 4 \text{ oil}$ $2 = 10 \text{ Cover}$	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	¹ Indicators of hydric soil and wetland hydrology must
1	be present, unless disturbed or problematic.
2 = Total Cover	Hydrophytic
	Vegetation
% Bare Ground in Herb Stratum % Cover of Biotic Crust	Present? Yes No No
Remarks: 0	100/10 19 1 0000000000000000000000000000
5- may lock & to to take with	Bok 1 11
(00). The Jack	Totale tall
20/1	1261 La 1269
US Army Corps of Engineers 145mt	Arid West – Version 2.0
23.5 A	chen

Project/Site: LAX Runway Safety Area/Argo D	itch City/County: 9	City of Los Angeles Sampling Date: 13 Aug 201
Applicant/Owner: City of Los Angeles		State: CA Sampling Point: 2600
Investigator(s): MCC, ECC Bir / Selt, Gu	Zmm, Kmett Section Tow	nship, Range: T2S, R14W Sansal Redundo Lond Grov
		concave, convex, none): Flat hottom Slope (%): 0-10/0
		637 Long: 3757820-877 Datum: GCS WAD 8
		NWI classification: <u>RHSBAx -riveria</u>
Are climatic / hydrologic conditions on the site typica		
		Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain any answers in Remarks.) Men - Made d
SUMMARY OF FINDINGS – Attach site	map showing sampling	point locations, transects, important features, etc.
	No _X Is the	Sampled Area
Hydric Soil Present? Yes	No	a Wetland? Yes NoX
Wetland Hydrology Present? Yes	No	
		749) that is periodically cleared
ot vegetation and surfa	ace soil.	
NECETATION Has acceptific names as	f nlanta	and the second s
VEGETATION – Use scientific names of	Absolute Dominant I	ndicator Dominance Test worksheet:
Tree Stratum (Plot size:)		Number of Dominant Openes
1		
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:	= Total Cove	That Are OBL, FACW, or FAC: (A/B)
1		Prevalence Index worksheet:
2		
3		
4		
5		FAC species x 3 =
11 Px k= T	= Total Cove	FACU species x 4 =
Herb Stratum (Plot size: 16 Pt fransect	551/ Dum	UPL species $\underline{55}$ x 5 = $\underline{275}$
1. Centauria Solstitalis		Column Totals:
2		Prevalence Index = B/A =5
3.		Under white Verestation Indicators:
4		Deminance Test is > 500/
5		Prevalence Index is ≤3.0¹
6		Morphological Adaptations ¹ (Provide supporting
8		data in Remarks or on a separate sheet)
2507	= Total Cove	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		
1.		¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2	= Total Cove	Hydrophytic
% Bare Ground in Herb Stratum %	Cover of Biotic Crust	Vegetation
Remarks:	- Landerson - Land	
80%. Star	50% platego	90% star
	120%. Star	
OS 387.	6.56 7st.	7.5t. 16.6t.

WEILAND DETERM					-dala
Project/Site: LAX Runway Safety Area/Argo Ditch		City/County: City of L	os Angeles	_ Sampling Date:	8/8/1/
			State: CA		
Investigator(s): MCC, ECC Charlton / Rex	;	Section, Township, Ra	nge: T 2 S, R 14 W	Saysal Redond	o Land Gran
Landform (hillslope, terrace, etc.): Notes in few led	land	Local relief (concave,	convex, none): Tat	oottom Slope	(%): O-10/2
Subregion (LRR):		The second section is a second section of the section of			
Soil Map Unit Name: No Data					
Are climatic / hydrologic conditions on the site typical for this tin					
Are Vegetation, Soil, or Hydrologysigni	ificantly o	disturbed? Are	'Normal Circumstances"	present? Yes	No X
Are Vegetation, Soil, or Hydrology natu	rally prob	olematic?№0 (If ne	eded, explain any answ	ers in Remarks.)	nan-made
SUMMARY OF FINDINGS - Attach site map she	owing	sampling point l	ocations, transect	s, important feat	tures, etc.
Hydrophytic Vegetation Present? Yes No _ Hydric Soil Present? Yes No _	*	Is the Sampled	Area	w V	
Wetland Hydrology Present? Yes No	X	within a Wetlar	nd? Yes	No X	
Remarks: The area is a man-made di	400	(1940) that	tic necionica	llu deared	16
regetation and surface soil.	1000	Cristif the	i is how or we	J delice	
VEGETATION – Use scientific names of plants.			2-16-20-4-10-10-10-10-10-10-10-10-10-10-10-10-10-		
		Dominant Indicator	Dominance Test wor	rksheet:	1
1	·····		Number of Dominant S That Are OBL, FACW		(A)
2			Total Number of Domi		8 SY_
3			Species Across All Str	rata:	(B)
Sapling/Shrub Stratum (Plot size:)		= Total Cover	Percent of Dominant S That Are OBL, FACW	Species , or FAC: 50	(A/B)
1. Thistle type	30		Prevalence Index wo	orksheet:	
2. Hermseuch VAL	10/0			Multiply b	-
3			OBL species		
4			FACW species		Mark Mark Control
5		- Total Causa	FACULARISIS	CONTRACTOR OF THE PARTY	The second secon
Herb Stratum (Plot size: Wind estimble 6 t 28 ft _	c†	= Total Cover	FACU species	x4= x5= /50	
11 (PATELON SAICTITICITY	30/1	Bun upl	Column Totals: 4	(A) 178	(B)
2. Persucaria lopatifolia	10%	for Face			
3				x = B/A = . 4 . 2	
4			Hydrophytic Vegetat Dominance Test i		
5					
6				aptations ¹ (Provide su	pporting
8.			data in Remark	ks or on a separate sh	eet)
15=20 12=8	40/.	= Total Cover	Problematic Hydro	ophytic Vegetation ¹ (E	xplain)
Woody Vine Stratum (Plot size:) 1		o zamonom o monto a como	¹Indicators of hydric so be present, unless disi		
2				turbed of problematic.	
% Bare Ground in Herb Stratum % Cover of B		= Total Cover	Hydrophytic Vegetation Present? Ye	es No 🗸	
Remarks:					
Wrack -	_	26	Guster		
71.	viteb 1	WATER WATER	achies II.	k	

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch ____ City/County: City of Los Angeles _____ Sampling Date: ___ Applicant/Owner: City of Los Angeles State: CA Sampling Point: - 805 Investigator(s): MCC, ECC Char ton / Rex Section, Township, Range: T2S, R14W Sousal Redondo Land Grant Landform (hillslope, terrace, etc.): it-Broto Ditchin legicles (concave, convex, none): Flat bottom Slope (%): 0-1% Lat 369 742, 105 Long: 3757813.776 Datum: GCSVAD 83 Subregion (LRR): Soil Map Unit Name: No Nata NWI classification: RYSBA x - rivenine Are climatic / hydrologic conditions on the site typical for this time of year? Yes ______ No______ (If no, explain in Remarks.) Are Vegetation ______, Soil ______, or Hydrology _______ significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.) Mark monde Vital SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: the area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil. VEGETATION – Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: ____) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: _ Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = ____ FAC species ___ ____ x 3 = __ FACU species _____ x 4 = ____ Herb Stratum (Plot size: Winal ____ × 5 = ____ Prevalence Index = B/A = ____ Hydrophytic Vegetation Indicators: ✓ Dominance Test is >50% Prevalence Index is ≤3.01 _ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 50 40 .2=16 96 = Total Cover Woody Vine Stratum (Plot size: ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic = Total Cover Vegetation % Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Remarks:

			6.6
roject/Site: LAX Runway Safety Area/Argo Ditch		City/County: City of Lo	os Angeles Sampling Date: 5/8/13
Applicant/Owner: City of Los Angeles			State: CA Sampling Point: 35 290
Compression Compression / Kip Leg 1+		Section, Township, Ran	nge: T2S, R14W Sausal Redendo and G,
ivestigator(s).	italia	excled bud	convex, none): Flat bottom Slope (%): O-1°
androrm (nillstope, terrace, etc.).	112101	7971 839	Long: 375781 (). 226 Datum: GLSNAD
		6 1/11/02	Long19 10 11 PUSTA AZ - FORCO
			NWI classification: RUSBAx - nveni
re climatic / hydrologic conditions on the site typical for thi	is time of year	ar? Yes 🛴 No	(If no, explain in Remarks.)
re Vegetation, Soil, or Hydrology $\underline{\forall e \rangle}$ s	significantly	disturbed? Are "I	Normal Circumstances" present? Yes No
re Vegetation, Soil, or Hydrology r			
			ocations, transects, important features, etc.
Hydrophytic Vegetation Present? YesXN	No.	1	
Hydric Soil Present? Yes N		Is the Sampled	nd? Yes No
Wetland Hydrology Present? Yes N	No X	within a wetian	la? Tes
Remarks: The area is a man-r	mada	dach Claur	M. Hatic periodicalla
The alea is a man-	ruce	CHICAL CLID	1) Trace is periodically
cleared of Vegetation and s	surface	52011	
EGETATION – Use scientific names of plan	nts.	***	
	Absolute		Dominance Test worksheet:
Tree Stratum (Plot size:)	ARCHITECTURE IN THE	Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1.			That Are OBL, PACW, of PAC.
2.			Total Number of Dominant
3	-		Species Across All Strata:(B)
4		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:
Sapling/Shrub Stratum (Plot size:)		Total Gover	That Ale GDE, FAGVI, GT FAG.
1.			Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3			OBL species x 1 =
4	_		FACW species x 2 =
5			FAC species x 3 =
Herb Stratum (Plot size: 181 tonsoct		_ = Total Cover	FACU species x 4 =
Herb Stratum (Plot size: (8)	11.	Dum Each	UPL species x 5 = (B)
1. Pergicasia la pathitalia		- Jacob	Column Totals: (A) (B)
2			Prevalence Index = B/A =
3			Hydrophytic Vegetation Indicators:
4			X Dominance Test is >50%
5			Prevalence Index is ≤3.0¹
6			Morphological Adaptations ¹ (Provide supporting
7	_	·	data in Remarks or on a separate sheet)
8		= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)			
1			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.			Be present, unless disturbed of problematic.
(6)		_ = Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum % Cov	er of Biotic (Crust	Present? Yes /\ No
Remarks: 5 + 56	7+	917 90	1/4 1/5 100% 1/40 1/6 1/40 80% M4/ Sec 18 +7
Y- 1049 11K1	13"	I THEY Mart) W. 1. H
JS Army Corps of Engineers	_	711.	Arid West – Version 2.0

Project/Site: LAX Runway Safety Area/Arg	go Ditch City/	County: City of L	os Angeles	Sampling Date:(18/08/13
Applicant/Owner: City of Los Angeles,			State: CA		
Investigator(s): Camball/Bel			nge: T 2 S, R 14 W		
Landform (hillslope, terrace, etc.):					
Subregion (LRR):					
Soil Map Unit Name: No Data					
Are climatic / hydrologic conditions on the site ty					
Are Vegetation, Soil, or Hydrolog			'Normal Circumstances" p		No X
Are Vegetation, Soil, or Hydrolog			eded, explain any answer		
SUMMARY OF FINDINGS - Attach s	site map showing sar	npling point l	ocations, transects,	, important featur	es, etc.
Hydrophytic Vegetation Present? Yes	× No	T			
	× No	Is the Sampled within a Wetlar	Area X	No	
Wetland Hydrology Present? Yes	X No				
Remarks: The area is a man	1-made ditch (1	949) that	ot is periodic	ally dearc	d
of vegetation and surfe	ace 2011.		No.	J - (-	
0					
VEGETATION – Use scientific name	s of plants.				
		minant Indicator	Dominance Test works	sheet:	
Tree Stratum (Plot size:)			Number of Dominant Sp		(A)
1 2			That Are OBL, FACW, o	or FAC:	- ^(A)
3			Total Number of Domina		(B)
4			Species Across All Strat	South Market man	_ (b)
	- To	otal Cover	Percent of Dominant Sp That Are OBL, FACW, of		(A/B)
Sapling/Shrub Stratum (Plot size:					_ (/4/5)
1			Prevalence Index work		
2				Multiply by:	
3.		The second secon	OBL species		Street, Street
4		***************************************	FACW species FAC species		
,	= Tr	otal Cover	FACU species	2 2 2 2 2 2 2 2	
Herb Stratum (Plot size: 17 Fransest	3 ()		UPL species		
. Persicaria Inputalto		Un Facw	Column Totals:		TOTAL CO.
3,				= B/A =	
•			Hydrophytic Vegetation Dominance Test is:		
•		The state of the s	Prevalence Index is		-
			Morphological Adap		orting
·			data in Remarks	or on a separate sheet	1)
		tal Cover	— Problematic Hydrop	hytic Vegetation ¹ (Expl	ain)
Noody Vine Stratum (Plot size:			1		
1			Indicators of hydric soil be present, unless distur		must
2					
	1 1	tal Cover	Hydrophytic Vegetation	×	
% Bare Ground in Herb Stratum	% Cover of Biotic Crust _	www.mirrory.com	Present? Yes	No	
Remarks:	A 1.15		,		
	85% bitter	12. 75%	Mag G.	17.	
4-54. starthy		25%	1.ther. 7"	1. Hor	
51- h-55		115			
S Army Corps of Engineers	5.4.		7 1/4	Arid West Vers	sion 2 0
runny ourps of Engineers	シチャ	7	3/	,u ++65t - VCI3	

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WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: _____ Applicant/Owner: City of Los Angeles State: CA _ Sampling Point: 3/00 Investigator(s): MCC, ECC-Conleton / Dex Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant Landform (hillslope, terrace, etc.): _______ Ditch in levelet landform (concave) convex, none): Flat bottom Slope (%): 0-10/0 Lat: 369651.307 Long: 3757803-125 Datum: C.ESNAD Soil Map Unit Name: No Data ___ NWI classification: R4SBA - rive Are climatic / hydrologic conditions on the site typical for this time of year? Yes ______ No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology \(\frac{1}{2} \) significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X , or Hydrology _____ naturally problematic? $\mathcal{N} \circ$ (If needed, explain any answers in Remarks.) Are Vegetation _____, Soil ____ SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? The area is a man-made ditch (1949) that is periodically cleared of regletation and surface soil. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: ____) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub_Stratum (Plot size: __ 1. By Thitsle Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ FACW species _____ x 2 = ____ FAC species ____ x 3 = ___ Virual estimate of FACU species _____ x 4 = ____ Herb Stratum (Plot size: 1 UPL species _ ____ x 5 = ____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = ___ Hydrophytic Vegetation Indicators: ■ Dominance Test is >50% Prevalence Index is ≤3.0¹ ___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) · 5= 45 ,2=191 Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size: 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic = Total Cover Vegetation % Bare Ground in Herb Stratum _____ % Cover of Biotic Crust Present? Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Applicant/Owner: City of Los Angeles State: CA Sampling Point: Investigator(s): MEC, ECC Charlton Section, Township, Range: T 2 S, R 14 W V-Books Otch in Local relief (concave, convex, none): Flat bottom Slope (%): 1)-1 Landform (hillslope, terrace, etc.): Subregion (LRR): Lat: 369621.041 Long: 375 7799.575 Datum: GLSM Soil Map Unit Name: No Totta NWI classification: PU Are climatic / hydrologic conditions on the site typical for this time of year? Yes __ No (If no, explain in Remarks.) Are Vegetation X, Soil X, or Hydrology Veg significantly disturbed? Are "Normal Circumstances" present? Yes _ _, or Hydrology ____ naturally problematic? № 0 (If needed, explain any answers in Remarks.) Man-made ditch SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil. VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: _____) Prevalence Index worksheet: Total % Cover of: OBL species FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = B/A = 3Hydrophytic Vegetation Indicators: Dominance Test is >50% 50% Prevalence Index is ≤3.01 3.1 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ,5=70.2=8 = Total Cover Woody Vine Stratum (Plot size: ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic = Total Cover Vegetation % Bare Ground in Herb Stratum _ % Cover of Biotic Crust Present? Remarks: Arid West - Version 2.0 US Army Corps of Engineers

man/knots	ection Townshir	State: CA Sampling For Range: T 2 S, R 14 W Squ / G	Recordo Lera
76 417	Section, Township	Range: T 2 S, R 14 W Squ Jq	Recordo Lera
76 417	section, I ownship	, Range: 123/1111)44/4	1- (0)
1Ch 1) El Ti-thom	Clara (94): 17-19
	ocal relief (conc	ve) convex, none): F/a Thottom	_ Slope (%). O
_ Lat: <u>-36</u>	95 90,166	Long: 3757796-096	Datum: O 63 10110
		NWI classification:	1212 Hx
time of yea	r? Yes X	No (If no, explain in Remarks.)	0.000
anificantly d	listurbed?	Are "Normal Circumstances" present? Y	es No <u>×</u>
aturally prob			
showing			
	Is the San	npled Area	
	within a V	/etland? Yes No _	
e dite	n (1949) that is periodicall	5
surfac	ce soil		
ts.			
Absolute	Dominant Indic	ator Dominance Test worksheet:	
		Number of Dominant Species	Z(A)
- —		That Are OBL, FACW, or FAC:	(A)
		Total Number of Dominant	> (5)
		Species Across All Strata:	(B)
		Percent of Dominant Species That Are OBL, FACW, or FAC:	/00 (A/B)
			Multiply by:
	= Total Cover		
24	Dom Pa	- 1	
	Din E		(0)
	-		
		Hydrophytic Vegetation Indicat	ors:
		Dominance Test is >50%	
		Prevalence Index is ≤3.01	
		Morphological Adaptations ¹ (Provide supporting
32	= Total Cover	Problematic Hydrophytic Veg	jetation' (Explain)
			100 12 12 20
		¹Indicators of hydric soil and wetl	and hydrology must
		be present, unless disturbed of p	
	_ = Total Cover	Hydrophytic	
er of Biotic C	Crust	- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	No
		1	
-51	1	661. Per 51 Ras	Ph. (9
Oportos		15% cripuspos	3
Name of the Owner, where the Party of the Pa	The same of the sa		1
. 0	1	1364.	6.554
; it is see a constant of the	time of year gnificantly of aturally protests. Absolute % Cover	time of year? Yes X gnificantly disturbed? aturally problematic? NO showing sampling points Is the Sam within a Wood Surface Soil ts. Absolute Dominant Indice Species? State = Total Cover = Total Cover 24	time of year? Yes No (If no, explain in Remarks.) gnificantly disturbed?

US Army Corps of Engineers

Subregion (LRR): Soil Map Unit Name: No Doctor Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation No Hydrology significantly disturbed.	State: CA Sampling Point: 3400 Township, Range: T 2 5, R 14 W Sausal Redondo Land Grant Silet (concave, convex, none): Flat bottom Slope (%): O-1 % 476 Long: 3757772-760 Datum: GCS NAD 83 NWI classification: RUSRAX - nverine No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No
	(If needed, explain any answers in Remarks.) Man made didch
SUMMARY OF FINDINGS – Attach site map showing samp	ling point locations, transects, important features, etc.
Hydric Soil Present? Wetland Hydrology Present? Remarks: The area is a man-made disc	of the Sampled Area within a Wetland? Yes No Or (1949) — Wort is periodically
cleared of vegetation and surface soil.	*
VEGETATION – Use scientific names of plants.	
	The Art Of Facility - FAC
2. 3.	Total Number of Dominant
4 = Tota Sapling/Shrub Stratum (Plot size:)	Cover Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1	
4	FACW species x 2 = FAC species x 3 =
Herb Stratum (Plot size: 1. Festina peren's 20 Don 2. Persica i [agath, fo]: 18 Don	UPL species x 5 = Column Totals: (A) (B)
3. Cyperus Erggrostis 14 Dum 4. Setaria pumila 5	Fc,cb Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
5	Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting
8	data in Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation¹ (Explain)
1	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2 = Tota % Bare Ground in Herb Stratum % Cover of Biotic Crust	Hydrophytic Vegetation Present? Yes No
Remarks: Fisture 60% persi 10%, 10%, persi 20% sedge 5%, 70%.	Persi Plantago 22. persi 30%. untigress veg. 13 Yor. seta 30%. untigress dying
Septe 36, 58%. 7.56%.	95x. 10.564. 125t
US Army Corps of Engineers Vigetation dy Ing	Arid West – Version 2.0

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: _ Applicant/Owner: City of Los Angeles _____ State: CA Sampling Point: 3500 Investigator(s). - MCC, ECC Charles (Rex Section, Township, Range: T2S, R14W Sausal Redando Land Grant V-Broks Ditch in keel Local relief (concave, convex, none): Flot bottom Slope (%): 0-10/0 Landform (hillslope, terrace, etc): Datum: GCS NAD 83 Lat: 369530.185 Long: 3757789.425 Subregion (LRR): Soil Map Unit Name: No NWI classification: RYSBAY - rivering Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.) or Hydrology Yes significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.) man-made diffCh Are Vegetation SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? the area is a man-made ditern (1949) that is periodically cleared of vegetation and surface soil VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: _____) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = ____ FACW species _____ x 2 = ____ FAC species ____ x 3 = ___ FACU species _____ x 4 = ____ UPL species _ _____ x 5 = ____ Column Totals: (A) (B) Prevalence Index = B/A = ___ Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ,5= 27,5 Woody Vine Stratum (Plot size: ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation % Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Remarks:

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: Applicant/Owner: City of Los Angeles _____ State: CA __ Sampling Point: _________ Investigator(s): MCC_ECC Charles / Rex Section, Township, Range: T2S, R14W Squ (a) Redondo Lend Grant Landform (hillslope, terrace, etc.): V firster Ditc Lie Level Cocal relief (concave, convex, none): Flat bottom Slope (%): 0-1 9/0 Subregion (LRR): Lat: 369499. 899 Long: 375 7786-089 Datum: GCS NAD 83 Soil Map Unit Name: No Date NWI classification: RHSRAX -rivering Are climatic / hydrologic conditions on the site typical for this time of year? Yes ______ No _____ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.) May made all the SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: The area is a man-made ditch (1949) that is periodically cleared of vegetation and surfaces oil. VEGETATION – Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: ____) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species ____ x 1 = FACW species 15 x = 30FAC species ____ x 3 = _ FACU species Column Totals: 35 (A) /30 (B) Prevalence Index = $B/A = _3$. 7 Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) .5= 17.5 ,2= 7% = Total Cover Woody Vine Stratum (Plot size: _____) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. = Total Cover Hydrophytic Vegetation % Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Remarks: WIG

Project/Site: LAX Runway Safety A	Area/Argo Ditch	C	two county: City of L	ns Angeles	Sampling Date:	9/8/13
Applicant/Owner: City of Los Ange	les	(1	ty/County. City of L	State: CA	_ Sampling Date:	00370
nvestigator(s):			action Township Par	nge: T 2 S, R 14 W	Service Ro	Lunderland
The state of the s	16-20-16 de	La level	ection, Township, Rai	convex, none);	Fla Flottom slan	10(1). ()-1 C
_andform (hillslope, terrace, etc.):		7	69469504	Jana: 37577	2.753 Datum	GCS NAD
Subregion (LRR):	1.0	Lat:		NWI classifi	7	
Soil Map Unit Name: No Da			• /			E)FY A TIN
Are climatic / hydrologic conditions on			? Yes No _	(If no, explain in i	Remarks.)	X
Are Vegetation, Soil, o				Normal Circumstances"		
Are Vegetation, Soil, o	r Hydrology	naturally probl	lematic? No (If ne	eded, explain any answ	ers in Remarks.)	Workhart
SUMMARY OF FINDINGS - A	Attach site mar	showing s	sampling point le	ocations, transect	s, important fea	atures, etc.
Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled	Aron	. /	
Hydric Soil Present?	Yes		within a Wetlar	nd? Yes	No X	
Wetland Hydrology Present?	Yes	No X	1			7
Remarks: The area is a ma	an-made dite	chagya)4 Chan	natis periodico	THA CLEARER OF M	gerations su	HACE 2018
PING	21	14 15 193	v-1			لـــــا
/EGETATION – Use scientifi	ic names of pla	ints.				
			Dominant Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size:1			Species? Status	Number of Dominant 3 That Are OBL, FACW) (A)
2				Total Number of Dom	7712 1000 100	(7)
3				Species Across All Str	rata:((B)
4			= Total Cover	Percent of Dominant S That Are OBL, FACW		(A/B)
Sapling/Shrub Stratum (Plot size: _ 1				Prevalence Index wo	orksheet:	
2.				Total % Cover of:	Multiply	<u>/ by:</u>
3.				OBL species		
4				FACW species		
5				FAC species		and the state of t
11 1 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Smarrert		= Total Cover	FACU species		
Herb Stratum (Plot size: ZZ ft	solditialis	42%	Dun upl	Column Totals:	2 X5 =	≥ Z (B)
2. Persocuria luga	thi Police	6	FACIN	A STATE OF THE PROPERTY OF THE		**************************************
3.	1.1.3.			Prevalence Inde	ex = B/A = 4.6	
4.				Hydrophytic Vegeta		
5				Dominance Test		
6				Prevalence Index	r is ≤3.0° laptations¹ (Provide	aupporting
7				data in Remar	ks or on a separate	sheet)
8	,	111		Problematic Hydr	ophytic Vegetation ¹	(Explain)
Woody Vine Stratum (Plot size:	•	75	= Total Cover			
1.				¹Indicators of hydric s	oil and wetland hydr	ology must
2.				be present, unless dis	sturbed or problema	IIG.
			= Total Cover	Hydrophytic Vegetation Present?	/es No	X
% Bare Ground in Herb Stratum	70 CO	VEL OF BIOLIC CIT	1	1.1656111		7
5 655tz 2ft	100% 14, 54	6-50 H	40 195 100 Ste	(3 10 / 14)	1:00%. sta	ir
h- W litter	2.0	OW		20		
US Army Corps of Engineers		-			Arid West	- Version 2.0
70		13	44 07			

Project/Site: LAX Runway Safety Area/Arg				
4) 13 13 1	o Ditch City/C	county: City of Los An	geles Sampling Date	8/8/13
Applicant/Owner: City of Los Angeles			ο CΔ	
Investigator(s): Composition	HIT Contin	- T	25 P 1/W/ C . 10.	1 1 1 1 .
Landiorm (nilisiope, terrace, etc.):	CIVICA MA LEVEL OCO	rollof (concovo) convey	manale Flat houldness a	· · · · · · · · · · · · · · · · · · ·
Subregion (LRR):	Lat: 36	1439-213 Lang	2757779 4116	(%): 0 1°
Soil Map Unit Name: No Data				
Are climatic / hydrologic conditions on the site type	nical for this time of year?	on X No	NWI classification: 12451	13HX - NVE
Are Vegetation, Soil, or Hydrolog	y Yel significantly disturb	es No		×/
Are Vegetation, Soil, or Hydrolog	naturally problems		Circumstances" present? Yes _	
			xplain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach s	ite map showing sam	pling point locatio	ns, transects, important f	eatures, etc.
	X No	is the Sampled Area		
Hydric Soil Present? Yes _	X No	within a Wetland?	Yes No	
Wetland Hydrology Present? Yes _	No No		1	
Remarks: The area is a man-	made ditch (19	149) that is	periodically close	-cd
of vegetation and surfe	ace soil		, , , , , , , , , , , , , , , , , , , ,	-
9				
EGETATION – Use scientific names	of plants.			
Trop Otroture (DI-1-1-		nant Indicator Domir	nance Test worksheet:	
Tree Stratum (Plot size:)			er of Dominant Species 7	ε
1		That A	re OBL, FACW, or FAC:	(A)
3.		1 Otal 1	Number of Dominant	
F		Specie	es Across All Strata:3	(B)
Sapling/Shrub Stratum (Plot size:	- Tota	Percer That A	nt of Dominant Species re OBL, FACW, or FAC:	(A/B)
1		Preval	ence Index worksheet:	
2			tal % Cover of: Multipl	y by:
		OBL sp	pecies x 1 =	
		FACW	species x 2 =	
•			pecies x 3 =	
lerb Stratum (Plot size: 30 ft franget	= Tota		species x 4 =	
. Setaria punila	40 01		ecies x 5 =	
. Pespalua dilatation	26 Dim	Fac Column	Totals: (A)	(B)
Elsocharis spcf. macro	ostachya 20 Dum	PARTION P	revalence Index = B/A =	
Cylodon ductylon			hytic Vegetation Indicators:	
- Schoenoplectus californ	nkhs /		minance Test is >50%	
			valence Index is ≤3.01	
		Mo	rphological Adaptations ¹ (Provide data in Remarks or on a separate	supporting sheet)
			and an on a deparate	/A
·5 = 49% . Z= 19.6%	G8 - Table	Cover Pro	blematic Hydrophytic Vegetation ¹	(Explain)
う こ 49% ここ 19.6%. /oody Vine Stratum (Plot size:	<u>98</u> = Total	Cover Pro	blematic Hydrophytic Vegetation ¹	(Explain)
700dy Vine Stratum (Plot size:)	¹Indicate	ors of hydric soil and wetland hydr	ology must
700dy Vine Stratum (Plot size:)	¹Indicate		ology must
Voody Vine Stratum (Plot size:	= Total	1 Indicate be present Cover Hydrop Vegetat	ors of hydric soil and wetland hydrient, unless disturbed or problemating the hydric	ology must
Bare Ground in Herb Stratum		¹Indicate be prese	ors of hydric soil and wetland hydrient, unless disturbed or problemating the hydric	ology must
voody vine Stratum (Plot size:	Cover of Biotic Crust	Cover Hydrop Vegetat Present	ors of hydric soil and wetland hydricent, unless disturbed or problemation Yes No	ology must
Bare Ground in Herb Stratum	Cover of Biotic Crust	Cover Hydrop Vegetat Present	ors of hydric soil and wetland hydrient, unless disturbed or problemating the hydric	ology must
Bare Ground in Herb Stratum	"= Total % Cover of Biotic Crust "O'. Rapples 50% Setarts	Cover Hydrop Vegetat Present	ors of hydric soil and wetland hydricent, unless disturbed or problemation ? Yes No No	ology must
Bare Ground in Herb Stratum	"= Total % Cover of Biotic Crust "O'S Replication Sold Selection	Cover Hydrop Vegetat Present	ors of hydric soil and wetland hydricent, unless disturbed or problemation ? Yes No No	ology must

WETLAND DETERMINATION DATA FORM - Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: Applicant/Owner: City of Los Angeles _____ State: CA Sampling Point: Investigator(s): MGC, ECC Char ton/ Lex Section, Township, Range: T 2 S, R 14 W Landform (hillslope, terrace, etc.): Untoks Ditchin level Local relief (concave, convex, none): F(at bottom Slope (%): 0-1 Lat: 369378.737 Long: 3757772.746 Datum: GCS NAD 83 Subregion (LRR): __ Soil Map Unit Name: _ No Data Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.) Are Vegetation X, Soil X, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.) man-made direction SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: The arra is a man-made ditch (1949) that is periodically vegetation and surface soil, VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size:) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species = Total Cover That Are OBL. FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = FACW species ____ x 2 = __ FAC species FACU species _ x 5 = ___ Column Totals: _____ (A) ____ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: C Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size: Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic = Total Cover Vegetation % Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Remarks:

			· , ,	
Project/Site: LAX Runway Safety Area/Argo Ditch	City/C	County: City of Lo	os Angeles	Sampling Date: 8 -13 -13
Applicant/Owner: City of Los Angeles			State: CA	Sampling Point: 4250 500
Investigator(s): MCC, ESC (h. ton/Rage	H Secti	on, Township, Rar	nge: T 2 S, R 14 W	Susal Redonda Fend Br
Landform (hillslope, terrace, etc.): V-Broks Ditche	1 Loulet of	Trelief (concave o	convex none) FL+	botton Slope (%): 0-10
Subregion (LRR):				
Soil Map Unit Name: No Dotto	. Lat			cation: R4SBAX -rive
Are climatic / hydrologic conditions on the site typical for this	1i 6 . i 2 \			
Are Vegetation, Soil, or Hydrology sig				present? Yes No
Are Vegetation, Soil, or Hydrology na SUMMARY OF FINDINGS - Attach site map s				ers in Remarks.) Many Mande ,
	- A	g po		
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No		Is the Sampled	Area	~
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No		within a Wetlan	d? Yes	No
		10110) -11	20175 2005-11	
Remarks: The arcais a man-made of vegetation and surfaces oil		(1999) TV	vor 12 benoan	cary cleared
VEGETATION – Use scientific names of plant	s.		100000 100000 1000000 1000000000000000	
		minant Indicator	Dominance Test wor	ksheet:
100000000000000000000000000000000000000		ecies? Status	Number of Dominant S	
1			That Are OBL, FACW,	or FAC: (A)
2.			Total Number of Domi	4 /
3			Species Across All Str	ata: 4 (B)
Sapling/Shrub Stratum (Plot size:)		otal Cover	Percent of Dominant S That Are OBL, FACW,	
1			Prevalence Index wo	rksheet:
2			Total % Cover of:	Multiply by:
3				x 1 =
4			FACW species	x 2 =
5				x3= 150
Herb Stratum (Plot size: 22ft transect	= To	otal Cover	FACU species	x 4 = x 5 = 4 = Z00
1. Talou Str taiste	40 1	200 Upl	Column Totals: 96	(A) 350 (B)
2. Br-1.00	50 1	Um Upl		
3. Festuca perrenis	St /	20m Fac	Prevalence Index	x = B/A =
4. Continued solstitulis	46 6	orm Upl	Hydrophytic Vegetat	ion Indicators:
5			Dominance Test is	
6			Prevalence Index	
7			Morphological Ada	aptations ¹ (Provide supporting ks or on a separate sheet)
8				ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	<u>90</u> = To	otal Cover		The state of the s
1				oil and wetland hydrology must
2.			be present, unless dis	
	= To		Hydrophytic Vegetation	an Ma
% Bare Ground in Herb Stratum % Cover	of Biotic Crust		Present? Ye	es No
Remarks: 20' west od codge, Pry 22' n; dfs, 40% stm	this the	promi	partned,	

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		5015	OS Affgeres Sampling Date:
Applicant/Owner: City of Los Angeles		A STATE OF THE STA	State: CA Sampling Point:
Investigator(s): MCC, ECC Bie/Seft/	[117.men Sec	tion Township Ra	ange: T 2 S, R 14 W
andform (hillslope, terrace, etc.):	V-broke ditchio	cal relief (concave)	convex, none): Flat bottom Slope (%): 0-1
Subregion (LRR):	girtrekin 36	9250,245	Long: 375-77,8-214 Datum: GCS NA
Soil Map Unit Name: No Dates	and I'm		NWI classification: R4SBAx -rive
Are climatic / hydrologic conditions on the site ty	1100		
Are Vegetation, Soil, or Hydrolog			"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrolog	y naturally proble	natic? No (If ne	eeded, explain any answers in Remarks.) Man mayle
SUMMARY OF FINDINGS - Attach s	ite map showing sa	mpling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No		
■ 2019 N. 1012 1013	No X	Is the Sampled	V
Wetland Hydrology Present? Yes	1/	within a Wetlan	nd? Yes No
		Claura) -	that is periodically cleared
Cumpletine and	- How with	CM1901)	that is personally created
of vegetation and sur	Hacesoil.		
VECETATION Has assentific manner	a of plants		
VEGETATION – Use scientific name		ominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		pecies? Status	Number of Dominant Species
1			That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3			Species Across All Strata: (B)
4			Percent of Dominant Species
	, =	Total Cover	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:			Prevalence Index worksheet:
1			Total % Cover of: Multiply by:
2			OBL species x1 =
3		·*************************************	FACW species x 2 =
5			FAC species x 3 =
0.		Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 7P+ + transe)CT		- 1	UPL species 24 x 5 = 120
1. Centaurea solstitais	241/- 1	Dan Upl	Column Totals: (A) (B)
2			
3			Prevalence Index = B/A =
4			Hydrophytic Vegetation Indicators:
5			Dominance Test is >50%
6			Prevalence Index is ≤3.0¹
7			Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:	24 =	Total Cover	
1			¹ Indicators of hydric soil and wetland hydrology must
2.			be present, unless disturbed or problematic.
E		Fotal Cover	Hydrophytic
			Vegetation
% Bare Ground in Herb Stratum	% Cover of Biotic Crus		Present? Yes No
Remarks: 154. Star thistle			stat thistle.
0. 1			1370
St 18t 28	1.		754

WETLAND DETERMINATION DATA FORM – Arid West Region Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 13 Aug. 2013 State: CA Sampling Point: Sampling Point Applicant/Owner: City of Los Angeles Investigator(s): MCC, ECC Bielfelt / Guzman Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grent Landform (hillslope, terrace, etc.): 1 broke - ditch n leve ocal relief (concave, convex, none): 6/4. Slope (%): 6-1% Subregion (LRR): ______ Lat: 369229. 330 Long: 3757755.6 4 Batum: GC NAD 43 NWI classification: R4SBA x riwine Soil Map Unit Name: No Pata Are climatic / hydrologic conditions on the site typical for this time of year? Yes ______ No _____ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes _____ No _ Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? (If needed, explain any answers in Remarks.) Concrete colvert Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: water dripping in from culvert above the plants VEGETATION - Use scientific names of plants. **Dominance Test worksheet:** Absolute Dominant Indicator % Cover Species? Status Tree Stratum (Plot size: _____) Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species ____ = Total Cover That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: _____) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = ____ x 4 = FACU species ___ = Total Cover Herb Stratum (Plot size: 19 ft fransak UPL species _____ x 5 = ____ 1. Persicaria la partha folia Column Totals: _____ (A) ____ (B) Prevalence Index = B/A = ____ Setarin punila Hydrophytic Vegetation Indicators: ∠ Dominance Test is >50% Prevalence Index is ≤3.01 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size: _____ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? % Cover of Biotic Crust _ % Bare Ground in Herb Stratum ____ 10x Seta Pay, Brsi

1181

Project/Site: LAX Runway Safety Area/Argo Ditch Applicant/Owner: City of Los Angeles Applicant/Owner: City of Los Angeles Sampling Date 2 Aug- Applicant/Owner: City of Los Angeles Nate: CA Sampling Point: 2 August CA Subregion (LRR): Subregion (LRR): Soil Map Unit Name: No Drtto No (If no. explain in Remarks) Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Hydro Soil Present? Hydrology Present? Yes No No Should Dominant Indicator Weltand Hydrology Present? Yes No Weltand Hydrology Present? Yes No No Should Dominant Indicator Tree Stratum (Plot size: 1. Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Weltand Present: 1. Total Number of Dominant Species That Are OBL, FACW, or FAC: Total % Cover of: Multiply by: OBL species X1 = FACW species X3 = FACW species X3 = FACW species X4 = UPL
Section, Township, Range; T 2 S, R 14 W Sauta D Reford D Land Landform (hillslope, terrace, etc.); Subregion (LRR); Lat: 36910. Hill Long: 37575 660 Datum: CX Subregion (LRR); Lat: 36910. Hill Long: 37575 660 Datum: CX Soil Map Unit Name: No Druto. Now destination: Russification: Russificati
Landform (hillslope, terrace, etc.):
Subtregion (LRR): Lat: 3692 to . 444 Long: 378775 b b 2 Datum: box Nowl classification: FLSEA x = T Nowl classification: FLSEA x
Soil Map Unit Name: No Dratio Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Yes No
No No No No No No No No
Absolute Species Statum (Plot size: Sagling/Shrub Stratum (Plot size: Sagling/Shrub
Absolute Stratum (Plot size: Sapling/Shrub Stratum (Plot size: 1.
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Yes No Within a Wetland? Yes No With
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features Hydrophylic Vegetation Present? Yes No Within a Wetland? Yes No With
Hydric Soil Present? Wetland Hydrology Present? Wes No No Within a Wetland? Wes No No Within a Wetland? Wes No No Within a Wetland? Wes No Within a Wetland? Yes No No Within a Wetland? Wes No Within a Wetland? Yes No Within a Wetland? No Mominate Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: OBL Species At Species A
Hydric Soil Present? Wetland Hydrology Present? Wes No No Within a Wetland? Wes No No Within a Wetland? Wes No No Within a Wetland? Wes No Within a Wetland? Yes No No Within a Wetland? Wes No Within a Wetland? Yes No Within a Wetland? No Mominate Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: OBL Species At Species A
VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:
Absolute Species Status Dominant Indicator Species Status Status Species Status Status Species Status Status Status Species Status
Absolute Cover Species? Status Status Status Species? Status Species? Status Species? Status Species? Status Species? Status Species? Status Species Status Status Species Status Species Status Species Status Status Status Species Status St
Absolute Cover Species? Status Species Status Status Species Status S
Absolute Species Status Status Species Status
Absolute Cover Species? Status Species Status Status Species Status S
Tree Stratum (Plot size:
1
Total Number of Dominant Species Across All Strata: Sapling/Shrub Stratum (Plot size:)
Species Across All Strata: Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 =
Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:
Prevalence Index worksheet: Total % Cover of: Multiply by:
Total % Cover of: Multiply by: OBL species
OBL species
4. $\frac{1}{5}$. $\frac{1}{5$
5. $=$ Total Cover $=$ Total
Herb Stratum (Plot size: $G ightharpoonup FACU$ species $X ightharpoonup X ightharpoonu$
Herb Stratum (Plot size: O 714 (Ref.) 1. Contain rea solstificalls 2. Column Totals: O (A) O (A) O (B) O (B) O (Column Totals: O (A) O (A) O (B) O (B) O (B) O (Column Totals: O (Column Totals: O (A) O (A) O (B) O (B) O (B) O (Column Totals: O (Column Totals: O (A) O (A) O (B) O (B) O (Column Totals: O (A) O (A) O (B) O (B) O (Column Totals: O (A) O (Column Totals: O (A) O (A) O (B) O (B) O (Column Totals: O (A) O (A) O (A) O (B) O (B) O (B) O (Column Totals: O (A) O (A) O (A) O (B) O (B) O (B) O (Column Totals: O (A) O (A) O (B) O (B) O (B) O (Column Totals: O (A) O (A) O (B) O (B) O (Column Totals: O (A) O (A) O (B) O (Column Totals: O (A) O (A) O (B) O (B) O (Column Totals: O (A) O (A) O (A) O (B) O (B) O (Column Totals: O (A) O (A) O (Column Totals: O (A)
2. Prevalence Index = B/A = 3. Hydrophytic Vegetation Indicators: 5. Dominance Test is >50% 6. Prevalence Index is ≤3.0¹ 7. Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet)
2. Prevalence Index = B/A = 3. Hydrophytic Vegetation Indicators: 5. Dominance Test is >50% 6. Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet)
3.
4
5 Prevalence Index is ≤3.0¹ 7 Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet)
7 Morphological Adaptations¹ (Provide support data in Remarks or on a separate sheet)
data in Remarks or on a separate sheet)
8 Problematic Hydrophytic Vegetation ¹ (Explain
\underline{z} = Total Cover
Woody Vine Stratum (Plot size:) 1 Indicators of hydric soil and wetland hydrology m
be present, unless disturbed or problematic.
2 = Total Cover Hydrophytic
Vegetation
No Balle Ground III Tell Graduan.
Remarks:
1807.
star / star /
1842 Samu Cares of Engineers 66 Arid West - Version

Project/Site: LAX Runway Safety Area/Argo Ditch	City/Cou	unty: City of Lo	s Angeles	Sampling Date: 8 -1	3-13
Applicant/Owner: City of Los Angeles			State: <u>CA</u>	Sampling Point:	bushare
Investigator(s): MCC, ECE Charlton/Kmet	Section	, Township, Ran	ge: T 2 S, R 14 W	Sansal Redunde	· Land
Landform (hillslope, terrace, etc.): V-Brotes OHd A	Love rocal r	elief (concave. c	onvex none): F/4+	Slope (%):	0-1%
Subregion (LRR):					
Soil Map Unit Name: No Dat a	at	110-11	NIA/I alocaific	ation: R45BA	V Cilian
					3 / 190(/V/
Are climatic / hydrologic conditions on the site typical for this time					- /
Are Vegetation, Soil, or Hydrology signif				present? Yes N	,
Are Vegetation, Soil, or Hydrology nature	ally problemati	c? (If nee	eded, explain any answer	rs in Remarks.)	n made d
SUMMARY OF FINDINGS - Attach site map sho	wing samp	oling point lo	cations, transects	, important feature	s, etc.
Hydrophytic Vegetation Present? Yes X No					
Hydric Soil Present? Yes No		s the Sampled within a Wetlan		No	1.
Wetland Hydrology Present? Yes X No	10.0	within a wetian	ur res <u>r</u>	NO	1
Remarks:					
VEGETATION – Use scientific names of plants.					
The state of the s	solute Domir Cover Speci	nant Indicator	Dominance Test work		
1.	MINUS MEDINERS OF THE PARTY OF	William Telephone Telephone	Number of Dominant Sp That Are OBL, FACW, of		(A)
2					
3			Total Number of Domin Species Across All Stra		(B)
4.				•	,
	= Tota	l Cover	Percent of Dominant Sp. That Are OBL, FACW, or		(A/B)
Sapling/Shrub Stratum (Plot size:	15/2 mi	xed	Prevalence Index wor	kehoot:	
	5065	7/6-1		Multiply by:	
2 01 1	170			x 1 =	777
4. Hove need	5%			x2=	
5.				x 3 =	
J	00 ∯Tota	I Cover	Storyana St. Sept. Ministration	x 4 =	
Herb Stratum (Plot size: Wine eff mile				x5=	
1. Seshoenople itus californicas		m Obl		(A)	
2. Festuca perrenis S 3. Engeron anadensis	U Por	n fae			
3. Engeron chadensis	5			= B/A =	
4			Hydrophytic Vegetatio		
5			Dominance Test is		
6			Prevalence Index is		
7			Morphological Ada data in Remarks	ptations ¹ (Provide suppor s or on a separate sheet)	rting
8. 152751. =2236 1	SD = Tota	I Cover	Problematic Hydro	phytic Vegetation ¹ (Expla	iin)
Woody Vine Stratum (Plot size:)	- 1010				
1			¹ Indicators of hydric soi be present, unless distu	il and wetland hydrology i	must
2			be present, unless disti	moed of problematic.	
3	= Tota	al Cover	Hydrophytic		
% Bare Ground in Herb Stratum % Cover of E	Biotic Crust		Vegetation Present? Yes	s No	
The state of the s					
Remarks: Center of wetland					
Sec. 46.50 (50.5)					

vestigator(s): MCC_ECC Bjoldel H. Gusmar Segtion and form (hillslope, terrace, etc.): Wholes ditch in Ruboral abregion (LRR): Lat: 3688	relief (concave, convex, none): Flat Slope (%):
andform (hillslope, terrace, etc.): Wholes Atch in Redocate subregion (LRR): Lat: 3688 bill Map Unit Name: Late climatic / hydrologic conditions on the site typical for this time of year? Yes e Vegetation, Soil, or Hydrology significantly disturb	relief (concave, convex, none): <u>Flat</u> Slope (%): 33.549 Long: <u>3757712.427</u> Datum:
ubregion (LRR): Lat: Lat: Lat: Lat: Soil Map Unit Name: Lat: Lat: Lat: Lat: Lat: Lat: Lat: Soil, or the site typical for this time of year? Year Vegetation, Soil, or Hydrology significantly disturb	33.549 Long: 3757712.421 Datum:
ubregion (LRR): Lat: Lat: Lat: Lat: Soil Map Unit Name: Lat: Lat: Lat: Lat: Lat: Lat: Lat: Soil, or the site typical for this time of year? Year Vegetation, Soil, or Hydrology significantly disturb	33.549 Long: 3757712.421 Datum:
oil Map Unit Name:e climatic / hydrologic conditions on the site typical for this time of year? Yee e Vegetation, Soil, or Hydrology significantly disturb	
e climatic / hydrologic conditions on the site typical for this time of year? Ye e Vegetation, Soil, or Hydrology significantly disturb	
e Vegetation <u> </u>	
e Vegetation, Soil, or Hydrology naturally problemat	Are Normal Circumstances present? TesNo_x
20	tic? (If needed, explain any answers in Remarks.) men made o
JMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc
Judrio Soil Procent?	Is the Sampled Area within a Wetland? Yes No
Remarks:	
emarks.	
GETATION – Use scientific names of plants.	
Absolute Domination ree Stratum (Plot size:) % Cover Spec	inant Indicator Dominance Test worksheet:
ree stratum (Flot size	Number of Dominant Species
	Total Number of Dominant
_ T-4	I Percent of Dominant Species
apling/Shrub Stratum (Plot size:)	
•	
•	
•	FACW species x 2 = FAC species x 3 = 3 7
·	
erb Stratum (Plot size: MA transpet = Total	tal Cover FACU species
. Contaurer solstitualis 7%, 00	W UPL Column Totals: 25 (A) 74 (B)
Setaria phono physila 7% No	M FAC
Festuca percents 61. Do	Prevalence Index = B/A = 4.2
Extrem ounadensis 5% 00	M Facu Hydrophytic Vegetation Indicators:
	Dominance Test is >50%
	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
	Deable-ratio Unidendudio Venetation ¹ (Evaluin)
.5= 12.5 , 2=5 <u>25</u> = Tot	al Cover
Voody Vine Stratum (Plot size:)	¹ Indicators of hydric soil and wetland hydrology must
1 1 1	be present, unless disturbed or problematic.
	tal Cover Hydrophytic
The second of th	Vegetation
6 Bare Ground in Herb Stratum % Cover of Biotic Crust	
Remarks: 401.5tor 150%.	- 1 40% plantago 100 90%, Below Faturen

roject/Site: LAX Runway Safety Area/Argo Ditch	City/County: City of	Los Angeles Sampling Date: 13 Aug 20
Applicant/Owner: City of Los Angeles		State: CA Sampling Point:
	Section, Township, F	Range: T25, R14W Squeal Redonds Land
andform (hillslope, terrace, etc.): 1 - 570h Antch	n Levelul Local relief (concave	e, convex, none): <u> </u>
Subregion (LRR):	_ Lat: 368803.250	6 Long: 3757709.110 Datum: 6CSNA
Soil Map Unit Name: No Data		NWI classification: R45BA ABURA
Are climatic / hydrologic conditions on the site typical for thi	is time of year? YesX_ No	(If no, explain in Remarks.)
are Vegetation, Soil, or Hydrology s	significantly disturbed? Are	e "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If	needed, explain any answers in Remarks.) New words
SUMMARY OF FINDINGS - Attach site map		locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X	lo T	
Hydric Soil Present? Yes N	lo X	
Wetland Hydrology Present? Yes N	lo within a Wetl	and? Yes No
Remarks:		
EGETATION – Use scientific names of plan	nts.	
	Absolute Dominant Indicator	
Tree Stratum (Plot size:)	% Cover Species? Status	
1		That Are OBL, FACW, or FAC: 2 (A)
2.		Total Number of Dominant
3		Species Across All Strata: (B)
4	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 67/p (A/B)
Sapling/Shrub Stratum (Plot size:)		That Are OBL, FACW, or FAC:
1,		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3		OBL species x 1 =
4		FACW species x 2 =
5		FACULARISIS X 3 =
Herb Stratum (Plot size: 161+rensex)	= Total Cover	FACU species x 4 = UPL species x 5 =
1. Plantego lanceolata	9 Den Fac	
2. Centairea solotitialis	8 VIM Upl	_ Column rotation (v)
3. Festuca perpends	6 Mr Fax	Prevalence Index = B/A =
4		Hydrophytic Vegetation Indicators:
5		Dominance Test is >50%
6		Prevalence Index is ≤3.0¹
7		 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8	7 7 7	Problematic Hydrophytic Vegetation¹ (Explain)
452 (15% + 22 9.6) Woody Vine Stratum (Plot size:	= Total Cover	
		¹ Indicators of hydric soil and wetland hydrology must
2		be present, unless disturbed or problematic.
5	= Total Cover	Hydrophytic
W.B	December 1997	Vegetation
	r of Biotic Crust	Present? Yes No
Remarks:	30%	1 Blocker
150x 1808+	Barny	
1 ster / Photo-1	1 Sam	1 10 (dollerty) 1 Plantago
3 6 J. 3.5 Usi		7.5 Earlines 14.5 15 165
7 7 7 - 01	/	-01-C

US Army Corps of Engineers

Project/Site: LAX Runway Safety Area/Argo Ditch	City/County: City of	Los Angeles Sampling Date: 13 Aug 2017
Applicant/Owner: City of Los Angeles		State: CA Sampling Boint: On Care
Investigator(s): MCC, EGC Biel Selt / Guzma	Section Township R	lange T2S, R14W Seusel Red and Land
Landform (hillslope, terrace, etc.): 1/-backs dito	huh leve Local relief (concave	convex none): Clat. Slope (%): 1)-1
Subregion (LRR):	_ Lat: 368772.963	Long: 3757705,792 Datum: GCS NAD &
Soil Map Unit Name: No Data		NWI classification: R4SBAX Normal
Are climatic / hydrologic conditions on the site typical for thi	is time of year? Yes X No	
Are Vegetation, Soil, or Hydrologys	significantly disturbed? Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology		needed, explain any answers in Remarks.) Man made dite
SUMMARY OF FINDINGS - Attach site map		locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes N Yes N N	ls the Sample	d Area
Wetland Hydrology Present? Yes X	within a Wetla	and? Yes No
Remarks:		
VECETATION Upo polantific normal for	Acco	
VEGETATION - Use scientific names of plan		
Tree Stratum (Plot size:)	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test worksheet:
1		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2		
3		Total Number of Dominant Species Across All Strata: (B)
4	· 	
Sapling/Shrub Stratum (Plot size:)	= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3		OBL species x 1 =
4		FACW species x 2 =
5		FAC species x 3 =
Herb Stratum (Plot size: 13 + trange et	= Total Cover	FACU species x 4 =
1. Centaura Sulphitialis	25% DOM UP	UPL species x 5 =
2. Festien Persents	-1 0 -1	Column Totals: (A) (B)
3. Setanta punila	61/2 Dum Fac	Prevalence Index = B/A =
4	012 000 540	Hydrophytic Vegetation Indicators:
5		Dominance Test is >50%
6		Prevalence Index is ≤3.0¹
7		Morphological Adaptations ¹ (Provide supporting
8		data in Remarks or on a separate sheet)
2=57.6	38 = Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)		Indicators of hudrin and and and hudring to
1		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	= Total Cover	Hydrophytic
9/ Page Convent in Harb Object		Vegetation
% Bare Ground in Herb Stratum % Cover	of Biotic Crust	Present? Yes No
Remarks: 60% star 50% horse Set	ta ssystar.	,50%. Star
71571. Setta 1	11111	1 20% Brondsteshie
2.54	4.8 354 (61	1081, 134.
251.	, 2/	1001. 100

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Lo	os Angeles Sampling Date: 13 Aug 101
Applicant/Owner: City of Los Angeles Bielfett / Guzagen	State: CA Sampling Point: 6400
Investigator(s): MCC, ECC Charles Section, Township, Rai	nge: T2S, R14W Sausal Redonds Land
Landform (hillslope, terrace, etc.): A broke Ditcher Local relief (concave, of	convex, none): Flat Slope (%): Dal
Subregion (LRR): Lat: 368657,787	Long: 37 - 7692,573 Datum: 64NADS
Soil Map Unit Name: No Date	NWI classification: K4) KH X WIVING
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "	Normal Circumstances" present? Yes No X
Are Vegetation, Soil, or Hydrology naturally problematic? (If ne	eded, explain any answers in Remarks.) Man Indeed 1
SUMMARY OF FINDINGS - Attach site map showing sampling point to	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Sampled	
Hudrig Sail Brosent?	X
Wetland Hydrology Present? Yes No within a Wetlan	d? Yes / No
Remarks:	
* *	
VEGETATION – Use scientific names of plants.	
Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	Number of Dominant Species 7
1	That Are OBL, FACW, or FAC: (A)
2	Total Number of Dominant
3	Species Across All Strata: (B)
4	Percent of Dominant Species
Sapling/Shrub &fratum (Plot size:) = Total Cover	That Are OBL, FACW, or FAC: (A/B)
1. Sclix exign w Bon Obl	Prevalence Index worksheet:
2.	Total % Cover of:Multiply by:
3.	OBL species x 1 =
4. /	FACW species x 2 =
5	FAC species x 3 =
224-t	FACU species x 4 =
Herb Stratum (Plot size: 33t+trapet)	UPL species x 5 =
1. Typha domiggersis 35. Dom about	Column Totals: (A) (B)
3. Carpo brotus edulis 64, Face	Prevalence Index = B/A =
4. Circles Vectylon SX. FACL	4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
5	Dominance Test is >50%
6.	Prevalence Index is ≤3.0¹
7	Morphological Adaptations¹ (Provide supporting
8	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
5-33/-2=18.2 46 = Total Cover	Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum (Plot size:	¹ Indicators of hydric soil and wetland hydrology must
1	be present, unless disturbed or problematic.
2 = Total Cover	Hydrophytic
	Vegetation
% Bare Ground in Herb Stratum % Cover of Biotic Crust	Present? Yes No
Remarks: 100% 900% Selix 95% So Cat	904- Demuda 784.
Tree + 57-Bull	5% socat Salzx exigne
	87-postal 151 Rame
0 28t. 58t. 26	DT. 28 PAN 30 A

LAX Runway Safety Area/Argo D	Ditch City/County: City of	Los Angeles Sampling Date: 13 Aug 7
Appli Owner: City of Los Angeles		States CA Complian Daint / CAO
ator(s): MCC, ECC Biel Selt /6	Section Township R	Panne: T2S. R14W Sa cal Red al. 1
orm (hillslope, terrace, etc.):	1: tel de la la ser les les consens	e, convex, none): 56. Slope (%): 0
region (LRR):	The properties (concave	
oil Map Unit Name: 10 Data		
	\(\(\)	NWI classification: RHSBAXNU
re climatic / hydrologic conditions on the site typical	al for this time of year? Yes No	(If no, explain in Remarks.)
re Vegetation, Soil, or Hydrology _		e "Normal Circumstances" present? Yes No _/
e Vegetation, Soil, or Hydrology _	naturally problematic? (If r	needed, explain any answers in Remarks.)
UMMARY OF FINDINGS - Attach site	map showing sampling point	locations, transects, important features, e
	V	
	No Is the Sample	ed Area
	No within a Wetla	and? Yes No
Remarks:	NO	
1994		
EGETATION - Use scientific names o	f plants.	
rea Stratum /Plat size:	Absolute Dominant Indicator	Dominance Test worksheet:
ree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
		That Are OBL, FACW, or FAC:(A)
		Total Number of Dominant
		Species Across All Strata: Z (B)
		Percent of Dominant Species
apling/Shrub Stratum (Plot size:	= Total Cover	That Are OBL, FACW, or FAC: 50 (A/I
The second secon		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
		OBL species x 1 =
		FACW species x 2 =
		FAC species $\underline{77}$ $\times 3 = \underline{51}$
erb Stratum (Plot size: 5,5 tampert	= Total Cover	FACU species x 4 =
Containly Solst think	26 Pin Up	UPL species $\frac{26}{12}$ x 5 = $\frac{36}{12}$
Festica percents		Column Totals: 43 (A) /5/ (B
The periods		Prevalence Index = B/A = 4, Z
· ·		Hydrophytic Vegetation Indicators:
		Dominance Test is >50%
		Prevalence Index is ≤3.0¹
		Morphological Adaptations¹ (Provide supporting)
		data in Remarks or on a separate sheet)
	43 = Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
oody Vine Stratum (Plot size:)		
		¹ Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
	= Total Cover	Hydrophytic
	1724 FARTER AND SERVICE STATE OF THE SERVICE STATE STATE OF THE SERVICE STATE OF THE SERVICE STATE STATE STATE STATE STATE STATE STATE	Vegetation
Bare Ground in Herb Stratum %	Cover of Biotic Crust	Present? Yes No./X
Bare Ground in Herb Stratum % emarks:	Cover of Biotic Crust	Present? Yes No
emarks:	CJ Star	
	Cover of Biotic Crust	

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City o	f Los Angeles Sampling Date: 8 13/13
Applicant/Owner: CITY Of LOS Angeles	State: (A Sampling Daint: (A)
Investigator(s): MCS_EGC Char ton Kalnett Section, Township,	Range: T2S, R14W Sansal Reduced by Land and
Landform (hillslope, terrace, etc.): It formula Ditch to Local relief (concav	is convey populi Flat Slope (94) (1-1/2
Subregion (LRR): Lat: 367815-935	A 200 V 100 100 N 100 100 100 100 100 100 100 1
2	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No	NWI classification: R4 SBAX Mer its
를 하고 있는 것이다. 이 사람들은 전에 가는 사람들은 경기에 하는 것이 되었다. 그 전에 되는 것이 되었다면 하는데 되었다. 그 그렇게 하는 것이 없는 것이었다면 없는 것이 없습니다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없습니다. 것이 없는 것이 없습니다. 것이 없는 것이 없는 것이 없습니다. 것이 없는 것이 없는 것이 없습니다. 것이 없는 것이 없어 없는 것이 없습니다. 것이 없는 것이 없는 것이 없습니다. 것이 없는 것이 없었다면 없어요. 것이 없는 것이 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면	
[전 : 12] [전 : [전 : 12] [T] [T] [T] [T] [T] [T] [T] [T] [T] [T	re "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If	f needed, explain any answers in Remarks.) Manna de Litch
SUMMARY OF FINDINGS - Attach site map showing sampling point	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Is the Same	
Hydric Soil Present? Yes No X	
Wetland Hydrology Present? Yes No Within a Wet	tland? Yes No
Remarks:	
	1.5
VEGETATION – Use scientific names of plants.	
Absolute Dominant Indicate	or Dominance Test worksheet:
Tree Stratum (Plot size:) % Cover Species? Status	to the contract of the contrac
1	
2	Total Number of Dominant
3	Species Across All Strata: (B)
4	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:) = Total Cover	That Are OBL, FACW, or FAC: (A/B)
1	Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3	OBL species x 1 =
4	FACW species x 2 =
5	FAC species x 3 =
Herb Stratum (Plot size:	FACU species x 4 =
Herb Stratum (Plot size:) 1. Premuse Cynodon dectylon Fac.	UPL species x 5 =
2. Photom Planteys lanceolata Fac	4 Column Totals: (A) (B)
3	Prevalence Index = B/A =
4	Hydrophytic Vegetation Indicators:
5	Dominance Test is >50%
6	Prevalence Index is ≤3.0¹
7	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: = Total Cover	Toolemano rijaroprijato vegetation (Explain)
1	¹ Indicators of hydric soil and wetland hydrology must
2	be present, unless disturbed or problematic.
= Total Cover	Hydrophytic
% Bare Ground in Herb Stratum % Cover of Biotic Crust	Vegetation Present? Yes No No
Remarks: Willows 10 ft UP Southurn bonk 1	From box around running
	(Variation)
-pare around	

2-7500

Project/Site: LAX Runway Safety Area/Argo	Ditch Cit	//County: City of Lo	os Angeles	Sampling Date: 8 - (3-13
Applicant/Owner: City of Los Angeles nvestigator(s): MGE, ECC FCC TH		,,,,	State: CA	Sampling Point: 93	150
Application MCC FCC FCC TH	K Charles (konto	ction Townshin Rar	T 2 S, R 14 W 5	unial Redundal	and Cran
andform (hillslope, terrace, etc.):	- Ditel Level	del relief (concessor	convey none): Fla	Slone (%):	12-1
andform (hillslope, terrace, etc.):Subregion (LRR):	1 0114/2000	oai reliei (concave, c	1 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	0000 (10).	SNAD
		1186.611	Long: 3 /3 /60%	PASRAV	Ride
Soil Map Unit Name:		. 2	NWI classifica	ition:	1covor
are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes X No_	(If no, explain in Re	emarks.)	
are Vegetation, Soil, or Hydrology	/ significantly dis	turbed? Are "	Normal Circumstances" p	resent? Yes N	0
are Vegetation, Soil, or Hydrology	y naturally proble	ematic? (If ne	eded, explain any answer	s in Remarks.) My	madel
SUMMARY OF FINDINGS - Attach si					
Hydric Soil Present? Yes _	No X	Is the Sampled within a Wetlar	Area	No X	
Wetland Hydrology Present? Yes _ Remarks:	V NO				
VEGETATION – Use scientific names		Dominant Indicator	Dominance Test work	sheet:	
<u>Tree Stratum</u> (Plot size:) 1	% Cover S	Species? Status	Number of Dominant Sp		(A)
2			Total Number of Domin Species Across All Stra		(B)
4	=	Total Cover	Percent of Dominant Sp That Are OBL, FACW,	pecies or FAC:	(A/B)
Sapling/Shrub Stratum, (Plot size:	- 37		Prevalence Index wor	ksheet:	
1				Multiply by:	
3.				x 1 =	1
4				x 2 =	
4	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			x 3 =	
		: Total Cover	FACU species	x 4 =	_
Herb Stratum (Plot size: Wilnel oloh mak	1		UPL species	x 5 =	
1. All Plants < Z/v			Column Totals:	(A)	(B)
2.			December of Indoor	- D/A -	
3			Hydrophytic Vegetation	= B/A =	
4			Dominance Test is		
5			Prevalence Index i		
6				ptations ¹ (Provide suppo	orting
7			data in Remark	s or on a separate sheet	t)
8			Problematic Hydro	phytic Vegetation ¹ (Expla	ain)
Woody Vine Stratum (Plot size:) ——	Total Cover	54.		
1.			¹ Indicators of hydric so	il and wetland hydrology	must
2.			be present, unless dist	urbed or problematic.	
Sail bare		= Total Cover	Hydrophytic Vegetation Present? Yes	es No	
% Bare Ground in Herb Stratum			riesent: 16	3	
Remarks:	nlefut - sand -	_/			
~ Z E Z	- Sand -	The state of the s			

Sate CA Sampling Point TAND Section, Township, Range: T2.S, R.14 W Section, T2.	Project/Site: LAX Runway Safety Area/Argo Ditch			
Section, Township, Range: T 2 S, R 14 W T 900 to another inhibitops, terrace, etc.): Data to the foliations Data	Applicant/Owner: City of Los Angeles		State: CA	Sampling Point: 27d to last 7
Stope (No. Content Concave Convex Conv	Investigator(s): AAL+TRM	Section, Township, Ra	nge: T 2 S, R 14 W	
Lat: #4.7 CET. 157 Long: 3.75.15 (%) 4.44 Datum: 6.5 (MAN)	Landform (hillslope, terrace, etc.): Ditch 2001	our ed and Local relief (concave,	convex, none): Flat	Slope (%): 0 - 1
New Classification: Act 79/A P. Next Next New Classification: Act 79/A P. Next New Classification: Act 79/A P. Next Next Next Next Next Next Next Next	Subregion (LRR):	Lat: 367621,157	Long: 3757580.	944 Datum: GCSNAD
Soil	Soil Map Unit Name: 100 1)w19		NWI classific	eation: R970AX Munim
Summary Of Findings - Attach site map showing sampling point locations, transects, important features, etc.				
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No within a Westland? Yes No				
Hydrophylic Vegetation Present? Yes No within a Wetland? Yes No Dominant Indicator Species? Status Number of Dominant Species Tree Stratum (Plot size:	Are Vegetation, Soil, or Hydrology	_ naturally problematic? № 6 (If no	eeded, explain any answe	rs in Remarks.) Man-Mado
Hydric Soil Present? Yes No within a Wetland?				
Hydric Soil Present? Yes No within a Wetland?	Hydrophytic Vegetation Present? Yes	No / Is the Sample	d Aroa	
Wetland Hydrology Present? Yes No No No No No No No No	Hydric Soil Present? Yes	No within a Wetla		No /
Absolute Species Spe	Wetland Hydrology Present? Yes	No <u>/</u>		
Absolute Species Stratum Species Str	Remarks:			
Absolute Species Stratum Species Str				
Absolute Species Stratum Species Str				
Absolute Species Stratum Species Str				
Number of Dominant Species Status Number of Dominant Species Canada	VEGETATION - Use scientific names of pl	ants.		
That Are OBL, FACW, or FAC: (A) Total Number of Dominant Species Across All Strata: (B) Sapling/Shrub Stratum (Plot size: That Are OBL, FACW, or FAC: (A) Sapling/Shrub Stratum (Plot size: That Are OBL, FACW, or FAC: (A) Freeat of So Across All Strata: (B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species			Dominance Test work	sheet:
2.	Control of the Contro	740 PARTICULAR DE LA SERCIA DE CASA DE		
Sapling/Shrub Stratum (Plot size:			That Are OBL, FACVV,	or FAC: (A)
Percent of Dominant Species That Are OBL, FACW, or FAC: A/B	The state of the s			
Sapling/Shrub Stratum (Plot size:			Species Across All Stra	ila (b)
Prevalence Index worksheet: Total % Cover of:	4		Percent of Dominant S	pecies 0/2-00 (A/B)
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species	Sapling/Shrub Stratum (Plot size:)	= Total Gover	That Are OBL, FACVV,	OI FAC. 9/9-07/1 (AVB)
2				W. M. D. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W. W. T. W.
FACW species				
Herb Stratum (Plot size: 10 m transect 17	3		The state of the s	
Herb Stratum (Plot size: 10 m transect 17	4		FACW species	x 2 =
Herb Stratum (Plot size: 10 m transect 1. Avena Darbata 2. £radium cicutarium 3. Centaurea solatitialis 4. Festuca muuros 5. Salsola tragus 6. Bromus madritasis 7. Bromus Mandria adarbata 8. Neterothera grandiflora 1. 5 = 30 1. 2 Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Vegetation 1. 1 Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	5			
1. Avona barbata T DOM (IPL Column Totals: (A) (B) 2. Eradium Cicutarium IT DOM (IPL Prevalence Index = B/A = 4. Testuca myuros 8 Hydrophytic Vegetation Indicators:	Harb Stratum (Plat size: 10 m transport	= Total Cover		
2. Fradium cicutarium 3. Centaurea solaticalis 4. Fostuca muuros 5. Salsola trague 6. Bromus madritansis 7. Bromus diandrus 8. Heterothera grandiflora 1		17 DOM UPL		1
3. Cantaurea solstitialis 4. Fostuca muuros 5. Salsola tragus 6. Bromus madritchsis 7. Bromus diandrus 8. Heterotheca grandiflora 1. 5 - 30 .2 - 12			Column rotals.	(A) (B)
4. Festuca myuros 5. Salsola tragus 6. Bromus madritchsis 7. Browns diandrus 8 Hydrophytic Vegetation Indicators:			Prevalence Index	= B/A =
5. Salsola tragus 6. Brownus madrifensis 7. Brownus diandrus 8. Heterothera grandiflora 1		8	Hydrophytic Vegetati	on Indicators:
7. Braws diandrus 1				
7. Browns Liandrus 8. Heterothera grandiflora 1. 5 = 30				
8. Noterothera grandification Leading Lead	7. Browns Liandons		Morphological Ada	ptations¹ (Provide supporting
Woody Vine Stratum (Plot size:				1
1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 2 = Total Cover	[= Total Cover	Problematic riyuro	priyito vegetation (Explain)
be present, unless disturbed or problematic. 2 = Total Cover Wegetation Present? Yes No			Indicators of hydric so	il and wetland hydrology must
% Bare Ground in Herb Stratum			be present, unless dist	urbed or problematic.
% Bare Ground in Herb Stratum % Cover of Biotic Crust Vegetation Present? Yes No	2.		Hydrophytic	
		Article Committee of	Vegetation	🗸
Remarks:	% Bare Ground in Herb Stratum % Co	over of Biotic Crust	Present? Ye	sNo
	Remarks:			/
			£1	100

US Army Corps of Engineers

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