

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 inbound 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)*.¹ 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

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.

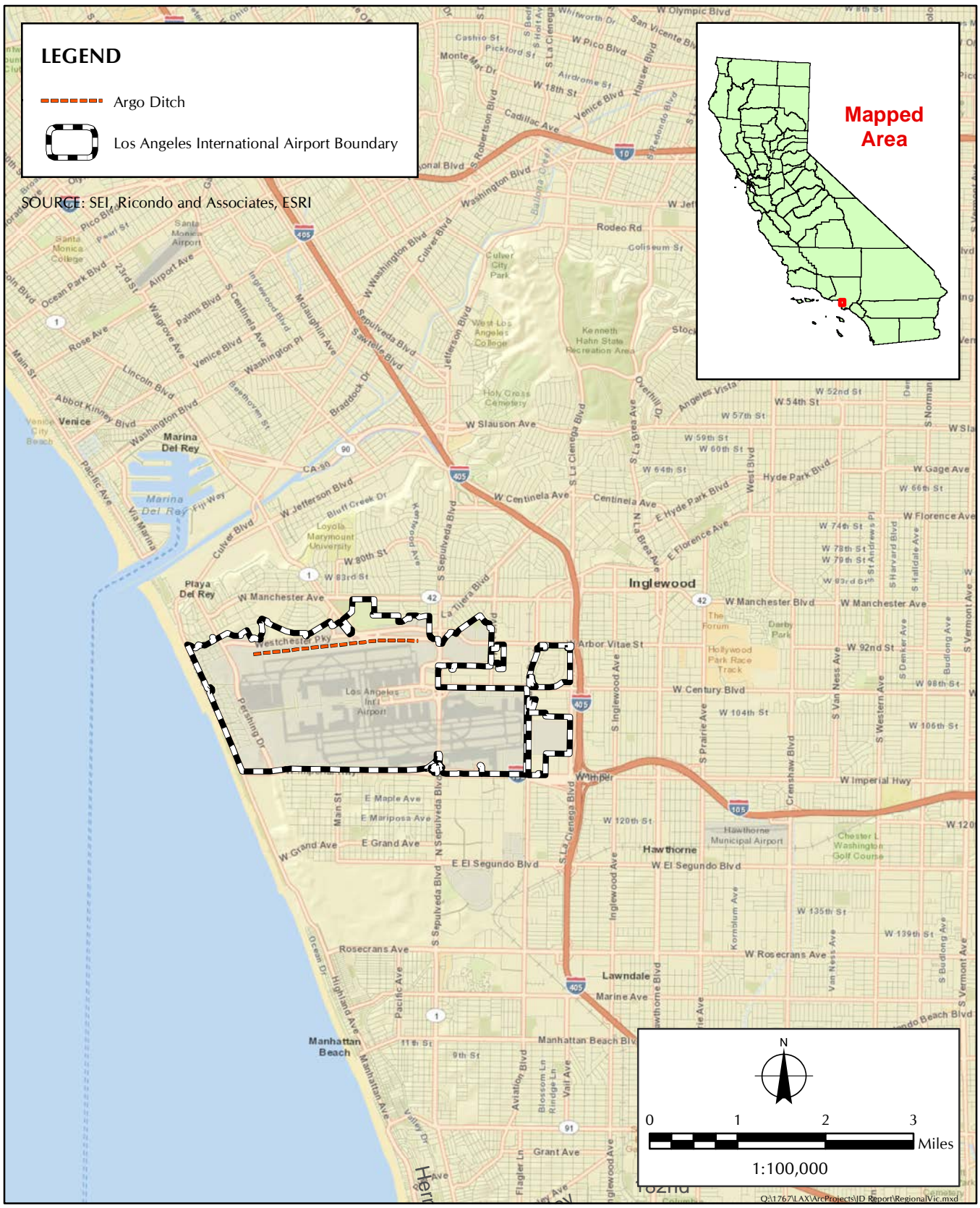
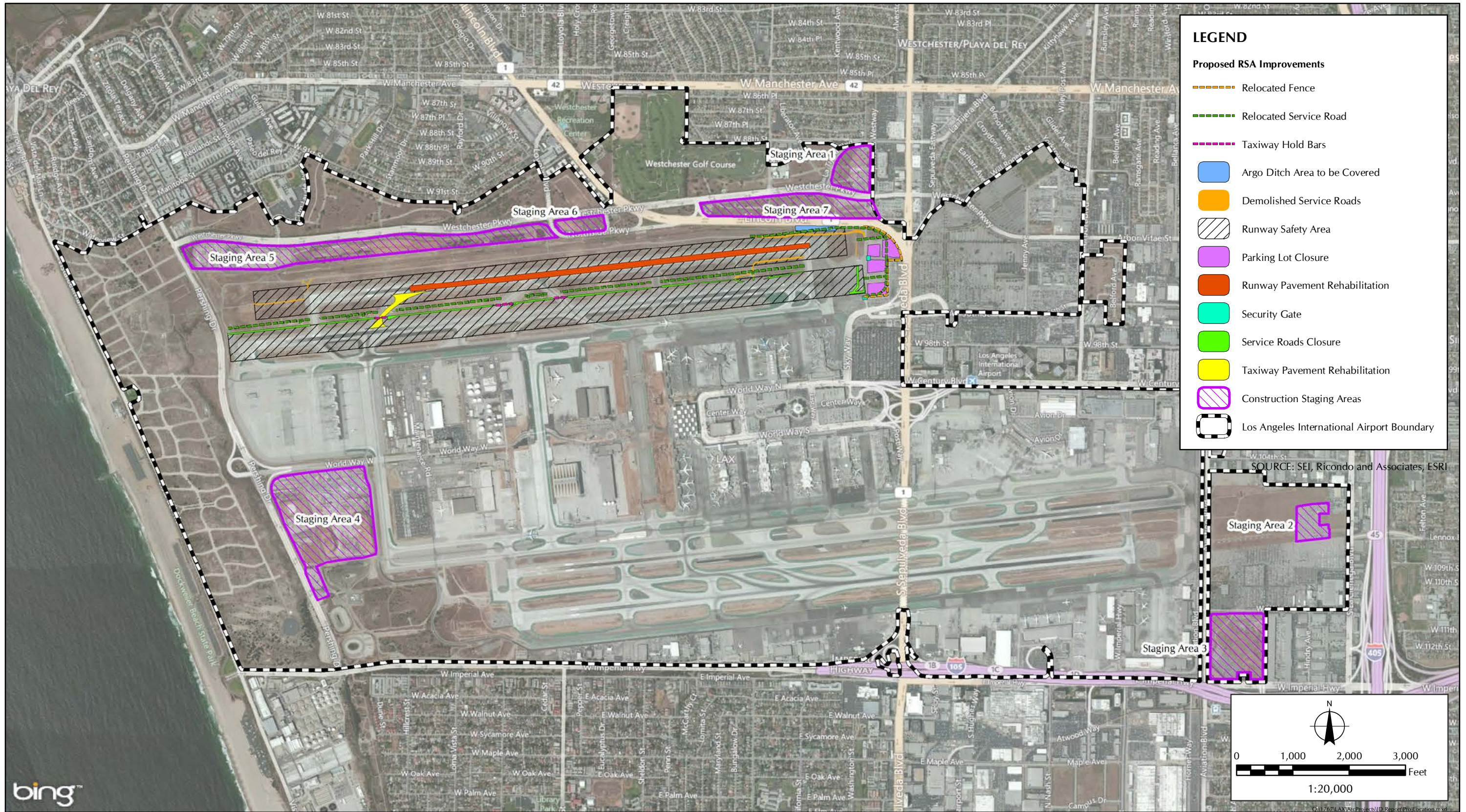


FIGURE 1.1-1
Regional Vicinity Map



LEGEND

Proposed RSA Improvements

- Relocated Fence
- Relocated Service Road
- Taxiway Hold Bars
- Argo Ditch Area to be Covered
- Demolished Service Roads
- ▨ Runway Safety Area
- Parking Lot Closure
- Runway Pavement Rehabilitation
- Security Gate
- Service Roads Closure
- Taxiway Pavement Rehabilitation
- ▨ Construction Staging Areas
- Los Angeles International Airport Boundary

SOURCE: SEI, Ricondo and Associates, ESRI

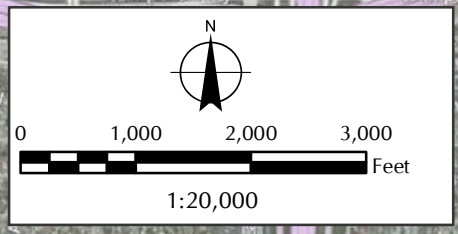


FIGURE 1.1-2
Local Vicinity Map

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

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

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.

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.



FIGURE 3.3-1
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”.²⁵ 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.

LEGEND
— 1997 Wetlands



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”.²⁹ 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

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-los-angeles-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-los-angeles-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-los-angeles-international-airport/>

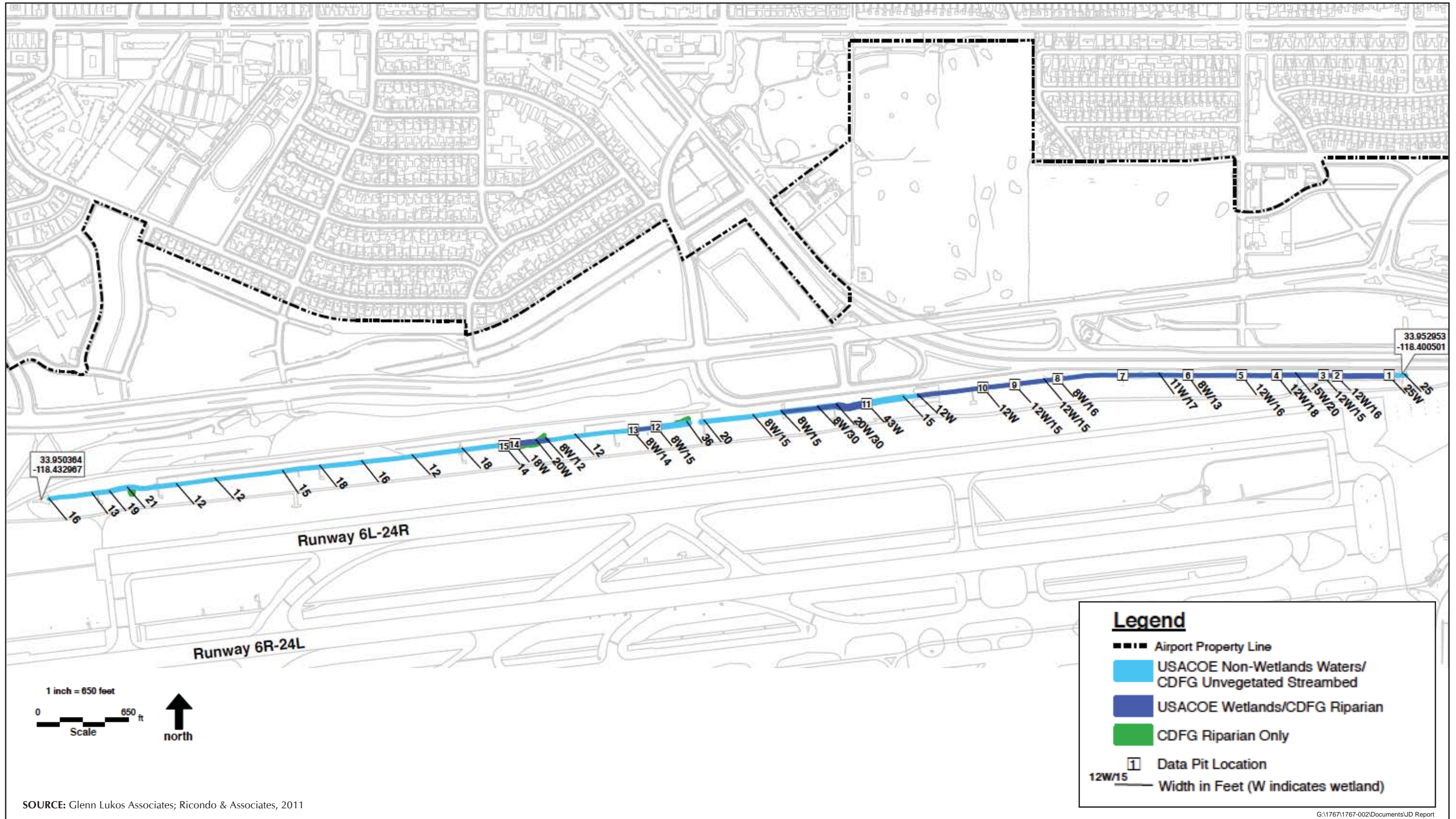
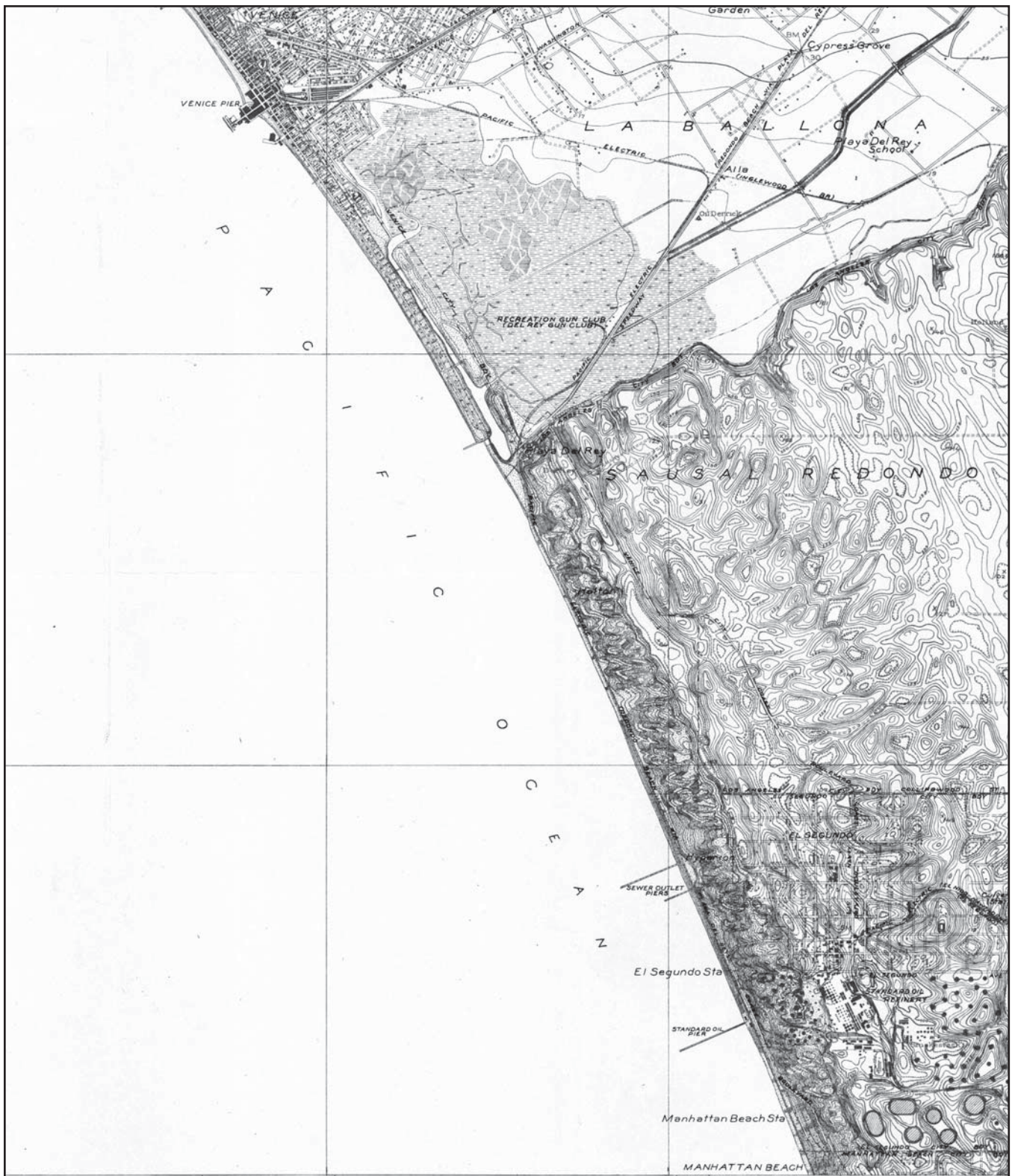
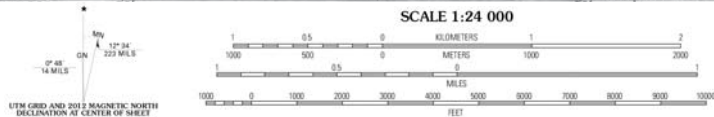


FIGURE 4.1-2
2011 Delineation of the Argo Ditch



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SCALE 1:24 000



SOURCE: USGS



FIGURE 4.2-1
1923 Topographic Map of Future LAX

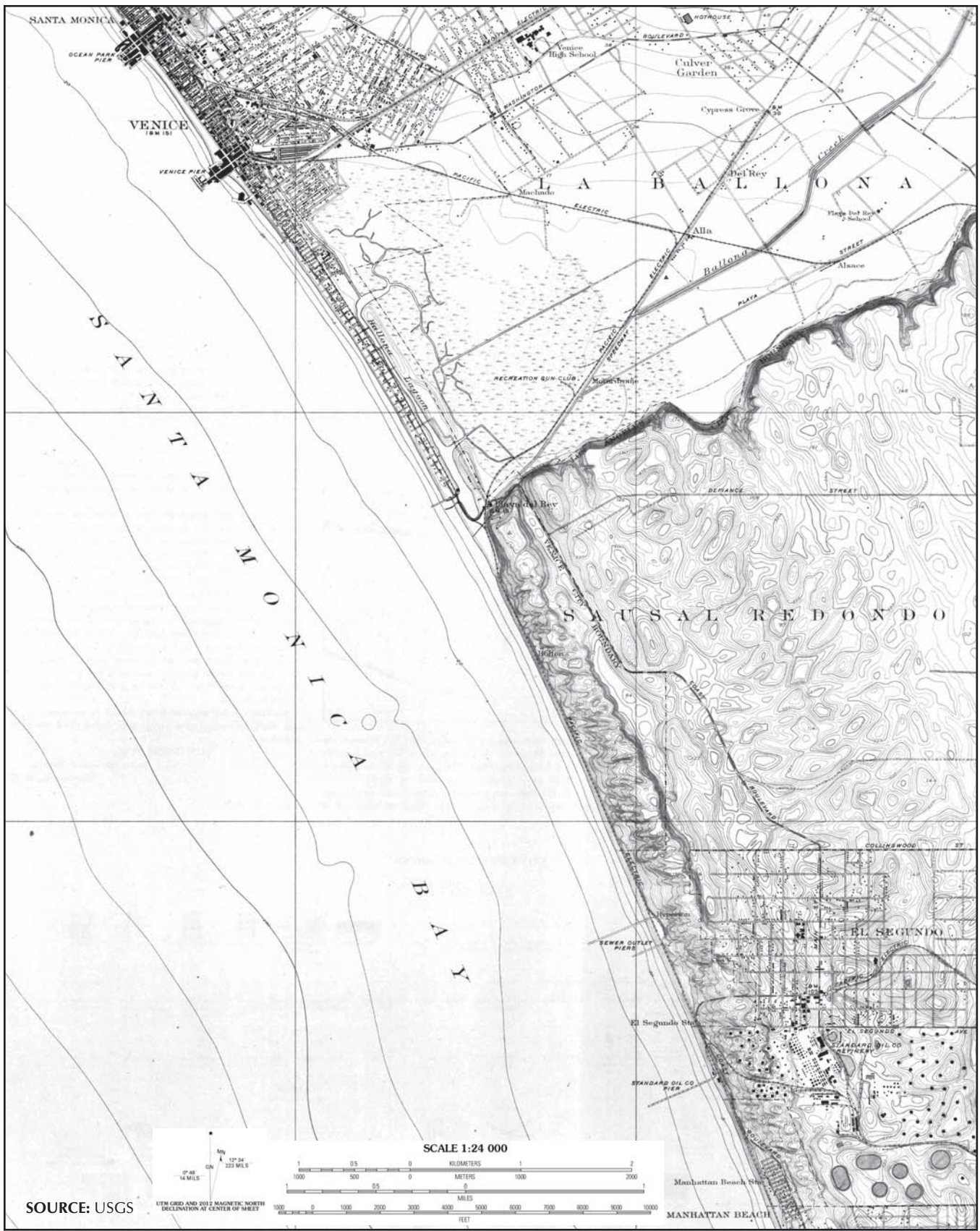


FIGURE 4.2-2
1924 Topographic Map of Future LAX

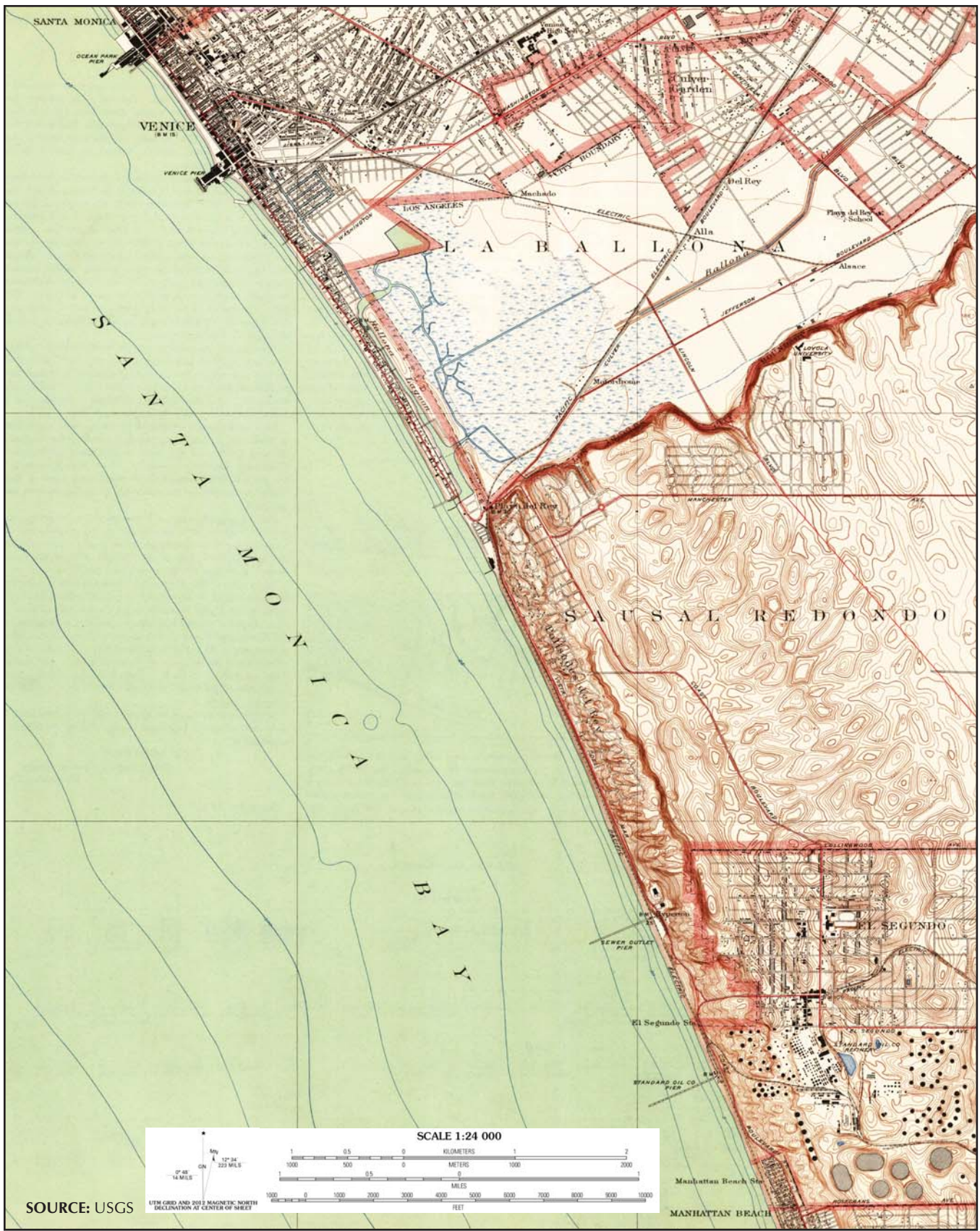


FIGURE 4.2-3
1934 Topographic Map of Municipal Airport



SOURCE: USGS

UTM GRID AND 2011 MAGNETIC NORTH DECLINATION AT CENTER OF MAP



FIGURE 4.2-4
1942 Topographic Map of Municipal Airport

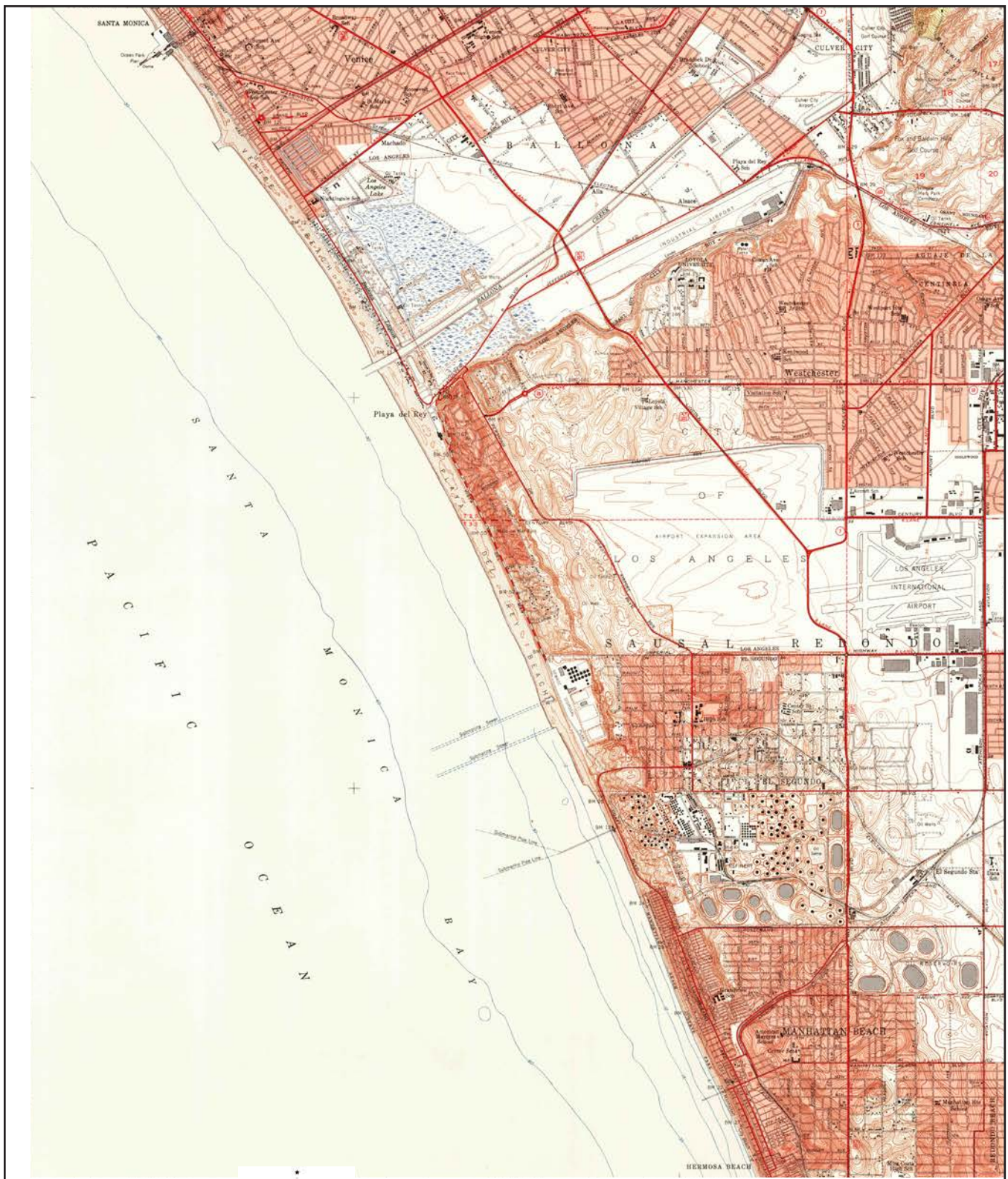
1946: After the war, five airlines had started their commercial operations from Los Angeles Municipal Airport.

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-los-angeles-international-airport/>

³⁴ This aerial photograph was obtained through Google Earth Imagery.

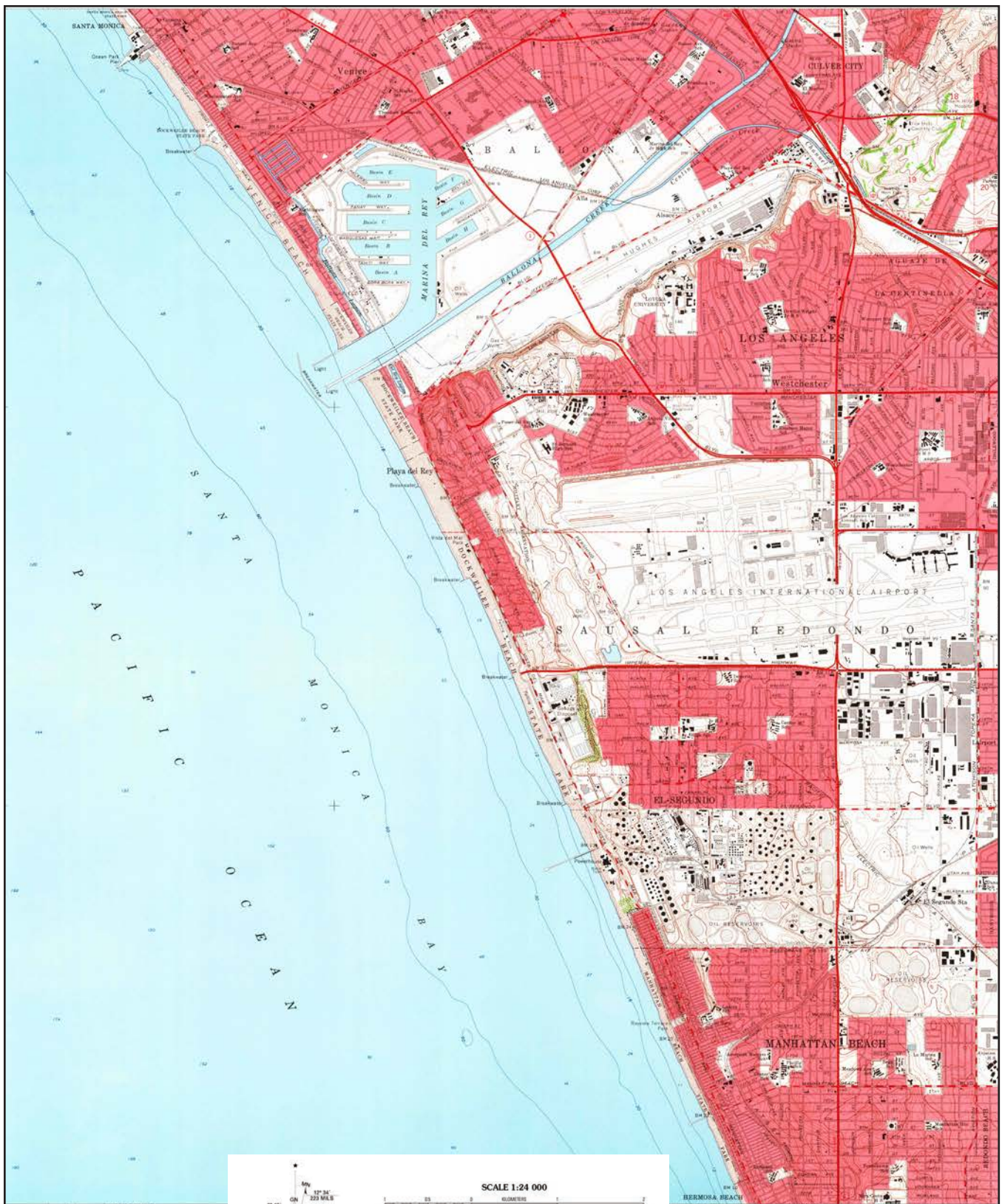


SOURCE: USGS

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

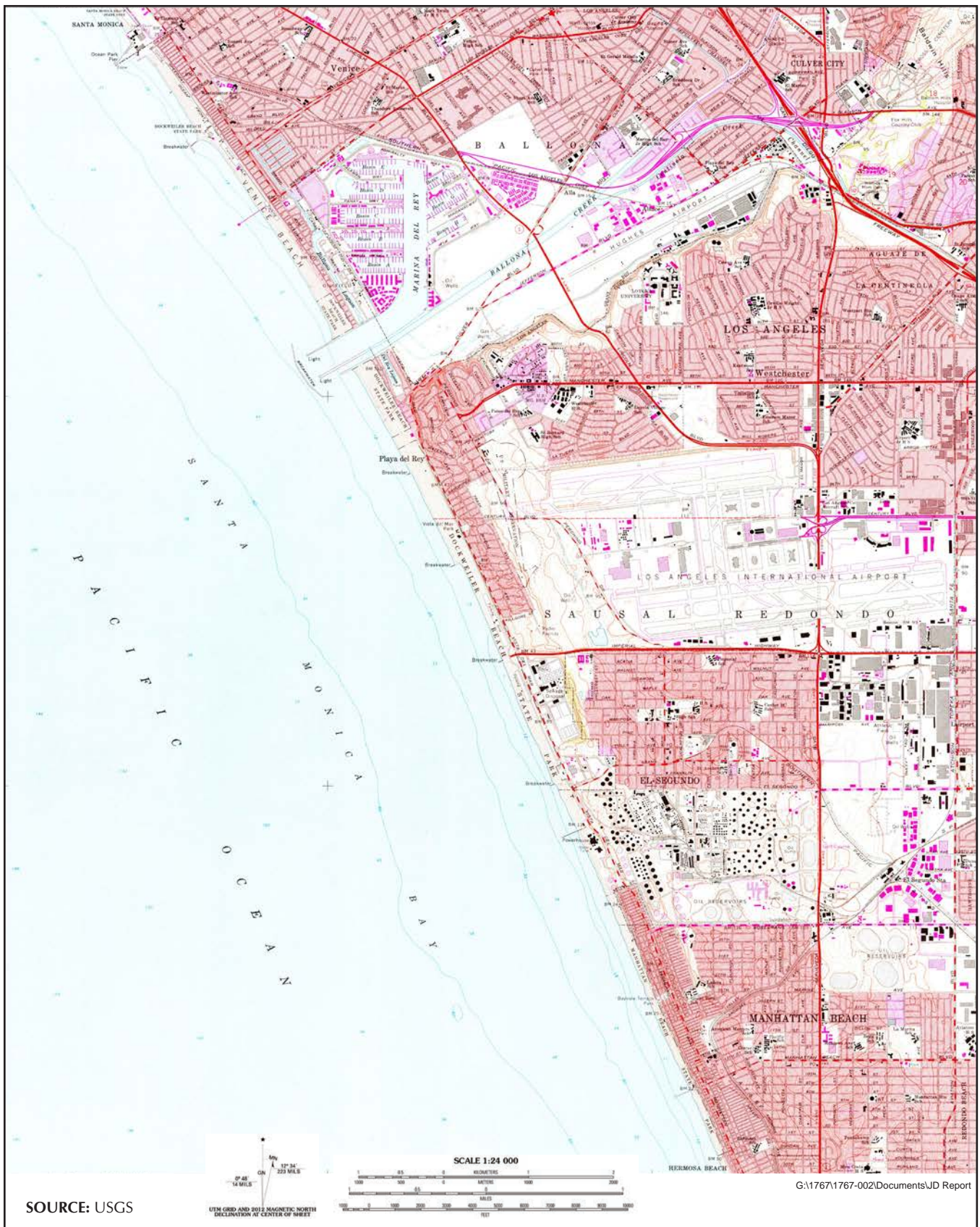


SOURCE: USGS

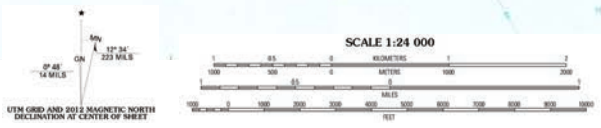
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FIGURE 4.2-6
1964 Topographic Map of LAX and the Argo Ditch



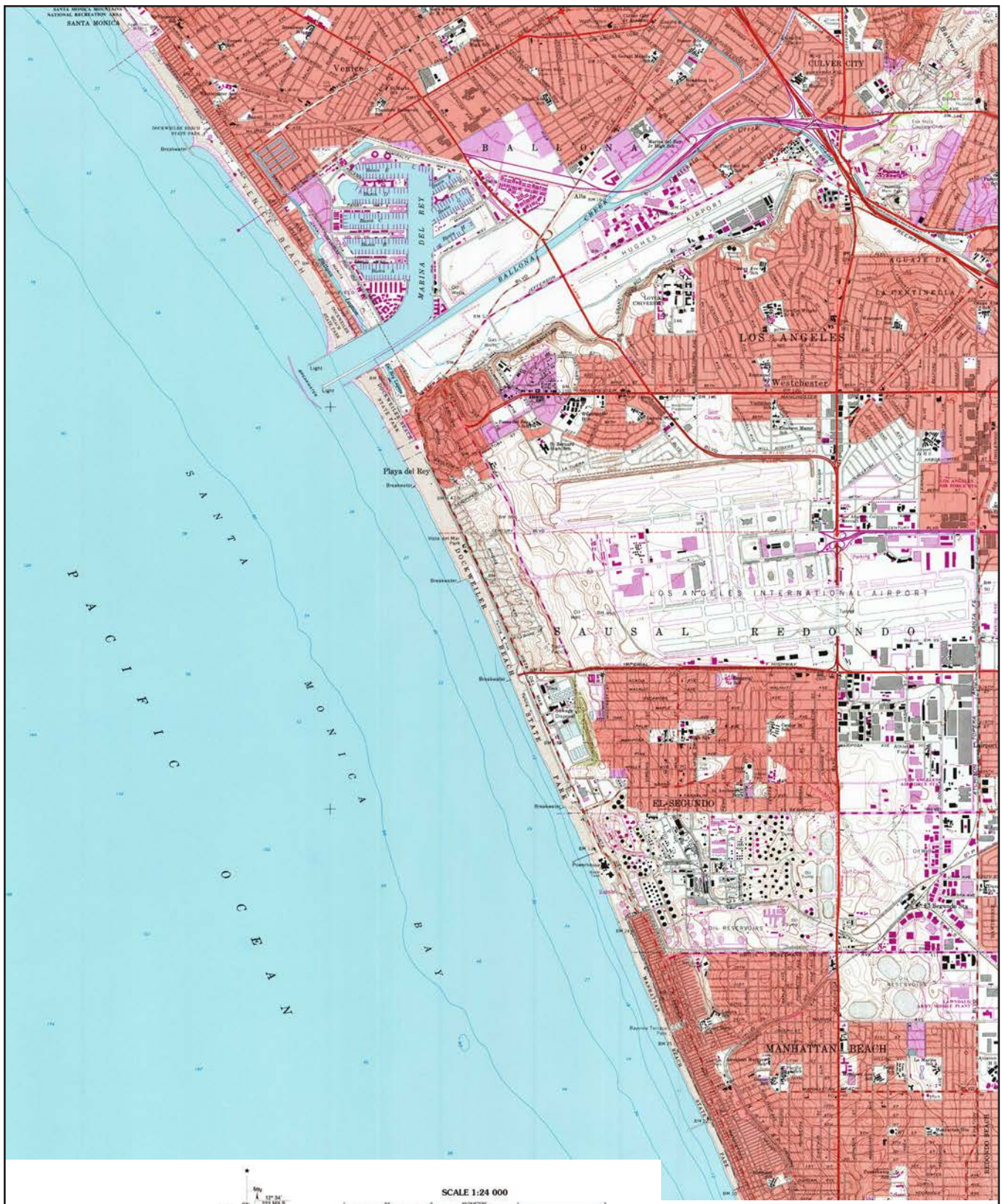
SOURCE: USGS



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



SOURCE: USGS

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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 dilatatum*), 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.

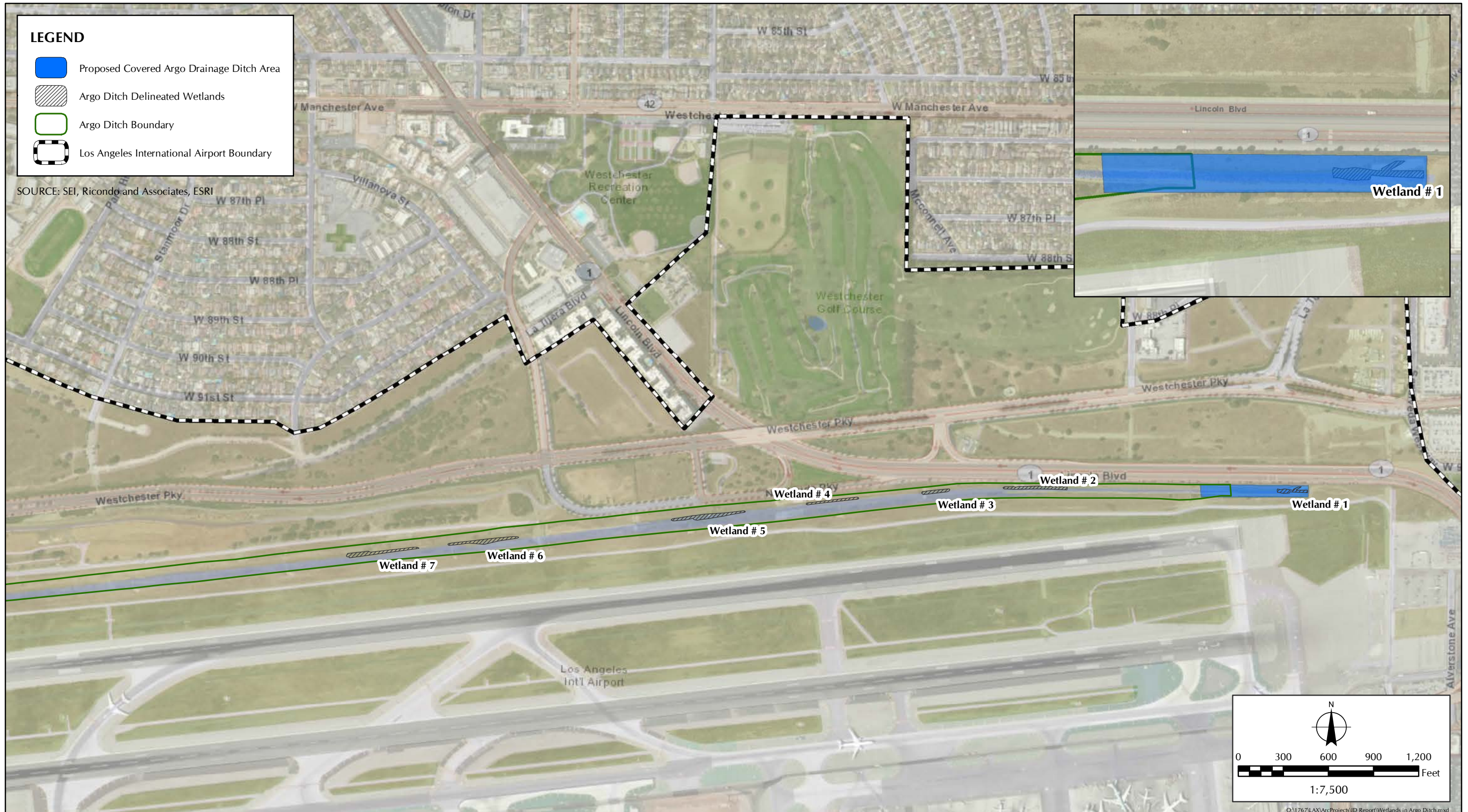


FIGURE 4.3-1
Wetlands within the Man-Made Argo Ditch



FIGURE 4.3-2
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 dock-leaf 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 (*Plantago 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 crispus*).

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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WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/8/2013
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 6000 LAND
 Investigator(s): CAMPBELL / BIEFELT Section, Township, Range: T 2 S, R 14 W SAUSAL REDONDO GRANT
 Landform (hillslope, terrace, etc.): BROW DITCH Local relief (concave/convex, none): FLAT bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 370594.527 Long: 375 7822.016 Datum: GCS NAD83
 Soil Map Unit Name: No Data NWI classification: R4SRAx - 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? Yes Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? No (If needed, explain any answers in Remarks.) MAN-MADE CHANNEL
ANNUAL VEGETATION = REMOVE

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: <u>LOCATION WHERE ARGO DITCH DAYLIGHTS FROM A CONCRETE BOX CHANNEL TO AN OPEN SOIL BOTTOM CHANNEL w/ CONCRETE REINFORCED SIDE SLOPES</u> <u>NO. 8 inches of water present - UNDER runoff</u> <u>Recently cleared of vegetation and surface soil. ditch cleared in 1949</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				OBL species _____ x 1 = _____
1. <u>Grasses Wetland Obligate</u>	<u>33%</u>	_____	_____	FACW species <u>35</u> x 2 = <u>70</u>
2. <u>Invasive (Dry Upland)</u>	<u>30%</u>	_____	_____	FAC species <u>5</u> x 3 = <u>15</u>
3. <u>Exposed sandy, silty matrix</u>	_____	_____	_____	FACU species _____ x 4 = _____
4. _____	_____	_____	_____	UPL species <u>10</u> x 5 = <u>50</u>
5. _____	_____	_____	_____	Column Totals: <u>60</u> (A) <u>135</u> (B)
= Total Cover				Prevalence Index = B/A = <u>2.25</u>
Herb Stratum (Plot size: <u>16 ft transect</u>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Echinochloa muricata</u>	<u>30%</u>	<u>DOM</u>	<u>FACW</u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. <u>Paspalum dilatatum</u>	<u>5%</u>	_____	<u>FAC</u>	
3. <u>Cyperus Eragrostis</u>	<u>5%</u>	_____	<u>FACW</u>	
4. <u>Bromus sp</u>	<u>30%</u>	<u>Dom</u>	<u>UPL</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
.5 = 30 .2 = 12 <u>160</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		

Remarks: Concrete apron with water on top

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles State: CA Sampling Date: 6/4/2013
 Applicant/Owner: City of Los Angeles Sampling Point: 00010/000
 Investigator(s): Campbell/Belfelt Section, Township, Range: T 2 S, R 14 W Sausal Redondo Level area
 Landform (hillslope, terrace, etc.): Brake Ditch Local relief (concave, convex, none): flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 370564.051 Long: 3757822.461 Datum: EGS NAD 83
 Soil Map Unit Name: NO Data NWI classification: R4SBAX - 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? Yes No Are "Normal Circumstances" present? Yes No
 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? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

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.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>1/1 = 100%</u> (A/B)
4. _____				
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. 100% vegetation grass	100%	X		Total % Cover of: _____ Multiply by:
2. cleared concrete on slope				OBL species _____ x 1 = _____
3. Echinodorus muricatus				FACW species _____ x 2 = _____
4. Setaria pumila				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
_____ = Total Cover				Column Totals: _____ (A) _____ (B)
_____ = Total Cover				Prevalence Index = B/A = _____
Herb Stratum (Plot size: <u>12.5 ft transect</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. _____				<input type="checkbox"/> Dominance Test is >50%
2. <u>Echinodorus muricatus</u>	<u>80%</u>	<u>Y</u>	<u>FACW</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Setaria pumila</u>	<u>15%</u>			<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>.5 = 47.5</u> <u>.2 = 19</u> <u>95</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		

Remarks:
Nearly 100% of the grass cleared on either side of the vegetation exposed
cleared concrete on slopes
concrete side slope

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 08/08/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 0200
 Investigator(s): MCC, ECC, Charlton/Rex Section, Township, Range: T.2 S, R.14 W SAUSAL REDONIDO GRANT
 Landform (hillslope, terrace, etc.): 1-2' deep ditch in leveled land Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 370533.881 Long: 3757672.906 Datum: GCSNAD 83
 Soil Map Unit Name: No Data NWI classification: R4SBAx - Riverine

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

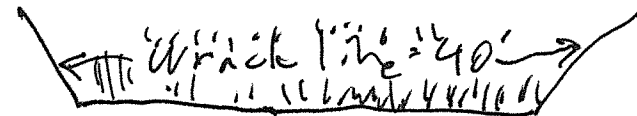
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input checked="" type="checkbox"/>			

Remarks:
The area is a man-made ditch (1919) that has recently been cleared of vegetation and surface soil.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>2/2 = 100%</u> (A/B)
1. _____				
2. _____				
3. _____				
_____ = Total Cover				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 = _____
Sapling/Shrub Stratum (Plot size: _____)				
1. _____				
2. _____				
3. _____				
_____ = Total Cover				
Herb Stratum (Plot size: <u>Visual estimate</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Non-native herb grass</u>	<u>80</u>			
2. <u>herbaceous plant curly dock</u>	<u>20</u>			
3. <u>Schizanthus muricata</u>	<u>80</u>	<u>DOM</u>	<u>FACW</u>	
4. <u>Persicaria longifolia</u>	<u>20</u>	<u>DOM</u>	<u>FACW</u>	
5. _____				
6. _____				
7. _____				
8. _____				
<u>.5 = 50 .2 = 20</u> _____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		

Remarks:

← Ditch line = 40" →

WETLAND DETERMINATION DATA FORM – Arid West Region

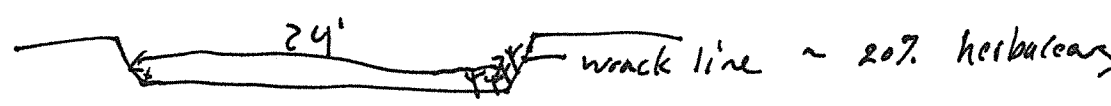
Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 08/18/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 0200
 Investigator(s): MCC, ECC, Charlton, Alex Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Green D300
 Landform (hillslope, terrace, etc.): V-Notch Ditch in level land Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 370503.110 Long: 3757823.352 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx - 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 Yes significantly disturbed? Are "Normal Circumstances" present? Yes No
 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?	Yes <input checked="" type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>The area is a man-made ditch (1949) that has recently been cleared of vegetation and surface soil.</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0% = 0%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species <u>20</u> x 4 = <u>80</u> UPL species _____ x 5 = _____ Column Totals: <u>20</u> (A) <u>80</u> (B) Prevalence Index = B/A = <u>4</u>
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 ¹ ___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: <u>Visual estimation</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. Herbaceous unk. <u>20%</u>	<u>20%</u>	<u>DOM FACU</u>	_____	
2. <u>Erigeron canadensis</u>	<u>20%</u>	<u>DOM FACU</u>	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
<u>.5 = 10 .2 = 4</u> _____ = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		
Remarks: 				

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 08/08/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 0400 0011
 Investigator(s): MCC, EGG, Charlton / Rex Section, Township, Range: T 2 S, R 14 W Source: Federal Land (Acq.) 10400
 Landform (hillslope, terrace, etc.): Brooks Ditch in wooded land Local relief (concave) convex, none: flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 370472.640 Long: 3757823.797 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx - riverine

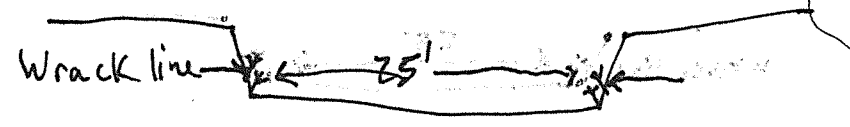
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? NO (If needed, explain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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that has recently been cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0/1 = 0%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species <u>10</u> x 4 = <u>40</u> UPL species _____ x 5 = _____ Column Totals: <u>10</u> (A) <u>40</u> (B) Prevalence Index = B/A = <u>40/10 = 4</u>
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: <input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
= Total Cover				
Herb Stratum (Plot size: <u>visual estimation</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>10% herbaceous</u>	_____	_____	_____	
2. <u>ERigeron canadense</u>	<u>10%</u>	<u>DOM</u>	<u>FACU</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>.5 = 5</u> <u>.2 = 2</u> <u>10</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Remarks: 

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/8/2013
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 00502 0500
 Investigator(s): Campbell/Bretfelt Section, Township, Range: T 2 S, R 14 W Seussel Redondo Land Grant
 Landform (hillslope, terrace, etc.): Woods Ditch in leveled box Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 370442.176 Long: 3757824.243 Datum: EGSNAD83
 Soil Map Unit Name: No Data NWI classification: R45BAx - riparian


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

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: <u>The area is a man-made ditch (1949) that has recently been cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>2/2 = 100%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
= Total Cover				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 = _____
Sapling/Shrub Stratum (Plot size: _____)				
1. <u>IPICUS</u>	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
= Total Cover				
Herb Stratum (Plot size: <u>22 ft transect</u>)				
1. <u>Setaria pumila</u>	<u>14</u>	<u>DOM</u>	<u>FAC</u>	
2. <u>Panicum capitatum</u>	<u>9</u>	<u>DOM</u>	<u>FACW</u>	
3. <u>0</u>	_____	_____	_____	
4. <u>Bare ground</u>	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>15 = 11.5 12 = 4.6 23 = Total Cover</u>				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		

Remarks:  veg had herbicide application (dying)

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/16/2013
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 00602
 Investigator(s): Campbell/Belfelt Section, Township, Range: T 2 S, R 14 W Sensal Redondo Land Grant
 Landform (hillslope, terrace, etc.): flattened ditch in leveled bed Local relief (concave, convex, none): Flat bottom Slope (%): _____
 Subregion (LRR): C Lat: 370411.705 Long: 3757824.688 Datum: BCSNA1183
 Soil Map Unit Name: No Data NWI classification: R4SBAX - riverine

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

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

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: <u>LHU - chip bags + ice cream wrappers throughout.</u> <u>1/4 inch sporadic clay deposition material on side slopes at 3ft above channel bottom</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>10%</u> (A/B)
4. _____	_____	_____	_____	
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>0</u>	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. <u>0</u>	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species <u>10</u> x 3 = <u>30</u>
5. _____	_____	_____	_____	FACU species <u>33</u> x 4 = <u>132</u>
= Total Cover				UPL species <u>33</u> x 5 = <u>165</u>
				Column Totals: <u>44</u> (A) <u>198</u> (B) <u>44</u> (C)
				Prevalence Index = B/A = <u>4.5</u>
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>0 Bromus sp</u>	<u>33%</u>	<u>Dom</u>	<u>FacU</u>	___ Dominance Test is >50%
2. <u>0 Br Brigeron canadensis</u>	<u>11%</u>	<u>Dom</u>	<u>FacU</u>	___ Prevalence Index is ≤3.0 ¹
3. <u>0 Bure</u>	_____	_____	_____	___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	___ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. <u>0 5 - 22 ft, 22 ft</u>	<u>44%</u>	_____	_____	
= Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		

Remarks: Transect 26ft
6-16 ft bare
35% in 1st 6ft
16-22ft → dead Bromus
225-26ft 90% cover herbicided veg dying
invasive grasses


WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/8/13 0700
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 0700 0007
 Investigator(s): MCC, EEC, carleton / RIX Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): V-back ditch in lowland Local relief (concave, convex, none): R/W bottom Slope (%): 0-10%
 Subregion (LRR): C Lat: 370381.235 Long: 3757825.133 Datum: GCSNAD83
 Soil Map Unit Name: NO Data NWI classification: R4SRAx - riverine
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology Yes 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? Yes <u>X</u> No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>X</u>
Remarks: <u>The area is a man-made ditch (1949) that has recently been cleared of vegetation and soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> / <u>100%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
= Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>10</u> x 3 = <u>30</u> FACU species <u>25</u> x 4 = <u>100</u> UPL species _____ x 5 = _____ Column Totals: <u>35</u> (A) <u>130</u> (B) Prevalence Index = B/A = <u>3.3</u>
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
Herb Stratum (Plot size: <u>usual espinal of 25 ft transect</u>)				
1. <u>Non-native herbaceous shrub</u>	_____	<u>25%</u>	_____	
2. <u>sedge (Plantago lanceolata)</u>	_____	<u>10%</u>	_____	
3. <u>Erigeron canadensis</u>	<u>25</u>	<u>DOM</u>	<u>FACW</u>	
4. <u>Plantago lanceolata</u>	<u>10</u>	<u>DOM</u>	<u>FAC</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>35</u> = Total Cover				<input type="checkbox"/> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u>X</u> No <u>X</u>
2. _____	_____	_____	_____	
= Total Cover				Remarks: 
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 08/15/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 0500 0008 090
 Investigator(s): MCC ECE charelynn/Rer Section, Township, Range: T.2 S., R.14 W Sausal Redondo Land Unit
 Landform (hillslope, terrace, etc.): V-banks Ditch in back of land Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 370350.704 Long: 3757825.579 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAX - riverine

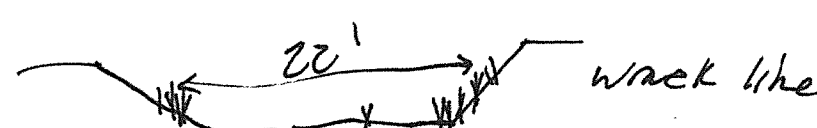
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil , or Hydrology 40 significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? No (If needed, explain any answers in Remarks.) man-made ditch

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that has recently been cleared of vegetation and soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species <u>5</u> x 2 = <u>10</u>
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species <u>10</u> x 4 = <u>40</u>
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: <u>15</u> (A) <u>50</u> (B)
				Prevalence Index = B/A = <u>3.3</u>
Herb Stratum (Plot size: <u>visual estimate</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Erigeron canadensis</u>	<u>10</u>	<u>Dom</u>	<u>FACU</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Peristichia leptophylla</u>	<u>5</u>	<u>Dom</u>	<u>FACW</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>15</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>

Remarks: 

WETLAND DETERMINATION DATA FORM – Arid West Region

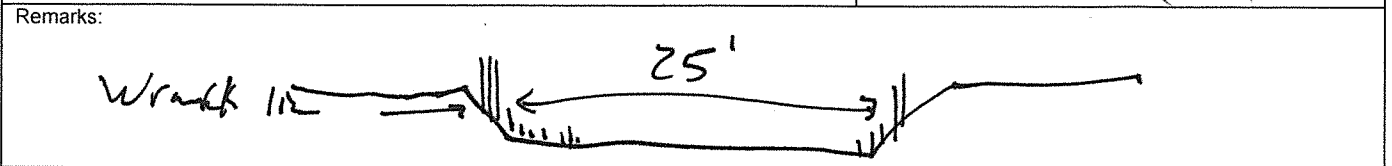
Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 08/08/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 2700/900
 Investigator(s): MCC, ECC Charlton/Rex Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land 0100
 Landform (hillslope, terrace, etc.): Grass ditch in level land Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 370320.294 Long: 3757826.024 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx - 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
 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? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that has recently been cleared of vegetation and soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
4. _____	_____	_____	_____	
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Same @ AS 0800</u>	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species <u>5</u> x 2 = <u>10</u>
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species <u>10</u> x 4 = <u>40</u>
= Total Cover				UPL species _____ x 5 = _____
				Column Totals: <u>15</u> (A) <u>50</u> (B)
				Prevalence Index = B/A = <u>3.3</u>
Herb Stratum (Plot size: <u>visual estimate</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Eragrostis canadensis</u>	<u>10</u>	<u>Dim</u>	<u>FACU</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Panicum capillare</u>	<u>5</u>	<u>Dim</u>	<u>FACW</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>15 = 7.5%</u> <u>15</u> = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____	_____	_____	_____	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				



WETLAND DETERMINATION DATA FORM – Arid West Region


Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/6/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 1000 000/000
 Investigator(s): MCC-EEC charlton/Alex Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): V-bath Ditch in level of land Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 370289.824 Long: 3757826.469 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx -riverine
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology Yes 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? Yes <u>X</u> No <u>X</u> Hydric Soil Present? Yes <u>X</u> No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Remarks: <u>The area is a man-made ditch (1949) that has recently been cleared of vegetation and soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species <u>5</u> x 2 = <u>10</u>
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species <u>10</u> x 4 = <u>40</u>
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: <u>15</u> (A) <u>50</u> (B)
				Prevalence Index = B/A = <u>3.3</u>
Herb Stratum (Plot size: <u>visual estimate</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Shrub 65 0900</u>	_____	_____	_____	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Erigeron canadensis</u>	<u>10%</u>	<u>Dom</u>	<u>FACU</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Persicaria leptophylla</u>	<u>5%</u>	<u>1/1</u>	<u>FACW</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>0.5</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes <u>X</u> No <u>X</u>

Remarks: 

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 4/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 1200 002
 Investigator(s): MCC, EGG, Charlton MEX Section, Township, Range: T. 2 S, R. 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): Vertical Ditch in leveled flat Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 370228.883 Long: 3757927.360 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R45BAX-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
 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? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that has recently been cleared of vegetation and soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100/50</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species <u>5</u> x 2 = <u>10</u>
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species <u>10</u> x 4 = <u>40</u>
_____ = Total Cover				UPL species _____ x 5 = _____
_____ = Total Cover				Column Totals: <u>15</u> (A) <u>50</u> (B)
_____ = Total Cover				Prevalence Index = B/A = <u>3.3</u>
Herb Stratum (Plot size: <u>Visual estimate</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. _____	_____	_____	_____	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>3m x 5m / 1000</u>	_____	_____	_____	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Erigeron Canadensis</u>	<u>10</u>	<u>Dom</u>	<u>FACU</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Pericaria leptophylla</u>	<u>5</u>	<u>Dom</u>	<u>FACW</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>

Remarks:  wreck in

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 6/4/13 1300
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 1300 0013
 Investigator(s): MCC, ECC Charlton/Rex Section, Township, Range: T. 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): v-bottom Ditch in area Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 370198.412 Long: 3757827.780 Datum: GCS NAD 83
 Soil Map Unit Name: No Data NWI classification: R4SBAX - riverine

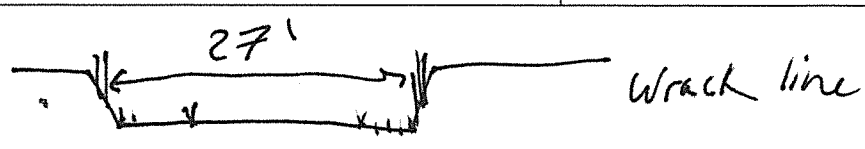
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? no (If needed, explain any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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that has recently been cleared of vegetation and soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species <u>10</u> x 2 = <u>10</u>
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species <u>10</u> x 4 = <u>40</u>
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: <u>15</u> (A) <u>50</u> (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: <u>visual estimate</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>sun as 1200</u>	_____	_____	_____	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Erigeron canadensis</u>	<u>10%</u>	<u>Dom</u>	<u>Fac</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Persicaria lapathifolia</u>	<u>5%</u>	<u>Dom</u>	<u>FacW</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>ΣZ = 3</u> <u>15</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		

Remarks: 

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/18/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 081400
 Investigator(s): Campbell / Belfelt Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): V-bank Ditch in low local relief Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 37°06'94" Long: 118°25'18" Datum: GCS NAD 83
 Soil Map Unit Name: No Data NWI classification: R45BAx - 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
 Are Vegetation , Soil , or Hydrology naturally problematic? NO (If needed, explain any answers in Remarks.) Man made ditch in veg removed

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: fast food trash The area is a man-made ditch (1949) that has recently been cleared of vegetation and soil.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				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 = _____
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>0</u>	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 ¹ ___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: <u>26ft transect</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>All species <5%</u>	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____	% Cover of Biotic Crust _____			

Remarks: 10% tall ash 5ft 19ft 26ft 50ft tall ash 10ft dead 19ft 125 8ft 8ft 125

WETLAND DETERMINATION DATA FORM – Arid West Region

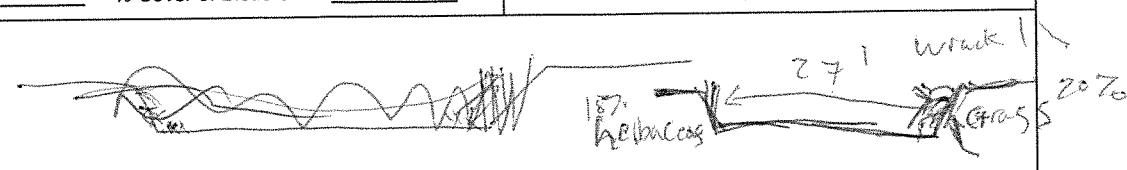
Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 1500 01500
 Investigator(s): MCC, ECC Charleston/Rex Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): Brooks ditch elevated bank Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 370137.470 Long: 3757828.594 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx - 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 Yes significantly disturbed? Are "Normal Circumstances" present? Yes No
 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? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that has recently been cleared of vegetation and soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species <u>15</u> x 2 = <u>30</u> FAC species _____ x 3 = _____ FACU species <u>20</u> x 4 = <u>80</u> UPL species <u>20 20</u> x 5 = <u>100 100</u> Column Totals: <u>35</u> (A) <u>130</u> (B) Prevalence Index = B/A = <u>3.7</u>
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 ¹ ___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
= Total Cover				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Herb Stratum (Plot size: <u>Visual estimate</u>)				
1. <u>an grass Bromus sp. 20%</u>	<u>20%</u>	<u>Pim</u>	<u>OBL</u>	___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 ¹ ___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Lythrum latifolium 15%</u>	<u>15%</u>	<u>Dun</u>	<u>FACW</u>	
3. <u>Lupinus albus 10%</u>	<u>10%</u>	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
= Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 ¹ ___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
= Total Cover				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks: 				

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 1000' +/- 1600'
 Investigator(s): MCC, ECC, Cheryl Kim / HX Section, Township, Range: T 2 S, R 14 W Sausal Redondo
 Landform (hillslope, terrace, etc.): Man-made ditch, 4' high / 1' deep Local relief (concave/convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): E Lat: 370106.999 Long: 3757829.000 Datum: ECS NAD 83
 Soil Map Unit Name: No Data NWI classification: R4 SBAx - riverine
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil K, or Hydrology Yes 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?	Yes <u>X</u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u>X</u>
Hydric Soil Present?	Yes <u>X</u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u>X</u>			
Remarks: <u>The area is a man-made ditch (1949) that has recently been cleared of vegetation and soil.</u>					

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)	
4. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species <u>20</u> x 2 = <u>40</u> FAC species _____ x 3 = _____ FACU species <u>10</u> x 4 = <u>40</u> UPL species _____ x 5 = _____ Column Totals: <u>30</u> (A) <u>80</u> (B) Prevalence Index = B/A = <u>2.7</u>	
= Total Cover					
Sapling/Shrub Stratum (Plot size: _____)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
= Total Cover					
Herb Stratum (Plot size: <u>Visual estimate</u>)					
1. <u>20% annual grass</u>	_____	_____	_____	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0' ___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>10% unk herbace perennials</u>	_____	_____	_____		
3. <u>Echinochloa polystachya</u>	<u>20</u>	<u>Dom</u>	<u>FACU</u>		
4. <u>Erigeron canadensis</u>	<u>10</u>	<u>Dom</u>	<u>FACU</u>		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
= Total Cover					
Woody Vine Stratum (Plot size: _____)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
= Total Cover					
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <u>X</u> No _____	
Remarks: <u>herb</u> <u>wreck in</u> <u>27'</u> <u>Grass</u>					

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: 4/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 201700
 Investigator(s): Campbell/Bretfeld Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): Argo Ditch on level land Local relief (concave, convex, none): flat bottom Slope (%): 0-1%
 Subregion (LRR): V-Brooks Ditch C Lat: 370076.528 Long: 3757829.407 Datum: GCSNAD 83
 Soil Map Unit Name: No Data NWI classification: R4SBAx-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
 Are Vegetation , Soil , or Hydrology naturally problematic? NO (If needed, explain any answers in Remarks.) man made ditch was cleared

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <p align="center"><u>litter/trash clay cracks on sides 1ft above channel bottom to 4 ft above channel. The area is a man-made ditch (1940) that is periodically cleared of vegetation and surface soil</u></p>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>2/3 = 67%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
= Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species <u>13</u> x 2 = <u>26</u> FAC species <u>8</u> x 3 = <u>24</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>13</u> x 5 = <u>65</u> Column Totals: <u>34</u> (A) <u>125</u> (B) Prevalence Index = B/A = <u>3.7</u>
Sapling/Shrub Stratum (Plot size: _____) 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ = Total Cover				
Herb Stratum (Plot size: <u>19 ft transect</u>) 1. <u>Panicum laetifolium</u> <u>13%</u> <u>Dom</u> <u>FACW</u> 2. <u>Bromus sp.</u> <u>13%</u> <u>Dom</u> <u>FACW</u> 3. <u>Sedaria pumila</u> <u>8%</u> <u>Dom</u> <u>FAC</u> 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ <u>50%</u> <u>20%</u> <u>6%</u> <u>34%</u> = Total Cover				
Woody Vine Stratum (Plot size: _____) 1. _____ 2. _____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				
Remarks: <p><u>5ft tall grass 10% alyps</u> <u>100% grass</u> <u>deck soil, Panicum</u> <u>100% alyps</u> <u>3ft 55 65</u> <u>4ft 12</u> <u>1-100% 16 in grass 14</u> <u>11ft tall 5% plant</u> <u>sample taken</u> <u>7ft to 11ft</u> <u>9ft</u> <u>95% in grass</u></p>				

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: 8/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 0018 1900
 Investigator(s): Campbell / Bielfelt Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): brooks ditch in leveling Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 370046.057 Long: 3757829.776 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx - 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
 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? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: <u>This area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.</u> <u>bench road dips down here</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	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 = _____
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
= Total Cover				
Herb Stratum (Plot size: <u>16 ft transect</u>)				
1. <u>Pennisetum laetifolium</u>	<u>34%</u>	<u>Dim</u>	<u>Facw</u>	
2. <u>Setaria pumila</u>	<u>5%</u>	<u>1</u>	<u>Fac</u>	
3. <u>Plantago lanceolata</u>	<u>5%</u>		<u>Fac</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Remarks: to 100% broom grass
to 50% drying veg
5% bPA
75% cow dock
16
18
19A
100% phragmites

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: 8/8/13 1900
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 1900 0019
 Investigator(s): MCC, EEE - Charlton / Rex Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): 480 ft Ditch in leveled land Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 370015.584 Long: 3757829.678 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx - 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
 Are Vegetation , Soil , or Hydrology naturally problematic? NO (If needed, explain any answers in Remarks.) man made ditch

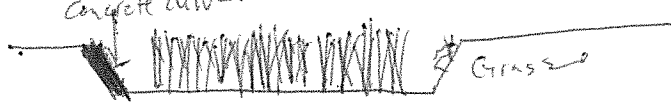
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: Duck weed present in fall Grasses 3-8" standing water
The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>duck weed</u>	<u>15%</u>	<u>Dom</u>	<u>Obl</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Grass</u>	<u>40%</u>	<u>Dom</u>	<u>FACW</u>	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
_____ = Total Cover				Column Totals: _____ (A) _____ (B)
_____ = Total Cover				Prevalence Index = B/A = _____
Herb Stratum (Plot size: <u>1m x 1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>duck weed</u>	<u>15</u>	<u>Dom</u>	<u>Obl</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. Echinochloa maculata	<u>40</u>	<u>Dom</u>	<u>FACW</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Festuca perennis</u>	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>5 = 27.5%, 2 = 11%</u>				
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____	_____	_____	_____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		

Remarks: concrete culvert


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: 8/4/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 2080 0020
 Investigator(s): MCC, FCC, Charleston/Rox Section, Township, Range: T 2 S, R 14 W Sausal Redondo Level (with) 2000
 Landform (hillslope, terrace, etc.): brooks ditch in leveled lot Local relief (concave, convex, none): Flatbottom Slope (%): 0-10%
 Subregion (LRR): C Lat: 36985.110 Long: 3757829.580 Datum: GCSNAD 83
 Soil Map Unit Name: No Data NWI classification: R4SBAx -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? yes Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? no (If needed, explain any answers in Remarks.) Man-made ditch

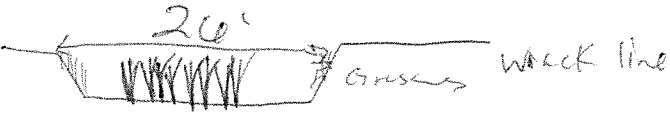
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks: The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>50% tall grass</u>	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. <u>10% annual grass</u>	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species <u>40</u> x 2 = <u>80</u>
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species 10 x 4 = 40
_____ = Total Cover				UPL species <u>10/10</u> x 5 = <u>50</u>
				Column Totals: <u>50</u> (A) <u>130</u> (B)
				Prevalence Index = B/A = <u>2.6</u>
Herb Stratum (Plot size: <u>1m x 1m</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Echinochloa muricata</u>	<u>40%</u>	<u>Dom</u>	<u>Fach</u>	Dominance Test is >50% <input type="checkbox"/>
2. <u>Bromus sp</u>	<u>10%</u>	<u>Dom</u>	<u>Fach</u>	<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>5225% 122/10</u> <u>50</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____	_____	_____	_____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

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: 8/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 002100
 Investigator(s): Campbell / Bielfelt Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): Grasses Ditch in local bed Local relief (concave, convex, none): Flat bottom Slope (%): 0-10%
 Subregion (LRR): C Lat: 369954.637 Long: 3757829.482 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx-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
 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? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
4. _____	_____	_____	_____	
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species <u>6</u> x 2 = <u>12</u>
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species <u>88</u> x 4 = <u>352</u>
= Total Cover				UPL species <u>88</u> x 5 = <u>440</u>
				Column Totals: <u>94</u> (A) <u>482361</u> (B)
				Prevalence Index = B/A = <u>482361 / 94 = 5131.5</u>
Herb Stratum (Plot size: <u>8 ft transect</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Bromus sp</u>	<u>88%</u>	<u>Domin FACW</u>	_____	<input type="checkbox"/> Dominance Test is >50%
2. <u>Pennisetum leptostachya</u>	<u>6 1/2%</u>	<u>FACW</u>	_____	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>94</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Remarks: 10% 05 100% dead angrass + short pod mixed together 5.5 100% short 100% 8 ft short pod + angrasses

dominant the bottom

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/4/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 002200
 Investigator(s): Campbell / Belfelt Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): U-shaped ditch in level flat Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 369924.163 Long: 3757829.385 Datum: GCS NAD 83
 Soil Map Unit Name: No Data NWI classification: R4BSA x -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 Yes significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? regularly cleared (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? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species <u>13</u> x 2 = <u>36</u>
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species <u>28</u> x 4 = _____
_____ = Total Cover				UPL species <u>83</u> x 5 = <u>415</u>
				Column Totals: <u>96</u> (A) <u>451</u> (B)
				Prevalence Index = B/A = <u>4.7</u>
Herb Stratum (Plot size: <u>8 ft transect</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Bromus sp</u>	<u>75%</u>	<u>Dom</u>	<u>Upl</u>	<input type="checkbox"/> Dominance Test is >50%
2. <u>Pennisetum setosifolium</u>	<u>15%</u>	<u>Dom</u>	<u>FACW</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Centaurea solstitialis</u>	<u>8%</u>	_____	<u>UPL</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>92 48% 2 = 192</u> <u>96</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

Remarks: 5- star thistle 16% 100% grass short pad mrv 5 ft 6 ft 100% grass 100% grass some grass 36 ft 15

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 2300
 Investigator(s): MGC, ECC Charleston/Rex Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): to Brooks Ditch in leveled land Local relief (concave, convex, none): Flat bottom Slope (%): 0-10%
 Subregion (LRR): C Lat: 369893.716 Long: 3757828.636 Datum: GOSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SRAX - riverine
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology Yes 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 ditch

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

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>X</u>
Remarks: <u>The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species <u>5</u> x 2 = <u>10</u>
4. _____	_____	_____	_____	FAC species <u>50</u> x 3 = <u>150</u>
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species <u>40</u> x 5 = <u>200</u>
				Column Totals: <u>95</u> (A) <u>360</u> (B)
				Prevalence Index = B/A = <u>360/95 = 3.8</u>
Herb Stratum (Plot size: <u>Visual estimate of 19ft² + transect</u>)				Hydrophytic Vegetation Indicators:
1. <u>Gragex</u>	<u>50%</u>			___ Dominance Test is >50%
2. <u>Urtica dioica</u>	<u>5%</u>			___ Prevalence Index is ≤3.0 ¹
3. <u>Scytura solstitialis</u>	<u>40</u>	<u>Dom</u>	<u>Upl</u>	___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Festuca perennis</u>	<u>50</u>	<u>Dom</u>	<u>Fac</u>	___ Problematic Hydrophytic Vegetation ¹ (Explain)
5. <u>Perticaria lapathifolia</u>	<u>5</u>		<u>Fac</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>.50 = 47.5 2 = 19.6</u> _____ = Total Cover <u>95</u>				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes _____ No <u>X</u>		

Remarks: Wreckline 191
5% herbaceous
Gragex

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/5/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 2400
 Investigator(s): MEC, EGG, Chertson, Rex Section, Township, Range: T 2 S, R 14 W Sausal Redondo land Grant
 Landform (hillslope, terrace, etc.): U-Brotes Ditch in lowland Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 369863.330 Long: 3757826.370 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx - riverine

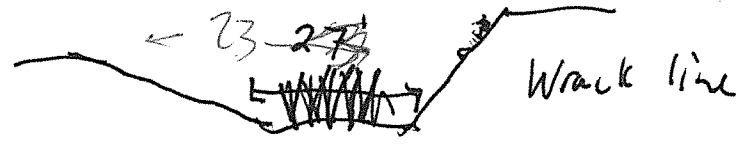
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? NO (If needed, explain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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	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 = _____
= Total Cover				
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
= Total Cover				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
= Total Cover				
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
= Total Cover				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
= Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

Remarks:  ← 23-275
Wreck 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.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/4/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 682500
 Investigator(s): Campbell / Birkelt Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): broader ditch in leveled land Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 369832.945 Long: 3757924.005 Datum: GCS NAD 83
 Soil Map Unit Name: No Data NWI classification: R4SBAx - 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
 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? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: <u>23.5 ft transect</u>)				Hydrophytic Vegetation Indicators:
1. <u>Schoenoplectus californicus</u>	<u>46%</u>	<u>Dom</u>	<u>Obl</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Pericaria leptophylla</u>	<u>34%</u>	<u>Dom</u>	<u>FACW</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>S = 40% 2 = 10% 80 = Total Cover</u>				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present?
1. _____				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

Remarks: 5 - mch/dect 100% 20%
80% fndla 14u litter
D: junca 100% 19
5th junca 20%
90 junca
1/4th 90% 10 in may
23.5
12ft
14' suh
23.5 ft cher
9 ft tall vegetation

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
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 2600
 Investigator(s): MCC, EEC, Biedfeldt, Guzman, Kraett Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): man-made ditch in leveled land Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 369802.637 Long: 3757820.877 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAX - riverine

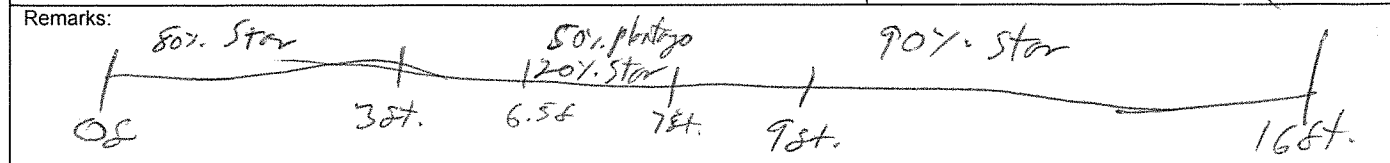
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? No (If needed, explain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

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species <u>55</u> x 5 = <u>275</u>
				Column Totals: <u>55</u> (A) <u>275</u> (B)
				Prevalence Index = B/A = <u>5</u>
Herb Stratum (Plot size: <u>16 ft transect</u>)				Hydrophytic Vegetation Indicators:
1. <u>Centaurea solstitialis</u>	<u>55%</u>	<u>Dom</u>	<u>LPI</u>	<input type="checkbox"/> Dominance Test is >50%
2. _____	_____	_____	_____	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>55</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>



WETLAND DETERMINATION DATA FORM – Arid West Region

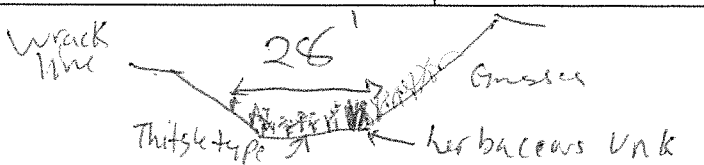
Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 2700
 Investigator(s): MEC, ECC Charlton/Rex Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): Ditch on leveled land Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 369772.371 Long: 3757817.327 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx - drier
 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 Yes significantly disturbed? Are "Normal Circumstances" present? Yes No
 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? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Thistle type</u>	<u>30</u>	_____	_____	Total % Cover of: _____ Multiply by: _____
2. <u>Herbaceous unk.</u>	<u>70%</u>	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species <u>10</u> x 2 = <u>20</u>
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species <u>30</u> x 5 = <u>150</u>
				Column Totals: <u>40</u> (A) <u>170</u> (B)
				Prevalence Index = B/A = <u>4.2</u>
Herb Stratum (Plot size: <u>Wind estimate of 28ft transect</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Centauria solstitialis</u>	<u>30%</u>	<u>Dom</u>	<u>UPL</u>	<input type="checkbox"/> Dominance Test is >50%
2. <u>Peribaccharis lanatifolia</u>	<u>10%</u>	<u>Dom</u>	<u>FACW</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>15=20</u> <u>2=8</u> <u>40%</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____	_____	_____	_____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

Remarks: 

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 2800
 Investigator(s): MCC, EEE Charlton/Rex Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): Man-made Ditch in leveled land Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 369742.105 Long: 3757813.776 Datum: GCSNAD 83
 Soil Map Unit Name: No Data NWI classification: R4SBAx-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 Yes significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? No (If needed, explain any answers in Remarks.) Man-made ditch

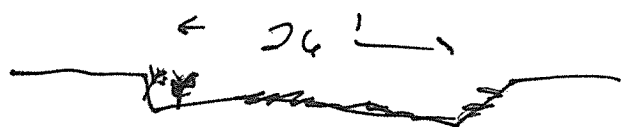
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks:
The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				OBL species _____ x 1 = _____
1. <u>80% grass</u>	<u>80%</u>	_____	_____	FACW species _____ x 2 = _____
2. <u>10% shrubs</u>	<u>5%</u>	_____	_____	FAC species _____ x 3 = _____
3. <u>unk. herb</u>	<u>5%</u>	_____	_____	FACU species _____ x 4 = _____
4. _____	_____	_____	_____	UPL species _____ x 5 = _____
5. _____	_____	_____	_____	Column Totals: _____ (A) _____ (B)
_____ = Total Cover				Prevalence Index = B/A = _____
Herb Stratum (Plot size: <u>Visual estimate of 20' transect</u>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0' <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Festuca perennis</u>	<u>80%</u>	<u>Don</u>	<u>Fac</u>	
2. <u>Pentaurea solstitialis</u>	<u>5%</u>	<u>N</u>	_____	
3. <u>Pennisetum laetifolium</u>	<u>5%</u>	<u>N</u>	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>.5040 .2=10</u> _____ <u>90</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		

Remarks:


WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 2900
 Investigator(s): Campbell / Breifelt Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): man made ditch Local relief (concave, convex, none): Flat bottom Slope (%): 0.1%
 Subregion (LRR): G Lat: 33.9711.839 Long: 118.226 Datum: GLSNA83
 Soil Map Unit Name: No Data NWI classification: R4SBAx - 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
 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? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: <u>1/4' transect</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Pergularia lepathifolia</u>	<u>100%</u>	<u>Dum</u>	<u>ECW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. _____	_____	_____	_____	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>11</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

Remarks: 5ft 7ft 9ft 14 15 100% 1/4' 18ft
100% ltr
90% ltr 10% bare
50% mag/sec 20% ltr

Photo
41

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 08/29/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 00300
 Investigator(s): Campbell/Bretfelt Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): brooks ditch in bed of land Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 369681.573 Long: 3757806.675 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx-riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology Yes 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?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Remarks: The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: <u>17' transect</u>)				Hydrophytic Vegetation Indicators:
1. <u>Persicaria lapathifolia</u>	<u>5%</u>	<u>Obl</u>	<u>FACW</u>	<u>X</u> Dominance Test is >50%
2. _____	_____	_____	_____	____ Prevalence Index is ≤3.0 ¹
3. _____	_____	_____	_____	____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	____ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____	% Cover of Biotic Crust _____			Hydrophytic Vegetation Present? Yes <u>X</u> No _____

Remarks: 2
1- 54. storks
5% herb
90% litter
85% litter
12 75% mag 25% litter
11 ft
90% 17 litter
54ft
73ft

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: 8/6/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 3100
 Investigator(s): MCC, ECE Carleton / Alex Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): broader ditch in level flat Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 369651.307 Long: 3757803-125 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx - 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 Yes significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? No (If needed, explain any answers in Remarks.) man made ditch

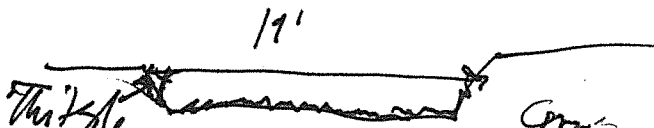
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		

Remarks: The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				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 = _____
Sapling/Shrub Stratum (Plot size: _____)	1. <u>Thistle</u>	<u>10%</u>	_____	
2. <u>Grass</u>	<u>90%</u>	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: <u>1m² - 1.5m²</u> <u>19' transect</u>)	1. <u>Festuca perennis</u>	<u>80%</u>	<u>Dom Pac</u>	
2. <u>Centaurea subterminalis</u>	<u>10%</u>	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>5 = 45 12 = 12 90 = Total Cover</u>				
Woody Vine Stratum (Plot size: _____)	1. _____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____	% Cover of Biotic Crust _____			

Remarks: 19'


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: 8/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 3200
 Investigator(s): MCC, ECC Charlton / Rex Section, Township, Range: T 2 S, R 14 W Jansal Redondo Land Gmt
 Landform (hillslope, terrace, etc.): V-shaped Ditch in leveled land Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 369621.041 Long: 3757799.575 Datum: GCSNAD83
 Soil Map Unit Name: No Data 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
 Are Vegetation , Soil , or Hydrology naturally problematic? No (If needed, explain any answers in Remarks.) man-made ditch

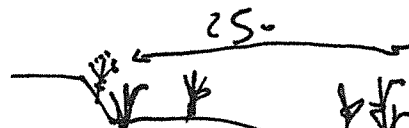
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>15% Thistle</u>	<u>15</u>			Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
2. <u>25% Dark hickory</u>	<u>25</u>			
3. _____				
4. _____				
= Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species <u>25</u> x 2 = <u>50</u> FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species <u>15</u> x 5 = <u>75</u> Column Totals: <u>40</u> (A) <u>125</u> (B) Prevalence Index = B/A = <u>3.1</u>
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
= Total Cover				
Herb Stratum (Plot size: <u>W. est. of 35' transect</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: ___ Dominance Test is >50% <u>50%</u> ___ Prevalence Index is ≤3.0' <u>3.1</u> ___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain)
1. <u>Pennisetum lappaceum</u>	<u>25</u>	<u>Dom fac</u>		
2. <u>Centaurea solstitialis</u>	<u>15%</u>	<u>Dom upl</u>		
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
<u>.5 = 20.2 = 8</u> = Total Cover <u>40</u>				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
= Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		

Remarks:  wrack line The Vegetation indicators are borderline. Because of the disturbance history, the surroundings of wetlands, and

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: 13 Aug 2013
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 3300
 Investigator(s): MCC, ECC Birkelt/Guzman/Smith Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): V-Banks Ditch in level flat Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 36.9590.766 Long: 375.7796.096 Datum: GCS NAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx

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.) man-made ditch

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)
4. _____	_____	_____	_____	= Total Cover	
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:	
1. _____	_____	_____	_____	Total % Cover of:	Multiply by:
2. _____	_____	_____	_____	OBL species _____	x 1 = _____
3. _____	_____	_____	_____	FACW species _____	x 2 = _____
4. _____	_____	_____	_____	FAC species _____	x 3 = _____
5. _____	_____	_____	_____	FACU species _____	x 4 = _____
= Total Cover				UPL species _____	x 5 = _____
Herb Stratum (Plot size: <u>16.5' transect</u>)				Column Totals:	_____ (A) _____ (B)
1. <u>Panicum laetifolium</u>	<u>24</u>	<u>Dom</u>	<u>Pach</u>	Prevalence Index = B/A = _____	
2. <u>Festuca perennis</u>	<u>8</u>	<u>Dom</u>	<u>Eac</u>	Hydrophytic Vegetation Indicators:	
3. _____	_____	_____	_____	<input checked="" type="checkbox"/> Dominance Test is >50%	
4. _____	_____	_____	_____	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹	
5. _____	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
6. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
7. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
8. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
= Total Cover					
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____			
Remarks: <u>Festuca perennis</u> <u>55persi</u> <u>60. persi</u> <u>57. unkn</u> <u>20% star</u> <u>57. plantago</u> <u>13st.</u> <u>16.5st.</u> <u>205</u> <u>58</u> <u>9st.</u> <u>13st.</u> <u>16.5st.</u>					

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: 13 Aug 2013
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 3400
 Investigator(s): MCC, EGG, Bilselt, Guzman, Kmetz Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): Argo Ditch in leveled land Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 36.9560-976 Long: 118.1772-760 Datum: GCS NAD 83
 Soil Map Unit Name: No Data NWI classification: R4SRAx - 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
 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? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>700</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	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 = _____
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: _____)				
1. <u>Festuca perennis</u>	<u>20</u>	<u>Dom</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Panicum capathifolium</u>	<u>18</u>	<u>Dom</u>	<u>FACW</u>	
3. <u>Cyperus eragrostis</u>	<u>14</u>	<u>Dom</u>	<u>FACW</u>	
4. <u>Setaria pumila</u>	<u>5</u>	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>5 = 28.5</u> <u>2 = 11.4</u> <u>57</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		

Remarks: Festuca 60% persi 10% persi 30% sedge 5% plantago 70% sedge 20% persi 40% seta 30% unk grass veg. is dying

3ft 5ft 7.5ft 9ft 10.5ft 13ft

WETLAND DETERMINATION DATA FORM – Arid West Region

8/8/13

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, EEC, Cheriton, Rex Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): V-Brooks Ditch in level field Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 36°53'0.18" Long: 118°17'42.5" Datum: GCS NAD 83
 Soil Map Unit Name: No Data NWI classification: R4SBAv - 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 Yes significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 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? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
--	--

Remarks: The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	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 = _____
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. <u>40% Unk. herbs</u>	<u>40</u>	_____	_____	
2. <u>5% Thistle</u>	<u>5</u>	_____	_____	
3. <u>10% Grass</u>	<u>10</u>	_____	_____	
= Total Cover				
Herb Stratum (Plot size: <u>vis est. of 32' transect</u>)				
1. <u>Panicum capitatum</u>	<u>40</u>	<u>Don</u>	<u>FACW</u>	
2. <u>Festuca perennis</u>	<u>10</u>	_____	<u>FACW</u>	
3. <u>Centaurium solstitialis</u>	<u>5</u>	_____	<u>UPL</u>	
= Total Cover				
<u>501 .5 = 27.5 .2 = 11% .55 = Total Cover</u>				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____		Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____		

Remarks:  4' high Unk. herbs

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 8600
 Investigator(s): MCC, EEC, Charlton/Rex Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): V-shaped Ditch in level (flat) Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 369499.894 Long: 3757786.089 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAX - riverine

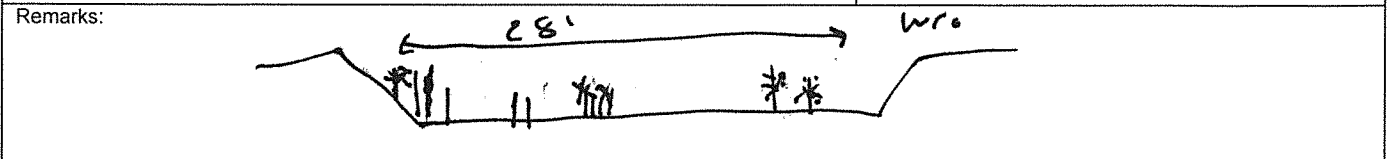
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? no (If needed, explain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

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface oil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>7 1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>20% Yucca</u>	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. <u>15% Unk. herb</u>	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species <u>15</u> x 2 = <u>30</u>
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species <u>20</u> x 5 = <u>100</u>
				Column Totals: <u>35</u> (A) <u>130</u> (B)
				Prevalence Index = B/A = <u>3.7</u>
Herb Stratum (Plot size: <u>Wind est of 28' transect</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Centaurea solstitialis</u>	<u>20</u>	<u>Dom</u>	<u>Upl</u>	<input type="checkbox"/> Dominance Test is >50%
2. <u>Persicaria lapathifolia</u>	<u>15</u>	<u>Dom</u>	<u>FACW</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>.5 = 17.5 .2 = 7%</u> <u>35</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>



WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 003700
 Investigator(s): Lampbell / Brelbirt Section, Township, Range: T 2 S, R 14 W Success Re-Landmark Grant
 Landform (hillslope, terrace, etc.): Woods ditch on leveled land Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 36.469504 Long: -118.2753 Datum: GCS NAD 83
 Soil Map Unit Name: No Data NWI classification: R45BA x -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 yes significantly disturbed? Are "Normal Circumstances" present? Yes No
 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? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (gravel) that is periodically cleared of vegetation & surface soil bifurcated channel</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)	
4. _____	_____	_____	_____		
= Total Cover					
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:	
1. _____				Total % Cover of: _____ Multiply by: _____	
2. _____				OBL species _____ x 1 = _____	
3. _____				FACW species <u>6</u> x 2 = <u>12</u>	
4. _____				FAC species _____ x 3 = _____	
5. _____				FACU species _____ x 4 = _____	
= Total Cover				UPL species <u>42</u> x 5 = <u>210</u>	
				Column Totals: <u>48</u> (A) <u>222</u> (B)	
				Prevalence Index = B/A = <u>4.6</u>	
Herb Stratum (Plot size: <u>22 ft transect</u>)				Hydrophytic Vegetation Indicators:	
1. <u>Centaurea solstitialis</u>	<u>42%</u>	<u>Dom</u>	<u>UPL</u>	<input type="checkbox"/> Dominance Test is >50%	
2. <u>Perideris infanthidica</u>	<u>6</u>		<u>FACW</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹	
3. _____				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
4. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
5. _____					
6. _____					
7. _____					
8. _____					
<u>Σ = 48</u>	<u>Σ = 9.6%</u>		<u>48</u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
= Total Cover					
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
1. _____					
2. _____					
= Total Cover					
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____			

Remarks: 5 65% ster 2ft 100% litter 5ft 65% ster 40% litter 60% litter 45 100% ster 13 10 100% litter 22 100% ster

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 10380D
 Investigator(s): Campbell/Brylfelt Section, Township, Range: T 2 S, R 14 W San Jacinto Land Grant
 Landform (hillslope, terrace, etc.): at Brooks Ditch on levelled Local relief (concave, convex, none): flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 36°45'37.3" Long: 118°17'29.418" Datum: ECSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAX - 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
 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? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____				
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. _____				Prevalence Index worksheet:
2. _____				
3. _____				
4. _____				
5. _____				
= Total Cover				
Herb Stratum (Plot size: <u>30ft transect</u>)				
1. <u>Setaria pumila</u>	<u>40</u>	<u>Dom</u>	<u>Fac</u>	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 = _____
2. <u>Paspalum dilatatum</u>	<u>26</u>	<u>Dom</u>	<u>Fac</u>	
3. <u>Elyochloa sp. cf. macrostachya</u>	<u>20</u>	<u>Dom</u>	<u>Obl</u>	
4. <u>Cynodon dactylon</u>	<u>7</u>		<u>Facu</u>	
5. <u>Schoenoplectus californicus</u>	<u>5</u>		<u>Obl</u>	
6. _____				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0' <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
7. _____				
8. _____				
<u>5 = 49% 2 = 19.6% 98 = Total Cover</u>				<input checked="" type="checkbox"/> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)				
1. _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____				
= Total Cover				
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		

Remarks: 100% grasses 7ft 8.5 100% Puffball 10% Paspalum 100% 50% Setaria 30% Elyochloa 10% Cynodon 30ft 23.5 100% 100% 70% Puffball 30% Setaria 30ft

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: 8/8/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 2700 4000
 Investigator(s): MSC, ECC Cheriton/Rex Section, Township, Range: T 2 S, R 14 W Sausal Redondo Lind 4000
 Landform (hillslope, terrace, etc.): V-Becks Ditch in leveled land Local relief (concave, convex, none): Flat bottom Slope (%): 0-10%
 Subregion (LRR): C Lat: 369378.732 Long: 3757772.746 Datum: GCSNAD 83
 Soil Map Unit Name: No Data NWI classification: R45B Ax -riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology Yes 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? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Remarks: <u>The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>3</u> (A)
2. _____				Total Number of Dominant Species Across All Strata:	<u>3</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)
4. _____				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:	
				<input checked="" type="checkbox"/> Dominance Test is >50%	
				<input type="checkbox"/> Prevalence Index is ≤3.0 ¹	
				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
				Hydrophytic Vegetation Present? Yes <u>X</u> No _____	
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____					
Remarks: <u>Sedges, willows, Catails</u> <u>3" of water on top of muck</u> <u>12' high willow</u> <u>Wack line</u>					

WETLAND DETERMINATION DATA FORM – Arid West Region



Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8-13-13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 9250600 ECC THK
 Investigator(s): MCC, ESC, Charlton/Korff Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): Grates Ditch on Leuked bank Local relief (concave, convex, none): Flat bottom Slope (%): 0-10%
 Subregion (LRR): C Lat: 369482.533 Long: 3757783.280 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx -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
 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? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Hydic Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				Prevalence Index worksheet:
1. _____				Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species <u>50</u> x 3 = <u>150</u>
5. _____				FACU species _____ x 4 = _____
_____ = Total Cover				UPL species <u>40</u> x 5 = <u>200</u>
				Column Totals: <u>96</u> (A) <u>350</u> (B)
				Prevalence Index = B/A = <u>3.8</u>
Herb Stratum (Plot size: <u>22ft transect</u>)				Hydrophytic Vegetation Indicators:
1. <u>Yellow Star Thistle</u>	<u>40</u>	<u>Dom</u>	<u>Upl</u>	<input type="checkbox"/> Dominance Test is >50%
2. <u>Bromes</u>	<u>50</u>	<u>Dom</u>	<u>Upl</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Festuca perennis</u>	<u>50</u>	<u>Dom</u>	<u>FAC</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Carthamus solstitialis</u>	<u>46</u>	<u>Dom</u>	<u>Upl</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>.5 = 45 .2 = 18%</u>				
<u>90 = Total Cover</u>				
Woody Vine Stratum (Plot size: _____)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____	% Cover of Biotic Crust _____			

Remarks: 20' west of edge, dry dead bromes
22' width, 40% star thistle, 19% smartweed,

WETLAND DETERMINATION DATA FORM – Arid West Region

44500
44500

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 13 Aug, 2013
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 200A 44500
 Investigator(s): MCC, ECC, Bel/Selt, Curman Section, Township, Range: T 2 S, R 14 W
 Landform (hillslope, terrace, etc.): Flat V-bottom ditch Local relief (concave, convex, none): Flat bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 36 9250.245 Long: 375 77.58.214 Datum: GCS NAD 83
 Soil Map Unit Name: No Data NWI classification: R4SBAx - riverine

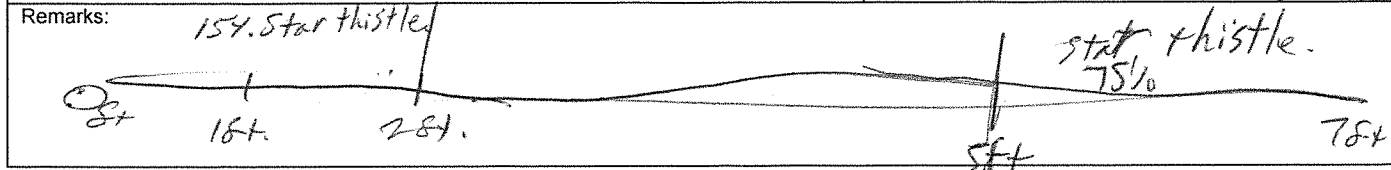
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? No (If needed, explain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

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>The area is a man-made ditch (1949) that is periodically cleared of vegetation and surface soil.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
2. _____				
3. _____				
4. _____				
= Total Cover				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 <u>24</u> x 5 = <u>120</u> Column Totals: <u>24</u> (A) <u>120</u> (B) Prevalence Index = B/A = <u>5</u>
Sapling/Shrub Stratum (Plot size: _____) 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ _____ = Total Cover				
Herb Stratum (Plot size: <u>7ft transect</u>) 1. <u>Centaurea solstitialis</u> <u>24%</u> <u>Dom</u> <u>vpl</u> 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ <u>24</u> = Total Cover				
Woody Vine Stratum (Plot size: _____) 1. _____ 2. _____ _____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				



WETLAND DETERMINATION DATA FORM – Arid West Region

4500
45005

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 13 Aug. 2013
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 4500
 Investigator(s): MCC, EEC Bielfelt/Guzman Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): 1/2 broken ditch in leveled low Local relief (concave, convex, none): Flat Slope (%): 0-1%
 Subregion (LRR): C Lat: 369229.130 Long: 3257755.648 Datum: GCS NAD83
 Soil Map Unit Name: No Data NWI classification: R4SBA x riparian
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation X, Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No X
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) concrete culvert

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: <u>Water dripping in from culvert above the plants</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>2/2 = 100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:	
_____ = Total Cover				Total % Cover of:	Multiply by:
Sapling/Shrub Stratum (Plot size: _____)				OBL species _____	x 1 = _____
1. _____	_____	_____	_____	FACW species _____	x 2 = _____
2. _____	_____	_____	_____	FAC species _____	x 3 = _____
3. _____	_____	_____	_____	FACU species _____	x 4 = _____
4. _____	_____	_____	_____	UPL species _____	x 5 = _____
5. _____	_____	_____	_____	Column Totals:	_____ (A) _____ (B)
_____ = Total Cover				Prevalence Index = B/A = _____	
Herb Stratum (Plot size: <u>19 ft transect</u>)				Hydrophytic Vegetation Indicators:	
1. <u>Pennisetum setaceum</u>	<u>30%</u>	<u>DOM</u>	<u>FACW</u>	<u>X</u> Dominance Test is >50%	
2. <u>Echinochloa crus-galli</u>	<u>22%</u>	<u>DOM</u>	<u>FACW</u>	___ Prevalence Index is ≤3.0 ¹	
3. <u>Setaria pumila</u>	<u>6%</u>		<u>FAC</u>	___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
4. _____	_____	_____	_____	___ Problematic Hydrophytic Vegetation ¹ (Explain)	
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
<u>19 = 29 2 = 11.6 58 = Total Cover</u>				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
_____ = Total Cover					
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____			
Remarks: <u>57% pens</u> <u>10% seta</u> <u>Dead Aster</u> <u>10% seta</u> <u>20% pens</u> <u>118ft</u> <u>85% Echa</u> <u>176ft</u> <u>08% 2m</u> <u>5ft</u> <u>195ft</u> <u>apple</u> <u>collected</u>					

WETLAND DETERMINATION DATA FORM – Arid West Region

4500
4580

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 13 Aug 2013
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 0006 4550
 Investigator(s): MCC, EEC Diekelt/Guzman Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): ~~to~~ Ditch in keuleb Local relief (concave, convex, none): Flat, bottom Slope (%): 0-1%
 Subregion (LRR): C Lat: 369210.444 Long: 3757753.662 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBA x -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
 Are Vegetation , Soil , or Hydrology naturally problematic? (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?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Remarks:			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	1 (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	0 (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:	
_____ = Total Cover				Total % Cover of:	Multiply by:
Sapling/Shrub Stratum (Plot size: _____)				OBL species _____	x 1 = _____
1. _____	_____	_____	_____	FACW species _____	x 2 = _____
2. _____	_____	_____	_____	FAC species _____	x 3 = _____
3. _____	_____	_____	_____	FACU species _____	x 4 = _____
4. _____	_____	_____	_____	UPL species <u>27</u>	x 5 = <u>135</u>
5. _____	_____	_____	_____	Column Totals: <u>27</u> (A)	<u>135</u> (B)
_____ = Total Cover				Prevalence Index = B/A = <u>5</u>	
Herb Stratum (Plot size: <u>61 transect</u>)				Hydrophytic Vegetation Indicators:	
1. <u>Centaurea solstitialis</u>	<u>27%</u>	<u>Dom</u>	<u>U/I</u>	<input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
2. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
3. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
_____ = Total Cover					
Woody Vine Stratum (Plot size: _____)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
_____ = Total Cover					
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____					

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

54/50
V-5100

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8-13-13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: Sag 60' Arg center
 Investigator(s): MCC, ECC Charlton/Kmetz Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): V-5100 Ditch in level low Local relief (concave, convex, none): Flat Slope (%): 0-1%
 Subregion (LRR): C Lat: 368948.779 Long: 3757724.330 Datum: GCS NAD83
 Soil Map Unit Name: No Data NWI classification: R4S BA x 1 income

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? (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?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Remarks:			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:	
_____ = Total Cover				Total % Cover of:	Multiply by:
Sapling/Shrub Stratum (Plot size: _____)				OBL species	x 1 = _____
1. <u>Calif. Bulbush?</u>	<u>95% mixed</u>	_____	_____	FACW species	x 2 = _____
2. <u>Bushes</u>	<u>50%</u>	_____	_____	FAC species	x 3 = _____
3. <u>Plants</u>	<u>1%</u>	_____	_____	FACU species	x 4 = _____
4. <u>House weed</u>	<u>5%</u>	_____	_____	UPL species	x 5 = _____
5. _____	_____	_____	_____	Column Totals:	(A) _____ (B) _____
_____ = Total Cover				Prevalence Index = B/A = _____	
Herb Stratum (Plot size: <u>15 x 7.5 ft</u>)				Hydrophytic Vegetation Indicators:	
1. <u>Schoenoplectus californicus</u>	<u>95</u>	<u>Dom</u>	<u>Obl</u>	<input checked="" type="checkbox"/> Dominance Test is >50%	
2. <u>Festuca perennis</u>	<u>50</u>	<u>Dom</u>	<u>Fac</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹	
3. <u>Eriogonum condensis</u>	<u>5</u>	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
5. _____	_____	_____	_____	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
6. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
_____ = Total Cover					
Woody Vine Stratum (Plot size: _____)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
_____ = Total Cover					
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____					

Remarks: center of wetland

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
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 5800
 Investigator(s): MCC, ECG, Bielholz, Guzman Section, Township, Range: T 2 S, R 14 W
 Landform (hillslope, terrace, etc.): Washed ditch in level land Local relief (concave, convex, none): Flat Slope (%): _____
 Subregion (LRR): C Lat: 36 88 33.549 Long: 375 77 12.427 Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (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? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
4. _____	_____	_____	_____	
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species <u>13</u> x 3 = <u>39</u>
5. _____	_____	_____	_____	FACU species <u>5</u> x 4 = <u>20</u>
= Total Cover				UPL species <u>7</u> x 5 = <u>35</u>
				Column Totals: <u>25</u> (A) <u>94</u> (B)
				Prevalence Index = B/A = <u>4.2</u>
Herb Stratum (Plot size: <u>11A transect</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Centauria solstitialis</u>	<u>7%</u>	<u>DOM</u>	<u>UPL</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Setaria pumila</u>	<u>7%</u>	<u>DOM</u>	<u>FAC</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. <u>Festuca perennis</u>	<u>6%</u>	<u>DOM</u>	<u>FAC</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Eriogonum canadensis</u>	<u>5%</u>	<u>DOM</u>	<u>FACU</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>.5 = 12.5</u> <u>.2 = 5</u> <u>25</u> = Total Cover				
Woody/Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		

Remarks: 40% Star
Open 2.5 ft. 50% Horse. 40% Horse 100% Plantago 100% 90% Baccharis
6.5 ft. 7 ft. 9 9.5 ft. 16 ft. 13 ft. 16 ft.

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
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 605400105901
 Investigator(s): MCC, ECG, Bielseth/Guzman Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): Unbroken ditch in level land Local relief (concave, convex, none): Flat Slope (%): 0-1%
 Subregion (LRR): C Lat: 368803.256 Long: 3757709.110 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R45BA 1A Interim
 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? (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? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: <u>161 transect</u>)				
1. <u>Plantago lanceolata</u>	<u>9</u>	<u>Dom</u>	<u>Fac</u>	
2. <u>Chenopodium solstitialis</u>	<u>8</u>	<u>Dom</u>	<u>Upl</u>	
3. <u>Festuca perennis</u>	<u>6</u>	<u>Dom</u>	<u>Fac</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>52 UBL + 22 9.6% 23</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

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)

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

Hydrophytic Vegetation Present? Yes No

Remarks: 50% SW 30% Barnyard 100% plantago
2.5/8% 7 7.5 10% grass collected 100% plantago
16% 11.5 15 16%

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
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 6002
 Investigator(s): MCC, EGG, Biel Selt, Gorman Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): 1/2 brkly ditch on leveled land Local relief (concave, convex, none): flat Slope (%): 0-1
 Subregion (LRR): C Lat: 36.8772.963 Long: 3757705.792 Datum: GCS NAD83
 Soil Map Unit Name: No Data NWI classification: R4SBA x river
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.) man made ditch

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

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

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)	
4. _____	_____	_____	_____		
= Total Cover				Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: _____)				Total % Cover of: _____ Multiply by: _____	
1. _____	_____	_____	_____	OBL species _____ x 1 = _____	
2. _____	_____	_____	_____	FACW species _____ x 2 = _____	
3. _____	_____	_____	_____	FAC species _____ x 3 = _____	
4. _____	_____	_____	_____	FACU species _____ x 4 = _____	
5. _____	_____	_____	_____	UPL species _____ x 5 = _____	
= Total Cover				Column Totals: _____ (A) _____ (B)	
Herb Stratum (Plot size: <u>13' transect</u>)				Prevalence Index = B/A = _____	
1. <u>Centaurea subterminalis</u>	<u>25%</u>	<u>Dom</u>	<u>Upl</u>	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
2. <u>Festuca perennis</u>	<u>7%</u>	<u>Dom</u>	<u>Fac</u>		
3. <u>Setaria pinnata</u>	<u>6 1/2%</u>	<u>Dom</u>	<u>Fac</u>		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
<u>2 = 57.6</u>					
<u>38</u> = Total Cover					
Woody Vine Stratum (Plot size: _____)				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
1. _____	_____	_____	_____		
2. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u>X</u> No _____	
= Total Cover					
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____					
Remarks: <u>60% star 50% horse</u> 					

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: 13 Aug 2013
 Applicant/Owner: City of Los Angeles Belfelt/Guzman State: CA Sampling Point: 6400
 Investigator(s): MCC, ECC Chapman/Kenneth Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Landform (hillslope, terrace, etc.): V-brake Ditch Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR): C Lat: 368657.787 Long: 3757692.573 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBA x vbrn

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? (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?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Remarks:			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)
2. _____				Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)
4. _____					
				Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: _____)				Total % Cover of:	Multiply by:
1. <u>Salix exigua</u>	<u>20</u>	<u>Dom</u>	<u>Obl</u>	OBL species _____	x 1 = _____
2. _____				FACW species _____	x 2 = _____
3. _____				FAC species _____	x 3 = _____
4. _____				FACU species _____	x 4 = _____
5. _____				UPL species _____	x 5 = _____
				Column Totals:	(A) _____ (B) _____
Herb Stratum (Plot size: <u>33ft x 10ft</u>)				Prevalence Index = B/A = _____	
1. <u>Typha domingensis</u>	<u>35%</u>	<u>Dom</u>	<u>Obl</u>	Hydrophytic Vegetation Indicators:	
2. <u>Salix exigua</u>	<u>20%</u>	<u>Dom</u>	<u>Obl</u>	<input checked="" type="checkbox"/> Dominance Test is >50%	
3. <u>Carpobrotus edulis</u>	<u>6%</u>		<u>FACU</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹	
4. <u>Cyperus vactylon</u>	<u>5%</u>		<u>FACU</u>	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5. _____				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
6. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
7. _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
8. _____					
Woody Vine Stratum (Plot size: _____)					
1. _____					
2. _____					
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____			
Remarks: <u>100% Ice</u> <u>100% Salix</u> <u>95% Socal</u> <u>57% Bull</u> <u>90% Demuda</u> <u>75% Salix exigua</u> <u>5% Socal</u> <u>57% Poa sp</u> <u>28% 15% Bromus sp</u> <u>268t</u> <u>56t</u> <u>26t</u> <u>30t</u>					

WETLAND DETERMINATION DATA FORM – Arid West Region

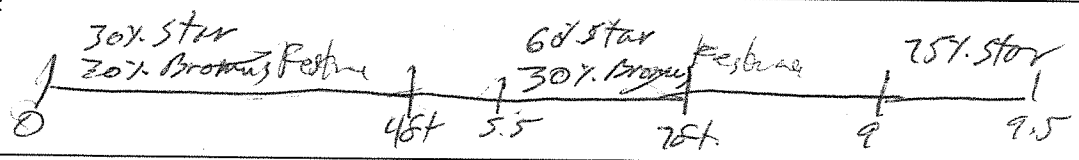
LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 13 Aug 2017
 Owner: City of Los Angeles State: CA Sampling Point: 6500
 Operator(s): MCC, ECC, B, J, Galt / Garman Section, Township, Range: T 2 S, R 14 W Sausal Redondo Land Grant
 Form (hillslope, terrace, etc.): Utrata ditch adjacent to road Local relief (concave, convex, none): Flat Slope (%): 0-1
 Region (LRR): C Lat: 368621.491 Long: 3757689.288 Datum: GCS NAD83
 Soil Map Unit Name: No Data NWI classification: R4SBAx1mry
 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? (If needed, explain any answers in Remarks.) no more detail

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				OBL species _____ x 1 = _____
1. _____	_____	_____	_____	FACW species _____ x 2 = _____
2. _____	_____	_____	_____	FAC species <u>17</u> x 3 = <u>51</u>
3. _____	_____	_____	_____	FACU species _____ x 4 = _____
4. _____	_____	_____	_____	UPL species <u>26</u> x 5 = <u>130</u>
5. _____	_____	_____	_____	Column Totals: <u>43</u> (A) <u>181</u> (B)
Herb Stratum (Plot size: <u>9.5m transect</u>)				Prevalence Index = B/A = <u>4.2</u>
1. <u>Cortaderia setostriata</u>	<u>26</u>	<u>Dom</u>	<u>UPL</u>	Hydrophytic Vegetation Indicators: <input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Festuca perennis</u>	<u>17</u>	<u>Dom</u>	<u>FAC</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>43</u> = Total Cover				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____
2. _____	_____	_____	_____	
_____ = Total Cover				Remarks:



WETLAND DETERMINATION DATA FORM – Arid West Region

2800

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8/17/13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 9150 ECC
 Investigator(s): MCG, EGC, Char/ton/kenneth Section, Township, Range: T 2 S, R 14 W Sausal Redondo bend THK
 Landform (hillslope, terrace, etc.): W-Banks Ditch levelled by Local relief (concave, convex, none): flat Slope (%): 0-1%
 Subregion (LRR): C Lat: 367815.935 Long: 3757602.168 Datum: GCSNAD83
 Soil Map Unit Name: No Data NWI classification: R4SBA2 Alameda

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? (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? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: _____)				
1. <u>Bermuda Cynodon dactylon</u>	_____	_____	<u>FACU</u>	UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)
2. <u>Plantain Plantago lanceolata</u>	_____	_____	<u>FAC</u>	
3. _____	_____	_____	_____	Prevalence Index = B/A = _____
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: <input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____		% Cover of Biotic Crust _____		

Remarks: willows 10 ft up Southern bank from base around runway drain
—bare ground—

WETLAND DETERMINATION DATA FORM – Arid West Region

2-7300

ECC
ATHK

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 8-13-13
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 9250
 Investigator(s): MCC, ECC, ECC, THK, Charita/Krutt Section, Township, Range: T 2 S, R 14 W, S 34 N
 Landform (hillslope, terrace, etc.): Argo Ditch, a levelled bed Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR): C Lat: 367786.699 Long: 3757603.093 Datum: CCS NAD83
 Soil Map Unit Name: no Data NWI classification: R45BAX RIVN

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? (If needed, explain any answers in Remarks.) minimal ditch

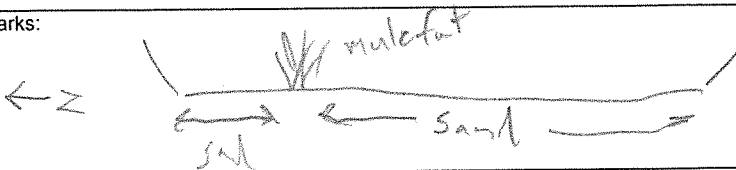
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: _____ (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>mulefat</u>	<u>29%</u>	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
_____ = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: <u>usual ob/make</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>All plants < 2%</u>	_____	_____	_____	<input type="checkbox"/> Dominance Test is >50%
2. _____	_____	_____	_____	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
3. _____	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____	_____	_____	_____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____	_____	_____	_____	
<u>Sand bare</u> _____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				

Remarks: 

WETLAND DETERMINATION DATA FORM – Arid West Region

9800

Project/Site: LAX Runway Safety Area/Argo Ditch City/County: City of Los Angeles Sampling Date: 13 AUG. 2013
 Applicant/Owner: City of Los Angeles State: CA Sampling Point: 2nd to last pit from 9800 west end
 Investigator(s): AAL + JRM Section, Township, Range: T 2 S, R 14 W
 Landform (hillslope, terrace, etc.): Ditch unbordered/low Local relief (concave, convex, none): Flat Slope (%): 0-1%
 Subregion (LRR): C Lat: 36.7620.757 Long: 3757580.944 Datum: GCSNAD 43
 Soil Map Unit Name: No Data NWI classification: R4 SB/A x Mh/mu

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? NO Are "Normal Circumstances" present? Yes No
 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?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>0/3 = 0%</u> (A/B)
4. _____	_____	_____	_____	= Total Cover	
Sapling/Shrub Stratum (Plot size: _____)	Prevalence Index worksheet:				
1. _____	_____	_____	_____	Total % Cover of:	Multiply by:
2. _____	_____	_____	_____	OBL species _____	x 1 = _____
3. _____	_____	_____	_____	FACW species _____	x 2 = _____
4. _____	_____	_____	_____	FAC species _____	x 3 = _____
5. _____	_____	_____	_____	FACU species _____	x 4 = _____
= Total Cover				UPL species _____	x 5 = _____
= Total Cover				Column Totals:	(A) _____ (B) _____
Prevalence Index = B/A = _____				Hydrophytic Vegetation Indicators:	
<u>Herb Stratum (Plot size: 10m transect)</u> 1. <u>Avena barbata</u> <u>17</u> <u>DOM</u> <u>UPL</u> 2. <u>Erodium cicutarium</u> <u>17</u> <u>DOM</u> <u>UPL</u> 3. <u>Centaurea solstitialis</u> <u>12</u> <u>DOM</u> <u>UPL</u> 4. <u>Festuca myuros</u> <u>8</u> _____ 5. <u>Salicola tragus</u> <u>2</u> _____ 6. <u>Bromus madritensis</u> <u>2</u> _____ 7. <u>Bromus diandrus</u> <u>1</u> _____ 8. <u>Heterotheca grandiflora</u> <u>1</u> _____ <u>.5 = 30</u> <u>.2 = 12</u> <u>60</u> = Total Cover				___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 ¹ ___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain)	
<u>Woody Vine Stratum (Plot size: _____)</u> 1. _____ 2. _____ _____ = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks:

