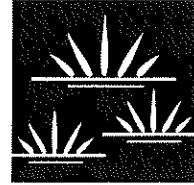


# GLENN LUKOS ASSOCIATES

Regulatory Services



June 23, 2015

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

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

Dear Mr. Zak:

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

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

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

29 Orchard  
Telephone: (949) 837-0404

▪ Lake Forest

▪ California 92630-8300  
Facsimile: (949) 837-5834

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

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

**Annual brome grasslands Alliance**

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

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

**Ornamental Trees**

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

Peter D. Zak  
NCA Real Estate  
June 23, 2015  
Page 3

### **Bare/Disturbed**

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

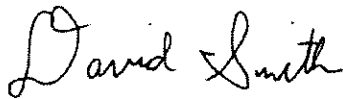
### **Developed**

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

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

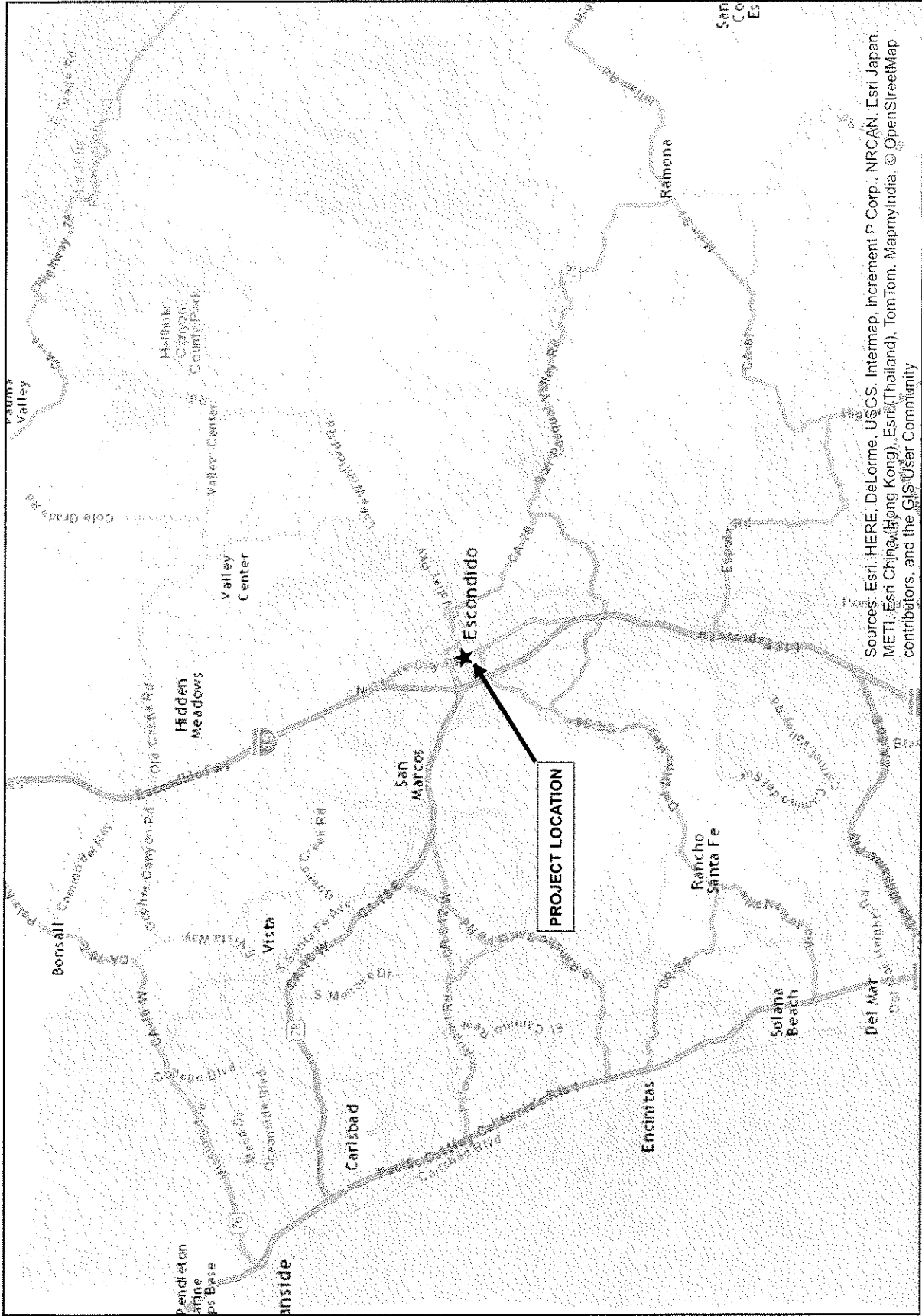
Sincerely,

GLENN LUKOS ASSOCIATES, INC.

A handwritten signature in cursive script that reads "David Smith".

David Smith  
Biologist

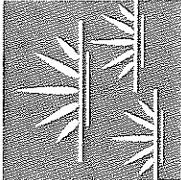
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Source: ESRI World Street Map



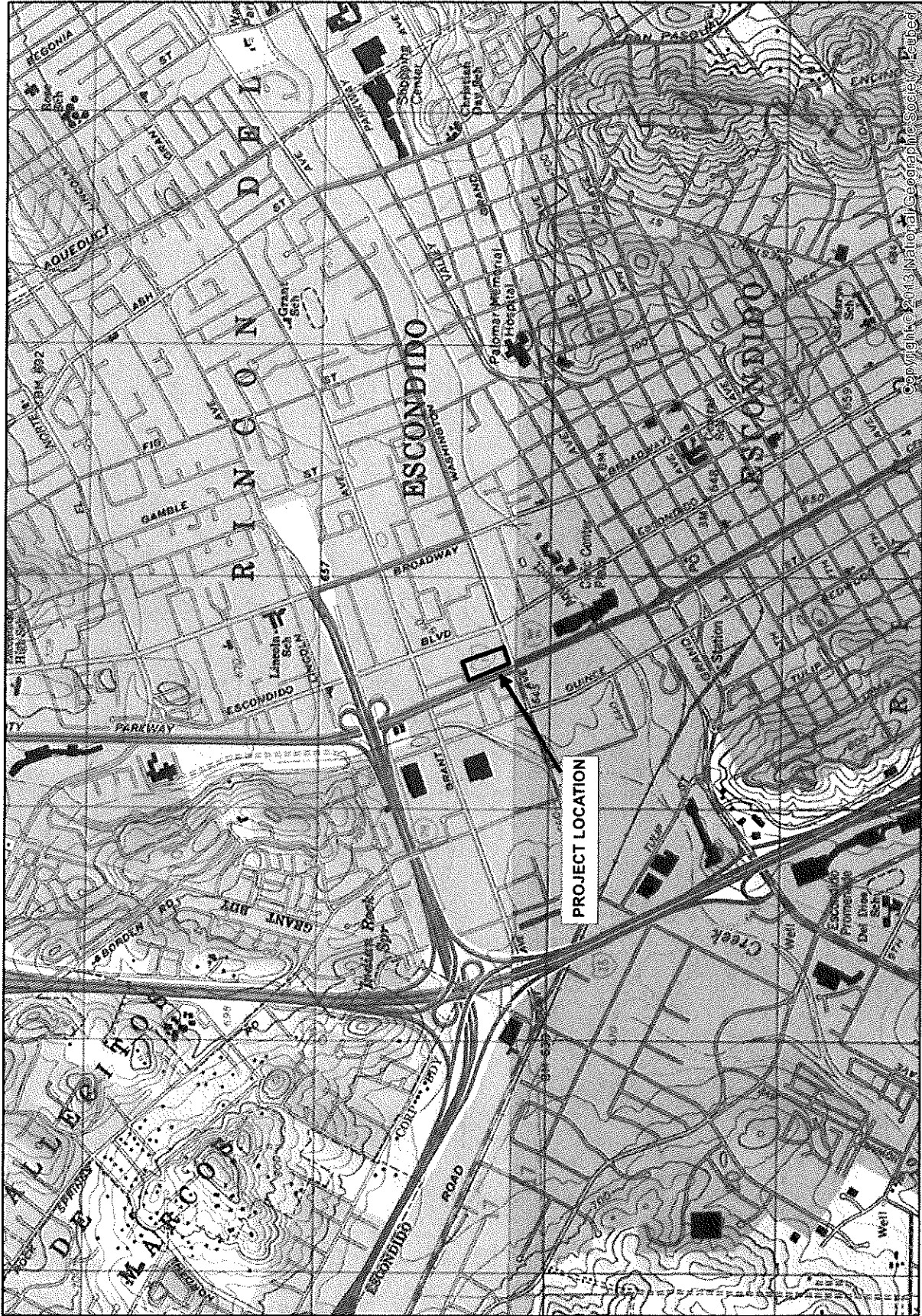
**LATITUDE II PROJECT**  
Regional Map



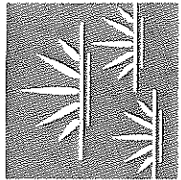
**GLENN LUKOS ASSOCIATES**

Exhibit 1

Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



Adapted from USGS Valley Center, CA quadrangle



**GLENN LUKOS ASSOCIATES**

Exhibit 2





**LATITUDE II PROJECT**  
 Vicinity Map

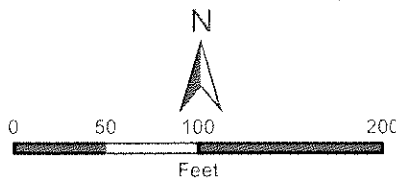
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**Legend**

-  Annual Brome Grasslands
-  Bare/ Disturbed
-  Developed
-  Ornamental



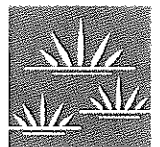
1 inch = 100 feet

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

**LATITUDE II PROJECT**  
 Vegetation Map

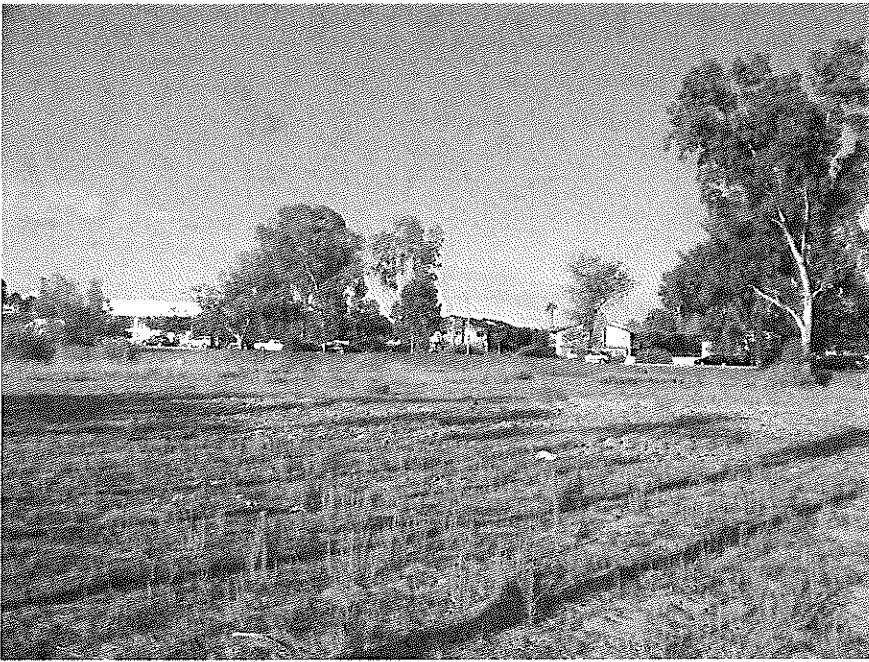
GLENN LUKOS ASSOCIATES

Exhibit 3

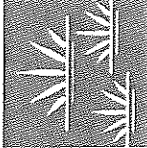




Photograph 1: Photo depicts sparse, annual brome grasslands in the eastern portion of the site.



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



GLENN LUKOS ASSOCIATES

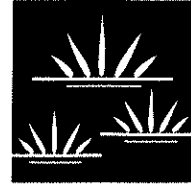
Exhibit 4



# MEMORANDUM

## GLENN LUKOS ASSOCIATES

Regulatory Services



**PROJECT NUMBER:** 10870002  
**TO:** Peter Zak  
**FROM:** Tony Bomkamp  
**DATE:** February 2, 2015  
**SUBJECT:** Latitude II Project Biological Survey and Wetland Determination Results

---

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

### 1. Survey History for the Latitude II Project

In 2005 a biological survey and wetland evaluation of the Project Site was conducted.<sup>1</sup> The survey found that the Project Site exhibited no state or federally listed threatened or endangered species and no candidate, sensitive or special status plants or animal species and that the Project Site lacked any habitat to support them. Nor did the Project Site function as a foraging or nesting area for native resident or migratory fauna and is not within or near native wildlife nursery sites. The Project Site was not included in any conservation planning area or program.

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

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

---

<sup>1</sup> Vincent Scheidt, *Results of a Biological Survey for the LCW Townhome Residential Project*. November 1, 2005.



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

*(a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.*

*(b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.*

*(c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.*

*(d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.*

*(e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.*

*(f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.*

## **2. Surveys in 2014**

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

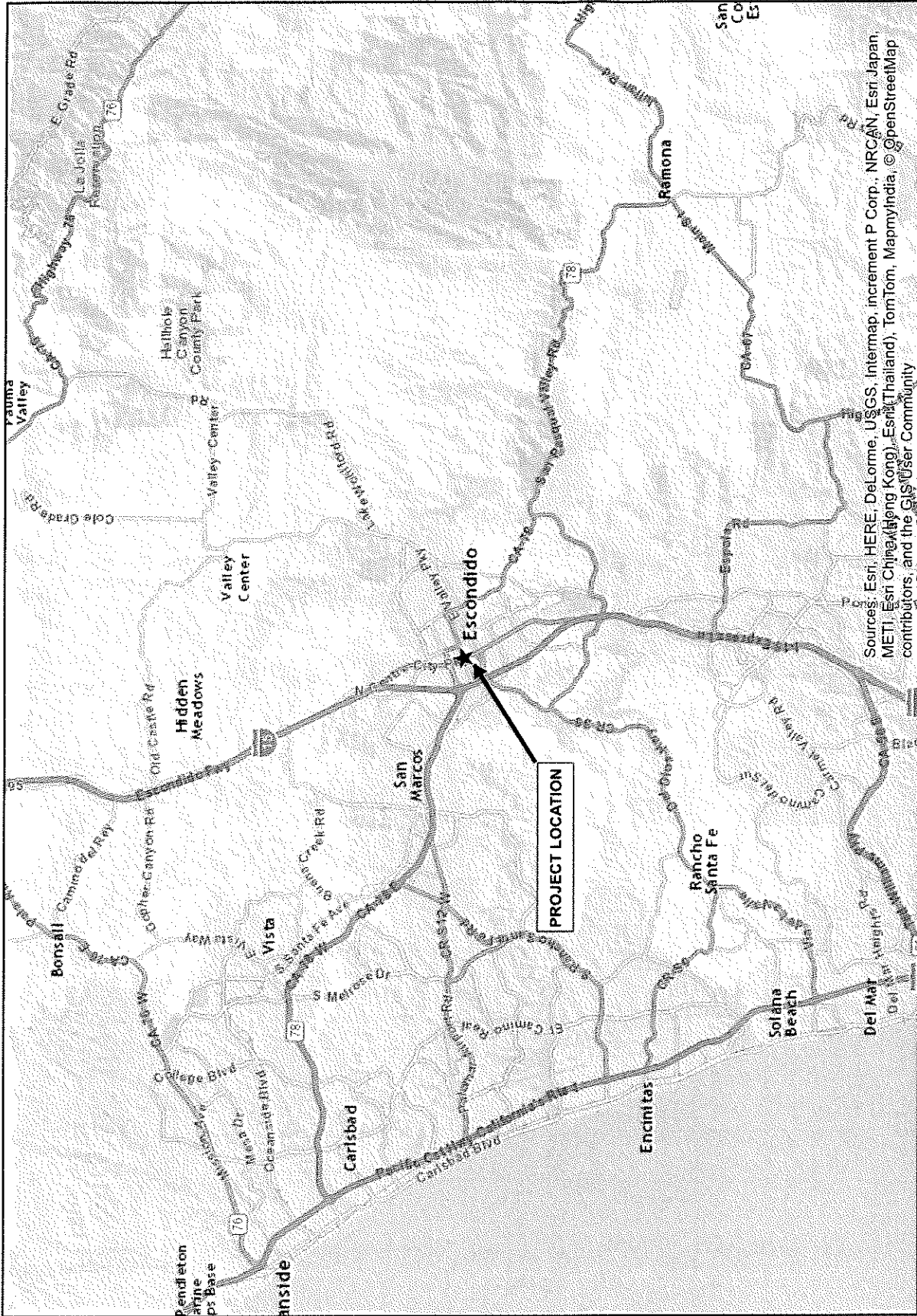
GLA also conducted a jurisdictional determination of the Site (See Attached) which found no wetlands or riparian habitat and confirmed the absence of hydrophytic vegetation, including Cattails "Typha", Sedge "Cyperus" or any other hydrophytic plants that were mentioned in the 2005 report.

**MEMORANDUM**  
**February 2, 2015**  
**Page 3**

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

**3. Conclusion**

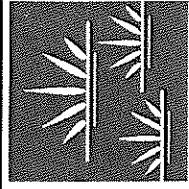
In accordance with the CEQA Appendix G Guidelines noted above construction of the Project would result in no significant impacts on biological resources and therefore require no mitigation. As confirmed by the regulatory agencies the Project requires no authorizations for impacts to the non-jurisdictional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



Source: ESRI World Street Map



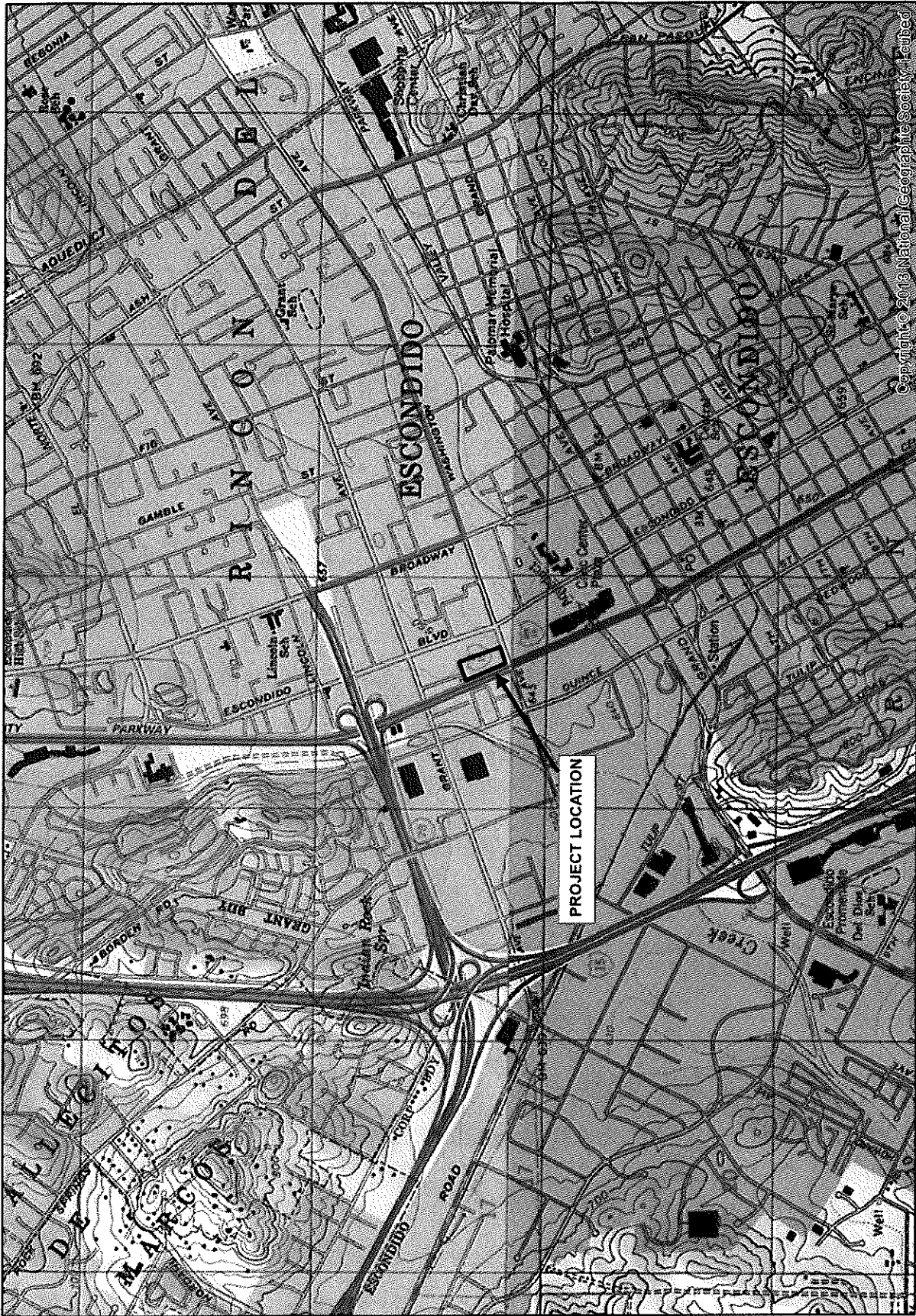
**LATITUDE II PROJECT**  
Regional Map



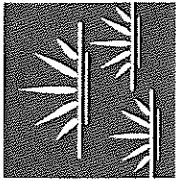
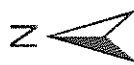
**GLENN LUKOS ASSOCIATES**

Exhibit 1

Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



Adapted from USGS Valley Center, CA quadrangle



GLENN LUKOS ASSOCIATES

Exhibit 2

**LATITUDE II PROJECT**  
 Vicinity Map

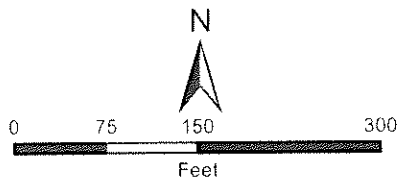
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## Legend

 Project boundary



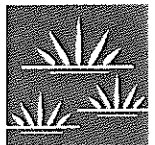
1 inch = 150 feet

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

**LATITUDE II PROJECT**  
Aerial Photograph

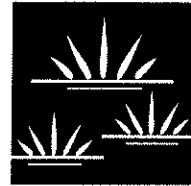
GLENN LUKOS ASSOCIATES

Exhibit 3



# GLENN LUKOS ASSOCIATES

Regulatory Services



June 30, 2014

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

SUBJECT: Jurisdictional Determination for Latitude II, Escondido, California

Dear Mr. Zak:

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

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

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

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

---

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

## I. METHODOLOGY

Prior to beginning the field delineation a color aerial photograph, and the previously cited USGS topographic map were examined to determine the locations of potential areas of Corps/CDFW jurisdiction. Potential jurisdictional areas were field checked for the presence of definable channels and/or wetland vegetation, soils and hydrology. Potential wetland habitats on the site were evaluated using the methodology set forth in the U.S. Army Corps of Engineers 1987 Wetland Delineation Manual<sup>2</sup> (Wetland Manual) and the 2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Supplement (Version 2.0) (Arid West Supplement).<sup>3</sup> Data relevant to potential presence of wetlands were recorded onto wetland data sheets. The presence of an Ordinary High Water Mark (OHWM) was determined using *A Field Guide to the Identification of the ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* and *Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States*.

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

### **Placentia Sandy Loam, 2 to 9 percent slopes**

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

### **Ramona Sandy Loam, 2 to 5 percent slopes**

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

---

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

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

<sup>4</sup> SCS is now known as the National Resource Conservation Service or NRCS.

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

## II. JURISDICTION

### A. Army Corps of Engineers

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

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

---

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

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



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

- (8) Waters of the United States do not include prior converted cropland.<sup>7</sup>  
Notwithstanding the determination of an area's status as prior converted cropland by any other federal agency, for the purposes of the Clean Water Act, the final authority regarding Clean Water Act jurisdiction remains with the EPA.

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

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

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

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

---

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

- more than 50 percent of the dominant plant species at the site must be typical of wetlands (i.e., rated as facultative or wetter in the National List of Plant Species that Occur in Wetlands<sup>8</sup>);
- soils must exhibit physical and/or chemical characteristics indicative of permanent or periodic saturation (e.g., a gleyed color, or mottles with a matrix of low chroma indicating a relatively consistent fluctuation between aerobic and anaerobic conditions); and
- Whereas the 1987 Manual requires that hydrologic characteristics indicate that the ground is saturated to within 12 inches of the surface for at least five percent of the growing season during a normal rainfall year, the Arid West Supplement does not include a quantitative criteria with the exception for areas with “problematic hydrophytic vegetation”, which require a minimum of 14 days of ponding to be considered a wetland.

**B. California Department of Fish and Wildlife**

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

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

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

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

---

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

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

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

### III. RESULTS

#### A. Corps Jurisdiction

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

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

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

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

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

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

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

Peter D. Zak  
NCA Real Estate  
June 30, 2014  
Page 7

**B. CDFW Jurisdiction**

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

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

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

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

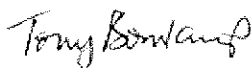
Soils exhibited a chroma of 10/YR 2/1 and no redoximorphic features. No other hydric soil indicators were present. Therefore the site does not exhibit hydric soils.

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

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

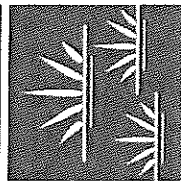
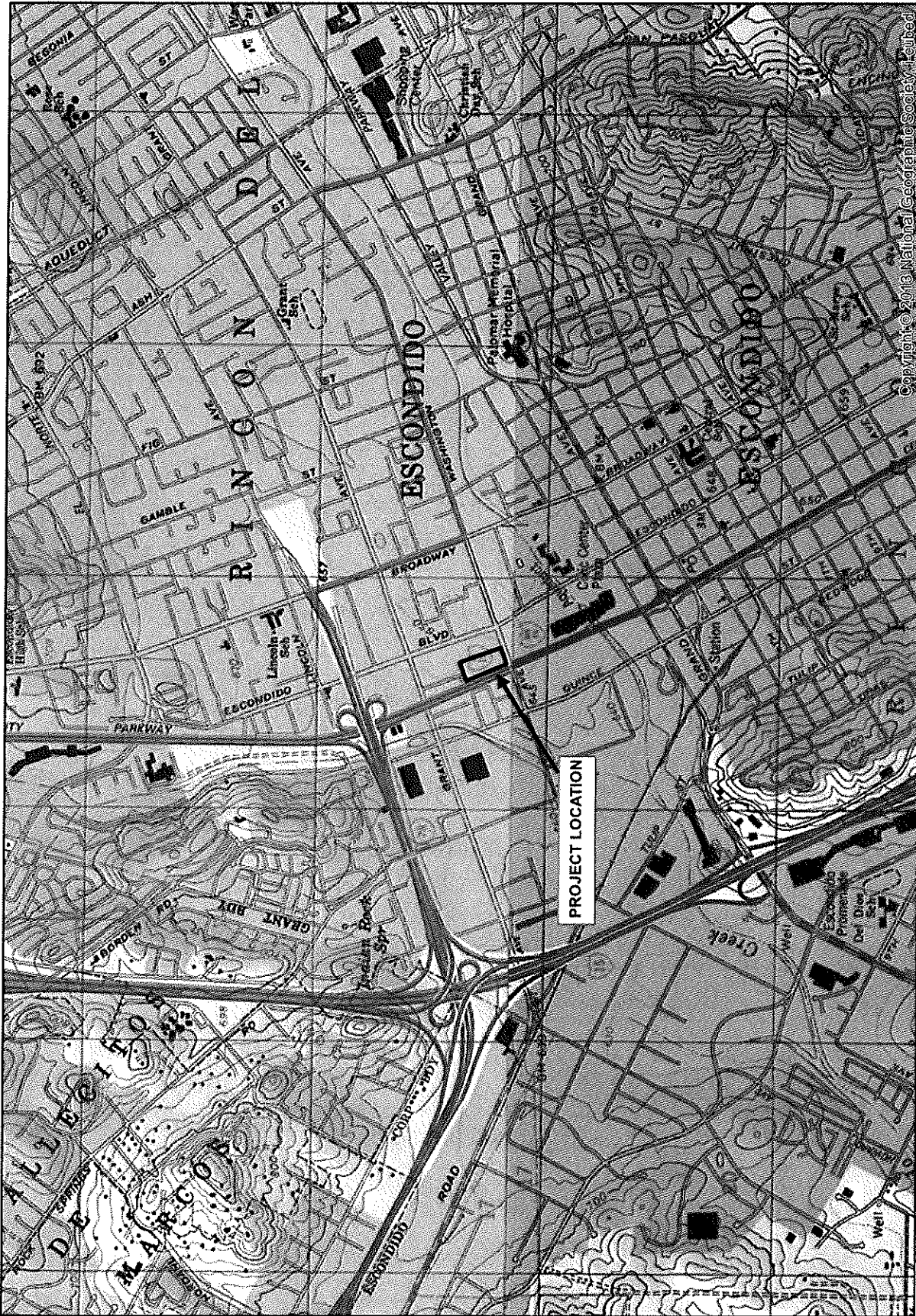
Sincerely,

GLENN LUKOS ASSOCIATES, INC.



Tony Bomkamp  
Regulatory Specialist



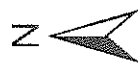


GLENN LUKOS ASSOCIATES

Exhibit 2

**LATITUDE II PROJECT**  
 Vicinity Map

Adapted from USGS Valley Center, CA quadrangle



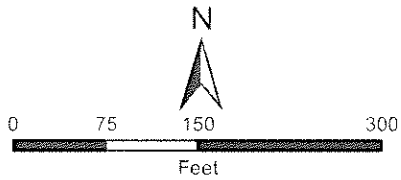


Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS user community

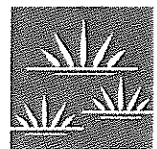
X:\10363-THE REST\1087-02WASH\1087-2GIS\1087-2JDGIS\1087-2JDsoilspits.mxd

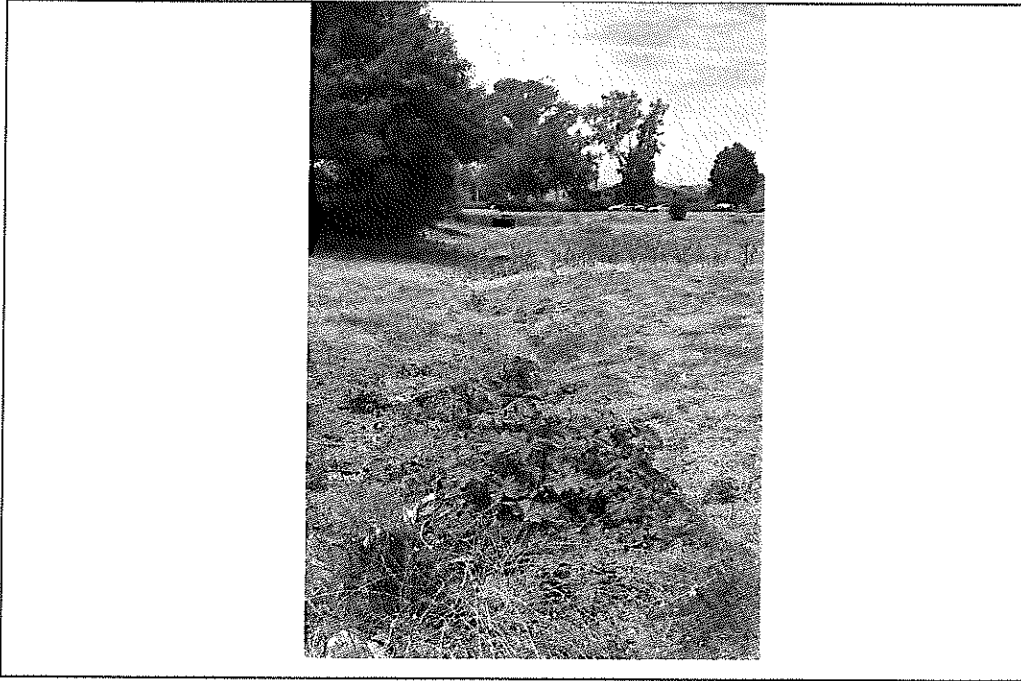
### Legend

- Data Pits
- Project boundary

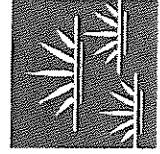


Aerial Photo: ESRI Basemaps  
 Reference Elevation Datum: State Plane 6 NAD 83  
 Map Prepared by: C. Lukos, GLA  
 Date Prepared: June 24, 2014





Photograph 1: View of Swale Looking West

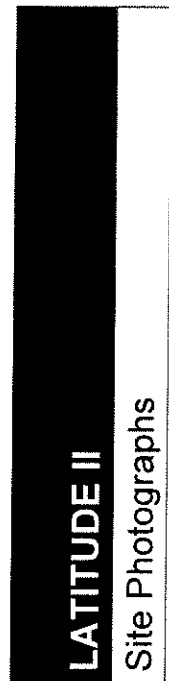


GLENN LUKOS ASSOCIATES

Exhibit 4



Photograph 2: View of Swale Looking East



LATITUDE II

Site Photographs



**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: Latitude II City/County: San Diego Sampling Date: 6/23/14  
 Applicant/Owner: NCA State: CA Sampling Point: 1  
 Investigator(s): T. Bankump/P. Robinson Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): field Local relief (concave, convex, none): concave Slope (%): 2%  
 Subregion (LRR): LRRC Lat: 117°05'21.98W Long: 33°07'39.54"N Datum: \_\_\_\_\_  
 Soil Map Unit Name: Placentia Sandy Loam, Pomona Sandy Loam NWI classification: N/A  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? NO Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? NO (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No <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 _____ No <u>X</u>
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>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75</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 <u>0</u> x 1 = <u>0</u>
3. _____				FACW species <u>7</u> x 2 = <u>14</u>
4. _____				FAC species <u>0</u> x 3 = <u>0</u>
5. _____				FACU species <u>75</u> x 4 = <u>300</u>
_____ = Total Cover				UPL species <u>5</u> x 5 = <u>25</u>
				Column Totals: <u>47</u> (A) <u>329</u> (B)
				Prevalence Index = B/A = <u>3.89</u>
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Rhynchos Communis</u>	<u>35%</u>	<u>YES</u>	<u>FACU</u>	___ Dominance Test is >50%
2. <u>Cynodon dactylon</u>	<u>35%</u>	<u>YES</u>	<u>FACU</u>	___ Prevalence Index is ≤3.0 <sup>1</sup>
3. <u>Helminthopsis echinoides</u>	<u>5%</u>	<u>NO</u>	<u>FACU</u>	___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. <u>Arena fatua</u>	<u>3%</u>	<u>NO</u>	<u>UPL</u>	___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. <u>Convolvulus arvensis</u>	<u>5%</u>	<u>NO</u>	<u>UPL</u>	
6. <u>Polygonum viviparum</u>	<u>7%</u>	<u>NO</u>	<u>FACW</u>	
7. _____				
8. _____				
<u>87</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____				Yes _____ No <u>X</u>
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>13</u>		% Cover of Biotic Crust <u>0</u>		
Remarks:				

**SOIL**

Sampling Point: \_\_\_\_\_

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features			Texture	Remarks	
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>			Loc <sup>2</sup>
0-12	10yr 4H	100	0		0	Loam		

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

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

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

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

Remarks:

**HYDROLOGY**

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

<b>Field Observations:</b> Surface Water Present?    Yes _____    No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes _____    No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes _____    No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present?    Yes _____    No <input checked="" type="checkbox"/>
---	---

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

Remarks:

**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: Latitude II City/County: San Diego Sampling Date: 6/23/14  
 Applicant/Owner: NCA State: CA Sampling Point: 2  
 Investigator(s): T. Benkamp / P. Robinson Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): Field Local relief (concave, convex, none): Concave Slope (%): < 2%  
 Subregion (LRR): LRRC Lat: 117°5'22.98"W Long: 33°07'34.15"N Datum: \_\_\_\_\_  
 Soil Map Unit Name: Playa Vista Sandy Loam, Ramona Sandy Loam NWI classification: N/A  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? NO Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? NO (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ 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>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>29%</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				<b>Prevalence Index worksheet:</b>
1. _____	_____	_____	_____	Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____	OBL species <u>0</u> x 1 = <u>0</u>
3. _____	_____	_____	_____	FACW species <u>3</u> x 2 = <u>6</u>
4. _____	_____	_____	_____	FAC species <u>25</u> x 3 = <u>75</u>
5. _____	_____	_____	_____	FACU species <u>41</u> x 4 = <u>164</u>
_____ = Total Cover				UPL species <u>2</u> x 5 = <u>10</u>
				Column Totals: <u>71</u> (A) <u>255</u> (B)
				Prevalence Index = B/A = <u>3.59</u>
Herb Stratum (Plot size: _____)				<b>Hydrophytic Vegetation Indicators:</b>
1. <u>Scirpus halimifolius</u>	<u>35%</u>	<u>YES</u>	<u>FACU</u>	___ Dominance Test is >50%
2. <u>Cyperus diactylus</u>	<u>3%</u>	<u>NO</u>	<u>FACU</u>	___ Prevalence Index is ≤3.0 <sup>1</sup>
3. <u>Helminthoglossum edicardos</u>	<u>3%</u>	<u>NO</u>	<u>FACU</u>	___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. <u>Arundo donax</u>	<u>3%</u>	<u>NO</u>	<u>FACW</u>	___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. <u>Festuca perennis</u>	<u>25%</u>	<u>YES</u>	<u>FAC</u>	
6. <u>Cenchrus ciliaris</u>	<u>2%</u>	<u>NO</u>	<u>UPL</u>	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>71</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>29</u> % Cover of Biotic Crust <u>0</u>				
				<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>
Remarks:				

**SOIL**

Sampling Point: 2

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 4/1	100	0		0	0	LOAM	

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

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

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

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

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

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
 Depth (inches): NONE

Hydric Soil Present? Yes \_\_\_\_\_ No

Remarks:

**HYDROLOGY**

**Wetland Hydrology Indicators:**

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

**Field Observations:**

Surface Water Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Water Table Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	

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

Remarks:

**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: Latitude II City/County: San Diego Sampling Date: 6/23/14  
 Applicant/Owner: NCA State: CA Sampling Point: 3  
 Investigator(s): T. Bomkamp / P. Robinson Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): Concave Slope (%): < 2%  
 Subregion (LRR): LRR C Lat: 117°05'21.94W Long: 33°07'34.54N Datum: \_\_\_\_\_  
 Soil Map Unit Name: Placentia Sandy Loam, Roman Sandy Loam NWI classification: N/A  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? NO Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? NO (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes _____ No _____	<b>Is the Sampled Area within a Wetland?</b>	Yes _____ No _____
Hydric Soil Present?	Yes _____ No _____		
Wetland Hydrology Present?	Yes _____ 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>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>35%</u> (AB)
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 <u>0</u> x 1 = <u>0</u>
3. _____	_____	_____	_____	FACW species <u>0</u> x 2 = <u>0</u>
4. _____	_____	_____	_____	FAC species <u>37</u> x 3 = <u>111</u>
5. _____	_____	_____	_____	FACU species <u>35</u> x 4 = <u>140</u>
_____ = Total Cover				UPL species <u>25</u> x 5 = <u>125</u>
				Column Totals: <u>97</u> (A) <u>376</u> (B)
				Prevalence Index = B/A = <u>3.87</u>
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Sorghum halepense</u>	<u>35%</u>	<u>YES</u>	<u>FACU</u>	___ Dominance Test is >50%
2. <u>Festuca perennis</u>	<u>35%</u>	<u>YES</u>	<u>FAC</u>	___ Prevalence Index is ≤3.0 <sup>1</sup>
3. <u>Convolvulus arvensis</u>	<u>25%</u>	<u>YES</u>	<u>UPL</u>	___ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. <u>Rumex crispus</u>	<u>2%</u>	<u>NO</u>	<u>FAC</u>	___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>97</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>3</u>		% Cover of Biotic Crust <u>0</u>		<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>
Remarks:				

**SOIL**

Sampling Point: 3

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

Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>		
0-12	10 yr <sup>4</sup>	100	0		0	LOAM	

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

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

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

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

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

**Restrictive Layer (if present):**

Type: \_\_\_\_\_

Depth (inches): NONE

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks:

**HYDROLOGY**

**Wetland Hydrology Indicators:**

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

**Field Observations:**

Surface Water Present? Yes _____ No <u>X</u>	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <u>X</u>
Water Table Present? Yes _____ No <u>X</u>	Depth (inches): _____	
Saturation Present? Yes _____ No <u>X</u>	Depth (inches): _____	

(includes capillary fringe)

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

Remarks: