

December 9, 2022

Tracy Zinn **T&B** Planning 3200 El Camino Real, Suite 100 Irvine, CA 92602

Jurisdictional Delineation for the Rider Street and Patterson Avenue Project, SUBJECT:

Located in the Community of Mead Valley, Riverside County, California

Dear Ms. Zinn:

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

The Rider Street and Patterson Avenue Project site, located in the community of Mead Valley in Riverside County [Exhibit 1], comprises approximately 45.45 acres and does not contain any blue-line drainages (as depicted on the U.S. Geological Survey (USGS) topographic map Steele Peak, California [Exhibit 2]. On May 5, September 14, and November 14, 2022, 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, (2) Regional Board jurisdiction pursuant to Section 401 of the CWA and Section 13260 of the California Water Code (CWC), and (3) 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 potential Corps, Regional Board and CDFW jurisdiction. Photographs to document the topography, vegetative communities, and general widths of each of the waters are provided as Exhibit 4. A Soils Map is attached as Exhibit 5 and a wetland data sheet is included as Appendix A.

The Project site contains four ephemeral drainages, referred to herein as Drainages A through D, and a roadside ditch along Rider Street. Drainages within the Project site consist of ephemeral

<sup>&</sup>lt;sup>1</sup> This report presents our best effort at estimating the subject jurisdictional boundaries using the most up-to-date regulations, written policy, and guidance from the regulatory agencies. Only the regulatory agencies can make a final determination of jurisdictional boundaries.

features that do not connect to further downstream traditional navigable waters. As such, drainages on site are isolated and not subject to Corps jurisdiction.

Potential Regional Board jurisdiction at the site totals approximately 0.14 acre, none of which consists of jurisdictional wetlands.

Potential CDFW jurisdiction at the site totals approximately 0.35 acre, of which approximately 0.13 acre consists of riparian habitat.

### I. METHODOLOGY

Prior to beginning the field delineation, a color aerial photograph, a topographic base map of the property, the previously cited USGS topographic map, and a soils map were examined to determine the locations of potential areas of Corps, Regional Board, and CDFW jurisdiction. Suspected jurisdictional areas were field checked for evidence of stream activity and/or wetland vegetation, soils and hydrology. Where applicable, reference was made to the 2008 Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States (OWHM Manual)<sup>2</sup> to identify the width of Corps jurisdiction, and suspected 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>3</sup> (Wetland Manual) and the 2006 Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Supplement (Arid West Supplement).<sup>4</sup> While in the field the potential limits of jurisdiction were recorded with a sub-meter Trimble GPS device in conjunction with a color aerial photograph using visible landmarks. Other data were recorded onto wetland data sheets.

The National Cooperative Soil Survey (NCSS) has mapped the following soil types as occurring in the general vicinity of the project site:

### Fallbrook Rocky Sandy Loam, shallow, 8 to 15 Percent Slopes, Eroded

The Fallbrook series consists of deep, well drained soils that formed in material weathered from granitic rocks. These soils are on rolling hills.

<sup>&</sup>lt;sup>2</sup> U.S. Army Corps of Engineers. 2008. A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States

<sup>&</sup>lt;sup>3</sup> Environmental Laboratory. 1987. <u>Corps of Engineers Wetlands Delineation Manual</u>, Technical Report Y-87-1, U.S. Army Engineer Waterways Experimental Station, Vicksburg, Mississippi.

<sup>&</sup>lt;sup>4</sup> 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.

### Hanford Coarse Sandy Loam, 2 to 8 Percent Slopes

The Hanford series consists of very deep, well drained soils that formed in moderately coarse textured alluvium dominantly from granite. Hanford soils are on stream bottoms, floodplains, and alluvial fans.

### Ramona Sandy Loam, shallow, 2 to 5 Percent Slopes, Eroded

The Ramona series consist of well-drained, very deep sandy loams with a sandy clay loam subsoil formed from granitic alluvium. They are on terraces and alluvial fans.

## Ramona Sandy Loam, shallow, 8 to 15 Percent Slopes, Severely Eroded

The Ramona series consist of well-drained, very deep sandy loams with a sandy clay loam subsoil formed from granitic alluvium. They are on terraces and alluvial fans.

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

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.

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 the Wetland Manual to guide its field personnel in determining jurisdictional wetland boundaries. The methodology set forth in the Wetland 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 Wetland Manual and Arid West Supplement provide great detail in methodology and allow for varying special conditions, a wetland should normally meet each of the following three criteria:

• More than 50 percent of the dominant plant species at the site must be hydrophytic in nature as published in the most current national wetland plant list;

- 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 Wetland 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.

## 2. Solid Waste Agency of Northern Cook County v. United States Army Corps of Engineers, et al.

Pursuant to Article I, Section 8 of the U.S. Constitution, federal regulatory authority extends only to activities that affect interstate commerce. In the early 1980s the Corps interpreted the interstate commerce requirement in a manner that restricted Corps jurisdiction on isolated (intrastate) waters. On September 12, 1985, the U.S. Environmental Protection Agency (EPA) asserted that Corps jurisdiction extended to isolated waters that are used or could be used by migratory birds or endangered species, and the definition of "waters of the United States" in Corps regulations was modified as quoted above from 33 CFR 328.3(a).

On January 9, 2001, the Supreme Court of the United States issued a ruling on *Solid Waste Agency of Northern Cook County v. United States Army Corps of Engineers, et al.* (SWANCC). In this case the Court was asked whether use of an isolated, intrastate pond by migratory birds is a sufficient interstate commerce connection to bring the pond into federal jurisdiction of Section 404 of the Clean Water Act.

The written opinion notes that the court's previous support of the Corps' expansion of jurisdiction beyond navigable waters (*United States v. Riverside Bayview Homes, Inc.*) was for a wetland that <u>abutted</u> a navigable water and that the court did not express any opinion on the question of the authority of the Corps to regulate wetlands that are not adjacent to bodies of open water. The current opinion goes on to state:

In order to rule for the respondents here, we would have to hold that the jurisdiction of the Corps extends to ponds that are not adjacent to open water. We conclude that the text of the statute will not allow this.

Therefore, we believe that the court's opinion goes beyond the migratory bird issue and says that no isolated, intrastate water is subject to the provisions of Section 404(a) of the Clean Water Act

(regardless of any interstate commerce connection). However, the Corps and EPA have issued a joint memorandum which states that they are interpreting the ruling to address only the migratory bird issue and leaving the other interstate commerce clause nexuses intact.

## 3. Rapanos v. United States and Carabell v. United States

On June 5, 2007, the EPA and Corps issued joint guidance that addresses the scope of jurisdiction pursuant to the Clean Water Act in light of the Supreme Court's decision in the consolidated cases *Rapanos v. United States* and *Carabell v. United States* ("Rapanos"). The chart below was provided in the joint EPA/Corps guidance.

For sites that include waters other than Traditional Navigable Waters (TNWs) and/or their adjacent wetlands or Relatively Permanent Waters (RPWs) tributary to TNWs and/or their adjacent wetlands, as set forth below, the Corps must apply the "significant nexus" standard.

For "isolated" waters or wetlands, the joint guidance also requires an evaluation by the Corps and EPA to determine whether other interstate commerce clause nexuses, not addressed in the SWANCC decision are associated with isolated features on project sites for which a jurisdictional determination is being sought from the Corps.

The Corps and EPA will assert jurisdiction over the following waters:

- Traditional navigable waters.
- Wetlands adjacent to traditional navigable waters.
- Non-navigable tributaries of traditional navigable waters that are relatively permanent where the tributaries typically flow year-round or have continuous flow at least seasonally (e.g., typically three months).
- Wetlands that directly abut such tributaries.

The Corps and EPA will decide jurisdiction over the following waters based on a fact-specific analysis to determine whether they have a significant nexus with a TNW:

- Non-navigable tributaries that are not relatively permanent.
- Wetlands adjacent to non-navigable tributaries that are not relatively permanent.
- Wetlands adjacent to but that do not directly abut a relatively permanent non-navigable tributary.

The agencies generally will not assert jurisdiction over the following features:

- Swales or erosional features (e.g., gullies, small washes characterized by low volume, infrequent or short duration flow).
- Ditches (including roadside ditches) excavated wholly in and draining only uplands and that do not carry a relatively permanent flow of water.

The agencies will apply the significant nexus standard as follows:

- A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by all wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical and biological integrity of downstream traditional navigable waters.
- Significant nexus includes consideration of hydrologic and ecologic factors.

### B. Regional Water Quality Control Board

The State Water Resource Control Board and each of its nine Regional Boards regulate the discharge of waste (dredged or fill material) into waters of the United States<sup>5</sup> and waters of the State. Waters of the United States are defined above in Section II.A and waters of the State are defined as "any surface water or groundwater, including saline waters, within the boundaries of the state" (California Water Code 13050[e]).

Section 401 of the CWA requires certification for any federal permit or license authorizing impacts to waters of the U.S. (i.e., waters that are within federal jurisdiction), such as Section 404 of the CWA and Section 10 of the Safe Rivers and Harbors Act, to ensure that the impacts do not violate state water quality standards. When a project could impact waters outside of federal jurisdiction, the Regional Board has the authority under the Porter-Cologne Water Quality Control Act to issue Waste Discharge Requirements (WDRs) to ensure that impacts do not violate state water quality standards. Clean Water Act Section 401 Water Quality Certifications, WDRs, and waivers of WDRs are also referred to as orders or permits.

<sup>&</sup>lt;sup>5</sup> Therefore, wetlands that meet the current definition, or any historic definition, of waters of the U.S. are waters of the state. In 2000, the State Water Resources Control Board determined that all waters of the U.S. are also waters of the state by regulation, prior to any regulatory or judicial limitations on the federal definition of waters of the U.S. (California Code or Regulations title 23, section 3831(w)). This regulation has remained in effect despite subsequent changes to the federal definition. Therefore, waters of the state includes features that have been determined by the U.S. Environmental Protection Agency (U.S. EPA) or the U.S. Army Corps of Engineers (Corps) to be "waters of the U.S." in an approved jurisdictional determination; "waters of the U.S." identified in an aquatic resource report verified by the Corps upon which a permitting decision was based; and features that are consistent with any current or historic final judicial interpretation of "waters of the U.S." or any current or historic federal regulation defining "waters of the U.S." under the federal Clean Water Act.

### 1. State Wetland Definition

The State Board Wetland Definition and Procedures define an area as wetland as follows: An area is wetland if, under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation.

The following wetlands are waters of the State:

- 1. Natural wetlands;
- 2. Wetlands created by modification of a surface water of the state;<sup>6</sup> and
- 3. Artificial wetlands<sup>7</sup> that meet any of the following criteria:
  - a. Approved by an agency as compensatory mitigation for impacts to other waters of the state, except where the approving agency explicitly identifies the mitigation as being of limited duration;
  - b. Specifically identified in a water quality control plan as a wetland or other water of the state;
  - c. Resulted from historic human activity, is not subject to ongoing operation and maintenance, and has become a relatively permanent part of the natural landscape; or
  - d. Greater than or equal to one acre in size, unless the artificial wetland was constructed, and is currently used and maintained, primarily for one or more of the following purposes (i.e., the following artificial wetlands are not waters of the state unless they also satisfy the criteria set forth in 2, 3a, or 3b):
    - i. Industrial or municipal wastewater treatment or disposal,
    - ii. Settling of sediment,
    - iii. Detention, retention, infiltration, or treatment of stormwater runoff and other pollutants or runoff subject to regulation under a municipal, construction, or industrial stormwater permitting program,
    - iv. Treatment of surface waters,
    - v. Agricultural crop irrigation or stock watering,
    - vi. Fire suppression,
    - vii. Industrial processing or cooling,

<sup>&</sup>lt;sup>6</sup> "Created by modification of a surface water of the state" means that the wetland that is being evaluated was created by modifying an area that was a surface water of the state at the time of such modification. It does not include a wetland that is created in a location where a water of the state had existed historically, but had already been completely eliminated at some time prior to the creation of the wetland. The wetland being evaluated does not become a water of the state due solely to a diversion of water from a different water of the state.

<sup>&</sup>lt;sup>7</sup> Artificial wetlands are wetlands that result from human activity.

viii. Active surface mining – even if the site is managed for interim wetlands functions and values,

ix. Log storage,

x. Treatment, storage, or distribution of recycled water, or xi. Maximizing groundwater recharge (this does not include wetlands that have incidental groundwater recharge benefits); or xii. Fields flooded for rice growing.<sup>8</sup>

All artificial wetlands that are less than an acre in size and do not satisfy the criteria set forth in 2, 3.a, 3.b, or 3.c are not waters of the state. If an aquatic feature meets the wetland definition, the burden is on the applicant to demonstrate that the wetland is not a water of the state.

## C. California Department of Fish and Wildlife

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

CDFW defines a stream (including creeks and rivers) as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having surface or subsurface flow that supports or has supported riparian vegetation." CDFW's definition of "lake" includes "natural lakes or manmade reservoirs." CDFW also defines a stream as "a body of water that flows, or has flowed, over a given course during the historic hydrologic regime, and where the width of its course can reasonably be identified by physical or biological indicators."

It is important to note that the Fish and Game Code defines fish and wildlife to include all wild animals, birds, plants, fish, amphibians, invertebrates, reptiles, and related ecological communities including the habitat upon which they depend for continued viability (FGC Division 5, Chapter 1, section 45 and Division 2, Chapter 1 section 711.2(a) respectively). Furthermore, Division 2, Chapter 5, Article 6, Section 1600 et seq. of the California Fish and

issue or waive waste discharge requirements or take other actions as applicable.

<sup>&</sup>lt;sup>8</sup> Fields used for the cultivation of rice (including wild rice) that have not been abandoned due to five consecutive years of non-use for the cultivation of rice (including wild rice) that are determined to be a water of the state in accordance with these Procedures shall not have beneficial use designations applied to them through the Water Quality Control Plan for the Sacramento and San Joaquin River Basins, except as otherwise required by federal law for fields that are considered to be waters of the United States. Further, agricultural inputs legally applied to fields used for the cultivation of rice (including wild rice) shall not constitute a discharge of waste to a water of the state. Agricultural inputs that migrate to a surface water or groundwater may be considered a discharge of waste and are subject to waste discharge requirements or waivers of such requirements pursuant to the Water Board's authority to

Game Code does not limit jurisdiction to areas defined by specific flow events, seasonal changes in water flow, or presence/absence of vegetation types or communities.

### III. RESULTS

### A. Drainage Descriptions

### Drainage A

Drainage A originates at the northwestern portion of the Project site where the adjacent residential development to the west, specifically Norrisgrove Drive, currently ends. Runoff from the development accumulates at the end of Norrisgrove Drive and flows onto the Project site. Drainage A is bisected by numerous dirt roads, flows in an easterly direction, and terminates at the northeastern corner of the Project site.

Vegetation associated with the upstream reach of Drainage A includes southern willow scrub, a riparian habitat that consists primarily of sandbar willow (*Salix exigua*). Other plant species in the riparian area include mulefat (*Baccharis salicifolia*) and black willow (*Salix gooddingii*). Upland vegetation associated with Drainage A consists primarily of California buckwheat (*Eriogonum fasciculatum*) with some brittlebush (*Encelia farinosa*) and California sagebrush (*Artemisia californica*).

### Drainage B

Drainage B originates near the southwestern portion of the Project site where the adjacent residential development to the west, specifically Sunny Canyon Street, currently ends. Runoff from the development accumulates at the end of Sunny Canyon Street and flows onto the Project site. Drainage B is bisected by numerous dirt roads, flows in a northeasterly direction, and terminates at a shallow impoundment on site.

Vegetation associated with Drainage B consists of upland species, primarily California buckwheat (*Eriogonum fasciculatum*), summer mustard (*Hirschfeldia incana*), ripgut (*Bromus diandrus*), and stinknet (*Oncosiphon piluliferum*). Other species include red brome (*Bromus madritensis* ssp. *rubens*), common fiddleneck (*Amsinckia intermedia*) and coastal heron's bill (*Erodium cicutarium*).

### Drainage C

Drainage C originates on site near the southwestern portion of the Project site and is generally associated with runoff from the adjacent dirt roads. It flows in a northeasterly direction and terminates at a shallow impoundment on site. Vegetation associated with Drainage C is upland and similar to the vegetation listed above for Drainage B.

### Drainage D

Drainage D originates on site near the southwestern portion of the Project site and is generally associated with runoff from the adjacent dirt road. It flows in a northeasterly direction and terminates at a shallow impoundment on site. Vegetation associated with Drainage D is upland and similar to the vegetation listed above for Drainage B.

### Roadside Ditch

The Roadside Ditch originates at the southeastern corner of Rider Street and Patterson Avenue, is associated with runoff from Rider Street, and flows in an easterly direction along the southern edge of Rider Street. Vegetation associated with the Roadside Ditch consists of non-native grasses with overhanging Peruvian pepper trees (*Schinus molle*).

### **B.** Corps Jurisdiction

Drainages on site consist of ephemeral features that terminate on site and do not connect to any downstream jurisdictional waters. Drainages A and B originate on site directly as a result of runoff from the adjacent residential development. Drainages C and D also originate on site and are associated with runoff from adjacent dirt roads. As such, the drainage features within the Project site are isolated and would not be subject to Corps jurisdiction.

The Roadside Ditch along Rider Street would not be regulated by the Corps, as roadside ditches excavated wholly in and draining only uplands that do not carry a relatively permanent flow of water would not be subject to Corps jurisdiction.

### C. Regional Water Quality Control Board Jurisdiction

Regional Board jurisdiction within the Project site totals approximately 0.14 acre (2,880 linear feet), none of which consists of State wetlands [Exhibit 3A – Regional Board Jurisdictional Delineation Map], as described in Table 1 below.

Drainage A supports an OHWM ranging in width from one to three feet and is evidenced by sediment sorting, sandy depositions, and a decrease in vegetation. Drainage B supports an OHWM of one foot and is evidenced by sandy depositions and sediment sorting. Drainage C supports an OHWM ranging in width from one to two feet and is evidenced by sediment sorting. Drainage D supports an OHWM ranging in width from two to three feet and is evidenced by natural lines impressed on the banks and sediment sorting. The Roadside Ditch supports an OHWM ranging in width from three to five feet and is evidenced by natural lines impressed on the banks, sediment sorting, gravelly depositions, and a lack of vegetation.

Drainages A through D as well as the Roadside Ditch are ephemeral features that would be regulated by the Regional Board as non-wetland waters of the State.

Regional Board Regional Board **Drainage Name** Total Length Non-Wetland **Jurisdictional** Regional Board (linear feet) Waters Wetlands Jurisdiction (acres) (acres) (acres) Drainage A 0.05 0 0.05 1,302 Drainage B 0.02 0 0.02 529 0.01 353 Drainage C 0.01 0 Drainage D 0.01 0 0.01 221 Roadside Ditch 0.04 0 0.04 475 Total 0.14 0 0.14 2,880

**Table 1: Summary of Regional Board Jurisdiction** 

### D. CDFW Jurisdiction

CDFW jurisdiction within the Project site totals approximately 0.35 acre (2,880 linear feet), of which approximately 0.22 acre consists of non-riparian stream and approximately 0.13 acre consists of riparian habitat [Exhibit 3B – CDFW Jurisdictional Delineation Map], as described in Table 2 below.

Drainage A supports a bed and bank ranging in width from one to four feet. Drainage B supports a bed and bank of one foot. Drainage C supports a bed and bank ranging in width from one to

two feet. Drainage D supports a bed and bank ranging in width from two to seven feet. The Roadside Ditch supports a bed and bank ranging in width from eight to 15 feet.

Drainages A through D as well as the Roadside Ditch have the potential to support aquatic resources that would be regulated as streams and associated riparian habitat by the CDFW.

**Table 2: Summary of CDFW Jurisdiction** 

Drainage Name	CDFW Non- riparian Stream	CDFW Riparian Habitat	Total Potential CDFW	Length (linear feet)
	(acres)	(acres)	Jurisdiction (acres)	( );;
Drainage A	0.04	0.13	0.17	1028
Drainage B	0.02	0	0.02	529
Drainage C	0.01	0	0.01	353
Drainage D	0.02	0	0.02	221
Roadside Ditch	0.13	0	0.13	475
Total	0.22	0.13	0.35	2,880

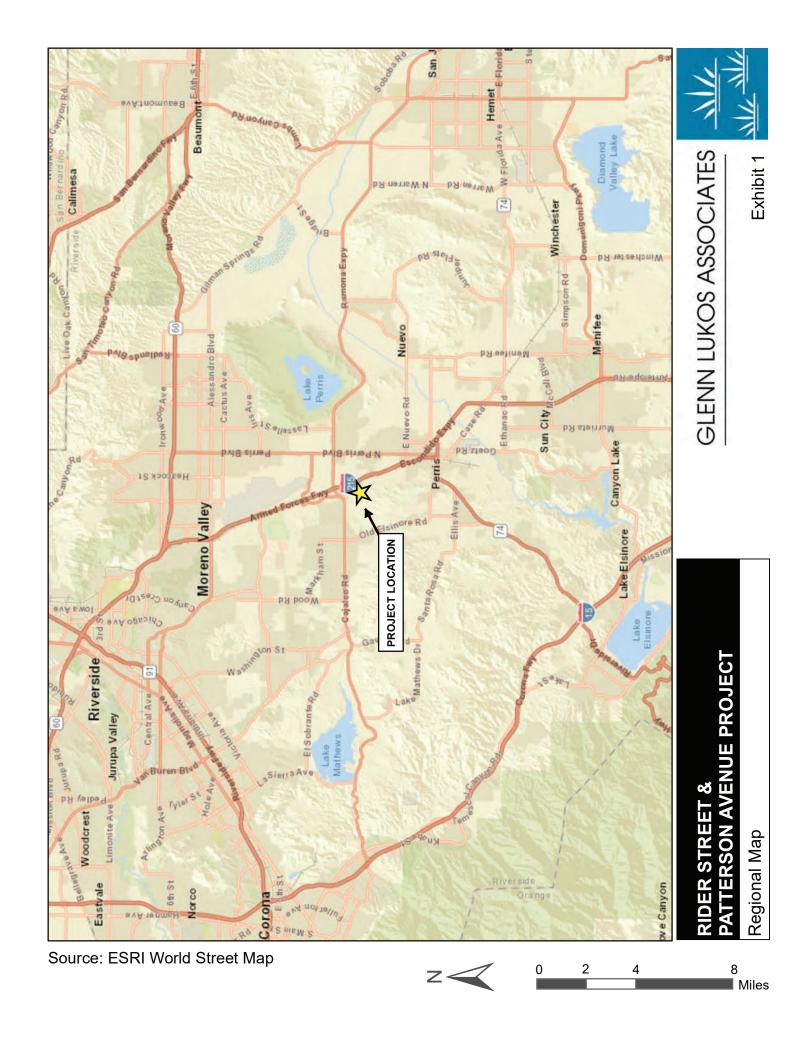
If you have any questions about this letter report, please contact David Smith at dsmith@wetlandpermitting.com or (949) 340-0256.

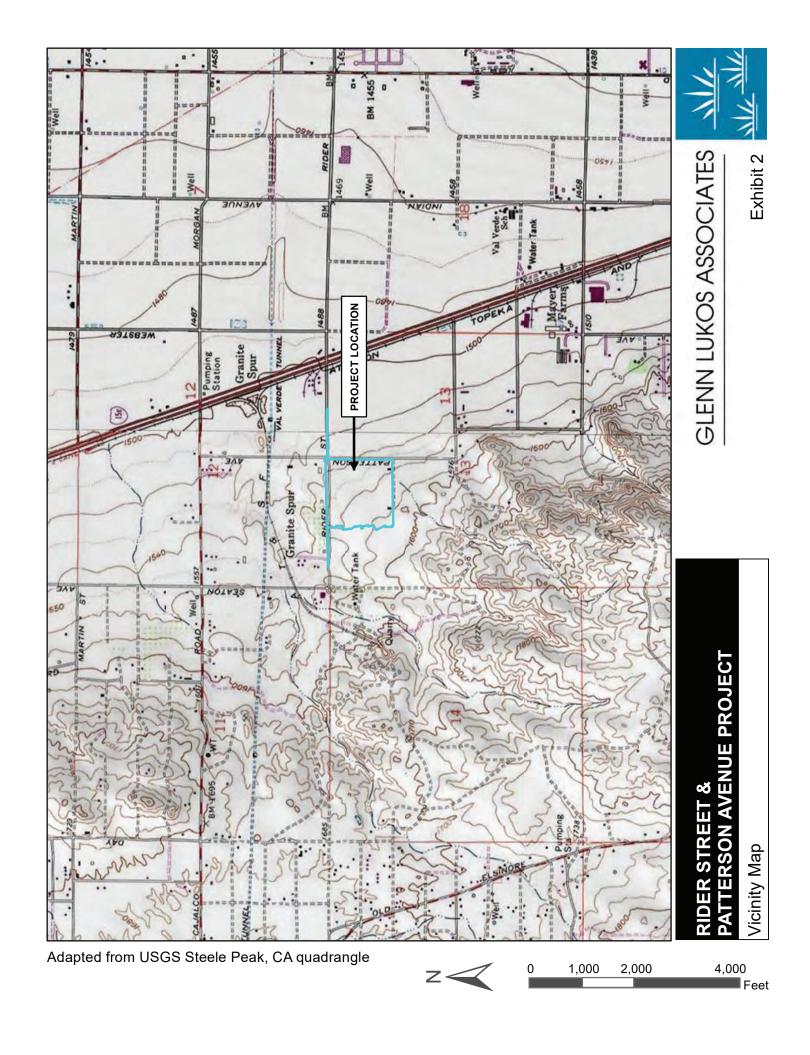
Sincerely,

GLENN LUKOS ASSOCIATES, INC.

David Smith Wildlife Biologist

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# RIDER STREET & PATTERSON AVENUE PROJECT

RWQCB Jurisdictional Delineation Map

Coordinate System: State Plane 6 NAD 83 Projection: Lambert Conformal Conic Datum: NAD 1993 2011 Map Prepared by; B. Cale, GLA Date Prepared: December 8, 2022

Non-Wetland Waters of the State

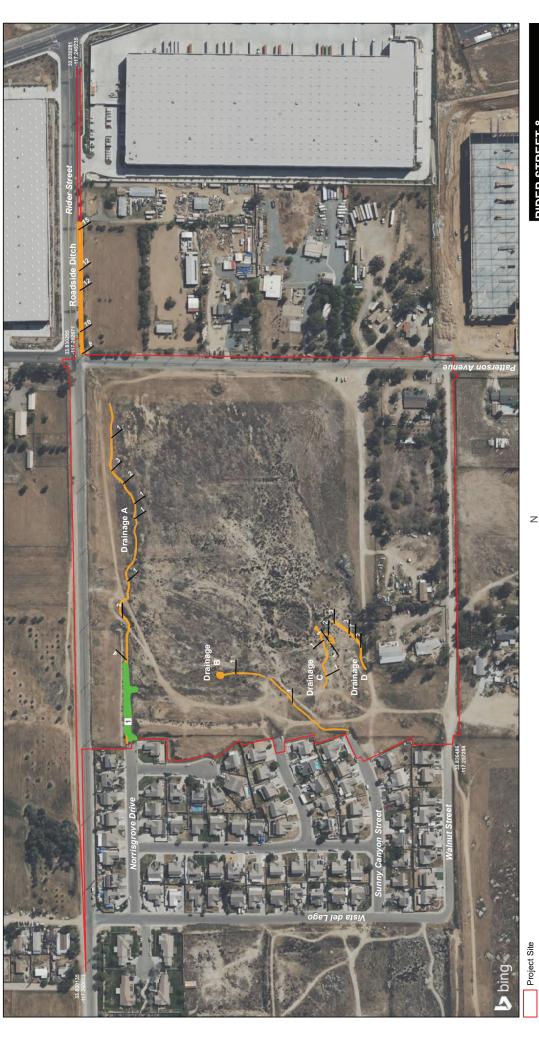
Width in Feet

Data Pit

GLENN LUKOS ASSOCIATES

Exhibit 3A

1 inch = 225 feet



## RIDER STREET & PATTERSON AVENUE PROJECT

CDFW Jurisdictional Delineation Map

Coordinate System: State Plane 6 NAD 83 Projection: Lambert Conformal Conic Datum: NAD 1993 2011 Map Prepared by; B. Cale, GLA Date Prepared: December 8, 2022

1 inch = 225 feet

GLENN LUKOS ASSOCIATES

Exhibit 3B

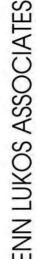
Data Pit

# Width of Non-Riparian in Feet

Non-Riparian Stream

Riparian

Exhibit 4 – Page 1





Photograph 1: Central view of Drainage A looking southwest.



Photograph 2: View depicting the northern portion of Drainage B, looking southwest.

Site Photographs

Exhibit 4 – Page 2









Photograph 4: View depicting southern end of Drainage D, looking northeast.

Site Photographs

Exhibit 4 – Page 3





Photograph 5: View depicting western terminus of roadside ditch, immediately south of Rider Street.



Photograph 6: View depicting eastern terminus of roadside ditch, immediately south of Rider Street.

Site Photographs



## WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Rider/Patterson		City/County	Riverside	e	Sampling Date:	9/14/22	
Applicant/Owner:	State: CA				Sampling Point:	1	
	Section, Township, Range: 13, 4 S, 4 W						
Landform (hillslope, terrace, etc.): <u>Drainage</u>							
Subregion (LRR): Arid West							
Soil Map Unit Name: Ramona Sandy Loam, 2 to 5 percentage of the Sandy Loam, 2 to 5 pe							
Are climatic / hydrologic conditions on the site typical for this							
Are Vegetation <u>√</u> , Soil <u>√</u> , or Hydrology <u>√</u> s	-			'Normal Circumstances" p		<b>✓</b> No	
Are Vegetation, Soil, or Hydrologyn	aturally pro	blematic?	(If ne	eeded, explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS - Attach site map	showing	samplin	g point l	ocations, transects	, important f	eatures, etc.	
Hydrophytic Vegetation Present? Yes No	/						
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	_ <del></del>		e Sampled		/		
Wetland Hydrology Present? Yes   Ves   No		with	in a Wetlar	nd? Yes	No <u>√</u>	_	
Remarks:		<u> </u>					
Though hydrology is present, vegetation ar	nd soils a	don't me	et				
Though hydrology is present, vegetation at	10 30113 (	JOH CHIC					
VEGETATION – Use scientific names of plant							
Tree Stratum (Plot size: 30' radius )		Dominant Species?		Dominance Test work			
1. Salix exigua				Number of Dominant S That Are OBL, FACW,		2(A)	
2						(/1)	
3.				Total Number of Domin Species Across All Stra		4 (B)	
4.						(5)	
		= Total Co		Percent of Dominant Sp That Are OBL, FACW,		0% (A/B)	
Sapling/Shrub Stratum (Plot size: 15' radius )		-				<u> </u>	
1. Salix exigua				Prevalence Index wor			
2. <u>Baccharis salificolia</u>		N		Total % Cover of:			
3				OBL species			
4				FACW species 105			
5		T-4-1 O-		FAC species 5			
Herb Stratum (Plot size: 5' radius )		= Total Co	ver	UPL species 90			
1. Bromus madritensis ssp. rubens	40	Y	UPL	Column Totals: 20		695 (B)	
2. Ambrosia acanthicarpa		Υ	UPL	Oolullii Totals	<u>/3</u> (//)	(B)	
3. Trichostema lanceolatum		N	FACU	Prevalence Index	= B/A =3	3.39	
4. Heterotheca grandiflora	5	N	UPL	Hydrophytic Vegetation			
5. Eriogonum fasciculatum	5	N	UPL	Dominance Test is			
6. Salix exigua	5	N	FACW	Prevalence Index is			
7				Morphological Ada	ptations¹ (Provide s or on a separate	supporting	
8				Problematic Hydro		*	
Moody Vine Stratum (Blot size)	100	= Total Co	ver	1 Toblematic Hydro	priyac vegetation	(Explair)	
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soi	and wetland hvo	drology must	
1				be present, unless distu			
2		= Total Co		Hydrophytic			
		_		Vegetation		,	
% Bare Ground in Herb Stratum0	of Biotic C	rust		Present? Ye	s No_	<u> </u>	
Remarks:							
Lots of willow							

US Army Corps of Engineers Arid West – Version 2.0

SOIL Sampling Point: 1

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

Depth	Matrix			x Features						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks		
0-12	10 YR 3/2	100						no redox		
								-		
		- <del></del>						<del>-</del>		
	oncentration, D=De					d Sand Gra		ocation: PL=Pore Lining, M=Matrix.		
_	Indicators: (Applie	cable to all L			d.)			s for Problematic Hydric Soils <sup>3</sup> :		
Histosol			Sandy Redo	. ,				Muck (A9) (LRR C)		
	Histic Epipedon (A2) Stripped Matrix (S6)				2 cm Muck (A10) ( <b>LRR B</b> )					
	stic (A3)		Loamy Mucl	-			Reduced Vertic (F18)			
	en Sulfide (A4) d Layers (A5) ( <b>LRR</b>	<b>C</b> )	Loamy Gley Depleted Ma		(F2)		Red Parent Material (TF2) Other (Explain in Remarks)			
	ick (A9) (LRR D)	<b>C</b> )	Redox Dark		F6)		Ouie	(Explain in Remarks)		
	d Below Dark Surfac	ce (A11)	Depleted Da	,	,					
	ark Surface (A12)	, ,	Redox Depr				3Indicator	s of hydrophytic vegetation and		
	Mucky Mineral (S1)		Vernal Pools		,		wetland hydrology must be present,			
-	Gleyed Matrix (S4)							disturbed or problematic.		
Restrictive	Layer (if present):									
Type: Ha	rdpacked Earth		<u></u>							
Depth (in	ches): 12						Hydric Soil Present? Yes No✓			
Remarks:	·									
- 6 .										
Refusal a	fter 12.									
HYDROLO	GY									
Wetland Hy	drology Indicators	:								
Primary India	cators (minimum of	one required;	check all that apply	/)			Sec	ondary Indicators (2 or more required)		
Surface	Water (A1)		Salt Crust	(B11)				Water Marks (B1) (Riverine)		
High Wa	High Water Table (A2) Biotic Crust (B12)					Sediment Deposits (B2) (Riverine)				
Saturation (A3) Aquatic Invertebrates (B13)					Drift Deposits (B3) (Riverine)					
Water M	larks (B1) ( <b>Nonrive</b>	rine)	Hydrogen					Drainage Patterns (B10)		
Sedimer	nt Deposits (B2) (No	nriverine)	Oxidized R	hizospher	es along	Living Roof		Dry-Season Water Table (C2)		
	oosits (B3) (Nonrive		Presence of		_	_		Crayfish Burrows (C8)		
✓ Surface	Soil Cracks (B6)	,	Recent Iro	n Reductio	n in Tille	d Soils (C6	)	Saturation Visible on Aerial Imagery (C9)		
	on Visible on Aerial	Imagery (B7)				,		Shallow Aquitard (D3)		
·	tained Leaves (B9)	<b>o</b> , , ,	Other (Exp					FAC-Neutral Test (D5)		
Field Obser										
Surface Wat	er Present?	res N	o <u>√</u> Depth (inc	ches):						
Water Table			o ✓ Depth (inc							
Saturation P			o ✓ Depth (inc				and Hydrolo	gy Present? Yes ✓ No		
(includes cap		1631	o <u> </u>	, iies).		_   ******	ina riyarolo	gy r resent: res <u>v</u> No		
	corded Data (stream	n gauge, mon	itoring well, aerial p	hotos, pre	vious ins	pections), i	if available:			
Remarks:										
Curfoco	oil cracks show	, ovidonos	of notantial	ondin-						
Surface S	oil cracks show	evidence	or horeurial b	Jonaing						

US Army Corps of Engineers Arid West – Version 2.0