Appendix D

Aquatic Resources Delineation



Raley Boulevard Truck Service and Parking Facility Project

Aquatic Resources Delineation Report

May 2024 | 08951.00001.001

Prepared for:

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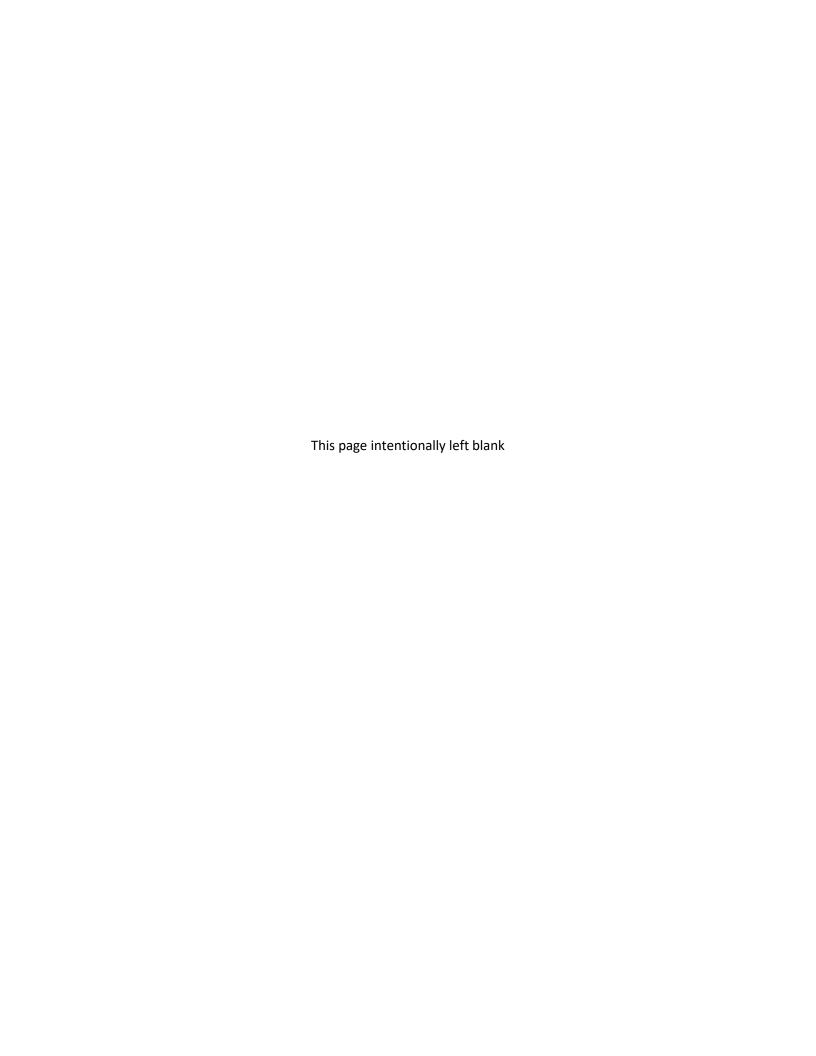


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Acronyms and Abbreviations

amsl above mean sea level

CFR Code of Federal Regulations

CWA Clean Water Act

FAC Facultative plants

FACU Facultative upland plants FACW Facultative wetland plants

HELIX Environmental Planning, Inc.

HUC Hydrologic Unit Code

NRCS Natural Resource Conservation Service

OBL Obligate wetland plants
OHWM ordinary high water mark

RWQCB Regional Water Quality Control Board

SWRCB State Water Resources Control Board

UPL Upland plants

USACE U.S. Army Corps of Engineers

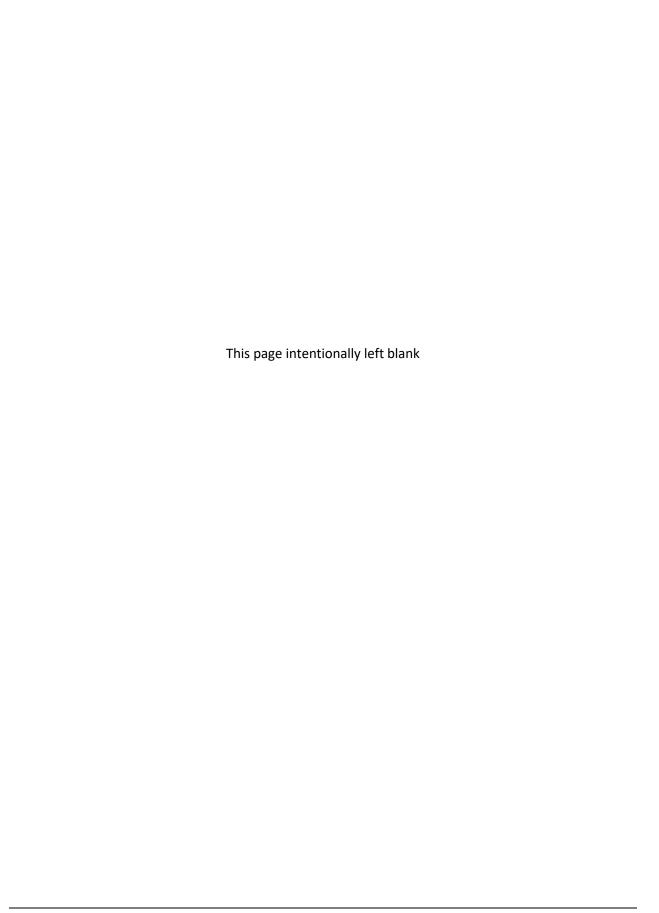
USC United States Code

USDA U.S. Department of Agriculture

USEPA U.S. Environmental Protection Agency

USFWS U.S. Fish and Wildlife Service USGS U.S. Geological Survey

WQC Water Quality Certification



EXECUTIVE SUMMARY

This report presents the results of an aquatic resources delineation within the ±5.96-acre Raley Boulevard Truck Service and Parking Facility Project (Study Area). The Study Area is located at 5221 Raley Boulevard in Sacramento, California, within Assessor's Parcel Number 215-0250-061. The potential presence of aquatic resources was assessed following the technical guidelines provided by the U.S. Army Corps of Engineers (USACE) in the Corps of Engineers Wetlands Delineation Manual (USACE Manual), the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0; Supplement), and the National Ordinary High Water Mark Field Delineation Manual for Rivers and Streams (Interim Version). These technical guidelines present wetland and ordinary high water mark (OHWM) indicators, delineation guidance, and other information that pertain to the Arid West Region.

A total of 0.196 acre of aquatic resources have been delineated in the Study Area which consists entirely of wetlands, as no other waters were observed within the Study Area. Wetlands in the Study Area consist of two seasonal wetlands (0.134 acre total) and one low terrace seasonal wetland (0.062 acre.) Final jurisdictional status of all mapped aquatic resources are subject to agency verification.



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1.0 INTRODUCTION

On behalf of SHK Group, LLC. (Applicant), HELIX Environmental Planning, Inc. (HELIX) has prepared this aquatic resources delineation report in support of the Raley Boulevard Truck Service and Parking Facility Project (project) to delineate potential jurisdictional wetlands and other waters of the U.S. and State on a ±5.96-acre Study Area located in the City of Sacramento, Sacramento County, California. The purpose of this delineation was to identify aquatic resources in the Study Area that would potentially qualify as waters of the U.S. and/or waters of the State. Waters of the U.S. are subject to regulatory jurisdiction by both the U.S. Army Corps of Engineers (USACE) and the applicable Regional Water Quality Control Board (RWQCB). Waters of the State are subject to the jurisdiction of the RWQCB. If present, impacts to aquatic resources would potentially require obtaining permits and authorizations from one or both agencies. The results presented in this document are preliminary and subject to verification by the USACE.

1.1 PROJECT LOCATION

The ±5.96-acre Study Area is located at 5221 Raley Boulevard in Sacramento, California, within Assessor's Parcel Number 215-0250-061. The Study Area is situated in the Del Paso Land Grant, as depicted on the U.S. Geological Survey (USGS) *Rio Linda, CA* 7.5-minute quadrangle map (Appendix A, Figures 1 and 2). The approximate center of the Study Area is at latitude 38.6630521 and longitude -121.4304898, NAD 83, and is located at elevations between 45 and 56 feet (13 to 17 meters) above mean sea level (amsl).

1.2 DRIVING DIRECTIONS

From downtown Sacramento, California, travel onto Interstate 5 (I-5) North. Continue on I-5 North and take exit 522 to merge onto Interstate 80 (I-80). Travel east on I-80 for approximately five miles and take exit 91 for Raley Boulevard/Marysville Road. Turn left onto Raley Boulevard and continue for approximately 1.5 miles until you reach 5221 Raley Boulevard on the left. The Study Area is accessible from Raley Boulevard.

1.3 AGENT CONTACT INFORMATION

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1.4 REGULATORY SETTING

1.4.1 Waters of the U.S.

On May 25, 2023, the U.S. Supreme Court issued a decision in the case of *Sackett v. Environmental Protection Agency* (Supreme Court of the United States 2023) which will ultimately influence how federal waters are defined. The May 25, 2023 Supreme Court decision that "the CWA extends to only those 'wetlands with a continuous surface connection to bodies that are "waters of the U.S." in their own right,' so that they are 'indistinguishable' from those waters." After review, the U.S. Environmental Protection Agency (USEPA) and the U.S. Army Corps of Engineers (USACE) issued a final rule to replace the 2023 rule that amends the Revised Definition of "Waters of the U.S." to conform key aspects of the regulatory text to the U.S. Supreme Court's May 25, 2023 decision in the case of *Sackett v. Environmental Protection Agency*.

Unless considered an exempt activity under Section 404(f) of the Federal Clean Water Act (CWA), any person, firm, or agency planning to alter or work in "waters of the U.S.," including the discharge of dredged or fill material, must first obtain authorization from the USACE under Section 404 of the Clean Water Act (CWA; 33 USC 1344). Permits, licenses, variances, or similar authorization may also be required by other federal, state, and local statutes. Section 10 of the Rivers and Harbors Act prohibits the obstruction or alteration of navigable waters of the U.S. without a permit from USACE (33 USC 403). Activities exempted under Section 404(f) are not exempted within navigable waters under Section 10.

The Clean Water Act (33 United States Code (USC) 1251-1376) provides guidance for the restoration and maintenance of the chemical, physical, and biological integrity of the nation's waters.

Section 401 requires that an applicant for a federal license or permit that allows activities resulting in a discharge to waters of the U.S. obtain a state certification that the discharge complies with other provisions of CWA. The Regional Water Quality Control Board (RWQCB) administers the certification program in California and may require State Water Quality Certification before other permits are issued.

Section 402 establishes a permitting system for the discharge of any pollutant (except dredged or fill material) into waters of the U.S.

Section 404 establishes a permit program administered by USACE that regulates the discharge of dredged or fill material into waters of the U.S. (including wetlands). Implementing regulations by USACE are found at 33 CFR Parts 320-332. The Section 404 (b)(1) Guidelines were developed by the USEPA in conjunction with USACE (40 CFR Part 230), allowing the discharge of dredged or fill material for non-water dependent uses into special aquatic sites only if there were no practicable alternative that would have less adverse impacts.

1.4.2 Waters of the State

Any action requiring a CWA Section 404 permit, or a Rivers and Harbors Act Section 10 permit, must also obtain a CWA Section 401 Water Quality Certification. The State of California Water Quality Certification (WQC) Program was formally initiated by the State Water Resources Control Board (SWRCB) in 1990 under the requirements stipulated by Section 401 of the Clean Water Act. Although the Clean Water Act is a federal law, Section 401 of the CWA recognizes that states have the primary authority and responsibility for setting water quality standards. In California, under Section 401, the State and



Regional Water Boards are the authorities that certify that issuance of a federal license or permit does not violate California's water quality standards (i.e., that they do not violate Porter-Cologne and the Water Code). The WQC Program currently issues the WQC for discharges requiring USACE permits for fill and dredge discharges within Waters of the United States, and now also implements the State's wetland protection and hydromodification regulation program under the Porter-Cologne Water Quality Control Act.

On May 28, 2020, the SWRCB implemented the State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State (Procedures) for inclusion in the forthcoming Water Quality Control Plan for Inland Surface Waters and Enclosed Bays and Estuaries and Ocean Waters of California (SWRCB 2019). The Procedures consist of four major elements:

- I. A wetland definition;
- II. A framework for determining if a feature that meets the wetland definition is a water of the state;
- III. Wetland delineation procedures; and,
- IV. Procedures for the submittal, review, and approval of applications for Water Quality Certifications and Waste Discharge Requirements for dredge or fill activities.

Under the Procedures and the State Water Code (Water Code §13050(e)), "waters of the State" are defined as "any surface water or groundwater, including saline waters, within the boundaries of the state." "Waters of the State" includes all "waters of the U.S."

More specifically, a wetland is defined as: "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 wetland definition encompasses the full range of wetland types commonly recognized in California, including some features not protected under federal law, and reflects current scientific understanding of the formation and functioning of wetlands (SWRCB 2019).

Unless excluded by the Procedures, any activity that could result in discharge of dredged or fill material to waters of the State, which includes waters of the U.S. and non-federal waters of the State, requires filing of an application under the Procedures.

2.0 ENVIRONMENTAL SETTING

2.1 EXISTING CONDITIONS

The Study Area is located on a vacant lot and is surrounded by industrial and residential development, as well as undeveloped land. The majority of the site was disked at the time of the site assessment on March 26, 2024, and the disturbance appeared to be recent as disked vegetation was still green. Evidence of additional disturbance was also observed in the Study Area in the form of compacted soil and imported gravel. Aerial imagery indicates the site has been disked/mowed consistently at least since 2002 (Google Earth 2024). Several old concrete foundations and structures are present onsite and



historic imagery indicates buildings were present onsite in the 1960s but were demolished by the 1980s (Historic Aerials 2024). The Study Area is currently a vacant lot dominated by non-native plant species. Several aquatic resources were mapped within the Study Area. An aerial image of the Study Area is included in Appendix A, Figure 3.

2.2 FIELD CONDITIONS

Fieldwork for this aquatic resources delineation was conducted on March 26, 2024. Weather during the site visit was dry, partly cloudy, and cool, with temperatures ranging between 58 and 64 degrees Fahrenheit.

2.3 INTERSTATE OR FOREIGN COMMERCE CONNECTION

The Study Area is in the Lower American watershed (USGS Hydrologic Unit Code [HUC8] 18020111). Magpie Creek and the constructed canal adjacent to the Study Area drain to Rio Linda Creek, which is tributary to the Sacramento River, a traditional navigable waters of the U.S. However, aquatic resources in the Study Area do not cross state boundaries nor are they used for foreign commerce.

3.0 METHODS

3.1 DATA GATHERING

The following sources were used in preparation of this jurisdictional delineation:

- Aerial photography taken April 12, 2022, downloaded from Esri®;
- U.S. Fish and Wildlife Service's (USFWS) National Wetland Inventory online wetland mapper (USFWS 2024);
- Natural Resources Conservation Service (NRCS) web soil survey (NRCS 2024a);
- Corps of Engineers Wetlands Delineation Manual (USACE 1987);
- Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0; USACE 2008);
- Field Indicators of Hydric Soils in the United States (Version 8.2; NRCS 2018); and
- USACE 2020 National Wetland Plant List for the Arid West (USACE 2020).

3.2 BOUNDARIES OF THE DELINEATION

The delineation area includes the estimated 5.96-acre Study Area (Appendix B, *Aquatic Resources Delineation Map*). Refer to this map for the limits of the delineation.



3.3 DETERMINATION PROCEDURES

3.3.1 Delineation Methods

Criteria for determining the presence of wetlands or other waters subject to USACE jurisdiction are presented in the USACE Wetlands Delineation Manual (USACE 1987), the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0; USACE 2008), and the National Ordinary High Water Mark Field Delineation Manual for Rivers and Streams (Interim Version; USACE 2022).

Key criteria for determining the presence of wetlands subject to USACE jurisdiction (USACE 1987) are:

- a) The presence of inundated or saturated soil conditions resulting from permanent or periodic inundation by ground water or surface water.
- b) A prevalence of vegetation typically adapted for life in saturated soil conditions (hydrophytic vegetation).

To assess whether wetlands are present, USACE requires that data be recorded on three environmental parameters: hydrology, soil, and vegetation. Positive wetland indicators for all three parameters are generally required for USACE to assert jurisdiction.

Fieldwork for the jurisdictional delineation was conducted by HELIX biologists Christine Gonzalez and Patrick Martin on March 26, 2024, in accordance with the USACE Wetlands Delineation Manual (USACE 1987), the Regional Supplement to the USACE Wetland Delineation Manual: Arid West (Version 2.0; USACE 2008), and the National Ordinary High Water Mark Field Delineation Manual for Rivers and Streams (Interim Version; USACE 2022). Vegetation, soils, and hydrologic characteristics were visually assessed by conducting meandering transects through the entire Study Area to obtain 100 percent visual coverage.

Plant species identifiable at the time of the survey were recorded in the field and are included in Appendix C of this report. Plants observed within the Study Area were categorized with the wetland indicator status for each species, as shown in Table 1.

Table 1
WETLAND INDICATOR STATUS RATING

Indicator Status (abbreviation)	Characterization
Obligate (OBL)	Almost always occur in wetlands
Facultative Wetland (FACW)	Usually occur in wetlands, but may occur in non-wetlands
Facultative (FAC)	Occur in wetlands and non-wetlands
Facultative Upland (FACU)	Usually occur in non-wetlands, but may occur in wetlands
Upland (UPL)	Almost never occur in wetlands

The Munsell Color chart (Gretag Macbeth 2000) was used to determine moist soil colors and thus, hydric soils, if present. Data was taken at 11 representative sample points throughout the Study Area to classify the site's soils, vegetation, and hydrologic characteristics. Wetland determination data forms are provided in Appendix D.



Geographic coordinates of aquatic resources boundaries and locations of sample points were recorded in the field with an electronic tablet wirelessly connected to a Juniper Geode® (Global Navigation Satellite System [GNSS]) receiver unit with sub-meter accuracy. These data were exported into ArcGIS Pro 3.1.2® and used to produce the Aquatic Resources Delineation Map included as Appendix B. Representative photographs of the Study Area, and the associated sampling locations, are included as Appendix E.

3.3.2 Plant/Habitat Nomenclature

Habitat nomenclature is generally derived from *A Guide to Wildlife Habitats of California* (Mayer and Laudenslayer 1988). Plant nomenclature is taken from The Jepson Manual: Vascular Plants of California, second edition (Baldwin et al. 2012).

4.0 RESULTS

4.1 VEGETATION COMMUNITIES/HABITAT TYPES

Two upland biological communities occur in the Study Area, non-native annual grassland and low terrace.

4.1.1 Non-Native Annual Grassland

Non-native annual grassland habitats are open grasslands composed primarily of non-native annual plant species. Species of grasses are the predominant component within this habitat type, with herbaceous plant species also present to varying degrees. Many of these species also occur as understory plants in oak woodland and other habitats. Structure in non-native annual grasslands depends largely on weather patterns and livestock grazing; dramatic differences in physiognomy, both between seasons and between years, are characteristic of this habitat. Introduced annual grasses are typically the dominant plant species in this habitat (Garrison et al. 1977). Approximately 5.62 acres of non-native annual grassland habitat occurs in the Study Area.

Dominant plant species observed within this habitat type during the field survey include Italian ryegrass (Festuca perennis) (FAC), wild oats (Avena fatua) (NI), prickly lettuce (Lactuca serriola) (FACU), rattail sixweeks grass (Festuca myuros) (NI), and wild radish (Raphanus sativus) (NI).

4.1.2 Low Terrace

Low terrace areas are low-lying grounds adjacent to waterways that are subjected to periodic flooding. Historic natural movements of waterways can shape the landscape and floodplains and terraces are usually formed through these processes. Water may accumulate for short or long periods of time and the characteristics of the floodplain will be shaped by the duration and extent of flooding. The low terrace habitat is present in the southwest corner of the Study Area and is visible on aerial imagery (Google Earth 2024). A slope occurs along the low terrace, likely preventing flooding into the northern portion of the Study Area. A vertical drain was observed in the low terrace area just outside of the southwest corner of the Study Area and likely drains the area when flooded. This portion of the low terrace contained mostly facultative and upland vegetation, but evidence of hydric soils or wetland hydrology were not observed (DP-3 and DP-4). This area appears to flood on occasion but is drained before anaerobic conditions can form and is considered upland habitat. Approximately 0.14 acre of low



terrace occurs in the Study Area. Dominant plant species observed within this habitat type during the field survey include Italian ryegrass (FAC) and wild radish (NI).

4.2 CLIMATE

The climate of Sacramento County is Mediterranean, characterized by wet, cool winters and dry, hot summers. The nearest weather station to the Study Area with sufficient data to generate 30-year average precipitation values is located at the Sacramento 5 ESE Station near Sacramento State University, approximately 8 miles south of the Study Area. Average daily maximum and minimum temperatures are 82° and 55° Fahrenheit (F) in July and 57° and 42° F in January. The mean annual precipitation is 19.20 inches, with 100 percent occurring as rain from September to May. This weather station received approximately 14.93 inches of rainfall from October 1, 2024 to March 26, 2024, which approximately 75% of the average annual rainfall for the area (NRCS 2024a).

4.3 SOILS

The NRCS has mapped two soil units within the Study Area: Hicksville loam, 0 to 2 percent slopes, occasionally flooded and San Joaquin fine sandy loam, 0 to 3 percent slopes (Appendix A, Figure 4). The general characteristics and properties associated with these soil types are described below.

- Hicksville loam, 0 to 2 percent slopes, occasionally flooded: This soil unit has a parent material of alluvium and is typical of terraces and hills. A general soil profile is loam (0-13 inches), clay loam (13-43 inches), and sandy clay loam (43-64 inches). This soil unit is moderately well drained, has a medium runoff class, occasional flooding frequency, and no frequency of ponding. Minor components of this soil unit are considered hydric (NRCS 2024b).
- San Joaquin fine sandy loam, 0 to 3 percent slopes: This soil unit has a parent material of alluvium derived from granite and is typical of terraces. A general soil profile is fine sandy loam (0-13 inches), sandy clay loam (13-30 inches), clay loam (30-35 inches), indurated (35-60 inches), and stratified sandy loam to loam (60-67 inches). This soil unit is moderately well drained, has a high runoff class, and no frequency of flooding or ponding (NRCS 2024b).

4.4 HYDROLOGY

The Study Area is in the Lower American watershed (USGS Hydrologic Unit Code [HUC8] 18020111). Two aquatic features were observed in the northern portion of the Study Area and a low area indicative of seasonal wetlands peripheral to linear drainages intersects with the southern portion of the Study Area. The southern portion of the Study Area is sloped, with the lower portion of the slope occurring within a low terrace area. Magpie Creek is present just south of the Study Area and flows into a constructed canal that runs north along the western boundary of the Study Area. This canal continues north and flows into Rio Linda Creek. Rio Linda Creek is a tributary to the Natomas Ditch and Steelhead Creek, which drain directly to the Sacramento River, a traditional navigable water.



4.5 USFWS NATIONAL WETLANDS INVENTORY

The USFWS National Wetlands Inventory (NWI) online database was reviewed to determine if there are any wetlands or other waters of the U.S. mapped by the USFWS in the Study Area or vicinity. The National Wetlands Inventory does not identify any aquatic features within the Study Area. However, the NWI depicts riverine habitat along the western portion of the Study Area and freshwater emergent wetland habitat to the south and east of the Study Area along Magpie Creek (Appendix A, Figure 5).

5.0 AQUATIC RESOURCES

As depicted in Table 2, a total of 0.196 acre of aquatic resources have been delineated in the Study Area which consists of two seasonal wetlands and one low terrace seasonal wetland (Appendix B).

Table 2
AQUATIC RESOURCES IN THE STUDY AREA

Feature	Latitude/Longitude	Cowardin Classification ¹	Area (ac.)	Area (sq. ft.)
Wetlands ²				
SW-1	38.663536 / -121.429966	PEM1A	0.094	4,094.64
SW-2	38.663611 / -121.430480	PEM1As	0.040	1,742.40
LTSW-1	38.662404 / -121.429898	PEM1As	0.062	2,700.72
		Total Aquatic Resources	0.196	8,537.76

Cowardin Codes for Wetlands: System (P = palustrine); Class (EM = emergent); Subclass (1 = persistent); Water Regime (A = temporarily flooded); Special Modifiers (s = spoils)

ac = acre; sq. ft. = square feet

Seasonal Wetland

A total of 0.134 acre of seasonal wetlands were mapped within the Study Area, consisting of two seasonal wetlands. Seasonal wetlands collect surface runoff from surrounding terrain and are shallow depressions that stay inundated for a long enough duration to form hydric soil and support a dominance of hydrophytic vegetation. Hydrophytic vegetation observed in the seasonal wetlands within the Study Area at the time of this aquatic resources delineation included Italian ryegrass (*Festuca perennis*) (FAC), Mediterranean barley (*Hordeum marinum*) (FAC), hyssop loosestrife (*Lythrum hyssopifolia*) (OBL), and stalked popcorn flower (*Plagiobothrys stipitatus*) (FACW). Two hydric soil indicators were observed in the seasonal wetlands within the Study Area, including a depleted matrix and redox dark surface indicators. Wetland hydrology indicators included saturation and biotic crust. Both seasonal wetlands within the Study Area are isolated features and lack connection to other aquatic resources.

Low Terrace Seasonal Wetland

Low terrace areas are low-lying grounds adjacent to waterways that are subjected to periodic flooding. Historic natural movements of waterways can shape the landscape and floodplains and terraces are usually formed through these processes. Water may accumulate for short or long periods of time and the characteristics of the floodplain will be shaped by the duration and extent of flooding. The low terrace seasonal wetland is present in the southern portion of the Study Area and is visible on aerial imagery (Google Earth 2024). A slope occurs along the low terrace, likely to prevent flooding into the



northern portion of the Study Area. The southeast corner of the Study Area contains wetland vegetation, and hydric soils and drift deposits were observed (DP-1). No drain or culvert was observed in this area and water appears to accumulate for sufficient periods to create wetland conditions. This area appears to occasionally flood from Magpie Creek, a tributary to the Sacramento River, which is a traditional navigable water, but does not appear to maintain a continuous direct surface connection. Approximately 0.062 acre of low terrace seasonal wetland was mapped in the Study Area. Dominant plant species observed within this habitat type during the field survey include Italian ryegrass (FAC), curly dock (FAC), and English plantain (FAC).

6.0 SUMMARY

HELIX conducted an aquatic resources delineation of the ±5.96-acre Study Area for the Raley Boulevard Truck Service and Parking Facility Project located at 5221 Raley Boulevard in Sacramento, California, within Assessor's Parcel Number 215-0250-061. A total of 0.196 acre of aquatic resources have been delineated in the Study Area. Mapped aquatic resources include two seasonal wetlands (0.134 acre), and one low terrace seasonal wetland (0.062 acre). The jurisdictional status of all mapped aquatic resources within the Study Area are subject to agency verification.



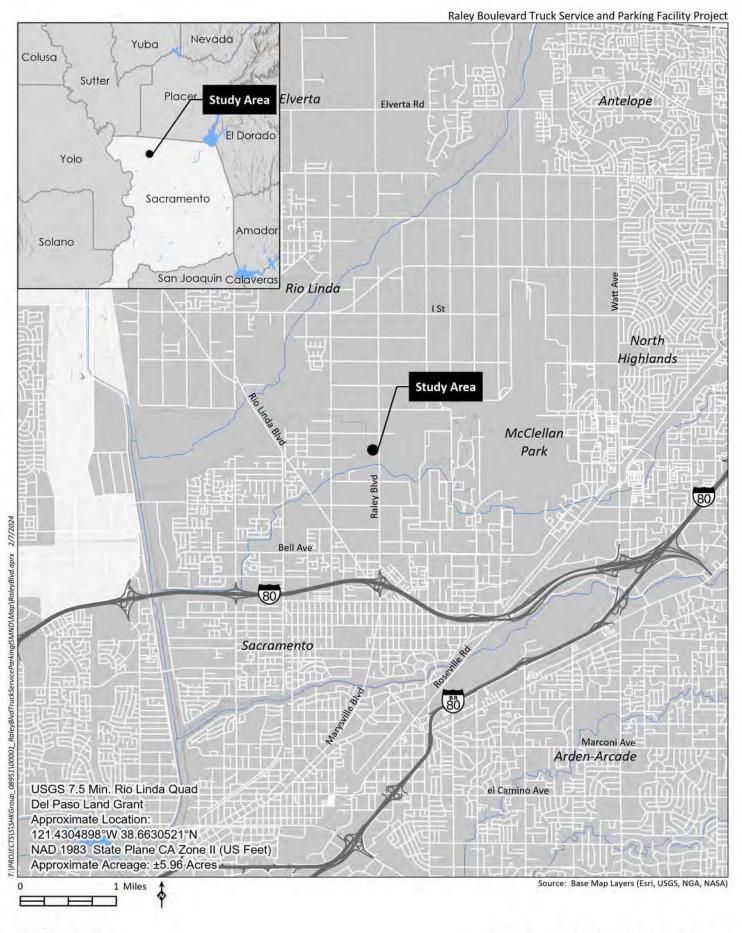
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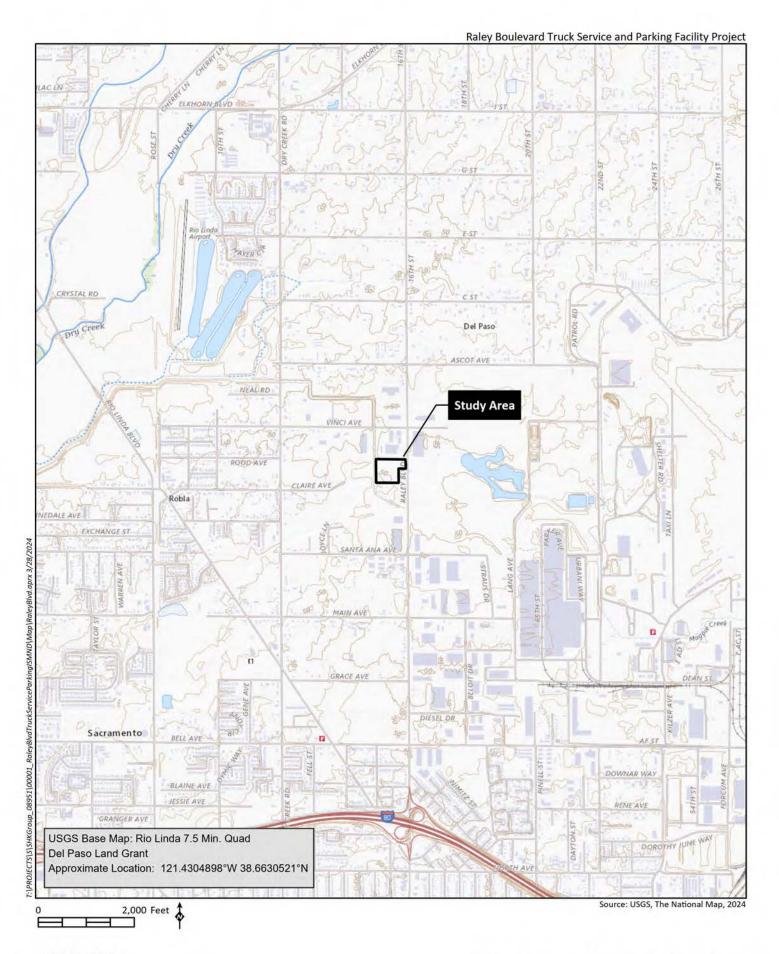


Appendix A

Figures









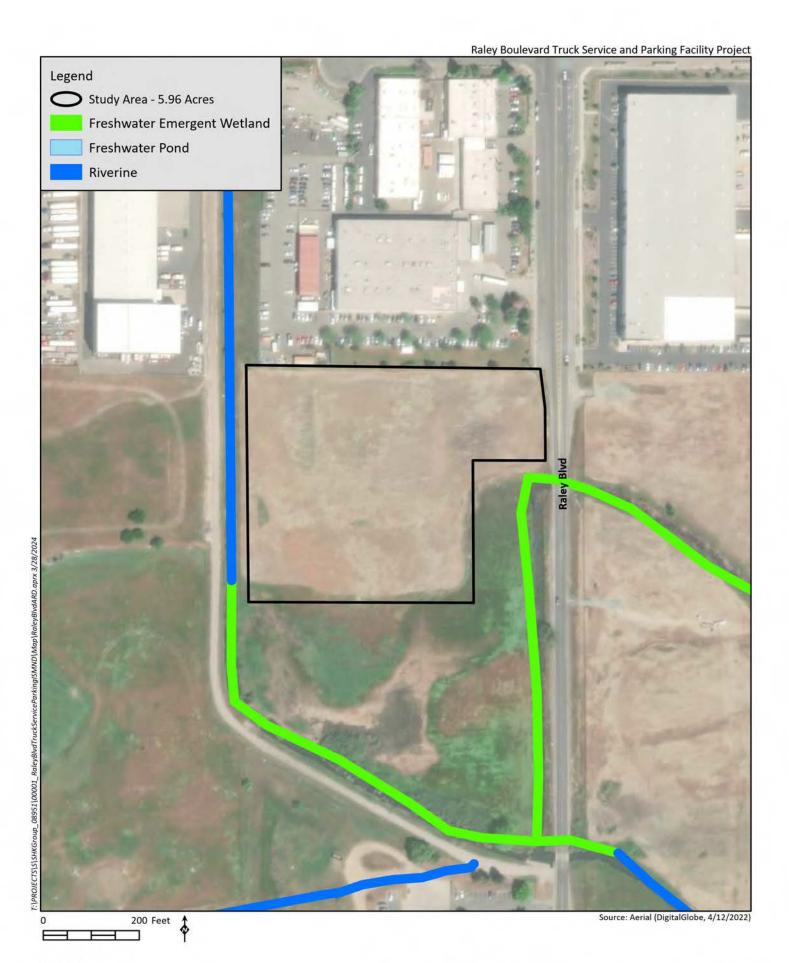
Raley Boulevard Truck Service and Parking Facility Project Legend Study Area - 5.96 Acres Raley Blvd T.\PROJECTS\S\SHKGroup_08951\00001_RaleyBlvdTruckServiceParkingISMND\Map\RaleyBlvd.aprx 3/28/2024 Source: Aerial (DigitalGlobe, 4/12/2022) 150 Feet

HELIX
Environmental Planning

Aerial Map

Raley Boulevard Truck Service and Parking Facility Project Legend Study Area - 5.96 Acres 158 - Hicksville loam, 0-2% slopes, occasionally flooded 211 - San Joaquin fine sandy loam, 0-3% slopes Raley Blvd 211 T:\PROJECTS\S\SHKGroup_08951\00001_RaleyB\vdTruckServiceParkingISMND\Map\RaleyB\vd.aprx 3/28/2024 158 158 Source: NRCS, 2024; Aerial (DigitalGlobe, 4/12/2022) 150 Feet

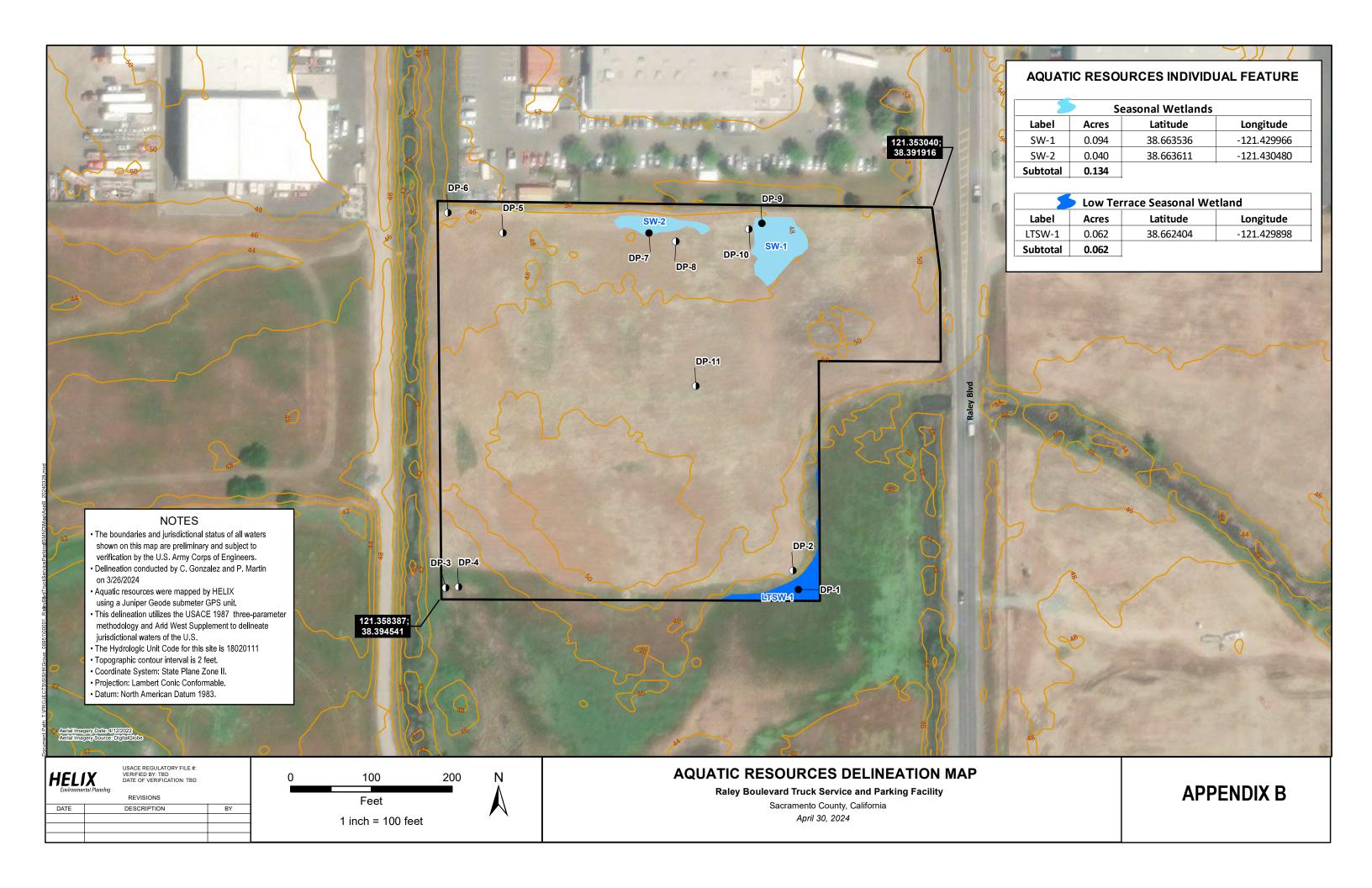






Appendix B

Aquatic Resources Delineation Map



Appendix C

Plant Species Observed in the Study Area

Family	Scientific Name	Common Name	Rating ¹
Native		•	
Boraginaceae	Plagiobothrys stipitatus	stalked popcorn flower	FACW
Euphobiaceae	Croton setiger	turkey-mullein	NI
Fabaceae	Lupinus bicolor	miniature lupin	NI
Juncaceae	Juncus bufonius	toad rush	FACW
Onagraceae	Epilobium brachycarpum	annual fireweed	FAC
Ranunculaceae	Ranunculus bonariensis var. trisepalus	vernal pool buttercup	FACW
Themidaceae	Triteleia hyacinthina	white brodiaea	FAC
Non-native		•	
Asteraceae	Centaurea solstitialis	yellow starthistle	NI
	Cichorium intybus	chicory	FACU
	Hypochaeris glabra	smooth cat's ear	NI
	Lactuca serriola	prickly lettuce	FACU
Brassicaceae	Brassica nigra	black mustard	NI
	Cardamine hirsuta	hairy bittercress	FACU
	Raphanus sativus	wild radish	NI
Fabaceae	Medicago polymorpha	bur clover	FACU
	Trifolium hirtum	rose clover	NI
	Vicia sativa	common vetch	FACU
Geraniaceae	Erodium botrys	big heron bill	FACU
	Geranium dissectum	wild geranium	NI
Lythraceae	Lythrum hyssopifolia	hyssop loosestrife	OBL
Poaceae	Avena fatua	wild oats	NI
	Briza minor	little rattlesnake grass	FAC
	Bromus diandrus	ripgut brome	NI
	Elymus caput-medusae	medusahead	NI
	Festuca perennis	Italian ryegrass	FAC
	Festuca myuros	rattail sixweeks grass	NI
	Hordeum marinum	Mediterranean barley	FAC
Plantagaceae	Plantago lanceolata	English plantain	FAC
Polygonaceae	Rumex crispus	curly dock	FAC
	Rumex pulcher	fiddle dock	FAC
Ranunculaceae	Ranunculus muricatus	spiny-fruit buttercup	FACW
Rosaceae	Rubus armeniacus	Himalayan blackberry	FAC
Solanaceae	Solanum elaeagnifolium	silverleaf nightshade	NI

¹ FAC – facultative; FACU – facultative upland; FACW – facultative wetland; OBL – obligate; UPL – upland; NI – reviewed but given no regional indicator

Scientific and common names from: Baldwin, B.G., D.H. Goldman, D.J. Keil, R. Patterson, T.J. Rosatti, D.H. Wilken, Editors. 2012. The Jepson Manual: Vascular Plants of California, second edition. University of California Press, Berkley or U.S. Army Corps of Engineers Cold Regions Research and Engineering Laboratory, *Arid West 2020 Regional Wetland Plant List* (USACE 2020)



Appendix D

Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Raley Blvd Truck Service And Parking Faci	lity	City/Count	y: Sacrame	nto County	_ Sampling Date:3/26/2024
Applicant/Owner: SHK Group, LLC				State: CA	_ Sampling Point:1
Investigator(s): C. Gonzalez, P. Martin		Section, T	ownship, Ra	_{nge:} <u>Del Paso Land G</u> i	rant within the Rio Linda Quad
Landform (hillslope, terrace, etc.): Terrace		Local relie	ef (concave,	convex, none): Concav	e Slope (%): 0-3
Subregion (LRR): Mediterranean California (LRR C)					
Soil Map Unit Name: Hicksville loam, 0-3% slopes, occa				NWI classif	
Are climatic / hydrologic conditions on the site typical for this	time of ve	ar? Yes	,		
Are Vegetation, Soil, or Hydrology si	-				present? Yes ✓ No
Are Vegetation, Soil, or Hydrology na	aturally pro	blematic?	(If ne	eded, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	showing	sampli	ng point l	ocations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No.)				
Hydric Soil Present? Yes ✓ No)		he Sampled hin a Wetlar		√ No
Wetland Hydrology Present? Yes V		WIL	nin a vveuar	id? Yes	No
Remarks:					
Datapoint is situated in a low terrace flood the area appears to occasionally flood from				l criteria. Drift de _l	oosits were visible and
VEGETATION . He are instiffed as a second of plant					
VEGETATION – Use scientific names of plant				· · · · · · · · · · · · · · · · · · ·	
Tree Stratum (Plot size: 1 x 1 meter			nt Indicator Status	Dominance Test wor Number of Dominant	
1				That Are OBL, FACW	
2				Total Number of Domi	inant
3				Species Across All Str	4
4				Percent of Dominant S	Species
Sapling/Shrub Stratum (Plot size: 1 x 1 meter		_ = Total C	over	That Are OBL, FACW	, or FAC:100% (A/B)
1			_	Prevalence Index wo	orksheet:
2				Total % Cover of:	Multiply by:
3				OBL species	x 1 =
4					x 2 =
5				1	x 3 =
Herb Stratum (Plot size: 1 x 1 meter	-	_ = Total C	over		x 4 =
1. Festuca perennis	85	Υ	FAC	UPL species	
2. Rumex crispus	5	N	FAC	Column Totals:	(A) (B)
3. Plantago lanceolata	15	N	FAC	Prevalence Inde	x = B/A =
4				Hydrophytic Vegetat	ion Indicators:
5				<u>✓</u> Dominance Test is	
6				Prevalence Index	
7				Morphological Ad	aptations ¹ (Provide supporting ks or on a separate sheet)
8					ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	105	_ = Total C	over		op.i.j.io vogotation (=/ip/a.i./)
1					oil and wetland hydrology must
2.				be present, unless dis	turbed or problematic.
		= Total C	over	Hydrophytic	
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust		Vegetation Present? Y	es No
Remarks:				11000111.	<u> </u>
Sampling location meets the criteria for hyd	dronhy+	ic veget	ation		
Sampling location meets the criteria for hyd	агорпус	ic veget	ation.		

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SOIL Sampling Point: 1

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

Depth	Matrix			dox Featu		. 2		5		
(inches)	Color (moist)	%	Color (moist)	%	Type'		<u>Texture</u>	Remarks		
0-6	7.5YR 3/2	93	7.5YR 3/4	7	<u>C</u>	<u>M</u>	_ <u>L</u>	Loam		
6-14	7.5YR 3/3	95	7.5YR 3/4				ClLo	Clay loam		
		_	1=Reduced Matrix,			ted Sand (ocation: PL=Pore Lining, M=Matrix.		
-		licable to al	I LRRs, unless oth		oted.)			ors for Problematic Hydric Soils ³ :		
Histoso	Epipedon (A2)		Sandy Re	edox (S5) Matrix (S6	`			n Muck (A9) (LRR C) n Muck (A10) (LRR B)		
	listic (A3)			ucky Mine				luced Vertic (F18)		
	en Sulfide (A4)			leyed Matı				Parent Material (TF2)		
	ed Layers (A5) (LR I	R C)		Matrix (F3				er (Explain in Remarks)		
	luck (A9) (LRR D)	/	✓ Redox Da					(,p.a)		
Deplete	ed Below Dark Surf	ace (A11)	Depleted	Dark Surf	ace (F7)					
	ark Surface (A12)			epressions	s (F8)		³ Indicato	ors of hydrophytic vegetation and		
	Mucky Mineral (S1	•	Vernal Po	ools (F9)				nd hydrology must be present,		
	Gleyed Matrix (S4)						unless	s disturbed or problematic.		
	Layer (if present)	:								
Type:								11 D 10 14 14 14		
Depth (ir	ncnes):						Hydric S	oil Present? Yes No		
YDROLO	OGY									
	drology Indicator	rs:								
Primary Ind	icators (minimum c	of one require	ed; check all that ap	ply)			Sec	condary Indicators (2 or more required)		
Surface	e Water (A1)		Salt Cru	st (B11)			_	Water Marks (B1) (Riverine)		
High W	ater Table (A2)		Biotic C	rust (B12)			Sediment Deposits (B2) (Riverine)			
Saturat	ion (A3)		Aquatic	Invertebra	ites (B13)		Drift Deposits (B3) (Riverine)			
	Marks (B1) (Nonriv	•	Hydroge					Drainage Patterns (B10)		
	ent Deposits (B2) (I					-		Dry-Season Water Table (C2)		
	eposits (B3) (Nonri	verine)			ced Iron (0			Crayfish Burrows (C8)		
	e Soil Cracks (B6)					led Soils (C	C6)	Saturation Visible on Aerial Imagery (C9)		
	tion Visible on Aeria			ck Surface				Shallow Aquitard (D3)		
	Stained Leaves (B9	9)	Other (E	xplain in F	Remarks)			FAC-Neutral Test (D5)		
Field Obse		Var	No. 4 5 "	(in al ·)						
	iter Present?		No ✓ Depth							
Water Table			No <u>√</u> Depth				411 1111	Duranto Var de Na		
	apillary fringe)		No Depth	, _				ogy Present? Yes No		
Describe R	ecorded Data (strea	am gauge, m	nonitoring well, aeria	al photos,	previous ir	nspections), if available:			
Remarks:										
Drift den	osits visible a	t and aro	und sampling	location	n. Samp	ling loca	ation appe	ears to occasionally flood from		
	Aagpie Creek.	c and and	and Jumping		Junip	6 1000	acion appe	a.s to occasionary mood from		
	- OF COM									

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Raley Blvd Truck Service And Parking Faci	lity (City/County	: Sacrame	nto County	Sampling Date: 3/26/2024
Applicant/Owner: SHK Group, LLC				State: CA	Sampling Point: 2
Investigator(s): C. Gonzalez, P. Martin					
• , , -			•	-	Slope (%): 0-3
Subregion (LRR): Mediterranean California (LRR C)					
Soil Map Unit Name: Hicksville loam, 0-3% slopes, occas					
Are climatic / hydrologic conditions on the site typical for this			,		
Are Vegetation, Soil, or Hydrology si					present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology na	aturally pro	blematic?	(If ne	eded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	howing	samplin	g point le	ocations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes No	· ·	1- 41-	0 11	A	
Hydric Soil Present? Yes No			ie Sampled iin a Wetlan		No ✓
Wetland Hydrology Present? Yes No		WILL	iii a vvetiai	iu: les	NO
Remarks:					
Datapoint is on a constructed berm adjacer Datapoint is located solely in upland habita		w terra	ce floodp	olain that meets wo	etland criteria.
VEGETATION – Use scientific names of plant	s.				
1 11 1 200401		Dominant		Dominance Test work	(sheet:
		Species?		Number of Dominant S	pecies
1				That Are OBL, FACW,	or FAC:1 (A)
2				Total Number of Domir	
3				Species Across All Stra	ata: <u>2</u> (B)
		= Total Co		Percent of Dominant S That Are OBL, FACW,	
Sapling/Shrub Stratum (Plot size: 1 x 1 meter)					(132)
1				Prevalence Index wor	
2					Multiply by:
3					x 1 = x 2 =
4					x 3 = 135
5		= Total Co		·	x 4 = 20
Herb Stratum (Plot size: 1 x 1 meter		- Total Co	IVEI		x 5 = 265
1. Festuca perennis	45	Υ	FAC	Column Totals: 10	
2. Raphanus sativus	30	Y	NI		
3. Geranium dissectum	3	N	NI	Prevalence Index	x = B/A =4.08
4. Brassica nigra	20	N	NI	Hydrophytic Vegetati	
5. Cichorium intybus	5	N	FACU	Dominance Test is	
6				Prevalence Index i	
7					aptations ¹ (Provide supporting as or on a separate sheet)
8					ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	103	= Total Co	ver		
1				¹ Indicators of hydric so	il and wetland hydrology must
2.				be present, unless dist	urbed or problematic.
		= Total Co	ver	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover	of Biotic Cr	ust			es No/
Remarks:				•	
Sampling location does not meet the criteri	ia for hy	drophyt	ic vegeta	ntion and is domina	ated by upland species.

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SOIL Sampling Point: 2

	cription: (Describe	to the dept				or confirm	n the absence	e of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Redo	ox Feature %	Type ¹	Loc ²	Texture	Remarks		
0-14	7.5YR 3/4	100	COIOI (IIIOISI)	/0	Type	LUC	SaL	Sandy loam		
0-14	7.511(3/4	_ 100					Jac	Sandy Idam		
-							-			
							'			
				_						
-	· -	 .						· ———		
	· -									
	-									
	Concentration, D=De					d Sand G		ocation: PL=Pore Lining, M=Matrix.		
-	Indicators: (Applie	cable to all l			ed.)			s for Problematic Hydric Soils ³ :		
Histoso	` '		Sandy Red					Muck (A9) (LRR C)		
	Epipedon (A2)		Stripped M	. ,	1 (54)			Muck (A10) (LRR B)		
	listic (A3) en Sulfide (A4)		Loamy Mu	-				ced Vertic (F18)		
	ed Layers (A5) (LRR	C)	Loamy Gle Depleted M	-	(FZ)			Parent Material (TF2) (Explain in Remarks)		
	uck (A9) (LRR D)	C)	Redox Dar		(F6)		Other	(Explain in Kemarks)		
	ed Below Dark Surfa	ce (A11)	Depleted D		` ,					
	ark Surface (A12)	,	Redox Dep				³ Indicators	s of hydrophytic vegetation and		
Sandy l	Mucky Mineral (S1)		Vernal Poo	ls (F9)			wetland	hydrology must be present,		
Sandy	Gleyed Matrix (S4)						unless	disturbed or problematic.		
Restrictive	Layer (if present):									
Type:										
Depth (ir	nches):						Hydric Soi	I Present? Yes No _ ✓		
Remarks:										
	such as gravel			3011 TIU3	a strain	Se silie		hydrogen sulfide). Some fill		
HYDROLO	OGY									
Wetland Hy	drology Indicators	:								
Primary Indi	icators (minimum of	one required	; check all that app	ly)			Seco	ndary Indicators (2 or more required)		
Surface	e Water (A1)		Salt Crust	t (B11)			\	Nater Marks (B1) (Riverine)		
High W	ater Table (A2)		Biotic Cru	st (B12)			5	Sediment Deposits (B2) (Riverine)		
Saturat	ion (A3)		Aquatic Ir	vertebrate	es (B13)		Drift Deposits (B3) (Riverine)			
Water N	Marks (B1) (Nonrive	rine)	Hydrogen	Sulfide O	dor (C1)		[Orainage Patterns (B10)		
Sedime	ent Deposits (B2) (No	onriverine)	Oxidized	Rhizosphe	res along	Living Ro	ots (C3) [Dry-Season Water Table (C2)		
Drift De	eposits (B3) (Nonrive	erine)	Presence	of Reduce	ed Iron (C4	1)	(Crayfish Burrows (C8)		
Surface	e Soil Cracks (B6)		Recent Ire	on Reducti	ion in Tille	d Soils (Ce	6) 5	Saturation Visible on Aerial Imagery (C9)		
Inundat	tion Visible on Aerial	Imagery (B7) Thin Mucl	k Surface	(C7)		5	Shallow Aquitard (D3)		
Water-S	Stained Leaves (B9)		Other (Ex	plain in Re	emarks)		F	FAC-Neutral Test (D5)		
Field Obse	rvations:									
Surface Wa	ter Present?	Yes N	No <u>✓</u> Depth (ir	nches):		_				
Water Table	e Present?	Yes N	No <u>✓</u> Depth (ir	nches):		_				
	pillary fringe)		No Depth (ir					gy Present? Yes No/		
Describe Re	ecorded Data (strear	n gauge, mo	nitoring well, aerial	pnotos, pr	evious ins	pections),	ır avallable:			
Remarks:	_				_					
No evide	nce of wetland	l hydrolog	gy observed at	sampli	ng loca	tion.				

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Raley Blvd Truck Service And Parking Facility C	ity/County: Sacramento County Sampling Date: 3/26/2024
Applicant/Owner: SHK Group, LLC	State: <u>CA</u> Sampling Point: <u>3</u>
Investigator(s): C. Gonzalez, P. Martin	ection, Township, Range: Del Paso Land Grant within the Rio Linda Quad
Landform (hillslope, terrace, etc.): Terrace L	ocal relief (concave, convex, none): Convex Slope (%): 0-3
Subregion (LRR): Mediterranean California (LRR C) Lat: 38.6	62387 Long: -121.431367 Datum: NAD 83
Soil Map Unit Name: Hicksville loam, 0-3% slopes, occasionally flo	oded NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly d	isturbed? Are "Normal Circumstances" present? Yes ✓ No
Are Vegetation, Soil, or Hydrology naturally prob	lematic? (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	In the Complet Area
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	Within a Wetland: 165 NO
Remarks:	raio Carol. No oridonos of dusinos constanto andico
observed. The area may occasionally flood but does	spie Creek. No evidence of drainage patterns or flooding
observed. The area may occasionally flood but does	not meet wetiand criteria.
VEGETATION – Use scientific names of plants.	
	Dominant Indicator Dominance Test worksheet:
Tree Stratum (Plot size: 1 x 1 meter) % Cover .	Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2	
3	Total Number of Dominant
4	
	Percent of Dominant Species That Are OBL, FACW, or FAC:100% (A/B)
Sapling/Shrub Stratum (Plot size: 1 x 1 meter)	Prevalence Index worksheet:
1	
3	
4	
5	
	= Total Cover
Herb Stratum (Plot size: 1 x 1 meter)	UPL species x 5 =
1. Festuca perennis1002. Geranium dissectum2	Y FAC Column Totals: (A) (B)
3	
5	
6.	
7	Morphological Adaptations ¹ (Provide supporting
8	
	= Total Cover
Woody Vine Stratum (Plot size:) 1	¹ Indicators of hydric soil and wetland hydrology must
2	be present unless disturbed or problematic
	= Total Cover Hydrophytic
% Bare Ground in Herb Stratum % Cover of Biotic Cru	Vegetation
Remarks:	11636Ht: 163 · NO
Sampling location meets the criteria for hydrophytic	s vegetation and is dominated by Festuca perennis
Sampling location meets the criteria for hydrophlytic	tegetation and is dominated by restated perennis.

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SOIL Sampling Point: 3

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

Depth	Matrix			x Features	1 ^	-				
(inches)	Color (moist)	%	Color (moist)	<u>%</u> Type	Loc ²	<u>Texture</u>	Remarks	<u>; </u>		
0-14	7.5YR 3/2	100				L	Loam			
							_			
				 		-		_		
										
						· -				
1										
			=Reduced Matrix, CS		ated Sand G		cation: PL=Pore Lining,			
-		icable to all	LRRs, unless other				for Problematic Hydri	c Solis :		
Histosol			Sandy Red				Muck (A9) (LRR C)			
	pipedon (A2)		Stripped Ma				Muck (A10) (LRR B)			
	istic (A3)			ky Mineral (F1)			ced Vertic (F18)			
	en Sulfide (A4)			ed Matrix (F2)			Parent Material (TF2)			
· 	d Layers (A5) (LRF	R C)	Depleted M			Other	(Explain in Remarks)			
	uck (A9) (LRR D)			Surface (F6)						
	d Below Dark Surfa	ace (A11)		ark Surface (F7)						
	ark Surface (A12)			ressions (F8)			of hydrophytic vegetation			
-	Mucky Mineral (S1)		Vernal Pool	s (F9)			hydrology must be prese	ent,		
	Gleyed Matrix (S4)					unless o	disturbed or problematic.			
Restrictive	Layer (if present)									
Type:										
Depth (in	ches):					Hydric Soi	I Present? Yes	No <u> </u>		
Remarks:										
HYDROLO										
-	drology Indicator									
Primary India	cators (minimum o	fone require	d; check all that appl	y)		Seco	ndary Indicators (2 or mo	ore required)		
Surface	Water (A1)		Salt Crust	(B11)		\	Vater Marks (B1) (Riveri	ne)		
High Wa	ater Table (A2)		Biotic Crus	st (B12)		Sediment Deposits (B2) (Riverine)				
Saturati	on (A3)		Aquatic In	vertebrates (B13))	[Orift Deposits (B3) (River	rine)		
	Marks (B1) (Nonriv	erine)		Sulfide Odor (C1			Orainage Patterns (B10)			
·	nt Deposits (B2) (N	•		Rhizospheres aloi	*		Dry-Season Water Table	(C2)		
	posits (B3) (Nonri			of Reduced Iron	_		Crayfish Burrows (C8)	(-)		
	Soil Cracks (B6)	, 011110)		n Reduction in Ti		· · · · · · · · · · · · · · · · · · ·	Saturation Visible on Aeri	al Imagery (C0)		
	, ,	l Imagan, (P		Surface (C7)	iica oolis (o	· —		ai iiiagci y (00)		
	on Visible on Aeria			` ,			Shallow Aquitard (D3)			
	Stained Leaves (B9)	Other (Exp	olain in Remarks)			FAC-Neutral Test (D5)			
Field Obser			N							
Surface Wat			No <u>✓</u> Depth (in							
Water Table	Present?		No <u>✓</u> Depth (in							
	pillary fringe)		No Depth (in				y Present? Yes	No		
Describe Re	corded Data (strea	m gauge, m	onitoring well, aerial	photos, previous	inspections)	, if available:				
Remarks:										
No evide	nce of wetlan	d hydrolo	gy observed at	sampling loo	cation.					

Project/Site: Raley Blvd Truck Service And Parking Facil	ity	City/Cou	_{unty:} Sacrame	nto County	Sampling Date: 3/26/2024
Applicant/Owner: SHK Group, LLC				State: CA	Sampling Point: 4
Investigator(s): C. Gonzalez, P. Martin					
Landform (hillslope, terrace, etc.): Terrace		Local re	elief (concave, o	convex, none): Concave	Slope (%): 0-3
Subregion (LRR): Mediterranean California (LRR C)					
Soil Map Unit Name: Hicksville loam, 0-3% slopes, occas					
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	s √ _ No	(If no, explain in F	Remarks.)
Are Vegetation, Soil, or Hydrology sig	gnificantly	disturbe	ed? Are "	'Normal Circumstances"	present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology na	iturally pro	blematio	c? (If ne	eded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	howing	samp	ling point le	ocations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes No					
Hydric Soil Present? Yes No			s the Sampled		
Wetland Hydrology Present? Yes No	~	V	within a Wetlan	nd? Yes	No
Remarks:					
Datapoint is situated in a low terrace area adjacent datapoint but drift deposits are present just outside drains the area. The area may occasionally flood but	the Stud	ly Area	. A drain is als	so present just outsid	
VEGETATION – Use scientific names of plants					
			nant Indicator	Dominance Test work	ksheet:
			es? Status	Number of Dominant S	
1				That Are OBL, FACW,	or FAC:1 (A)
2				Total Number of Domir	
3				Species Across All Stra	ata:1 (B)
4				Percent of Dominant S That Are OBL, FACW,	
Sapling/Shrub Stratum (Plot size: 1 x 1 meter)					
1				Prevalence Index wor	
2					Multiply by:
3					x 1 =
4					x 2 =
5				· ·	x 3 =
Herb Stratum (Plot size: 1 x 1 meter		= Total	Cover	UPL species	x 4 =
1. Festuca perennis	98	Υ	FAC		x 5 = (A) (B)
2. Rumex crispus	3	N	FAC	Column Totals.	(A) (B)
3. Raphanus sativa	2	N	NI	Prevalence Index	c = B/A =
4				Hydrophytic Vegetati	on Indicators:
5				✓ Dominance Test is	
6				Prevalence Index	
7				Morphological Ada	aptations ¹ (Provide supporting as or on a separate sheet)
8					• /
	103	= Total	l Cover	Problematic Hydro	ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)				¹ Indicators of budgie as	il and watland hydrology must
1				be present, unless dist	oil and wetland hydrology must curbed or problematic.
2				Hydrophytic	<u> </u>
		•		Hydrophytic Vegetation	
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust			es No
Remarks:				•	
Sampling location meets the criteria for hyd	drophyti	ic veg	etation and	d is dominated by I	Festuca perennis.
·	-	_		•	

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the	indicator	or confirm	n the absence	of indicators.)
Depth	Matrix			x Feature	4	. 2			
(inches)	Color (moist)		Color (moist)	%	Type'	Loc ²	Texture		Remarks
0-16	7.5YR 3/2	100					<u>L</u>	Loam	
				. ———	. ——				
						-			
				· ——				-	
	ncentration, D=De					ed Sand G			re Lining, M=Matrix.
-	ndicators: (Appli	cable to all L			ea.)				tic Hydric Soils ³ :
Histosol	` '		Sandy Red					Muck (A9) (LRF	
	ipedon (A2)		Stripped Ma		1 (54)			Muck (A10) (LR	•
Black His			Loamy Muc	-				ed Vertic (F18)	
	n Sulfide (A4)	6)	Loamy Gley		(F2)			arent Material	
	Layers (A5) (LRR ck (A9) (LRR D)	C)	Depleted M Redox Dark		(E6)		Other	(Explain in Rer	narks)
	l Below Dark Surfa	ce (Δ11)	Redox Dair		. ,				
	rk Surface (A12)	50 (7111)	Redox Dep				3Indicators	of hydrophytic	vegetation and
	ucky Mineral (S1)		Vernal Pool		. 0)			hydrology mus	_
	leyed Matrix (S4)			- ()				listurbed or pro	
	ayer (if present):							· ·	
Type:									
• • •	ches):						Hydric Soil	Present? Y	es No ✓
Remarks:							,		
No hydric	soils detected	l at sampli	ing location. S	oil has	a stran	ge sme	II to it (not	hydrogen s	sulfide).
HYDROLO	GY								
Wetland Hyd	Irology Indicators	:							
Primary Indic	ators (minimum of	one required;	check all that appl	y)			Secor	ndary Indicators	s (2 or more required)
Surface \	Water (A1)		Salt Crust	(B11)				Vater Marks (B	1) (Riverine)
	ter Table (A2)		Biotic Crus	. ,					sits (B2) (Riverine)
Saturatio			Aquatic In		es (B13)			rift Deposits (E	
	arks (B1) (Nonrive	rine)	Hydrogen					rainage Patter	
	t Deposits (B2) (No		Oxidized F		. ,	Living Ro		ry-Season Wa	
	osits (B3) (Nonrive		Presence		_			Crayfish Burrow	
	Soil Cracks (B6)	inio,	Recent Iro					-	le on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (B7)				u 00113 (01		Shallow Aquitar	
	ained Leaves (B9)	illiagery (br)	Other (Exp		. ,			AC-Neutral Te	' '
Field Observ			Other (EX	naiii iii ixe	iliaiks)	<u> </u>	'	AC-Neutral Te	St (D3)
		/ NI	Donath (in	-1\.					
Surface Water			Depth (in						
Water Table			Depth (in						
Saturation Pr		res No	Depth (in	ches):		Wetl	land Hydrolog	y Present?	Yes No <u>✓</u>
(includes cap Describe Rec	orded Data (strear	n gauge, mon	itoring well, aerial	ohotos ni	evious ins	pections)	if available		
	222 - 212 (20.00)	J 30,on		, p.		,,	,		
Remarks:									
	so of watter	hydrolog	, obcopied of	camal:	na loss	tion D-	ift dansaits	aro proces	at just outside of
									nt just outside of
the Study	Area near the	sampiing	iocation but	a urdin	12 9120	present	and likely	urains the a	ai Ed.

Project/Site: Raley Blvd Truck Service And Parking Facil	lity (City/Co	unty:	Sacrame	nto County Sampling Date: 3/26/2024
		-	-		State: <u>CA</u> Sampling Point: <u>5</u>
Investigator(s): C. Gonzalez, P. Martin					
Landform (hillslope, terrace, etc.): Terrace					
Subregion (LRR): Mediterranean California (LRR C)					
Soil Map Unit Name: San Joaquin fine sandy loam, 0-3%					
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Ye	s	No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology sig	gnificantly	disturbe	ed?	Are "	Normal Circumstances" present? Yes ✓ No
Are Vegetation, Soil, or Hydrology na	turally pro	blemati	ic?	(If ne	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	howing	samp	oling	point le	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	·		le the	Sampled	Area
Hydric Soil Present? Yes No				•	nd? Yes No
Wetland Hydrology Present? Yes No				· a · · · · · ·	
Remarks:					
Datapoint is located in a slight depression in vegetation are still present. Datapoint does					
VEGETATION – Use scientific names of plants	s.				
	Absolute	Domir	nant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 1 x 1 meter)	% Cover	Speci	es?	Status	Number of Dominant Species
1					That Are OBL, FACW, or FAC:1 (A)
2					Total Number of Dominant
3		-			Species Across All Strata:2 (B)
4		= Tota	al Cove		Percent of Dominant Species That Are OBL, FACW, or FAC:50% (A/B)
Sapling/Shrub Stratum (Plot size: 1 x 1 meter)					
1					Prevalence Index worksheet:
2					Total % Cover of: Multiply by:
3					OBL species x 1 = FACW species x 2 =
4					FAC species 47 x 3 = 141
5		= Tota	al Cove		FACU species $\frac{3}{x^4} = \frac{12}{12}$
Herb Stratum (Plot size: 1 x 1 meter		- 1010	11 00 00	J I	UPL species 45 x 5 = 225
1. Festuca perennis	40	Y		FAC	Column Totals: 95 (A) 378 (B)
2. Festuca myuros	40	Y		NI	Prevalence Index = B/A = 3.98
3. Hypochaeris glabra	5	N		NI	
4. Hordeum marinum 5 Triteleia hyacinthina	<u>5</u>	N		FAC FAC	Hydrophytic Vegetation Indicators:
6. Erodium botrys	3	N		FACU	Dominance Test is >50% Prevalence Index is ≤3.0 ¹
7				17100	Morphological Adaptations¹ (Provide supporting)
8					data in Remarks or on a separate sheet)
<u> </u>	95	= Tota	al Cove	er	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		•			1
1					¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2					
_		,			Hydrophytic Vegetation
% Bare Ground in Herb Stratum5 % Cover	of Biotic C	ust			Present? Yes No
Remarks:					
Sampling location does not meet the criteri	a for hy	dropl	hytic	vegeta	ation.

(inches)	Matrix	0/		ox Featur		. 2	- -	Dame !
0.10	Color (moist)		Color (moist)	%	Type'	Loc ²	_ <u>Texture</u>	Remarks
0-10	7.5YR 3/2	97	7.5YR 4/4	_ 3	<u>C</u>	Pl	_ <u>L</u>	Loam
						-		
				-				
					_			
								- <u></u> -
			=Reduced Matrix, C			ed Sand (cation: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Appl	icable to al	LRRs, unless oth	erwise no	oted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	` '		Sandy Re	. ,				Muck (A9) (LRR C)
	pipedon (A2)		Stripped N					Muck (A10) (LRR B)
Black His	n Sulfide (A4)		Loamy Mu Loamy Gle	-	. ,			ced Vertic (F18) Parent Material (TF2)
	l Layers (A5) (LRF	R C)	Depleted I	-				(Explain in Remarks)
	ck (A9) (LRR D)	,	Redox Da					
Depleted	Below Dark Surfa	ace (A11)	Depleted I	Dark Surfa	ace (F7)			
	rk Surface (A12)		Redox De		(F8)			of hydrophytic vegetation and
-	lucky Mineral (S1)		Vernal Po	ols (F9)				hydrology must be present,
	leyed Matrix (S4) ayer (if present):						uniess o	disturbed or problematic.
Type:								
• • • • • • • • • • • • • • • • • • • •	ches):						Hydric Soi	I Present? Yes No
Remarks:							Tiyunc 301	Triesent: TesNO
HYDROLO	GY							
Wetland Hyd	drology Indicator	s:						
Primary Indic	ators (minimum o	f one require						
	\A/atar (A1)		d; check all that app	Oly)			Seco	ndary Indicators (2 or more required)
Surface	Surface Water (A1) Salt Crust (B11)							ndary Indicators (2 or more required) Vater Marks (B1) (Riverine)
High Wa	ter Table (A2)		Salt Crus	st (B11) ust (B12)			V	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
High Wa	ter Table (A2) on (A3)		Salt Crus Biotic Cru Aquatic I	st (B11) ust (B12) nvertebra			V S [Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
High Wa Saturatio Water M	ter Table (A2) on (A3) arks (B1) (Nonriv e	•	Salt Crus Biotic Cru Aquatic I Hydroge	st (B11) ust (B12) nvertebra n Sulfide (Odor (C1)	. Linia a D	v c c	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
High Wa Saturation Water M Sedimen	ter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (N	lonriverine)	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized	st (B11) ust (B12) nvertebra n Sulfide (Rhizosph	Odor (C1) eres along	_	\ [[[[[Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
High Wa Saturatio Water M Sedimen Drift Dep	ter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (N posits (B3) (Nonriv	lonriverine)	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized Presence	et (B11) ust (B12) nvertebra n Sulfide (Rhizosph	Odor (C1) eres along ced Iron (C	4)	\ E coots (C3) E	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8)
High Wa Saturatic Water M Sedimen Drift Dep Surface	ter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (N posits (B3) (Nonriv Soil Cracks (B6)	lonriverine) verine)	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized Presence	st (B11) ust (B12) nvertebra n Sulfide (Rhizosph e of Reduc	Odor (C1) teres along ced Iron (C ction in Tille	4)	V E pots (C3) E C	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
High Wa Saturatic Water M Sedimen Drift Dep Surface	ter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (N posits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria	lonriverine) verine) al Imagery (E	Salt Crus Biotic Cri Aquatic I Hydrogei Oxidized Presence Recent Ir	st (B11) ust (B12) nvertebra n Sulfide (Rhizosph e of Reduct on Reduct k Surface	Odor (C1) teres along ted Iron (C tion in Tille (C7)	4)	V E E pots (C3) E C6) S	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Originage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
High Wa Saturatic Water M Sedimen Drift Dep Surface Inundatic Water-St	ter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (N osits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria	lonriverine) verine) al Imagery (E	Salt Crus Biotic Cri Aquatic I Hydrogei Oxidized Presence Recent Ir	st (B11) ust (B12) nvertebra n Sulfide (Rhizosph e of Reduc	Odor (C1) teres along ted Iron (C tion in Tille (C7)	4)	V E E pots (C3) E C6) S	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
High Wa Saturatic Water M Sedimen Drift Dep Surface Inundatic Water-St	ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aeria tained Leaves (B9) vations:	donriverine) verine) al Imagery (E	Salt Crus Biotic Cru Aquatic I Hydrogei Oxidized Presence Recent Ir Thin Muc	st (B11) ust (B12) nvertebra n Sulfide (Rhizosph e of Reduc on Reduc ck Surface xplain in F	Odor (C1) leres along ced Iron (C stion in Tille (C7) Remarks)	4) ed Soils (0	V E E pots (C3) E C6) S	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Originage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
High Wa Saturatic Water M Sedimen Drift Dep Surface Inundatic Water-Si Field Observ Surface Water	ter Table (A2) on (A3) arks (B1) (Nonrive at Deposits (B2) (Nonrive cosits (B3) (Nonrive cosits (B3) (Nonrive cosits (B6) on Visible on Aeria tained Leaves (B9) vations: er Present?	lonriverine) verine) al Imagery (E) Yes	Salt Crus Biotic Cru Aquatic I Hydrogel Oxidized Presence Recent Ir Thin Muc Other (E:	st (B11) ust (B12) nvertebra n Sulfide (Rhizosph e of Reduc ron Reduc ck Surface xplain in F	Odor (C1) peres along ced Iron (C stion in Tille (C7) Remarks)	4) ed Soils (C	V E E pots (C3) E C6) S	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Originage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
High Wa Saturation Water M Sediment Drift Dep Surface S Inundation Water-St Field Observ Surface Water Water Table	ter Table (A2) on (A3) arks (B1) (Nonriv. at Deposits (B2) (Nonriv. soil Cracks (B6) on Visible on Aeria tained Leaves (B9 vations: er Present? Present?	verine) al Imagery (E) Yes Yes	Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebra n Sulfide (Rhizosph e of Reduc on Reduc ck Surface xplain in F nches): nches):	Odor (C1) heres along ced Iron (C tion in Tille (C7) Remarks)	4) ed Soils (C	V E pots (C3) E C6) S F	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
High Wa Saturatic Water M Sedimen Drift Dep Surface Inundatic Water-Si Field Observ Surface Water Water Table Saturation Pr (includes cap	ter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (Nonriv cosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria tained Leaves (B9 vations: er Present? Present? resent?	verine) Yes Yes Yes	Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebra n Sulfide (Rhizosph e of Reduc on Reduc sk Surface xplain in F nches): nches): nches): nches):	Odor (C1) peres along ced Iron (C ction in Tille (C7) Remarks)	4) ed Soils (C	\\ \square \	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Originage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
High Wa Saturatic Water M Sedimen Drift Dep Surface Inundatic Water-Si Field Observ Surface Water Water Table Saturation Pr (includes cap	ter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (Nonriv cosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria tained Leaves (B9 vations: er Present? Present? resent?	verine) Yes Yes Yes	Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebra n Sulfide (Rhizosph e of Reduc on Reduc sk Surface xplain in F nches): nches): nches): nches):	Odor (C1) peres along ced Iron (C ction in Tille (C7) Remarks)	4) ed Soils (C	\\ \square \	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
High Wa Saturation Water M Sediment Drift Dep Surface Surface Inundation Water-Si Field Observ Surface Water Water Table Saturation Pr (includes cap) Describe Rec	ter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (Nonriv cosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria tained Leaves (B9 vations: er Present? Present? resent?	verine) Yes Yes Yes	Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	st (B11) ust (B12) nvertebra n Sulfide (Rhizosph e of Reduc on Reduc sk Surface xplain in F nches): nches): nches): nches):	Odor (C1) peres along ced Iron (C ction in Tille (C7) Remarks)	4) ed Soils (C	\\ \square \	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
High Wa Saturatio Water M Sedimen Drift Dep Surface Inundatio Water-Si Field Observ Surface Water Vater Table Saturation Pr (includes cap Describe Rec	ter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (Nonriv boosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria tained Leaves (B9 vations: er Present? Present? resent? resent? corded Data (streat	lonriverine) verine) al Imagery (E) Yes Yes Yes am gauge, m	Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir Other (Ex	st (B11) ust (B12) nvertebra n Sulfide (Rhizosph e of Reduc con Reduc sk Surface xplain in F nches): nches): I photos, p	Odor (C1) peres along ced Iron (C ction in Tille (C7) Remarks)	4) ed Soils (C		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
High Wa Saturatio Water M Sedimen Drift Dep Surface Inundatio Water-Si Field Observ Surface Water Vater Table Saturation Pr (includes cap Describe Rec	ter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (Nonriv boosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria tained Leaves (B9 vations: er Present? Present? resent? resent? corded Data (streat	lonriverine) verine) al Imagery (E) Yes Yes Yes am gauge, m	Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir Other (Ex	st (B11) ust (B12) nvertebra n Sulfide (Rhizosph e of Reduc con Reduc sk Surface xplain in F nches): nches): I photos, p	Odor (C1) peres along ced Iron (C ction in Tille (C7) Remarks)	4) ed Soils (C		Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
High Wa Saturatio Water M Sedimen Drift Dep Surface Inundatio Water-Si Field Observ Surface Water Vater Table Saturation Pr (includes cap Describe Rec	ter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (Nonriv boosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria tained Leaves (B9 vations: er Present? Present? resent? resent? corded Data (streat	lonriverine) verine) al Imagery (E) Yes Yes Yes am gauge, m	Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir Other (Ex	st (B11) ust (B12) nvertebra n Sulfide (Rhizosph e of Reduc con Reduc sk Surface xplain in F nches): nches): I photos, p	Odor (C1) peres along ced Iron (C ction in Tille (C7) Remarks)	4) ed Soils (C		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
High Wa Saturatio Water M Sedimen Drift Dep Surface Inundatio Water-Si Field Observ Surface Water Vater Table Saturation Pr (includes cap Describe Rec	ter Table (A2) on (A3) arks (B1) (Nonriv at Deposits (B2) (Nonriv boosits (B3) (Nonriv Soil Cracks (B6) on Visible on Aeria tained Leaves (B9 vations: er Present? Present? resent? resent? corded Data (streat	lonriverine) verine) al Imagery (E) Yes Yes Yes am gauge, m	Salt Crus Biotic Cru Aquatic I Hydroger Oxidized Presence Recent Ir Other (Ex	st (B11) ust (B12) nvertebra n Sulfide (Rhizosph e of Reduc con Reduc sk Surface xplain in F nches): nches): I photos, p	Odor (C1) peres along ced Iron (C ction in Tille (C7) Remarks)	4) ed Soils (C		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Raley Blvd Truck Service And Parking Facil	lity (City/Co	ounty:	Sacramei	nto County Sampling Date: 3/26/2024
		-			State: CA Sampling Point: 6
Investigator(s): C. Gonzalez, P. Martin					
Landform (hillslope, terrace, etc.): Terrace					
Subregion (LRR): Mediterranean California (LRR C)					
Soil Map Unit Name: San Joaquin fine sandy loam, 0-3%					
Are climatic / hydrologic conditions on the site typical for this				,	
Are Vegetation, Soil, or Hydrology sig	-				Normal Circumstances" present? Yes ✓ No
Are Vegetation, Soil, or Hydrology na	turally pro	blemat	tic?	(If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map s	howing	sam	plin	g point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks:				e Sampled in a Wetlan	Area nd? Yes No
Datapoint is located in a slight depression n patches of green vegetation are still presen					
VEGETATION – Use scientific names of plant	S.				
Tue Obstance (Distance 1 v 1 meter)	Absolute				Dominance Test worksheet:
	% Cover				Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
1 2					
3.					Total Number of Dominant Species Across All Strata: 2 (B)
4.					
Sapling/Shrub Stratum (Plot size: 1 x 1 meter)		= Tota	al Co	ver	Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)
1					Prevalence Index worksheet:
2.					Total % Cover of: Multiply by:
3.					OBL species x 1 =
4.					FACW species x 2 =
5.					FAC species 45 x 3 = 135
		= Tota	al Cov	ver	FACU species 15 x 4 = 60
Herb Stratum (Plot size: 1 x 1 meter)					UPL species 28 x 5 = 140
1. Festuca perennis	40	Y		FAC	Column Totals: <u>88</u> (A) <u>335</u> (B)
2. Festuca myuros		Y		NI NI	Prevalence Index = B/A = 3.81
3. Rumex pulcher	5			FAC	
4. Medicago polymorpha		N		FACU	Hydrophytic Vegetation Indicators:
5. Erodium botrys	<u>10</u> 5	N		FACU	Dominance Test is >50%
6. Brassica nigra	3	N		NI	 Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting
7. Vicia sativa 8. Hypochaeris glabra	3	N		FACU NI	data in Remarks or on a separate sheet)
8. Hypochaens glabra					Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		= Tota	ai Cov	vei	
1					¹ Indicators of hydric soil and wetland hydrology must
2.					be present, unless disturbed or problematic.
		= Tota	al Cov	ver	Hydrophytic Vegetation
% Bare Ground in Herb Stratum 12	of Biotic C	rust	0		Present? Yes No
Remarks:					
Sampling location does not meet the criteri	a for hy	drop	hyti	c vegeta	ition.

Depth	Matrix			ox Featur		. 2	<u>.</u>				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0-10	7.5YR 3/2	97	7.5YR 4/4	3	<u>C</u>	Pl	_ <u>L</u>	Loam			
							-				
	-										
			-								
						_					
1- 00							. 2				
			M=Reduced Matrix, Coll LRRs, unless other			ed Sand C			Pore Lining, M=Matrix. matic Hydric Soils ³ :		
-		icable to a			oteu.)				•		
Histosol	` '		Sandy Red		\			Лиск (А9) (L Лиск (А10) (
	pipedon (A2) istic (A3)		Stripped M Loamy Mu					ed Vertic (F			
	en Sulfide (A4)		Loamy Gle					arent Materi			
	d Layers (A5) (LRF	R C)	Depleted N					(Explain in F			
	uck (A9) (LRR D)	/	Redox Dai					(,		
	d Below Dark Surfa	ace (A11)	Depleted [Oark Surfa	ace (F7)						
Thick Da	ark Surface (A12)		Redox De	oressions	(F8)		³ Indicators	of hydrophy	tic vegetation and		
Sandy N	Mucky Mineral (S1)		Vernal Poo	ols (F9)			wetland	hydrology m	nust be present,		
	Gleyed Matrix (S4)						unless d	listurbed or p	problematic.		
Restrictive	Layer (if present):	!									
Type:											
Depth (in	ches):						Hydric Soil	Present?	Yes No/		
Remarks:											
IYDROLO											
	drology Indicator										
		one require	ed; check all that app	•				-	tors (2 or more required)		
	Water (A1)		Salt Crus				Water Marks (B1) (Riverine)				
_	ater Table (A2)		Biotic Cru				Sediment Deposits (B2) (Riverine)				
Saturati			Aquatic II						(B3) (Riverine)		
	Marks (B1) (Nonriv	•	Hydroger				·	rainage Pat	, ,		
	nt Deposits (B2) (N				neres along	-		-	Vater Table (C2)		
	posits (B3) (Nonriv	erine)			ced Iron (C			rayfish Burr	` '		
	Soil Cracks (B6)				ction in Tille	ed Soils (C			sible on Aerial Imagery (C9)		
	ion Visible on Aeria				' '			Shallow Aquit			
	Stained Leaves (B9)	Other (Ex	plain in F	Remarks)		F	AC-Neutral	Test (D5)		
Field Obser			,								
Surface Wat	ter Present?		No <u>✓</u> Depth (ii								
Water Table	Present?	Yes	No <u>√</u> Depth (ii	nches): _							
	pillary fringe)		No Depth (ii					y Present?	Yes No		
Describe Re	corded Data (strea	ım gauge, n	nonitoring well, aerial	photos, p	previous in	spections)	, if available:				
Remarks:											
No evide	nce of wetlan	d hydrol	ogy observed a	t samn	ling loca	ation. So	oil is moist h	out is not	saturated.		
		,	-01 -335. 764 4	p							

Project/Site: Raley Blvd Truck Service And Parking Facil	ity (City/Coun	_{nty:} Sacrame	nto County	_ Sampling Date:3/26/2024
Applicant/Owner: SHK Group, LLC		_		State: CA	Sampling Point: 7
Investigator(s): C. Gonzalez, P. Martin					
Landform (hillslope, terrace, etc.): Terrace				=	
Subregion (LRR): Mediterranean California (LRR C)					
Soil Map Unit Name: San Joaquin fine sandy loam, 0-3%	slopes			NWI classifi	ication: PEM1As
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology sig	-				present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology na				eded, explain any answ	
SUMMARY OF FINDINGS – Attach site map s					
Hydrophytic Vegetation Present? Yes No					
Hydric Soil Present? Yes ✓ No			the Sampled		/ N-
Wetland Hydrology Present? Yes ✓ No		Wi	thin a Wetlar	id? Yes	No
Remarks:		Į.			
Datapoint is located in an area that has bee					
present. Datapoint is in a lower elevation ar	ea anu	15 d550	ciated wit	n a seasonai weti	anu.
VEGETATION – Use scientific names of plants	S.				
			nt Indicator	Dominance Test wor	ksheet:
,			? Status	Number of Dominant S	
1				That Are OBL, FACW	, or FAC:1 (A)
3				Total Number of Domi	
4				Species Across All Str	ala (D)
				Percent of Dominant S That Are OBL, FACW	
Sapling/Shrub Stratum (Plot size: 1 x 1 meter)		-			(127)
1				Prevalence Index wo	
2					Multiply by:
3					x 1 =
4				· ·	x 2 = x 3 =
5			Covor		x 4 =
Herb Stratum (Plot size: 1 x 1 meter		Total C	20vei		x 5 =
1. Festuca perennis	80	Υ	FAC		(A)(B)
2. Raphanus sativa	5	N	NI		(/ (/
3. Briza minor	2	N	FAC		x = B/A =
4. Lupinus bicolor	1	N	<u>NI</u>	Hydrophytic Vegetat	
5. Erodium botrys	3 	N	FACU	Dominance Test is	
6. Brassica nigra		N	NI	Prevalence Index	
7				data in Remarl	aptations ¹ (Provide supporting ks or on a separate sheet)
8					ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		= Total C	Jover		
1					oil and wetland hydrology must
2				be present, unless dis	turbed or problematic.
		= Total C	Cover	Hydrophytic	
% Bare Ground in Herb Stratum4 % Cover of	of Biotic C	rust	0	Vegetation Present? Yes	es No
Remarks:					
Sampling location meets the criteria for hyd	lrophyti	ic vege	tation.		
, , , , , , , , , , , , , , , , , , , ,	,	6 -			

Depth	Matrix			ox Featur		. ?	<u>-</u>				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹ _	Loc ²	Texture	Remarks			
0-4	7.5YR 4/1	95	7.5YR 4/6	_ 5	_ <u>C</u>	M	<u>L</u>	Loam			
4-14	7.5YR 4/6	95	7.5YR 4/6	5	С	M	ClLo	Clay loam			
								·			
				_	_						
								·			
								· <u> </u>			
1							. 2.	· 			
			M=Reduced Matrix, C II LRRs, unless other			ed Sand G		cation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :			
Histosol		icable to a	Sandy Rec		ileu.)			Muck (A9) (LRR C)			
	oipedon (A2)		Stripped M					Muck (A10) (LRR B)			
	istic (A3)		Loamy Mu					ced Vertic (F18)			
	en Sulfide (A4)		Loamy Gle	-	. ,			Parent Material (TF2)			
	d Layers (A5) (LRF	R C)	✓ Depleted N				Other	(Explain in Remarks)			
	ick (A9) (LRR D)	(0.4.4)	Redox Dar		. ,						
	d Below Dark Surfa ark Surface (A12)	ice (ATT)	Depleted D Redox Dep				3Indicators	s of hydrophytic vegetation and			
	Aucky Mineral (S1)		Vernal Poo		(10)			l hydrology must be present,			
	Gleyed Matrix (S4)			(1 0)				disturbed or problematic.			
Restrictive I	Layer (if present):										
Type:											
Depth (in	ches):						Hydric Soi	I Present? Yes ✓ No			
Remarks:											
Evidence	of hydric soils	observ	ed at sampling p	ooint.							
	, , , , , , ,										
HYDROLO	GY										
Wetland Hy	drology Indicators	s:									
_			ed; check all that app	oly)			Seco	andary Indicators (2 or more required)			
Surface	Water (A1)	-	Salt Crus	t (B11)			Water Marks (B1) (Riverine)				
	ater Table (A2)		Biotic Cru	. ,			Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)				
✓ Saturation			Aquatic Ir		es (B13)		Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)				
Water M	larks (B1) (Nonriv e	erine)	Hydrogen	Sulfide C	Odor (C1)		[Orainage Patterns (B10)			
Sedimer	nt Deposits (B2) (N	onriverine) Oxidized	Rhizosph	eres along	Living Ro	oots (C3) [Dry-Season Water Table (C2)			
	oosits (B3) (Nonriv	rerine)	Presence					Crayfish Burrows (C8)			
	Soil Cracks (B6)		Recent Ire			ed Soils (C	· —	Saturation Visible on Aerial Imagery (C9)			
	on Visible on Aeria							Shallow Aquitard (D3)			
Field Obser	tained Leaves (B9))	Other (Ex	plain in R	temarks)		'	FAC-Neutral Test (D5)			
Surface Wat		Vaa	No / Donth (in	achoo):							
			No ✓ Depth (in								
Water Table			No <u>√</u> Depth (in				41 a.a. d. 11d.a.a.l.a.a	wy Brancost 2 Van de Na			
Saturation P (includes car		res	No Depth (ir	icnes): <u>+</u>		vve	tiano Hydrolog	gy Present? Yes No			
Describe Re	corded Data (strea	m gauge, r	nonitoring well, aerial	photos, p	revious in	spections)), if available:				
Remarks:											
Soil is sat	urated at app	roximate	ely 4in. and mee	ets wet	land cri	teria.					

Project/Site: Raley Blvd Truck Service And Parking Facil	ity (City/County	_{y:} Sacrame	nto County	Sampling Date: 3/26/2024
Applicant/Owner: SHK Group, LLC				State: CA	_ Sampling Point:8
Investigator(s): C. Gonzalez, P. Martin					
Landform (hillslope, terrace, etc.): Terrace				•	
Subregion (LRR): Mediterranean California (LRR C)					
Soil Map Unit Name: San Joaquin fine sandy loam, 0-3%				-	ication: None
Are climatic / hydrologic conditions on the site typical for this			,		
Are Vegetation, Soil, or Hydrology sig	-				present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology na				eeded, explain any answ	
SUMMARY OF FINDINGS – Attach site map s					
Hydrophytic Vegetation Present? Yes _ ✓ No					
Hydric Soil Present? Yes No			he Sampled		No. 4
Wetland Hydrology Present? Yes No	~	Witi	nin a Wetlar	10? Yes	No
Remarks:		,			
Datapoint is located on a mound adjacent to	o a seas	sonal we	etland.		
VEGETATION – Use scientific names of plants					
<u> </u>		Dominan	t Indicator	Dominance Test wor	ksheet
			Status	Number of Dominant S	
1				That Are OBL, FACW,	
2				Total Number of Domi	nant
3				Species Across All Str	
4				Percent of Dominant S	Species
Sapling/Shrub Stratum (Plot size: 1 x 1 meter		= Total Co	over	That Are OBL, FACW,	, or FAC:100% (A/B)
1				Prevalence Index wo	rksheet:
2				Total % Cover of:	Multiply by:
3				OBL species	x 1 =
4				*	x 2 =
5				· ·	x 3 =
Herb Stratum (Plot size: 1 x 1 meter		= Total Co	over	· ·	x 4 =
1. Festuca perennis	95	Υ	FAC	UPL species	
2. Raphanus sativa	2	N	NI	Column Totals:	(A) (B)
3. Erodium botrys	5	N	FACU	Prevalence Index	x = B/A =
4				Hydrophytic Vegetat	ion Indicators:
5				Dominance Test is	
6				Prevalence Index	
7				Morphological Ada	aptations ¹ (Provide supporting ks or on a separate sheet)
8		-	<u> </u>		ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	102	= Total Co	over		spiritus regetation (Emplain)
1					oil and wetland hydrology must
2.				be present, unless dis	turbed or problematic.
		= Total Co	over	Hydrophytic	
% Bare Ground in Herb Stratum 0	of Biotic C	rust	0	Vegetation Present? Ye	es No
Remarks:				11000	
Sampling location meets the criteria for hyd	Ironbyti	ic veget	ation and	l is dominated by	Festura nerennis
Sampling location inects the criteria for flyd	порпуц	ic veget	ation and	a is dominated by	restaca perennis.

Depth	Matrix			ox Feature		. 2					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks			
0-6	7.5YR 3/2	100	<u> </u>			_	_ <u>L</u>	Loam			
6-14	7.5YR 3/2	97	7.5YR 4/4	3	С	M	ClLo	Clay loam			
0 14	7.511(3/2		7.511(4) 4				CILO	City Iodin			
							_				
	<u>'</u>							_			
							_				
								_			
	-		<u> </u>								
¹ Type: C=C	oncentration, D=De	epletion, RN	M=Reduced Matrix, C	S=Covere	ed or Coa	ted Sand G	Grains. ² l	Location: PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators: (Appl	icable to a	II LRRs, unless other	erwise no	ted.)		Indicato	rs for Problematic Hydric Soils ³ :			
Histosol	(A1)		Sandy Red	dox (S5)			1 cn	n Muck (A9) (LRR C)			
Histic E	pipedon (A2)		Stripped M	latrix (S6)			2 cn	n Muck (A10) (LRR B)			
Black H	istic (A3)		Loamy Mu	cky Miner	al (F1)		Red	uced Vertic (F18)			
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matri	x (F2)		Red	Parent Material (TF2)			
Stratified	d Layers (A5) (LRF	(C)	Depleted N	/latrix (F3))		Othe	er (Explain in Remarks)			
	uck (A9) (LRR D)		Redox Dai		. ,						
	d Below Dark Surfa	ice (A11)	Depleted [2				
	ark Surface (A12)		Redox Dep		(F8)			ors of hydrophytic vegetation and			
	Mucky Mineral (S1)		Vernal Poo	ols (F9)				nd hydrology must be present,			
	Gleyed Matrix (S4)						unless	s disturbed or problematic.			
	Layer (if present):										
Type:											
Depth (in	ches):						Hydric S	oil Present? Yes No			
Remarks:											
Some rec	lox observed i	n matrix	but only a low	nercen	tage R	Redox is	also fairly	faint			
Joine rec	iox obscived i	II IIIaciiz	t but only a low	percen	itage. I	COOK 13	diso fairty	Tanit.			
HYDROLO											
Wetland Hy	drology Indicator	s:									
Primary Indic	cators (minimum of	one requir	ed; check all that app	oly)			Sec	condary Indicators (2 or more required)			
Surface	Water (A1)		Salt Crus	t (B11)			Water Marks (B1) (Riverine)				
High Wa	ater Table (A2)		Biotic Cru	ıst (B12)			Sediment Deposits (B2) (Riverine)				
Saturati	on (A3)		Aquatic I	nvertebrat	es (B13)		Drift Deposits (B3) (Riverine)				
Water M	larks (B1) (Nonriv e	erine)	Hydroger	Sulfide C	Odor (C1)			Drainage Patterns (B10)			
Sedime	nt Deposits (B2) (N	onriverine) Oxidized	Rhizosph	eres alon	g Living Ro	oots (C3)	Dry-Season Water Table (C2)			
	posits (B3) (Nonriv		Presence	of Reduc	ed Iron (C	C4)	_	Crayfish Burrows (C8)			
Surface	Soil Cracks (B6)	•				ed Soils (C		Saturation Visible on Aerial Imagery (C9)			
	on Visible on Aeria	l Imagery (•	,	Shallow Aquitard (D3)			
	tained Leaves (B9		• —	plain in R	' '			FAC-Neutral Test (D5)			
Field Obser		<u>'</u>		<u> </u>				, ,			
Surface Wat		Yes	No <u>✓</u> Depth (ii	nches):							
Water Table			No ✓ Depth (ii								
							tional livelent	anu Duacant 2 Vac No V			
Saturation P (includes cap		Yes	No Depth (ii	ncnes):		vvei	tiana Hyaroi	ogy Present? Yes No			
		m gauge, n	nonitoring well, aerial	photos, p	revious ir	nspections)), if available:				
	`	- 3 .				. ,					
Remarks:											
	nce of wotland	hydrol	nav obsorved a	teamal	ing loc	ation					
NO EVIUEI	ice or wellall	a riyurol	ogy observed a	ı sampı	ing loca	ation.					
			·		·		· · · · · · · · · · · · · · · · · · ·	·			

Project/Site: Raley Blvd Truck Service And Parking Facil	ity	City/Count	_{ty:} Sacrame	nto County	Sampling Date: 3/26/2024
Applicant/Owner: SHK Group, LLC				State: CA	_ Sampling Point:9
Investigator(s): C. Gonzalez, P. Martin					
Landform (hillslope, terrace, etc.): Terrace				=	
Subregion (LRR): Mediterranean California (LRR C)					
Soil Map Unit Name: San Joaquin fine sandy loam, 0-3%					
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology sig	-				present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology na				eded, explain any answ	
SUMMARY OF FINDINGS – Attach site map s					
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No			he Sampled		
Wetland Hydrology Present? Yes No		wit	hin a Wetlar	nd? Yes	No
Remarks:					
Datapoint is located in an area that has bee	n recen	tly disk	ed. Patch	es of green veget	ation are still present.
Datapoint is in a lower elevation area and is	associa	ated wi	th a seasc	nal wetland.	·
VECETATION . He a significant and a significant					
VEGETATION – Use scientific names of plants				· · · · · · · · · · · · · · · · · · ·	
			nt Indicator Status	Dominance Test wor	
1				Number of Dominant S That Are OBL, FACW	
2.				Total Number of Domi	
3		-		Species Across All Str	•
4				Percent of Dominant S	Snecies
Sapling/Shrub Stratum (Plot size: 1 x 1 meter)		= Total C	over	That Are OBL, FACW	
1				Prevalence Index wo	rksheet:
2					Multiply by:
3.					x 1 =
4				FACW species	x 2 =
5				FAC species	x 3 =
1 v 1 meter		= Total C	over		x 4 =
Herb Stratum (Plot size: 1 x 1 meter) 1. Festuca perennis	65	Υ	FAC		x 5 =
2. Plagiobothrys stipitatus	20	N	FACW	Column Totals:	(A) (B)
3. Juncus bufonius	5	N	FACW	Prevalence Inde	x = B/A =
4. Lythrum hyssopifolia	10	N	OBL	Hydrophytic Vegetat	ion Indicators:
5. Geranium dissectum	3	N	NI	<u>✓</u> Dominance Test is	s >50%
6. Hordeum marinum	5	N	FAC	Prevalence Index	
7		-		Morphological Ad	aptations ¹ (Provide supporting ks or on a separate sheet)
8					ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	108	= Total C	over	r robiematic riyare	opity to vegetation (Explain)
1				¹ Indicators of hydric so	oil and wetland hydrology must
2				be present, unless dis	
		= Total C	over	Hydrophytic	
% Bare Ground in Herb Stratum 0		="		Vegetation Present? Y	es No
Remarks:	JI BIOLIC C	iust		Flesent:	ES NO
	lrophy+	ic voact	ation		
Sampling location meets the criteria for hyd	порпус	ic vegei	ation.		

Depth	Matrix			ox Feature	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0-6	7.5YR 3/2	100					L	Loam			
6-14	7.5YR 3/1	93	7.5YR 4/4	7	С	M	ClLo	Clay loam			
				_							
	-							· 			
		·	-		-	•					
1- 0.0							. 21				
			M=Reduced Matrix, C II LRRs, unless othe			ed Sand G		cation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :			
_		cable to a			ieu.)			•			
Histosol	oipedon (A2)		Sandy Red Stripped M					Muck (A9) (LRR C) Muck (A10) (LRR B)			
	stic (A3)		Suipped M		al (F1)			ced Vertic (F18)			
	en Sulfide (A4)		Loamy Gle					Parent Material (TF2)			
	d Layers (A5) (LRR	(C)	Depleted M	-	. ,			(Explain in Remarks)			
·	ick (A9) (LRR D)	- /	✓ Redox Dar					(=,			
	d Below Dark Surfa	ce (A11)	Depleted D		, ,						
Thick Da	ark Surface (A12)		Redox Dep	ressions	(F8)		³ Indicators	s of hydrophytic vegetation and			
	lucky Mineral (S1)		Vernal Poo	ls (F9)			wetland	hydrology must be present,			
	Sleyed Matrix (S4)						unless	disturbed or problematic.			
Restrictive I	Layer (if present):										
Type:											
Depth (inc	ches):						Hydric Soi	I Present? Yes ✓ No			
Remarks:							1				
Fyidence	of hydric soils	ohservi	ed at sampling p	noint							
LVIGCTICC	of flydric solis	ODSCIV	ca at sampling p	Joint.							
	CV										
HYDROLO											
_	drology Indicators						_				
	-	one requir	ed; check all that app	ly)				ndary Indicators (2 or more required)			
	Water (A1)		Salt Crust	, ,			Water Marks (B1) (Riverine)				
High Wa	iter Table (A2)		✓ Biotic Cru	st (B12)			8	Sediment Deposits (B2) (Riverine)			
✓ Saturation	` ,		Aquatic Ir		, ,		· · · · · · · · · · · · · · · · · · ·	Orift Deposits (B3) (Riverine)			
	larks (B1) (Nonrive	,	Hydrogen				· · · · · · · · · · · · · · · · · · ·	Orainage Patterns (B10)			
	nt Deposits (B2) (N				-	_		Ory-Season Water Table (C2)			
	oosits (B3) (Nonriv	erine)	Presence					Crayfish Burrows (C8)			
	Soil Cracks (B6)		Recent Ire			ed Soils (C	6) 8	Saturation Visible on Aerial Imagery (C9)			
	on Visible on Aeria		B7) Thin Mucl	k Surface	(C7)		· · · · · · · · · · · · · · · · · · ·	Shallow Aquitard (D3)			
	tained Leaves (B9)		Other (Ex	plain in R	emarks)		F	FAC-Neutral Test (D5)			
Field Obser	vations:										
Surface Water	er Present?	Yes	No <u>✓</u> Depth (ir	nches):							
Water Table	Present?	Yes	No <u>√</u> Depth (in	nches):							
Saturation P	resent?	Yes	No Depth (ir	nches): SU	ırface	Wet	land Hydrolog	gy Present? Yes <u>✓</u> No			
(includes car	oillary fringe)										
Describe Re	corded Data (strea	m gauge, n	nonitoring well, aerial	pnotos, p	revious in	spections)	, iī avaliable:				
Remarks:											
Soil is sate	urated on the	surface	. Several patche	es of bio	otic crus	st also o	bserved.				

Project/Site: Raley Blvd Truck Service And Parking Facil	lity (City/Cou	_{nty:} Sacramei	nto County	Sa	impling Date:	3/26/2024
-	-	State: <u>CA</u> Sampling Point: 10					
Investigator(s): C. Gonzalez, P. Martin							
Landform (hillslope, terrace, etc.): Terrace				=			
Subregion (LRR): Mediterranean California (LRR C)	Lat: 38.6	63598	·	Long: -121.430	0097	Datui	m: NAD 83
Soil Map Unit Name: San Joaquin fine sandy loam, 0-3%				NWI			
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	✓ No	(If no, exp	lain in Rema	arks.)	
Are Vegetation, Soil, or Hydrology sig	gnificantly	disturbed	d? Are "	Normal Circumsta	ances" pres	ent? Yes <u></u>	′ No
Are Vegetation, Soil, or Hydrology na	turally pro	blematic	? (If ne	eded, explain any	y answers ii	n Remarks.)	
SUMMARY OF FINDINGS - Attach site map s	howing	sampl	ling point lo	ocations, trar	nsects, ir	nportant fe	atures, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Datapoint is located in an area that has bee		w	the Sampled vithin a Wetlan	ıd? Yo		No <u>′</u>	oresent
Datapoint is located on a mound adjacent t							reserre.
VEGETATION – Use scientific names of plant	s.						
Tree Stratum (Plot size: 1 x 1 meter) 1		Specie	ant Indicator s? Status	Dominance Te Number of Dom That Are OBL,	ninant Spec	ies	(A)
2				Total Number of			
3				Species Across	All Strata:	2	(B)
			Cover	Percent of Dom That Are OBL,			% (A/B)
Sapling/Shrub Stratum (Plot size: 1 x 1 meter) 1				Prevalence Inc	lex worksh	eet:	
2.						Multiply	/ bv:
3.				OBL species		x 1 =	0
4.				FACW species			0
5.				FAC species			135
		= Total	Cover	FACU species	12	x 4 =	48
Herb Stratum (Plot size: 1 x 1 meter				UPL species	40	x 5 =	200
1. Festuca perennis	40	Y	FAC	Column Totals:			383 (B)
2. Rumex pulcher	5	N	FAC			2	0.5
3. Festuca myuros	30	<u>Y</u>	NI			B/A =3.	95
4. Raphanus sativa	2	N	<u>NI</u>	Hydrophytic V	_		
5. Geranium dissectum	3	N	NI	Dominance			
6. Medicago polymorpha	2	N	FACU	Prevalence			
7. Vicia sativa		N	FACU	Morphologi	ical Adaptat Remarks or	on a separate	supporting sheet)
8. Brassica nigra	5	N	NI	Problemati			-
Woody Vine Stratum (Plot size:)		= Total	Cover			-	
1 2				¹ Indicators of hy be present, unle	,	•	0,
		= Total		Hydrophytic Vegetation			
% Bare Ground in Herb Stratum3							
Remarks:							
Sampling location does not meet the criteri	a for hy	droph	ytic vegeta	ition.			

	ription: (Describe	to the dept			dicator o	or confirm	n the absence	of indicators.)			
Depth (inches)	Matrix Color (moist)	<u></u> %	Color (moist)	x Features %	Type ¹	Loc ²	Texture	Remarks			
0-12	7.5YR 3/2	100	Soloi (moist)	/0	· ypc		L	Loam			
<u> </u>	7.311(3)2							20411			
¹ Type: C=C	oncentration, D=Dep	letion RM=I	Reduced Matrix CS	S=Covered o	or Coate	d Sand G	rains ² l o	cation: PL=Pore Lining, M=Matrix.			
	Indicators: (Applic					a cana c		for Problematic Hydric Soils ³ :			
Histosol			Sandy Red				1 cm N	Muck (A9) (LRR C)			
Histic Ep	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm Muck (A10) (LRR B)				
Black Hi	` '			ky Mineral (ed Vertic (F18)			
	n Sulfide (A4)	•		ed Matrix (F	=2)		Red Parent Material (TF2)				
	d Layers (A5) (LRR e lick (A9) (LRR D)	C)	Depleted M	atrix (F3)	6)		Other (Explain in Remarks)				
	d Below Dark Surfac	e (A11)		ark Surface	,						
	ark Surface (A12)	(ressions (F8			³ Indicators of hydrophytic vegetation and				
Sandy M	lucky Mineral (S1)		Vernal Poo	s (F9)			wetland	hydrology must be present,			
	Gleyed Matrix (S4)						unless d	isturbed or problematic.			
	_ayer (if present):										
	ches):						Hydric Soil Present? Yes No				
Remarks:											
No evider	nce of hydric so	oils obser	ved at sampliı	ng point.							
HYDROLO	GY										
Wetland Hy	drology Indicators:	:									
Primary India	cators (minimum of c	one required;	check all that appl	y)			Secor	ndary Indicators (2 or more required)			
Surface	Water (A1)		Salt Crust	(B11)			Water Marks (B1) (Riverine)				
High Wa	iter Table (A2)		Biotic Crus	st (B12)			Sediment Deposits (B2) (Riverine)				
Saturation	on (A3)		Aquatic In	vertebrates	(B13)		Drift Deposits (B3) (Riverine)				
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)							·	rainage Patterns (B10)			
	nt Deposits (B2) (No				_	_		Ory-Season Water Table (C2)			
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)								crayfish Burrows (C8)			
Surface Soil Cracks (B6)Recent Iron Reduction in Tilled Soils (CInundation Visible on Aerial Imagery (B7)Thin Muck Surface (C7)							-	raturation Visible on Aerial Imagery (C9)			
	tained Leaves (B9)	illiagery (D7		olain in Rem			·	hallow Aquitard (D3) AC-Neutral Test (D5)			
Field Obser	. ,		Other (EX	Jiaiii iii i iiciii	idi No)			AO-Neutral Test (D3)			
Surface Water		es N	lo <u>✓</u> Depth (in	ches):							
Water Table											
						Wetland Hydrology Present? Yes No					
(includes cap	oillary fringe)							y 11000iit. 100 <u> </u>			
Describe Re	corded Data (stream	n gauge, mor	nitoring well, aerial	photos, prev	ious ins	pections),	if available:				
Remarks:											
No evider	nce of wetland	hydrolog	y observed at	sampling	g poin	t.					

Project/Site: Raley Blvd Truck Service And Parking Facili	ty (City/Coun	_{nty:} Sacrame	nto County	Sampling Date: 3/26/2024			
Applicant/Owner: SHK Group, LLC State: <u>CA</u> Sampling Point: <u>11</u>								
Investigator(s): C. Gonzalez, P. Martin Section, Township, Range: Del Paso Land Grant within the Rio Linda Quad								
Landform (hillslope, terrace, etc.): Terrace	Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 0-3							
Subregion (LRR): Mediterranean California (LRR C)								
Soil Map Unit Name: San Joaquin fine sandy loam, 0-3%	slopes			NWI classific	cation: None			
Are climatic / hydrologic conditions on the site typical for this ti								
Are Vegetation, Soil, or Hydrologysig					present? Yes <u>√</u> No			
Are Vegetation, Soil, or Hydrology nat				eeded, explain any answe				
SUMMARY OF FINDINGS – Attach site map si	nowing	sampli	ing point l	ocations, transects	s, important features, etc.			
Hydrophytic Vegetation Present? Yes No	/							
Hydric Soil Present? Yes ✓ No			the Sampled					
Wetland Hydrology Present? Yes No	V	WI	thin a Wetlar	1d? Yes	No			
Remarks:								
Datapoint is located in an area that has been recentl vegetation are still present. Hydric soils observed at not meet vegetation or hydrology.								
VEGETATION – Use scientific names of plants	3.							
			nt Indicator ? Status	Dominance Test work				
1		-		Number of Dominant S	Species or FAC:1 (A)			
2								
3				Total Number of Domir Species Across All Stra				
4.					(2)			
				Percent of Dominant S That Are OBL, FACW,	or FAC: 50% (A/B)			
Sapling/Shrub Stratum (Plot size: 1 x 1 meter)				Prevalence Index wor				
1					Multiply by:			
2					x 1 =			
4					x 2 =			
5					x 3 = 210			
			Cover	FACU species 2	x 4 =8			
Herb Stratum (Plot size: 1 x 1 meter)				UPL species 22	x 5 =110			
1. Festuca perennis	70	Y	FAC	Column Totals: 9	95 (A) <u>328</u> (B)			
2. Lupinus bicolor	2	N_	<u>NI</u>		2.45			
3. Festuca myuros	20	Y	NI NI		x = B/A = 3.45			
4. Erodium botrys		N	FACU_	Hydrophytic Vegetation				
5				Dominance Test is Prevalence Index i				
6					aptations¹ (Provide supporting			
7				data in Remark	s or on a separate sheet)			
8		= Total 0	Cover	Problematic Hydro	ophytic Vegetation ¹ (Explain)			
Woody Vine Stratum (Plot size:)		- Total C	Jovei					
1.					il and wetland hydrology must			
2				be present, unless dist	urbed or problematic.			
		= Total 0	Cover	Hydrophytic				
% Bare Ground in Herb Stratum 5	f Biotic C	rust	0	Vegetation Present? Ye	es No <u> </u>			
Remarks:				1				
Sampling location does not meet the criteria	for hv	dronh	tic vegeta	ation.				
			,					

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the i	ndicator	or confirm	n the absence	of indicators.)			
Depth	Matrix	0/	Redox Features Color (moist) % Type ¹ Loc ²			1 2	Tantona	Deventor			
(inches)	Color (moist)	%	Color (moist)	%	Type'		Texture	Remarks			
0-12	7.5YR 4/2	95	7.5YR 4/4	5	С	M	<u>L</u>	Loam			
	-		-				-				
			-								
			-	-							
-	-		-				-				
			=Reduced Matrix, C			ed Sand G		cation: PL=Pore Lining, M=Matrix.			
_		cable to all	LRRs, unless othe		ed.)			s for Problematic Hydric Soils ³ :			
Histosol	` '		Sandy Red					Muck (A9) (LRR C)			
-	pipedon (A2)		Stripped M		1 (54)		· · · · · · · · · · · · · · · · · · ·	Muck (A10) (LRR B)			
Black His			Loamy Mud Loamy Gle					ced Vertic (F18)			
	n Sulfide (A4) I Layers (A5) (LRR	C)	Loamy Gle		(FZ)		Red Parent Material (TF2) Other (Explain in Remarks)				
	ick (A9) (LRR D)	C)	Redox Darl		(F6)		Other	(Explain in Remarks)			
	Below Dark Surfa	ce (A11)	Depleted D		. ,						
-	ark Surface (A12)	,	Redox Dep				³ Indicators	of hydrophytic vegetation and			
Sandy M	lucky Mineral (S1)		Vernal Poo	ls (F9)			wetland hydrology must be present,				
	leyed Matrix (S4)						unless o	disturbed or problematic.			
Restrictive L	ayer (if present):										
Type:											
Depth (inc	ches):						Hydric Soil	I Present? Yes <u>✓</u> No			
Remarks:											
Evidence	of hydric soils	observe	d at sampling r	oint. Sa	ampling	point i	s located in	n an area that has been			
recently o		0.000.10	a. a.c. a.abQ k			, po					
,											
HYDROLO	GY										
	drology Indicators	:									
			d; check all that app	v)			Seco	ndary Indicators (2 or more required)			
Surface '		one require	Salt Crust					Vater Marks (B1) (Riverine)			
	` ,						Sediment Deposits (B2) (Riverine)				
High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13)							Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)				
	arks (B1) (Nonrive	rine)	Hydrogen				Drainage Patterns (B10)				
	nt Deposits (B2) (No					Living Ro		Ory-Season Water Table (C2)			
	oosits (B3) (Nonrive		Presence		_	_		Crayfish Burrows (C8)			
	Soil Cracks (B6)	,	Recent Iro					Saturation Visible on Aerial Imagery (C9)			
·	on Visible on Aerial	Imagery (B				a 000 (0·		Shallow Aquitard (D3)			
	tained Leaves (B9)		Other (Ex					FAC-Neutral Test (D5)			
Field Observ					,						
Surface Water		Yes	No <u>✓</u> Depth (in	ches).							
Water Table			No ✓ Depth (in								
Saturation Pr		· · · · · · · · · · · · · · · · · · ·	No Depth (in				land Hydrolog	y Present? Yes No			
(includes cap	oillary fringe)							,,			
		n gauge, m	onitoring well, aerial	photos, pr	evious ins	pections),	, if available:				
Remarks:											
No evider	nce of wetland	l hydrolo	gy observed at	sampli	ng poin	t.					
		-		•	- •						

Appendix E

Representative Site Photographs



Photo 1. Representative view of low terrace floodplain (TF)-1 looking north. Note that the shovel is at the data point (TF)-1 location. Photo taken 3/26/24.



Photo 2. Representative view of DP-2 in uplands looking north. Photo taken 3/26/24.





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Photo 3. Representative view of DP-3 in a low terrace area that was indicative of upland habitat, looking northeast. Photo taken 3/26/24.



Photo 4. Representative view of DP-4 in a low terrace area that was indicative of upland habitat, looking north. Photo taken 3/26/24.





Photo 5. Vertical drain observed just outside of the Study Area near DP-3 and DP-4, looking north. Photo taken 3/26/24.



Photo 6. Representative view of DP-5 in a recently disked area indicative of upland habitat, looking west. Photo taken 3/26/24.







Photo 7. Representative view of DP-6 on border of disked area near Magpie Creek, looking southwest. Photo taken 3/26/24.



Photo 8. Representative view of seasonal wetland (SW)-1 looking west. Note that the shovel is at the data point DP-7 location. Photo taken 3/26/24.





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Photo 9. Representative view of DP-8 in upland habitat adjacent to SW-1 looking west. Photo taken 3/26/24.



Photo 10. Representative view of SW-2 looking east. Note that the shovel is at the data point DP-9 location. Photo taken 3/26/24.







Photo 11. Representative view of DP-10 in upland habitat adjacent to SW-2 looking southwest. Photo taken 3/26/24.



Photo 12. Representative view of DP-11 in a recently disked area indicative of upland habitat, looking west. Photo taken 3/26/24.

