

# Appendix <u>H</u> ₽

Aquatic Resources Delineation Report

#### **MEMORANDUM**

To: South Coast Branch, Regulatory Division, U.S. Army Corps of Engineers

From: Callie Amoaku, Dudek

Subject: Aquatic Resources Delineation Report for Jacumba Valley Ranch Energy Park; SPL-2019-

00339

Date: December 2, 2019, Revised March 27, 2020

cc: George Gunmoe, BayWa

Patricia Schuyler, Dudek

Attachment(s): Attachment A, Appendix 1 of Regulatory Guidance Letter 16-1, Request for Corps

Jurisdictional Determination

Attachment B, Preliminary Jurisdictional Determination Form

Attachment C, Figures

Attachment D. Data Station Forms and OHWM Datasheets

Attachment E, WETS Table

Attachment F, Review Area Photos

This memo provides the 20 items listed in the Minimum Standards for Acceptance of Aquatic Resources Delineation Reports in support of a preliminary jurisdictional determination for the proposed Jacumba Valley Ranch Energy Park (project) in San Diego County, California.

## Item 1: Request for a Jurisdictional Determination

Attachment A contains Appendix 1 of Regulatory Guidance Letter 16-1, Request for Corps Jurisdictional Determination Form and Attachment B contains the Preliminary Jurisdictional Determination Form.

### Item 2: Contact Information

Applicant:	JVR Energy Park, LLC	Agent:	Dudek
Contact Name:	George Gunmoe	Contact Name:	Callie Amoaku/Patricia Schuyler
Address:	17901 Von Karman Avenue Suite 1050 Irvine, California 92614	Address:	605 Third Street Encinitas, California 92024
Phone:	832.303.2477	Phone:	760.479.4293
Fax:	N/A	Fax	760.632.0164
Email:	George.Gunnoe@baywa- re.com	Email:	cford@dudek.com or pschuyler@dudek.com



#### Item 3: Site Access

A site visit was conducted on January 29, 2020 with Christopher Allen from the Carlsbad Field Office. The project applicant or agent will accompany U.S. Army Corps of Engineers staff to the Review Area for site visit(s).

#### Item 4: Directions to the Review Area

From the west: take Interstate 8 east toward El Centro. Take exit 73 toward Jacumba. Turn right toward Carrizo Gorge Road and then onto Carrizo Gorge Road. Turn right onto Old Highway 80 and arrive at Review Area.

From the east: take Interstate 8 west. Take exit 77 for In-Ko-Pah Park Road. Turn left onto In-Ko-Pah Park Road and left toward Old Highway 80. Turn right onto Old Highway 80 and arrive at Review Area.

#### Item 5: Jurisdictional Delineation Methods

The U.S. Army Corps of Engineers wetlands delineation was performed in accordance with the 1987 U.S. Army Corps of Engineers Wetlands Delineation Manual (ACOE 1987), the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (ACOE 2008a), and A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States: A Delineation Manual (ACOE 2008b).

## Item 6: Aquatic Resources Narrative

The review area contains one aquatic feature formed from runoff from an adjacent parking lot and Carrizo Gorge Road and two borrow pits that were formed entirely in uplands. Acreages are summarized in Table 1.

Table 1. Potential Aquatic and Upland Resources within the Review Area

Feature ID	Resource Type		Acreage
Feature A	Isolated aquatic resource		0.15
Borrow pit 1	N/A		0.18
Borrow pit 2	N/A		1.49
	·	Total acreage	1.76

**Note:** Total may not sum due to rounding.

These 3 features within the Review Area are shown on Figure 2, Potential Aquatic Resources (all figures are provided in Attachment C). The soils are shown on Figure 3, Soils.

Feature A is a short feature formed from runoff associated with Carrizo Gorge Road and the parking lot across the street. There is a culvert directing flow into this drainage from the opposite side of the road, just below grade from the parking lot. Also, Feature A lacks a connection to a TNW or tributaries to TNWs. This feature originates at Carrizo Gorge Road and dissipates into upland approximately 1,000 feet west of the road.

Additionally, there are two borrow pits located near the eastern side of the site that were constructed in 2013/2014 in an upland area associated with a temporary sand and gravel mine. It appears water was stored and/or drained into the borrow pit as part of the mining activities. The borrow pits were dry with little to no vegetation during the January 2019 and February 2020 site visits. The borrow pits support sparse tamarisk and cracked soil as a result of the pit's inundation from mining activities. Two sample points were taken in borrow pit 1: one next to the tamarisk and one outside of the tamarisk. While one of the sample points resulted in positive indicators of a three-parameter wetland, this human-made basin was constructed in an upland area, is considered an artificial wetland, and does not connect to waters of the United States. Borrow pit 2 had even sparser tamarisk with minimal evidence of cracked soil.

At the request of ACOE staff, upland sampling points were taken throughout the fallow agricultural field. The results of the data stations are summarized in Table 2 and included in Attachment D.

**Table 2. Data Station Results** 

Data Station	Location	Hydrophytic Vegetation	Hydric Soils	Hydrology	Three-Parameter Wetland
1A	Borrow pit 1	No	No	Yes	No
1B	Borrow pit 1	Yes	Yes	Yes	Yes
2A	Ag field	No	No	No	No
2B	Ag field	No	No	No	No
3	Ag field	No	No	No	No
4	Ag field	No	No	No	No
5	Ag field	No	No	No	No
6	Ag field	No	No	No	No
7	Ag field	No	No	No	No
8	Ag field	No	No	No	No
9	Ag field	No	No	No	No
10	Ag field	No	No	No	No
11	Ag field	No	No	No	No
12	Borrow pit 2	No	No	Yes	No
13	Ag field	No	No	No	No
14	Ag field	No	No	No	No
15	Ag field	No	No	No	No
16	Ag field	No	No	No	No
17	Ag field	No	No	No	No
18	Ag field	No	No	No	No
19	Ag field	No	No	No	No
20	Ag field	No	No	No	No
21	Ag field	No	No	No	No
22	Ag field	No	No	No	No
23	Ag field	No	No	No	No
24	Ag field	No	No	No	No

## Item 7: Delineation Maps

All maps of delineated resources are provided in Attachment C.

#### Item 8: Dates of Field Work

A jurisdictional delineation for the review area was conducted in August 2018 by Dudek biologists Callie Amoaku, Scott Gressard, and Lindsy Mobley (Table 3). An additional site visit was conducted in January 2019 by Dudek biologist Erin Bergman to sample locations in the borrow pit. The freshwater marsh, which was not observed during the original delineation, was evaluated in April 2019 by Dudek biologists Callie Amoaku and Patricia Schuyler. On September 24, 2019, Dudek biologist Shana Carey took some additional photos on site and looked for any changes compared to the original delineation and additional sample points were collected on February 24, 2020.

Table 3. Schedule of the Jurisdictional Delineation Conducted for the Jacumba Valley Ranch Review Area

Date	Hours	Personnel	Conditions
8/2/2018	0800-1640	Callie Amoaku, Scott Gressard	80°F-96°F; 0% cc; 0-4 mph wind
8/7/2018	0900-1515	Scott Gressard, Lindsy Mobley	89°F-95°F; 0%-10% cc; 1-6 mph wind
8/22/2018	0930-1430	Scott Gressard	87°F-102°F; 0%-30% cc; 1-6 mph wind
1/20/2019	0800-1000	Erin Bergman	53°F-63°F; 0%-10% cc; 0-2 mph wind
4/24/2019	1645-1743	Callie Amoaku, Patricia Schuyler	85°F-88°F; 0% cloud cover; 1-5 mph wind
9/24/2019	1200-1345	Shana Carey	81°F-84°F; 0% cloud cover; 1-5 mph wind
2/24/2020	0830-1600	Shana Carey, Cody Schaaf	54-67°F; 0-20% cloud cover; 0-8 mph wind

**Notes:** cc = cloud cover; mph = miles per hour.



## Item 9: Table of Aquatic Resources

Table 4 includes a description of each aquatic resource, its associated ordinary high water mark datasheet transect number, its Cowardin type, any ordinary high water mark indicators present, the dominant vegetation, hydric soils, the location, and the acreage/linear feet.

Table 4. Potential Aquatic Resources and Upland Areas within the Review Area

Feature Name	OHWM Datasheet Transect	Cowardin <sup>1</sup>	Ordinary High Water Mark Indicators	Dominant Vegetation	Hydric Soils <sup>2</sup>	Location (Lat/Long)	Acreage/ Linear Feet
Aquatic Reso	urces						
Feature A	Transects A and B	Riverine	Drift and/or debris; presence of bed and bank; soil development; surface relief	Mostly unvegetated with some Sonoran mixed woody and succulent scrub vegetation	No	32.633619, - 116.166389	0.09/790
Borrow pit 1	_	_	Mud cracks	Unvegetated with sparse tamarisk ( <i>Tamarix</i> ramosissima)	No	32.632046, - 116.170317	0.18
Borrow pit 2	_	_	Minimal mud cracks	Unvegetated with sparse tamarisk ( <i>Tamarix</i> ramosissima)	Yes	32.628178, - 116.176196	1.49
N/A	Transect C	_	None	Disturbed habitat	No	32.627400, - 116.168333	N/A
N/A	Transect D	_	None	Disturbed habitat	Yes	32.613358, - 116.176944	N/A

**Notes:** OHWM = ordinary high water mark.



<sup>&</sup>lt;sup>1</sup> USFWS 2019.

<sup>&</sup>lt;sup>2</sup> These soils have a hydric rating based on the State Soil Data (USDA 2020).

## Item 10: Review Area Description

The Review Area is located south of Interstate 8 within private lands located immediately east of the community of Jacumba Hot Springs and adjacent to the U.S./Mexico Border in eastern San Diego County, California (Figure 1, Project Location). The Review Area is situated south and west of Carrizo Gorge Road and immediately north of the U.S./Mexico Border. The Review Area lies within the Jacumba U.S. Geological Survey 7.5-minute quadrangle, Townships 17 South and 18 South, Range 8 East, Sections 4, 5, 8, 9, 32, and 33 (Figure 1). The elevation range within the Review Area is from 2,720 feet to 3,360 feet above mean sea level.

Portions of the site were previously used for agricultural purposes and the central areas are relatively flat. The eastern and western portions are gentle to steep hillslopes. There are numerous dirt roads traversing the site, and the San Diego and Arizona Eastern Railway is located along the western side of the site.

## Item 11: Hydrology

The proposed project falls within the Jacumba Valley hydrologic subarea of the Jacumba hydrologic area located within the Anza Borrego hydrologic unit (Figure 4, Hydrologic Setting). Table 5 shows the hydrologic unit, hydrologic area, and hydrologic subarea information based on the Water Quality Control Plan for the Colorado River Basin (Region No. 7) (RWQCB 2006).

Table 5. Project Hydrologic Characteristics

Hydrologic Unit	Hydrologic Area	Hydrologic Subarea
Anza Borrego (722.00)	Jacumba (722.70)	Jacumba Valley (722.72)

The Review Area is less than 1% of the area encompassed by the Jacumba Valley hydrologic subarea. The region can be characterized as relatively arid and dominated by ephemeral drainages that convey runoff during and/or shortly after rain events—there are no permanent bodies of water in or near the Review Area. Surface and subsurface water generally flows north via shallow drainages to a floodplain (named Carrizo Gorge Creek (SANGIS 2019)) that eventually flows into the northerly draining Carrizo Creek, which eventually flows into the Carrizo Wash. The Carrizo Wash drains into the San Felipe Creek. The endpoint of the watershed is the Salton Sea.

A WETS table is provided in Attachment E.

## Item 12: Remote Sensing

Remote sensing was not used for the delineation.

#### Item 13: Soils

Soil types within the Review Area are shown on Figure 3. Soils mapped within the Review Area include acid igneous rock land; Carrizo very gravelly sand, 0% to 9% slopes; Indio silt loam, 0% to 2% slopes; Indio silt loam, 2% to 5% slopes; Indio silt loam, saline, 0% to 2% slopes; Ramona sandy loam, 9% to 15% slopes, eroded; Reiff fine sandy loam, 0% to 2% flops; Rositas loamy coarse sand, 2% to 9% slopes; sloping gullied land; and stony land (USDA 2019).

## Item 14: Site Location Maps

All maps are provided in Attachment C.

## Item 15: Aquatic Features Spreadsheet

A copy of the OMBIL Regulatory Module Bulk Upload Aquatic Resources or Consolidated Excel spreadsheet is not submitted with this memo because Table 4, Potential Aquatic Resources and Upland Areas within the Review Area, provides all of the information requested.

## Item 16: Delineation Maps

All maps are provided in Attachment C.

## Item 17: Photographs

Photos of the Review Area are provided in Attachment F.

#### Item 18: Data Forms

Completed wetland data determination forms and ordinary high water mark datasheets are provided in Attachment D.

#### Item 19: Methods

Potential aquatic resources and upland areas were mapped in the field using a Trimble GeoXT GPS with submeter accuracy. The delineators determined the extent of U.S. Army Corps of Engineers jurisdiction using the ordinary high water mark as outlined in A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States (ACOE 2008a) and the Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States (ACOE 2010). Potential wetlands were assessed using the 1987 Corps of Engineers Wetlands Delineation Manual (ACOE 1987) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (ACOE 2008b).

## Item 20: Digital Data

Geographic information system data is provided with this application submittal.

### References

- ACOE (U.S. Army Corps of Engineers). 1987. Corps of Engineers Wetlands Delineation Manual. Online ed.
  Environmental Laboratory, Wetlands Research Program Technical Report Y-87-1. Vicksburg, Mississippi:
  U.S. Army Engineer Waterways Experiment Station. January 1987. http://www.cpe.rutgers.edu/
  Wetlands/1987-Army-Corps-Wetlands-Delineation-Manual.pdf.
- ACOE. 2008a. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0). Environmental Laboratory, ERDC/EL TR-08-28. Vicksburg, Mississippi: U.S. Army Engineer Research and Development Center. September 2008. https://www.nrcs.usda.gov/Internet/FSE\_DOCUMENTS/stelprdb1046489.pdf.
- ACOE. 2008b. A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States: A Delineation Manual. ERDC/CRREL TR-08-12. Prepared by R.W. Lichvar and S.M. McColley. Hanover, New Hampshire: U.S. Army Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory. August 2008. https://apps.dtic.mil/dtic/tr/fulltext/u2/a486603.pdf.
- ACOE. 2010. Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States. Wetland Regulatory Assistance Program, ERDC/CRREL TN-10-1.

  Prepared by K.E. Curtis and R.W. Lichvar. Hanover, New Hampshire: U.S. Army Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory. July 2010.
- Historic Aerials. 2019. Viewer. Accessed September 23, 2019. www.historicaerials.com.
- RWQCB (California Regional Water Quality Control Board). 2006. *Water Quality Control Plan Colorado River Basin Region 7*. Adopted November 17, 1993 with amendments through June 2006. Accessed October 21, 2014. http://www.waterboards.ca.gov/coloradoriver/publications\_forms/publications/docs/basinplan\_2006.pdf.
- USDA (U.S. Department of Agriculture). 2019. Web Soil Survey. USDA Natural Resources Conservation Service, Soil Survey Staff. Accessed January 2019. http://websoilsurvey.nrcs.usda.gov/.
- USDA. 2020. "State Soil Data Access (SDA) Hydric Soils List." Accessed March 25, 2020. https://www.nrcs.usda.gov/Internet/FSE\_DOCUMENTS/nrcseprd1316619.html.
- USFWS (U.S. Fish and Wildlife Service). 2019. "National Wetland Inventory" [map]. Accessed January 2019. http://www.fws.gov/data.
- USGS (U.S. Geological Survey). 2018. "Flow lines, water points, watershed boundaries" [digital GIS data]. National Hydrography Dataset website. August 27, 2018. http://nhd.usgs.gov/.

# Attachment A

Request for Corps Jurisdictional Determination Form

#### Appendix 1 - REQUEST FOR CORPS JURISDICTIONAL DETERMINATION (JD)

To: District Name Here

•	I am requesting a JD or	n property located a			0	
	City/Tayyahin/Dariah	lagumba		(Street Address)	Ctata	
	City/Township/Parish: _ Acreage of Parcel/Revi		County: _	San Diego	State:	
		wnship: 18 South	Range:	- 8 East		
	Latitude (decimal degre				-116.17861200000	
	(For linear projects, ple					
•	Please attach a survey/	plat map and vicinit	ty map ide	ntifying location ar	nd review area fo	or the JD.
•	✓ I currently own this	property.	l pla	an to purchase this	property.	
	I am an agent/cons		nalf of the	requestor.		
	Other (please expla		nlia a bla \			·
•	Reason for request: (ch			activities on this r	parcel which wou	uld be designed to
	avoid all aquatic resour		or periorii	i activities off this p	Darcer Willelf Woo	nd be designed to
	I intend to construct		or perform	activities on this r	parcel which wou	ıld be designed to
	avoid all jurisdictional a				ourour willou woo	na so accignou to
	I intend to construc				parcel which may	v require
	authorization from the 0					
	aquatic resources and a				•	-
						y require authorization from
						ed in the permitting process
	I intend to construc					he U.S. which is
	included on the district					
	A Corps JD is requ					orna confirm that
	jurisdiction does/does r					orps commit mat
		ite may be comprise			•	
	Other:		- a. c	o. a., .aa.		
•	Type of determination by	peing requested:				
	I am requesting an					
	✓ I am requesting a p	oreliminary JD.				
	I am requesting a "					
	I am unclear as to	which JD I would lik	e to reque	st and require add	itional information	on to inform my decision.
D	-::::-:-:-:-:-:-:-:-:-:-:-:-:-:		Al	.41:4		
	signing below, you are in					
	son or entity with such a if needed to perform the					
	its to request a JD on the		e silali be	an aminiation that	i you possess iii	e requisite property
9.	no to roquoot a ob on ar	o dabjoot proporty.				
*Ci/	anoturo:	Digitally signed by Kishore Madduri DN: cn=Kishore Madduri, c=US, o=Jacumba Vi	alley Ranch,	Data: March	h 25, 2020	
Οlί	gnature:	emall-jacumbavalleyranch@gmail.com Date: 2019.11.25.23:11:07 +6700*		Date: Marci	11 23, 2020	_
•	Typed or printed name:	KISHORE MADDURI				
	Company name:	JACUMBA VALLEY RANCH	LLC			
	Address:	2423 CAMINO DEL RIO S, S	STE#212			
		SAN DIEGO 92108				
	Daytime phone no.:	408-338-6052				
	Email address:	JACUMBAVALLEYRANCH(	@GMAIL.COM			

\*Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332.

**Principal Purpose:** The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above.

Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USACE website.

Disclosure: Submission of requested information is voluntary; however, if information is not provided, the request for an AJD cannot be evaluated nor can an AJD be issued.

# Attachment B

Preliminary Jurisdictional Determination Form

#### PRELIMINARY JURISDICTIONAL DETERMINATION FORM

This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

District Office Los Angeles Dist	rict File/ORM #	SPL-2019-003	39		PJD Date:	Mar 27, 2020	
State CA City/County Jacum	nba/San Diego		Name/				_
Nearest Waterbody: Salton Sea			Address of	Callie Am 605 Third	ioaku/Patricia S Street	chuyler	
Location: TRS, LatLong or UTM: 32.632046, -116.1	170317		Person Requesting PJD	Encinitas, California 92024			
Identify (Estimate) Amount of Water  Non-Wetland Waters:  linear ft width ac	rs in the Review Area: Stream Flow:	Name of Any on the Site Io Section 10	dentified as Waters: Nor	Tidal:			
Wetlands: acre(s) Cowardin Class:			(Desk) Determina etermination:		of Field Trip: see 1	report	
	persisted by or on behalf of the data sheets/delineation cur with	of the applicant e applicant/con report. ineation report  cumba  Survey. Citati WS 2019  mse letter:	t/consultant: nsultant.  On: USDA 201:	9 not be relied	upon for later jurisd		
Signature and Date of Regulatory Project Ma (REQUIRED)	nager		ture and Date of F		sting Preliminary Jl ignature is impracti		-

#### ${\bf EXPLANATION\ OF\ PRELIMINARY\ AND\ APPROVED\ JURISDICTIONAL\ DETERMINATIONS:}$

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; a

#### PRELIMINARY JURISDICTIONAL DETERMINATION FORM

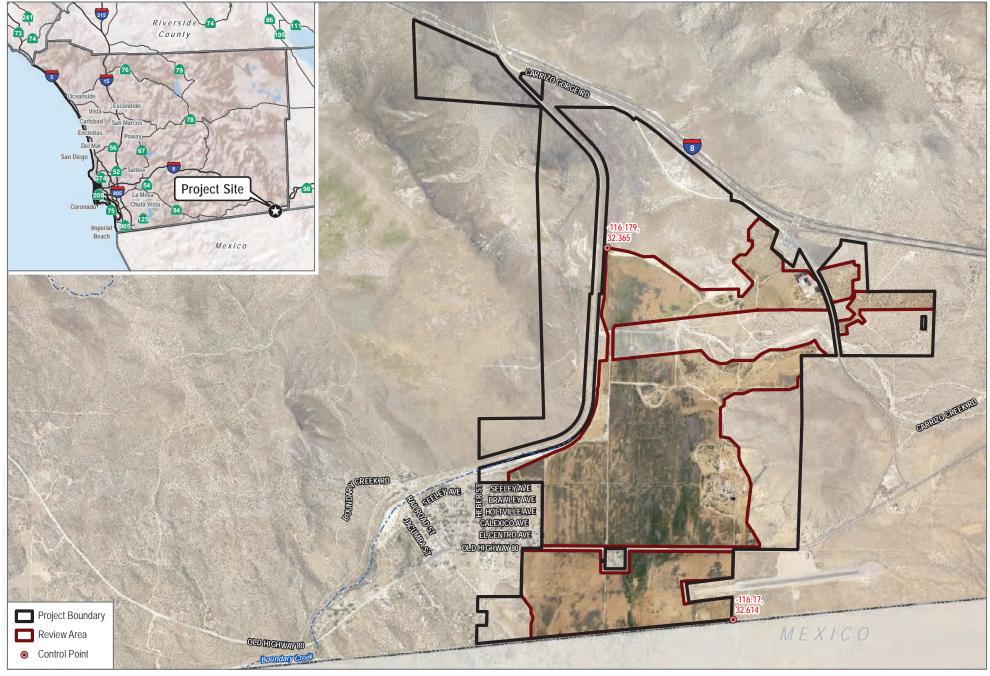
This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

Appendix A - Sites

						rippelialix 11	. 511				
District	t Office	Los Ang	geles Distric	ct Fil	le/ORM#	SPL-2019-0033	39		PJD Date:	Mar 27, 2020	
State	CA	City/Co	unty Jacum	nba/San Di	iego		Per	son Requestinq PJD	Callie Amoak	u/Patricia Schu	ıyler
	Site Num		Latitude	Lon	gitude	Cowardin Cla	ass	Est. Amount of Aquatic Resource in Review Area	Class o		
									1		
				ļ.		ı					
	Notes	:									

# Attachment C

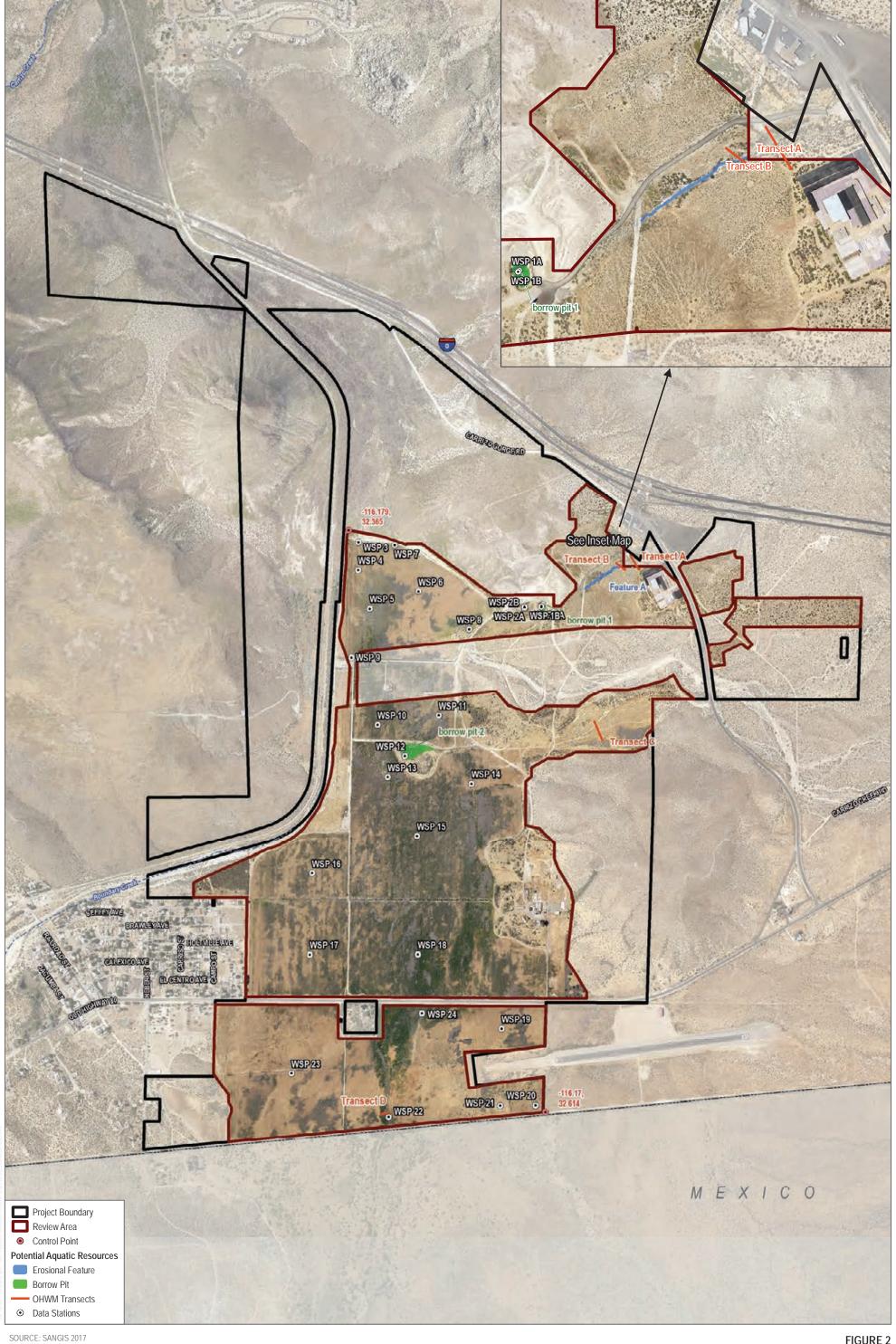
Figures

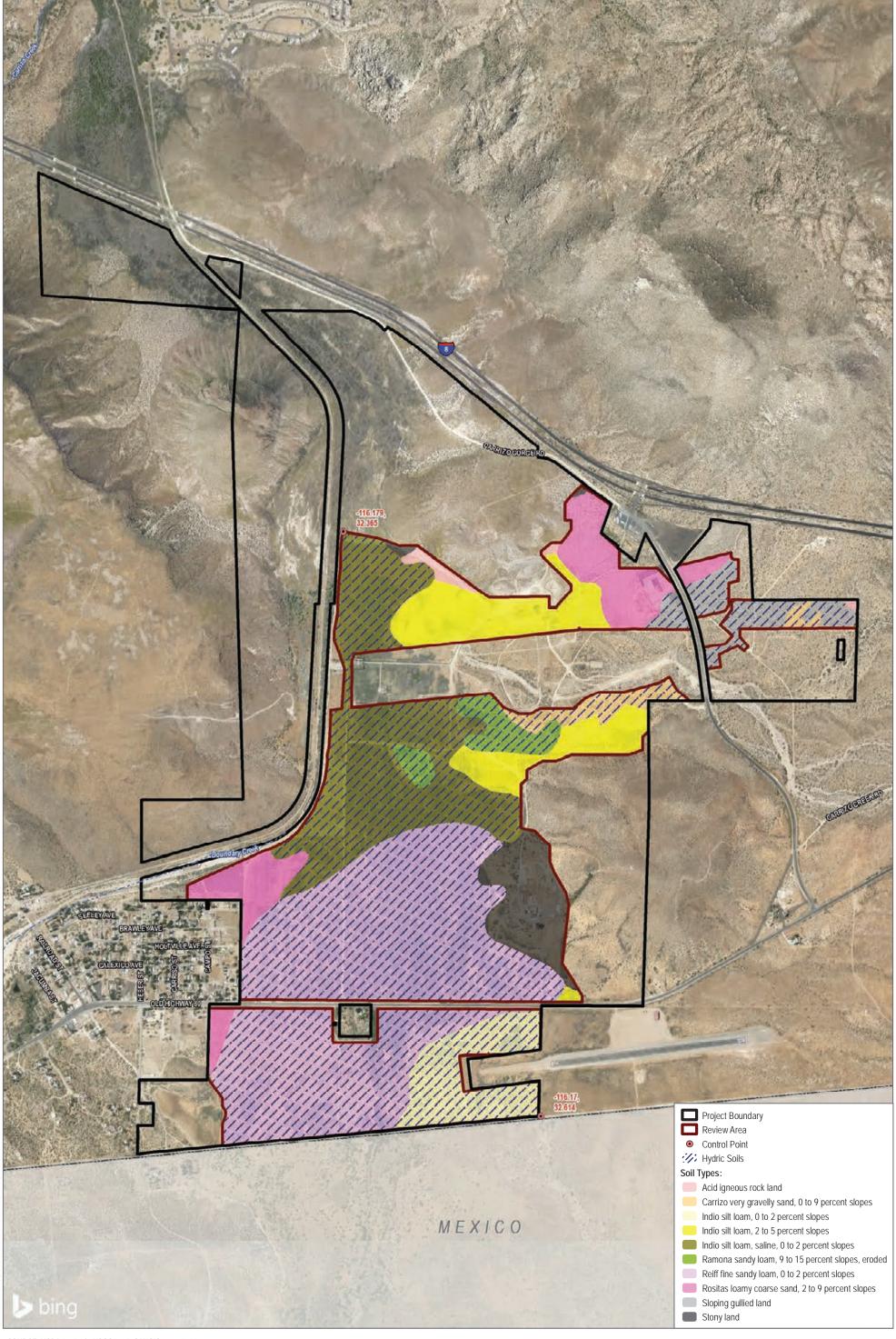


SOURCE: SANGIS 2017, 2020; ESRI 2020

**DUDEK** & 0 1,000 2,000 Feet

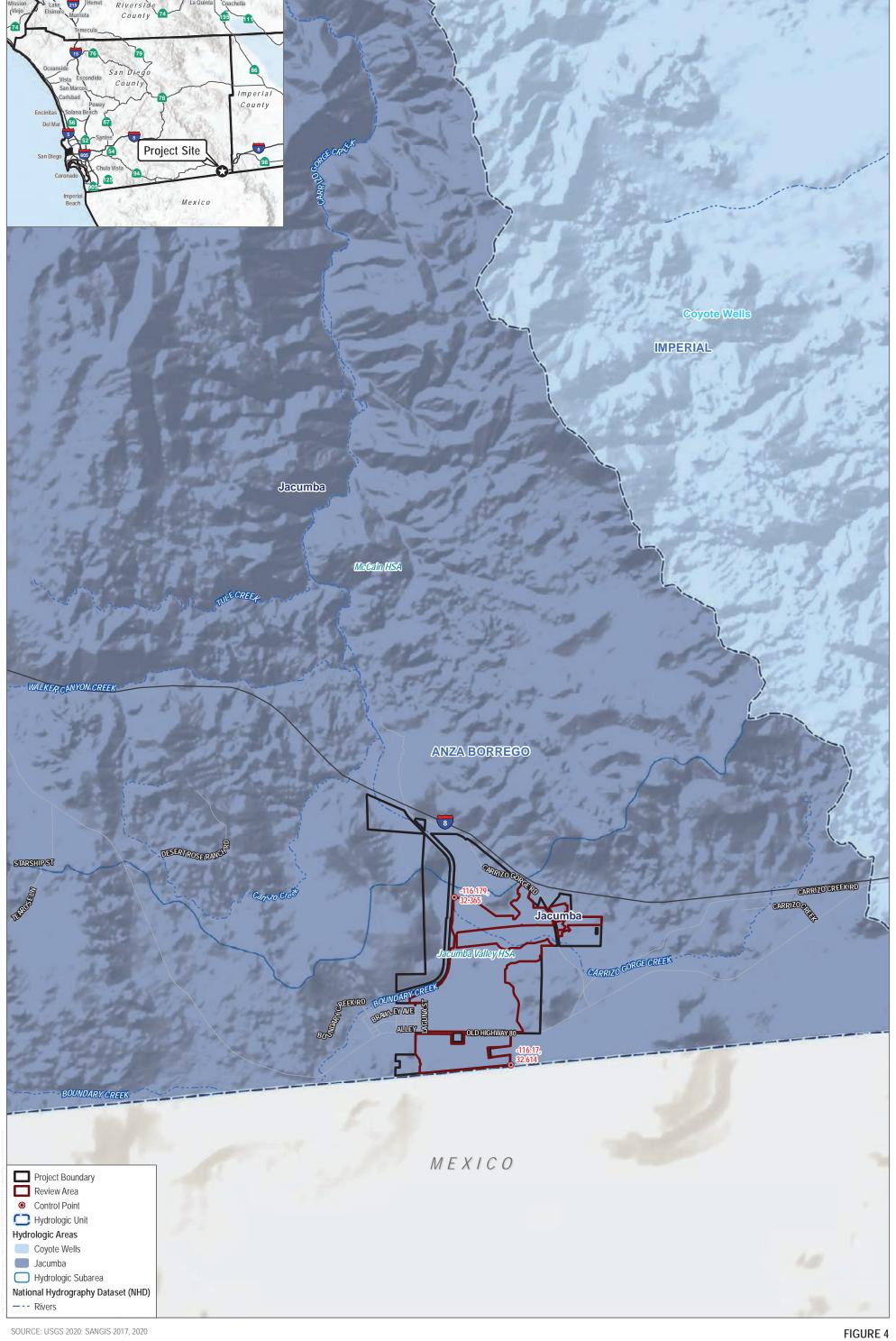
FIGURE 1 Project Location





SOURCE: USDA 2019a, b; USGS 2018; SANGIS 2017, 2020

DUDEK &



SOURCE: USGS 2020; SANGIS 2017, 2020

DUDEK &

# Attachment D

Data Station Forms and OHWM Datasheets

Project: Jacumba Valley Rand Project Number: 10743 Stream: Flature 13 Investigator(s): Shana Canaly	Date: 9/24//9 Town: 11 5 Photo,begin file#:	Time: State: (A Photo end file#:
Y / N Do normal circumstances exist on the site?	Location Details:	
Y / N / Is the site significantly disturbed?	Projection: Coordinates:	Datum:
✓ Vegetation maps       ☐ Results         ☐ Soils maps       ☐ Most re         ☐ Rainfall/precipitation maps       ☐ Gage h	Parking of side	harges ysis g 125-year events and the
☐ Global positioning system (GPS) ☐ Other studies  Hydrogeomorphic FI		
Active Floodplain  Low-Flow Channels	DOM Terrace  CHWM Paleo Cha	innet:
<ol> <li>Procedure for identifying and characterizing the floodp</li> <li>Walk the channel and floodplain within the study area to vegetation present at the site.</li> <li>Select a representative cross section across the channel. D</li> <li>Determine a point on the cross section that is characteristally Record the floodplain unit and GPS position.</li> <li>Describe the sediment texture (using the Wentworth of floodplain unit.</li> <li>Identify any indicators present at the location.</li> <li>Repeat for other points in different hydrogeomorphic floof floodplain the OHWM and record the indicators. Record the Mapping on aerial photograph</li> <li>Digitized on computer</li> </ol>	o get an impression of the Draw the cross section and stic of one of the hydrogen class size) and the vegetal codplain units across the	e geomorphology and d label the floodplain units. comorphic floodplain units. tion characteristics of the

Project ID: 10743 Cross section ID: Cross section drawing:	
N	SAL WAS
5m W55 QU Y	JAN WYS
<u>OHWM</u>	
GPS point:	
W. Maria	
Indicators:  Change in average sediment texture	Break in bank slope
Change in vegetation species	Other:
Change in vegetation cover	Other:
Commence	
Comments:	
	Active Floodplain   Law Torrace
Floodplain unit:	☐ Active Floodplain ☐ Low Terrace
Floodplain unit:	☐ Active Floodplain ☐ Low Terrace
Floodplain unit:	☐ Active Floodplain ☐ Low Terrace
Floodplain unit: Low-Flow Channel  GPS point:  Characteristics of the floodplain unit:  Average sediment texture:	
Floodplain unit:  Low-Flow Channel  GPS point:  Characteristics of the floodplain unit:  Average sediment texture:% SI  Total veg cover:% Tree:% SI	
Floodplain unit:  Low-Flow Channel  GPS point:  Characteristics of the floodplain unit:  Average sediment texture:  Total veg cover:% Tree:% SI  Community successional stage:	hrub:% Herb:%
Floodplain unit:	hrub:% Herb:%  Mid (herbaceous, shrubs, saplings)
Floodplain unit:	hrub:% Herb:%
Floodplain unit:	hrub:% Herb:%  Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)
Floodplain unit:	hrub:% Herb:%  Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)  Soil development
Floodplain unit:	hrub:% Herb:%  Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)  Soil development Surface relief
Floodplain unit:	hrub:% Herb:%  Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)  Soil development Surface relief Other:
Floodplain unit:	hrub:% Herb:%  Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)  Soil development Surface relief

Transect b	Transe
------------	--------

Project: JVR Project Number: Stream: Transect 1( Investigator(s): Cody School Shame Co	Date: 2/24/20 Time: n/a Town: State: Photo begin file#: Photo end file#:
Y N Do normal circumstances exist on the site?	Location Details:
Y / N Is the site significantly disturbed?	Projection: Datum: Coordinates:
Potential anthropogenic influences on the channel sys  Newby roads	
Brief site description: Drainage Coming of Project Site.	off Carrito Gorge Rd. onto
Vegetation maps  Soils maps  Resul  Most  Rainfall/precipitation maps  Gage	iber:
Hydrogeomorphic	Floodplain Units
Active Floodplain  Low-Flow Channels	OHWM Paleo Channel
<ol> <li>Procedure for identifying and characterizing the floot</li> <li>Walk the channel and floodplain within the study are vegetation present at the site.</li> <li>Select a representative cross section across the channe</li> <li>Determine a point on the cross section that is characted a) Record the floodplain unit and GPS position.</li> <li>Describe the sediment texture (using the Wentwork floodplain unit.</li> <li>Identify any indicators present at the location.</li> <li>Repeat for other points in different hydrogeomorphics.</li> <li>Identify the OHWM and record the indicators. Record Mapping on aerial photograph Digitized on computer</li> </ol>	a to get an impression of the geomorphology and  1. Draw the cross section and label the floodplain units.  eristic of one of the hydrogeomorphic floodplain units.  th class size) and the vegetation characteristics of the  e floodplain units across the cross section.

Project ID: Cross section ID: T// Date: 2/24/2010 Time:
Cross section drawing:
Cross section drawing:  Road  Nounds 400 Hwms  Low Harchannel
W \ E
OHWA MAHUM
<u>OHWM</u>
GPS point:
Indicators:
Change in average sediment texture Break in bank slope
Change in vegetation species Change in vegetation cover Other: Other:
Change in Vegetation cover
Comments: Steer, dramatic cut banks and sandy channel bottom. No OHLUM indicators associated up
bottom. No OHWM indicators associated we
mounds to W
, or act 2 t )
Floodplain unit:  Low-Flow Channel
GPS point:
Characteristics of the floodplain unit:
Average sediment texture: Sand
Total veg cover:% Tree:% Shrub:% Herb:%  Community successional stage:
NA Mid (herbaceous, shrubs, saplings)
Early (herbaceous & seedlings)  Late (herbaceous, shrubs, mature trees)
Indicators:
☐ Mudcracks ☐ Soil development   ☐ Ripples ☐ Surface relief
/ <del></del>
Drift and/or debris  Presence of bed and bank  Other:  Other:
Benches Uther:
Comments: Drift deposits apparent on sides of channel along
Comments: Drift deposits apparent on sides of channel along w/ obvious banks and bed. Channel comes from culvert
fedby upstream road runoff

Transect C	,

= . =	
Project: JVR	Date: 2/24/2020 Time: n/a
Project Number:	Town: Jacumbo State:
Stream: #12 T12	Photo begin file#: Photo end file#:
Investigator(s): Lady Scharf + Shar-Core	7
Y / N Do normal circumstances exist on the site?	Location Details:
Y / N Is the site significantly disturbed?	Projection: Datum: Coordinates:
Potential anthropogenic influences on the channel syst	em:
Brief site description:	
Moundedoren on eas	terr portion of 5ite
Checklist of resources (if available):	
Aerial photography Dates:  Topographic maps Geologic maps Vegetation maps Soils maps Rainfall/precipitation maps Gage numl Period of r History Results Gage I	ber: ecord: y of recent effective discharges s of flood frequency analysis ecent shift-adjusted rating neights for 2-, 5-, 10-, and 25-year events and the ecent event exceeding a 5-year event
Low-Flow Channels  Procedure for identifying and characterizing the flood	OHWM Paleo Channel
1. Walk the channel and floodplain within the study area	to get an impression of the geomorphology and
vegetation present at the site.	Durantha arrang another and 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
2. Select a representative cross section across the channel.	
3. Determine a point on the cross section that is character	istic of one of the hydrogeomorphic hoodplain units.
a) Record the floodplain unit and GPS position.	along size) and the wegetation about attaining after
b) Describe the sediment texture (using the Wentworth	ciass size) and the vegetation characteristics of the
floodplain unit.	
c) Identify any indicators present at the location.	loodulain units a gross the areas section
4. Repeat for other points in different hydrogeomorphic f	
5. Identify the OHWM and record the indicators. Record	the OHWM position via: None - No OHW
Mapping on aerial photograph	<u> </u>
Digitized on computer	Other:

Project ID: Cross section ID: 7 2 Date: 2/14/2010 Time:	
Cross section drawing:	
Eross section drawing:	
	,
5	)
<u>OHWM</u>	
GPS point:	
Indicators:	
Change in average sediment texture  Change in vegetation species  Break in bank slope  Other:	
Change in vegetation species Change in vegetation cover Other: Other:	
Comments: No OH WM indicators; No signs of flo Or water conveyance - only small changes in	
The sight of The sight of The	<u>_</u>
or water conveyance - only small changes in	
relief. Not even a consistent smale.	
a consistent small.	
Floodplain unit:    Low-Flow Channel    Active Floodplain    Low Terrace	
Eow Tenace	
GPS point:	
Characteristics of the floodplain unit:	
Average sediment texture:	
Total veg cover: % Tree: % Shrub: % Herb: %	
Community successional stage:  NA Mid (herbaceous, shrubs, saplings)	
Early (herbaceous & seedlings)  Late (herbaceous, shrubs, mature trees)	
Indicators:  Mudcracks  Soil development	
Ripples Surface relief	
Drift and/or debris Other:	
Presence of bed and bank Other:  Benches Other:	
Comments:	
Comments.	

Transect D	

Project: JVP	Date: 2/24/20	Time:
Project Number: 10743	Town:	State:
Stream: TO	Photo begin file#:	Photo end file#:
Investigator(s): Cody School, Shara Co	8ey	
Y / N Do normal circumstances exist on the site?	Location Details:	
Y / N Is the site significantly disturbed?	Projection: Coordinates:	Datum:
Potential anthropogenic influences on the channel syst		
Nearby roads, border, a.	d residential	lots/homesteads.
Brief site description: Aser inst north o.	f barler a 11	-/
Brief site description: Area just north or in open agricult	-ural field	showing change
Checklist of resources (if available):		
Aerial photography	,	,
Dates: 2020 Gage num		
Topographic maps Period of r Geologic maps Histor	ecord: y of recent effective disch	narges
	s of flood frequency analy	0
1	ecent shift-adjusted rating	1
	neights for 2-, 5-, 10-, and	- 1
	ecent event exceeding a 5	
Global positioning system (GPS)		
Other studies		
Hydrogeomorphic F	loodplain Units	
, Active Floodplain		
	Low Terrace	
	Low Terrace	1
	Low Terrace	4.
	Low Terrace	*
	Low Terrace	
	Low Terrace	*
Low-Flow Channels	OHWM Paleo Cha	innel
Procedure for identifying and characterizing the flood	OHWM Paleo Cha	lentifying the OHWM:
Procedure for identifying and characterizing the flood  1. Walk the channel and floodplain within the study area to	OHWM Paleo Cha	lentifying the OHWM:
Procedure for identifying and characterizing the flood  1. Walk the channel and floodplain within the study area to vegetation present at the site.	OHWM Paleo Chaplain units to assist in ico	dentifying the OHWM: e geomorphology and
Procedure for identifying and characterizing the flood  1. Walk the channel and floodplain within the study area to vegetation present at the site.  2. Select a representative cross section across the channel.	OHWM Paleo Cha  plain units to assist in ic  to get an impression of the  Draw the cross section an	dentifying the OHWM: e geomorphology and d label the floodplain units.
<ol> <li>Procedure for identifying and characterizing the flood</li> <li>Walk the channel and floodplain within the study area to vegetation present at the site.</li> <li>Select a representative cross section across the channel.</li> <li>Determine a point on the cross section that is characterized.</li> </ol>	OHWM Paleo Cha  plain units to assist in ic  to get an impression of the  Draw the cross section an	dentifying the OHWM: e geomorphology and d label the floodplain units.
<ol> <li>Procedure for identifying and characterizing the flood</li> <li>Walk the channel and floodplain within the study area to vegetation present at the site.</li> <li>Select a representative cross section across the channel.</li> <li>Determine a point on the cross section that is characteria.</li> <li>Record the floodplain unit and GPS position.</li> </ol>	OHWM Paleo Chaplain units to assist in ice of one of the hydrog	dentifying the OHWM: e geomorphology and d label the floodplain units. eomorphic floodplain units.
<ol> <li>Procedure for identifying and characterizing the flood</li> <li>Walk the channel and floodplain within the study area to vegetation present at the site.</li> <li>Select a representative cross section across the channel.</li> <li>Determine a point on the cross section that is characterized.</li> </ol>	OHWM Paleo Chaplain units to assist in ice of one of the hydrog	dentifying the OHWM: e geomorphology and d label the floodplain units. eomorphic floodplain units.
<ol> <li>Procedure for identifying and characterizing the flood</li> <li>Walk the channel and floodplain within the study area to vegetation present at the site.</li> <li>Select a representative cross section across the channel.</li> <li>Determine a point on the cross section that is characteria.</li> <li>Record the floodplain unit and GPS position.</li> <li>Describe the sediment texture (using the Wentworth)</li> </ol>	OHWM Paleo Chaplain units to assist in ice of one of the hydrog	dentifying the OHWM: e geomorphology and d label the floodplain units. eomorphic floodplain units.
<ol> <li>Procedure for identifying and characterizing the flood</li> <li>Walk the channel and floodplain within the study area to vegetation present at the site.</li> <li>Select a representative cross section across the channel.</li> <li>Determine a point on the cross section that is characteria.</li> <li>Record the floodplain unit and GPS position.</li> <li>Describe the sediment texture (using the Wentworth floodplain unit.</li> </ol>	OHWM Paleo Chaplain units to assist in ice of get an impression of the Draw the cross section and stic of one of the hydrog class size) and the vegeta	dentifying the OHWM: e geomorphology and d label the floodplain units. ecomorphic floodplain units. ation characteristics of the
<ol> <li>Procedure for identifying and characterizing the flood</li> <li>Walk the channel and floodplain within the study area to vegetation present at the site.</li> <li>Select a representative cross section across the channel.</li> <li>Determine a point on the cross section that is characteria.</li> <li>Record the floodplain unit and GPS position.</li> <li>Describe the sediment texture (using the Wentworth floodplain unit.</li> <li>Identify any indicators present at the location.</li> </ol>	OHWM Paleo Chaplain units to assist in ice of get an impression of the Draw the cross section an stic of one of the hydrog class size) and the vegeta coodplain units across the	dentifying the OHWM: e geomorphology and d label the floodplain units. ecomorphic floodplain units. ation characteristics of the
<ol> <li>Procedure for identifying and characterizing the flood</li> <li>Walk the channel and floodplain within the study area to vegetation present at the site.</li> <li>Select a representative cross section across the channel.</li> <li>Determine a point on the cross section that is characteria.</li> <li>Record the floodplain unit and GPS position.</li> <li>Describe the sediment texture (using the Wentworth floodplain unit.</li> <li>Identify any indicators present at the location.</li> <li>Repeat for other points in different hydrogeomorphic floodplain.</li> </ol>	OHWM Paleo Chaplain units to assist in ice of get an impression of the Draw the cross section an stic of one of the hydrog class size) and the vegeta coodplain units across the	dentifying the OHWM: e geomorphology and d label the floodplain units. ecomorphic floodplain units. ation characteristics of the

Cross section drawing:	/ > /
₩	Minor mounding wy higher veg- Love
	•
<u>OHWM</u>	
GPS point:	
	☐ Break in bank slope ☐ Other: ☐ Other:
Comments: \\ \lambda \lambda \\ \	w/standing water
but topography and relief do of water that would lead a feature. Data Ste	oserved. Mounds present in place or not suggest any flow or concentrate this to be characterized as attion rules out hydric soils /veg.
Floodplain unit:	☐ Active Floodplain ☐ Low Terrace
GPS point:	
Characteristics of the floodplain unit:  Average sediment texture:	rub:% Herb:%
Characteristics of the floodplain unit:  Average sediment texture:	rub:% Herb:%  Mid (herbaceous, shrubs, saplings) Late (herbaceous, shrubs, mature trees)
Characteristics of the floodplain unit:  Average sediment texture:  Total veg cover: % Tree: % Sh  Community successional stage:  NA	Mid (herbaceous, shrubs, saplings)

#### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Jacumba Valley Ranch	City/County: Jacum	ba/San Diego	Sampling Date: 01/20/19
Applicant/Owner: JVR Energy Park, LLC		State:CA	Sampling Point: 1a
Investigator(s): E. Bergman	Section, Township,	Range:S4 T18S R8E	
Landform (hillslope, terrace, etc.): Artificial basin within terrace	Local relief (concav	ve, convex, none):Convex	Slope (%): N/A
Subregion (LRR):C - Mediterranean California Lat: 32	.632047	Long:-116.170317	Datum: NAD 83
Soil Map Unit Name: Indio silt loam, 2 to 5 percent slopes		NWI classific	cation:N/A
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 💿 No	(If no, explain in R	Remarks.)
Are Vegetation Soil O or Hydrology significant	y disturbed? A	re "Normal Circumstances" إ	present? Yes   No
Are Vegetation X Soil X or Hydrology naturally p	roblematic? (It	f needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point	t locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Non-wetland confirmation point. Field data point is	Is the Samp within a We taken within the b	tland? Yes	No • is bare to sparsely vegetated.
VEGETATION			
Absolute % Cover 1.N/A	Dominant Indicator Species? Status		pecies
2.       3.		Total Number of Domir Species Across All Stra	
4		Percent of Dominant S That Are OBL, FACW,	
1.N/A		Prevalence Index wor	ksheet:
2.		Total % Cover of:	Multiply by:
3.		OBL species	x 1 = 0
4		FACW species	x 2 = 0
5		FAC species	x 3 = 0
Total Cover: % Herb Stratum	ó	FACU species	x 4 = 0
1. <i>N</i> / <i>A</i>		UPL species	x = 0
2.		Column Totals:	(A) 0 (B)
3.		Prevalence Index	c = B/A =
4.		Hydrophytic Vegetation	on Indicators:
5.		Dominance Test is	
6.		Prevalence Index i	
7			ptations <sup>1</sup> (Provide supporting s or on a separate sheet)
8.			phytic Vegetation <sup>1</sup> (Explain)
Total Cover: 9/	ó	,	
1. <i>N</i> / <i>A</i> 2.		<sup>1</sup> Indicators of hydric so be present.	oil and wetland hydrology must
Total Cover: %		Hydrophytic Vegetation	0 0
% Bare Ground in Herb Stratum 100% % Cover of Biotic			es No 💿
Remarks: Point of investigation is unvegetated (majority of	tne basın floor of th	ne borrow pit is unvegeta	tea).

SOIL Sampling Point: 1a Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix Color (moist) \_\_Type<sup>1</sup> \_ Loc<sup>2</sup> Texture (inches) Color (moist) % 0-20 10YR 3/3 100 N/A N/A Silt <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Depleted Matrix (F3) Other (Explain in Remarks) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (**LRR D**) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) <sup>3</sup>Indicators of hydrophytic vegetation and Vernal Pools (F9) Sandy Mucky Mineral (S1) wetland hydrology must be present, Sandy Gleyed Matrix (S4) unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes ( Remarks: Soil unit mapped at the point of investigation is Indio silt loam, 2 to 5 percent slopes, which is not listed as hydric by the NRCS. No hydric indicators observed at the point of investigation. Strong odor of aerobic actinomycetes ('earthly smell') indicates inundation (anaerobic conditions) may not be long-term enough to create reducing conditions. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) ★ Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Recent Iron Reduction in Plowed Soils (C6) Shallow Aguitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: No ( Surface Water Present? Yes ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Unknown Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? Nο (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A. This delineation has occurred within 1-week of multiple rainfall events and within a prolonged 8-year drought. Remarks: Basin collects and retains water from precipitation events and imported water (dewatering pipes and their small outfalls occupy upper bank area of borrow pit). It is unknown if excavation to approximately 10 feet below natural grade has resulted in basin being in contact to groundwater related to the Carrizo Creek groundwater basin.

US Army Corps of Engineers

#### WETLAND DETERMINATION DATA FORM - Arid West Region

Landform (hillslope, terrace, etc.): Artificial basin within terrace  Subregion (LRR):C - Mediterranean California  Lat: 32.632  Soil Map Unit Name: Indio silt loam, 2 to 5 percent slopes  Are climatic / hydrologic conditions on the site typical for this time of year?  Are Vegetation Soil or Hydrology significantly dis  Are Vegetation Soil or Hydrology naturally proble  SUMMARY OF FINDINGS - Attach site map showing sa  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No	NWI classification: N/A  ? Yes No (If no, explain in Remarks.) isturbed? Are "Normal Circumstances" present? Yes No clematic? (If needed, explain any answers in Remarks.)  ampling point locations, transects, important features, et within a Wetland?  Within the borrow pit that is occupied by a small monotypic stand or standard in the
Landform (hillslope, terrace, etc.): Artificial basin within terrace  Subregion (LRR):C - Mediterranean California  Lat: 32.632  Soil Map Unit Name: Indio silt loam, 2 to 5 percent slopes  Are climatic / hydrologic conditions on the site typical for this time of year?  Are Vegetation Soil or Hydrology significantly dis  Are Vegetation Soil or Hydrology naturally proble  SUMMARY OF FINDINGS - Attach site map showing sa  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks: Wetland confirmation point. Field data point is taken w  tamarisk shoots. Floor of basin is bare to sparsely veget	Slope (%): N/A  Slope (%): N/A  Slope (%): N/A  NWI classification: N/A  NWI classification: N/A  No (If no, explain in Remarks.)  Sturbed? Are "Normal Circumstances" present? Yes No Clematic? (If needed, explain any answers in Remarks.)  ampling point locations, transects, important features, explain a Wetland?  Within a Wetland? Yes No Clematic No Cl
Landform (hillslope, terrace, etc.): Artificial basin within terrace  Subregion (LRR):C - Mediterranean California  Lat: 32.632  Soil Map Unit Name: Indio silt loam, 2 to 5 percent slopes  Are climatic / hydrologic conditions on the site typical for this time of year?  Are Vegetation Soil or Hydrology significantly dis  Are Vegetation Soil or Hydrology naturally proble  SUMMARY OF FINDINGS - Attach site map showing sa  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks: Wetland confirmation point. Field data point is taken w  tamarisk shoots. Floor of basin is bare to sparsely veget	Slope (%): N/A  Slope (%): N/A  Slope (%): N/A  NWI classification: N/A  NWI classification: N/A  No (If no, explain in Remarks.)  Sturbed? Are "Normal Circumstances" present? Yes No Clematic? (If needed, explain any answers in Remarks.)  ampling point locations, transects, important features, explain a Wetland?  Within a Wetland? Yes No Clematic No Cl
Subregion (LRR):C - Mediterranean California  Lat: 32.632  Soil Map Unit Name: Indio silt loam, 2 to 5 percent slopes  Are climatic / hydrologic conditions on the site typical for this time of year?  Are Vegetation Soil or Hydrology significantly dis  Are Vegetation Soil or Hydrology naturally proble  SUMMARY OF FINDINGS - Attach site map showing sa  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks: Wetland confirmation point. Field data point is taken w tamarisk shoots. Floor of basin is bare to sparsely veget	NWI classification: N/A  NWI classification: N/A  (If no, explain in Remarks.)  Isturbed? Are "Normal Circumstances" present? Yes No Clematic? (If needed, explain any answers in Remarks.)  ampling point locations, transects, important features, et within a Wetland?  Within the borrow pit that is occupied by a small monotypic stand of the standard o
Soil Map Unit Name: Indio silt loam, 2 to 5 percent slopes  Are climatic / hydrologic conditions on the site typical for this time of year?  Are Vegetation Soil or Hydrology significantly dis  Are Vegetation Soil or Hydrology naturally proble  SUMMARY OF FINDINGS - Attach site map showing sa  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks: Wetland confirmation point. Field data point is taken w  tamarisk shoots. Floor of basin is bare to sparsely veget	NWI classification: N/A  ? Yes No (If no, explain in Remarks.) isturbed? Are "Normal Circumstances" present? Yes No clematic? (If needed, explain any answers in Remarks.)  ampling point locations, transects, important features, et within a Wetland?  Within the borrow pit that is occupied by a small monotypic stand or sm
Are climatic / hydrologic conditions on the site typical for this time of year?  Are Vegetation Soil or Hydrology significantly dis  Are Vegetation Soil or Hydrology naturally proble  SUMMARY OF FINDINGS - Attach site map showing sa  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks: Wetland confirmation point. Field data point is taken w  tamarisk shoots. Floor of basin is bare to sparsely veget	Remarks.)  Isturbed? Are "Normal Circumstances" present? Yes No Colematic? (If needed, explain any answers in Remarks.)  Is the Sampled Area within a Wetland? Yes No Colematic No Colemati
Are Vegetation Soil Or Hydrology significantly dis Are Vegetation Soil Or Hydrology naturally proble  SUMMARY OF FINDINGS - Attach site map showing sa  Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Wetland confirmation point. Field data point is taken w tamarisk shoots. Floor of basin is bare to sparsely veget	Is the Sampled Area within a Wetland? Wetland?  Within the borrow pit that is occupied by a small monotypic stand of lematic?  Are "Normal Circumstances" present? Yes  No N
Are Vegetation Soil or Hydrology naturally proble  SUMMARY OF FINDINGS - Attach site map showing sa  Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Wetland confirmation point. Field data point is taken we tamarisk shoots. Floor of basin is bare to sparsely veget	Is the Sampled Area within a Wetland? Within the borrow pit that is occupied by a small monotypic stand of
SUMMARY OF FINDINGS - Attach site map showing satisfy the state of the	Is the Sampled Area within a Wetland? Within the borrow pit that is occupied by a small monotypic stand o
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks: Wetland confirmation point. Field data point is taken w tamarisk shoots. Floor of basin is bare to sparsely veget	Is the Sampled Area within a Wetland? Within the borrow pit that is occupied by a small monotypic stand o
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: Wetland confirmation point. Field data point is taken w tamarisk shoots. Floor of basin is bare to sparsely veget	within a Wetland? Yes No No within the borrow pit that is occupied by a small monotypic stand o
Hydric Soil Present?  Wetland Hydrology Present?  Remarks: Wetland confirmation point. Field data point is taken w tamarisk shoots. Floor of basin is bare to sparsely veget	within a Wetland? Yes No No within the borrow pit that is occupied by a small monotypic stand o
Remarks: Wetland confirmation point. Field data point is taken w tamarisk shoots. Floor of basin is bare to sparsely veget	within the borrow pit that is occupied by a small monotypic stand o
tamarisk shoots. Floor of basin is bare to sparsely veget	
	etated.
	Ominant Indicator Species? Status  Number of Deminant Species
1. <i>N</i> / <i>A</i>	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2.	
3.	Total Number of Dominant Species Across All Strata: 1 (B)
4.	
Total Cover: %	Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0 % (A/I
Sapling/Shrub Stratum	
1.Tamarix ramosissima 35 Ye	Yes FAC Prevalence Index worksheet: Total % Cover of: Multiply by:
2	OBL species x 1 = 0
4.	FACW species x 2 = 0
5.	FAC species 35 x 3 = 105
Total Cover: 35 %	FACU species x 4 = 0
Herb Stratum	UPL species x 5 = 0
1. <u>N/A</u>	Column Totals: 35 (A) 105 (
2	200
3	Prevalence Index = B/A = 3.00
4	Hydrophytic Vegetation Indicators:  X Dominance Test is >50%
5	× Prevalence Index is ≤3.0¹
6	Morphological Adaptations <sup>1</sup> (Provide supporting
7	data in Remarks or on a separate sheet)
8. Total Cover:	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum	
1. <i>N</i> / <i>A</i>	<sup>1</sup> Indicators of hydric soil and wetland hydrology mus
2	be present.
Total Cover: %	Hydrophytic
% Bare Ground in Herb Stratum 65 % % Cover of Biotic Crus	Vegetation   St 0 %   Present? Yes ● No ○
Remarks: Small stack of tamarisk scrub (in the form of develop	oing saplings and shoots) occupies small convex spoils pile (the

SOIL Sampling Point: 1b Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix Color (moist) \_\_Type<sup>1</sup> \_ Loc<sup>2</sup> Texture (inches) Color (moist) % 0-20 10YR 3/3 100 N/A N/A Silt <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Hydrogen Sulfide (A4) Depleted Matrix (F3) Other (Explain in Remarks) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) <sup>3</sup>Indicators of hydrophytic vegetation and Vernal Pools (F9) Sandy Mucky Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes 📵 Remarks: Indio silt loam, 2 to 5 percent slopes is not listed as hydric by the NRCS and no hydric indicators observed. However, this soil is an entisol. Entisols rarely present hydric field indicators (as outlined by the NTCHS Field Indicators of Hydric Soils in the United States). Guidance for soil lacking hydric indicators is found in the 2008 Supplement Chapter 3, page 27 and states that 'a soil that meets the definition of a hydric soil is hydric whether or not it exhibits indicators'. Guidance used for problem wetland situations in the Arid West for a soil considered hydric (or considered "hydric by definition"), but lacking hydric indicators, is found in the 2008 Supplement: Chapter 5, page 96, which outlines that a soil can be considered hydric with faint or no hydric soil indicators. This soil can also be considered hydric by definition because it underlies an area where both hydrophytic vegetation & wetland hydrology are simultaneously present at the point of investigation. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Aquatic Invertebrates (B13) Saturation (A3) Drift Deposits (B3) (Riverine) ★ Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Shallow Aguitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: No ( Surface Water Present? Yes ( Depth (inches): Water Table Present? Yes 💿 No ( Depth (inches): Unknown Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present?  $\overline{\phantom{a}}$ Nο (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A. This delineation has occurred within I-week of multiple rainfall events and within a prolonged 8-year drought. Remarks: Basin collects and retains water from precipitation events and imported water (dewatering pipes and their small outfalls occupy upper bank area of borrow pit). It is unknown if excavation to approximately 10 feet below natural grade has resulted in basin being in contact to groundwater related to the Carrizo Creek groundwater basin.

US Army Corps of Engineers

#### WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Jacumba Valley Ranch		City/Count	ty:Jacumba/	San Diego	Sam	Sampling Date: 2/24/2020			
oplicant/Owner: JVR Energy Park, LLC				State:CA		Sampling Point:2a			
Investigator(s): C. Schaaf, S. Carey		Section, T	ownship, Ra	nge:S4 T18S R8E	<u> </u>	_			
Landform (hillslope, terrace, etc.): Pit		Local relie	ef (concave,	convex, none):Con	cave	Slop	oe (%):1		
Subregion (LRR):C - Mediterranean California Lat:32.63209				Long:-116.170712 Datum: NAD 83					
Soil Map Unit Name: Indio silt loam, 2 to 5 percent slop	 es			NWI d	assification	<del></del> :			
Are climatic / hydrologic conditions on the site typical for this		ear? Yes	No (	(If no, explai	n in Remar	 ks.)			
Are Vegetation   Soil   or Hydrology   si	anificantly	disturbed	_	'Normal Circumstan	ces" presei	nt? Yes	No	$\circ$	
		ob <b>l</b> ematic?		eded, explain any a		_			
SUMMARY OF FINDINGS - Attach site map s			•			,	ıtures,	etc.	
Hydrophytic Vegetation Present? Yes No	• •								
	No ( Is the Sampled			Area					
Wetland Hydrology Present? Yes No Within a Wetla					0	No 💿			
Remarks: Plot taken in bottom of small borrow pit with deep crevices in soil.									
VEGETATION									
Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test					
1.	70 00101			Number of Domin That Are OBL, FA			(	(A)	
2.						1		` ′	
3.				Total Number of I Species Across A		2	(	(B)	
4.						_		` ′	
Total Cover	: %			Percent of Domin That Are OBL, FA		_	0 %	(A/B)	
Sapling/Shrub Stratum	-	Van	71.0	Prevalence Inde	v worksho				
1. Tamarix ramosissima 2.	- Yes FAC			Total % Cover of: Multiply by:					
3.			-	OBL species	J. 01.	x 1 =	0		
4.				FACW species		x 2 =	0		
5.				FAC species	5	x 3 =	15		
Total Cover:	5 %			FACU species		x 4 =	0		
Herb Stratum				UPL species	2	x 5 =	10		
1-Hirschfeldia incana	2	Yes	UPL	Column Totals:	7	(A)	25	(B)	
2.			-	Prevalence	Index = B/	Δ =	3.57		
3.				Hydrophytic Vegetation Indicators:					
5.				Dominance Test is >50%					
6.				Prevalence Index is ≤3.0¹					
7.				Morphological Adaptations <sup>1</sup> (Provide supporting					
8.						n a separate	•		
Total Cover:	2 %		-	Problematic I	Hydrophytic	: Vegetation'	(Explain)	)	
Woody Vine Stratum	2 70			11	lais 11		da a la succes		
1				<sup>1</sup> Indicators of hyd be present.	iric soil and	i wetiand nyd	arology n	nust	
2									
Total Cover:				Hydrophytic Vegetation					
% Bare Ground in Herb Stratum 93 % Cover	of Biotic C	Crust	%	Present?	Yes 🔘	No 💿	)		
Remarks:				•					

SOIL Sampling Point: 2a Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> 0 - 1410YR 3/4 75 Loam 0 - 1410YR 4/3 25 Loamy sand <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Minor soil cracking but not indicative of ponding water; soil cracking not observed at bottom of pit. Because soil cracking can occur in a variety of situations this may not be enough to serve as a primary indicator, particularly when other indicators are lacking. As noted in the Arid West Supplement, surface soil cracks "may also occur in temporary ponds and puddles in nonwetlands; these situations are easily distinguished by the absence of hydrophytic vegetation and/or hydric soils". US Army Corps of Engineers Arid West - Version 11-1-2006

Project/Site: Jacumba Valley Ranch		City/Cour	nty:Jacumba/	San Diego	San	npling Date:	2/24/202	20
Applicant/Owner: JVR Energy Park, LLC				State:CA	San	npling Point:	2b	
Investigator(s): C. Schaaf, S. Carey		Section,	Township, Ra	nge:S4 T18S R8E				
Landform (hillslope, terrace, etc.): Terrace		Local rel	ief (concave,	convex, none):Conc	ave	SI	ope (%):1	
Subregion (LRR):C - Mediterranean California	Lat:32.6	53209		Long:-116.17071	2	 Dat	um: NAD	9 83
Soil Map Unit Name: Indio silt loam, 2 to 5 percent slope	– — es			NWI da	ssification	<u> </u>		
Are climatic / hydrologic conditions on the site typical for this		ar? Yes	<ul><li>No (</li></ul>	(If no, explain	in Remai	rks.)		
Are Vegetation Soil or Hydrology sign	gnificant <b>l</b> y	disturbed		ੁ "Normal Circumstanc	es" prese	nt? Yes	) No	$\circ$
	aturally pro			eeded, explain any ar		-	,	
SUMMARY OF FINDINGS - Attach site map s			,	•		,	eatures,	, etc.
Hydrophytic Vegetation Present? Yes No	•							
		Is	the Sampled	I Area				
Wetland Hydrology Present? Yes No	•		thin a Wetlaı		0	No 💿		
Remarks: Plot taken in patch of tamarisk above 2a pit		· · · · · · · · · · · · · · · · · · ·						
VEGETATION								
	Absolute	Dominar	t Indicator	Dominance Test	workshoe	· <del>*</del> ·		
	% Cover	Species'		Number of Domina				
1.Tamarix ramosissima	25	Yes	FAC	That Are OBL, FAC			1	(A)
2				Total Number of D	ominant			
3				Species Across All	Strata:		2	(B)
4			_	Percent of Domina	int Specie	S		
Sapling/Shrub Stratum	25 %			That Are OBL, FAC	CW, or FA	C: 50	0.0 %	(A/B)
1.				Prevalence Index	workshe	et:		
2.				Total % Cover	of:	Multip	oly by:	_
3.				OBL species		x 1 =	0	
4.				FACW species		x 2 =	0	
5				FAC species	25	x 3 =	75	
Total Cover:	%			FACU species UPL species		x 4 =	0	
1.Hirschfeldia incana	2		UPL		22	x 5 =	110	(B)
2.Cynosurus echinatus	20	Yes	UPL	Column Totals:	47	(A)	185	(B)
3.				Prevalence I	ndex = B	/A =	3.94	
4.				Hydrophytic Vege				
5.				Dominance Te				
6				Prevalence Inc  Morphological			o ounnarti	na
7						n a separat		ng
8Total Cover:			_	Problematic H	ydrophytic	c Vegetatior	ո¹ (Exp <b>l</b> ain	1)
Woody Vine Stratum	22 %							
1				<sup>1</sup> Indicators of hydr	ic soi <b>l</b> and	d wetland h	ydro <b>l</b> ogy r	must
2				be present.				
Total Cover:	%			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 10 % % Cover	of Biotic C	rust	%	Present?	Yes 🔘	No (	•	
Remarks:				<u> </u>				

SOIL

Sampling Point: 2b

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

Penth Matrix

Peday Features

	cription: (Describe t	to the depth n		nent the indicator or	confirm the	absence of ir	ndicators.)	
Depth (inches)	Matrix Color (moist)		Redox Color (moist)	k Features % Type¹ I	Loc² To	exture <sup>3</sup>	Remarks	
			poloi (moist)			CALGIC	Remarks	
0-14	10YR 4/3			· —— —— —	Clay			
-								
	-			· — — — —				
				· —— —— —				
1Tune: C=C	Concentration D-Dani		dues d Metrix	21 tion. DI - Dono I :		at Channal I		
	Concentration, D=Depl es: Clav Silty Clav S			<sup>2</sup> Location: PL=Pore Li Loam Sandy Loam C	-		יו=ואומנדוג. , Silt Loam, Silt, Loamy Sand,	Sand.
	ndicators: (Applicabl						roblematic Hydric Soils:	
Histoso			Sandy Redox	•			(A9) (LRR C)	
Histic E	pipedon (A2)		Stripped Ma	` '	<u> </u>		(A10) (LRR B)	
	listic (A3)			ky Mineral (F1)		Reduced V		
	en Sulfide (A4)			ved Matrix (F2)	Ļ		t Material (TF2)	
🗀	d Layers (A5) ( <b>LRR C</b> uck (A9) ( <b>LRR D</b> )	5)	Depleted M	atrix (F3) : Surface (F6)	L	_ Otner (Exp	lain in Remarks)	
📖	ed Below Dark Surface	e (A11)		ark Surface (F7)				
ı Ш	ark Surface (A12)	,		ressions (F8)				
1	Mucky Mineral (S1)		Vernal Pool	s (F9)	<sup>4</sup> l:	-	ydrophytic vegetation and	
	Gleyed Matrix (S4)					wetland hyd	rology must be present.	
	Layer (if present):							
Type:			_					
Depth (ir	nches):				Ну	dric Soil Pre	sent? Yes No 💿	
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators:					Secondary	/ Indicators (2 or more required	(k
Primary Indi	cators (any one indica	ator is sufficien	t)			Water	Marks (B1) (Riverine)	_
Surface	Water (A1)		Salt Crust	(B11)		Sedim	nent Deposits (B2) (Riverine)	
High W	ater Table (A2)		Biotic Crus	st (B12)		Drift D	Deposits (B3) (Riverine)	
Saturat	ion (A3)		Aquatic In	vertebrates (B13)		Draina	age Patterns (B10)	
☐ Water N	Marks (B1) ( <b>Nonriveri</b>	ne)	Hydrogen	Sulfide Odor (C1)		Dry-S	eason Water Table (C2)	
l 🖳	nt Deposits (B2) (Nor	*		Rhizospheres a <b>l</b> ong Liv	ing Roots (C	<i>'</i> $\square$	Muck Surface (C7)	
🗀	posits (B3) (Nonriver	ine)		of Reduced Iron (C4)	0 11 (00)		sh Burrows (C8)	(00)
🗀	Soil Cracks (B6)	(DZ)		n Reduction in Plowed	Soils (C6)		ation Visible on Aerial Imagery	(C9)
🗀	ion Visib <b>l</b> e on Aerial Ir Stained Leaves (B9)	nagery (B7)	Uther (Exp	olain in Remarks)			ow Aquitard (D3) Neutral Test (D5)	
Field Obse							Neutral Test (D5)	
		es No (	Depth (in	chec).				
Water Table		es No (	_		1			
Saturation F			_	· —				
l	pillary fringe)	es O No (	• Deptil (iii		Wetland F	lydrology Pro	esent? Yes 🔘 No	•
Describe Re	ecorded Data (stream	gauge, monito	ring well, aeria <b>l</b> į	ohotos, previous insped	ctions), if ava	ilable:		
Remarks:N	o signs of hydrolog	y.						

Project/Site: Jacumba Valley Ranch		City/Coun	ty:Jacumba/	San Diego	Sam	pling Date:2/	24/202	0
Applicant/Owner: JVR Energy Park, LLC				State:CA	Sam	pling Point:3		
Investigator(s):C. Schaaf, S. Carey		Section, T	ownship, Ra	nge:S4 T18S R8E				
Landform (hillslope, terrace, etc.): Field/flat		Local reli	ef (concave,	convex, none):Conc	ave	Slop	oe (%):0	
Subregion (LRR):C - Mediterranean California	Lat:32.6	53209		Long:-116.17071	2	 Datur	n: NAD	83
Soil Map Unit Name: Indio silt loam, saline, 0 to 2 perce	nt slopes			NWI da	ssification	:		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ar? Yes (	• No (	(If no, explain	ı in Remar	ks.)		
Are Vegetation Soil or Hydrology sign	gnificantly	disturbed'	? Are '	'Normal Circumstand	es" prese	nt? Yes 💿	No	0
Are Vegetation Soil or Hydrology na	aturally pro	ob <b>l</b> ematic?	(If ne	eded, explain any a	nswers in I	Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing	samplii	ng point lo	ocations, transe	cts, imp	ortant fea	ıtures,	etc.
Hydrophytic Vegetation Present? Yes No								
		ls	the Sampled	Area				
Wetland Hydrology Present? Yes No	•	l l	hin a Wetlar		$\circ$	No 💿		
Remarks: Plot taken in historic ag field adjacent to dir	t road ne	ear small	tamarisk pa	tch.				
VEGETATION								
	Absolute		Indicator	Dominance Test	workshee	t:		
<del></del>	% Cover	Species?		Number of Domina				/A\
1.Tamarix ramosissima	1	Yes	FAC	That Are OBL, FA	CVV, or FA	C: 1	(	(A)
2		-	_	Total Number of D		2		(D)
4.				Species Across Al	i Strata.	3		(B)
Total Cover:	1 %		-	<ul> <li>Percent of Domina That Are OBL, FA</li> </ul>		-	3 % (	(A/B)
Sapling/Shrub Stratum	1 /0						<i>3</i> 70 (	(770)
1			_	Prevalence Index				
2			_	Total % Cover	r of:	Multiply	•	
3.				OBL species FACW species		x 1 = x 2 =	0	
5.				FAC species	1	x 3 =	3	
Total Cover:	%		-	FACU species	40	x 4 =	160	
Herb Stratum	, 0			UPL species	40	x 5 =	200	
1.Sisymbrium irio	40	Yes	UPL	Column Totals:	81	(A)	363	(B)
2.Hordeum murinum	40	Yes	FACU	Dravalance I	ndev = D/	۸ –	4.40	
3.				Prevalence I Hydrophytic Vege			4.48	
4.			_	Dominance Te				
5. 6.				Prevalence In				
7.			_	Morphological			supportir	na
8.			-			n a separate		
Total Cover:	80 %		-	Problematic H	lydrophytic	: Vegetation <sup>1</sup>	(Explain)	)
Woody Vine Stratum	<b>8</b> 0 %			4				
1				<sup>1</sup> Indicators of hydrobe present.	ric soi <b>l</b> and	d wetland hyd	Irology n	nust
2								
Total Cover:	%			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum5 % % Cover	of Biotic C	Crust	%	Present?	Yes 🔘	No 💿		
Remarks:								

SOIL Sampling Point: 3 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Loc<sup>2</sup> Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Remarks 0-4 10YR 3/2 100 Clay loam 4-14 10YR 3/2 100 Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox observed. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No (

Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No signs of hydrology. US Army Corps of Engineers Arid West - Version 11-1-2006

Project/Site: Jacumba Valley Ranch		City/Cour	ity:Jacumba/	San Diego	Sampling	Date: 2/24/20	20
Applicant/Owner: JVR Energy Park, LLC				State:CA	Sampling	Point:4	
Investigator(s):C. Schaaf, S. Carey		Section,	Гownship, Ra	nge:S4 T18S R8E	-		
Landform (hillslope, terrace, etc.): Field/flat		Local rel	ief (concave,	convex, none):Concave	1	Slope (%):(	0
Subregion (LRR):C - Mediterranean California	Lat:32.6	53209		Long:-116.170712		Datum: NA	D 83
Soil Map Unit Name: Indio silt loam, saline, 0 to 2 perce	ent slopes			NWI classifi	cation:		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ar? Yes	No (	(If no, explain in F	Remarks.)		
Are Vegetation Soil or Hydrology si	ignificant <b>l</b> y	disturbed	? Are	"Normal Circumstances"	present? \	res	0
Are Vegetation Soil or Hydrology n	aturally pro	ob <b>l</b> ematic′	(If ne	eeded, explain any answe	ers in Rema	rks.)	
SUMMARY OF FINDINGS - Attach site map s	howing	sampli	ng point lo	ocations, transects	, importa	ant features	s, etc.
Hydrophytic Vegetation Present? Yes No	o (iii)						
		Is	the Sampled	l Area			
	o	I	thin a Wetlaı		No (	•)	
Remarks: Plot taken in historic ag field.							
VEGETATION							
	Absolute		t Indicator	Dominance Test work	ksheet:		
Tree Stratum (Use scientific names.)	% Cover	Species	? Status	Number of Dominant S		0	<b>(A)</b>
1			_	That Are OBL, FACW,	or FAC:	0	(A)
3.				Total Number of Domi		1	(B)
4.			_	Species Across All Str	ala.	1	(D)
Total Cover	%		_	<ul> <li>Percent of Dominant S</li> <li>That Are OBL, FACW,</li> </ul>		0.0 %	(A/B)
Sapling/Shrub Stratum	, , ,			, ,		0.0 %	(1410)
1				Prevalence Index wo			
2				Total % Cover of:		Multiply by:	_
3			_	OBL species	x 1	-	
4			_	FACW species FAC species	x 2 x 3		
5Total Cover	: %		-	FACU species	x 4	•	
Herb Stratum	. %0				82 x 5	U	
1.Sisymbrium irio	80	Yes	UPL		82 (A)	410	
2. Atriplex canescens	1		UPL	Column Totals.	82 (4)	410	(5)
3. Erodium cicutarium	1		UPL	Prevalence Index		5.00	)
4.				Hydrophytic Vegetati		ors:	
5.				Dominance Test is			
6				Prevalence Index		<b>.</b>	4:
7				Morphological Ada data in Remark			ting
8.		,	_	Problematic Hydro	ophytic Vege	etation¹ (Exp <b>l</b> ai	in)
Total Cover Woody Vine Stratum	82 %						
1.				<sup>1</sup> Indicators of hydric s	oil and wetl	and hydrology	must
2.				be present.			
Total Cover	%			Hydrophytic			
% Bare Ground in Herb Stratum 10 % % Cover	of Biotic C	Crust	%	Vegetation Present? Ye	es 🔘	No 💿	
Remarks:				1			

SOIL Sampling Point: 4 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> 0-16 10YR 3/2 100 Loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox observed. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? No (includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No signs of hydrology. US Army Corps of Engineers Arid West - Version 11-1-2006

Project/Site: Jacumba Valley Ranch		City/Count	ty:Jacumba/	San Diego	Sampl	ling Date: 2/24	1/2020
Applicant/Owner: JVR Energy Park, LLC				State:CA	Sampl	ling Point:5	
Investigator(s): C. Schaaf, S. Carey		Section, T	ownship, Ra	nge:S4 T18S R8E			
Landform (hillslope, terrace, etc.): Field/flat		Local relie	ef (concave,	convex, none):Concav	/e	Slope	(%):0
Subregion (LRR):C - Mediterranean California	Lat:32.6	63209		Long:-116.170712		 Datum:	NAD 83
Soil Map Unit Name: Indio silt loam, saline, 0 to 2 perce	nt slopes			NWI class	ification:		
Are climatic / hydrologic conditions on the site typical for this			No (	(If no, explain ir	Remarks	s.)	
Are Vegetation   Soil   or Hydrology   si	gnificantly	disturbed?		Normal Circumstances	s" present	? Yes 🕡	No 🔘
		ob <b>l</b> ematic?		eeded, explain any ans		_	
SUMMARY OF FINDINGS - Attach site map s	•		`			,	ıres, etc.
Hudesphatic Versteties Present?	. 6						
		le f	the Sampled	I Δrea			
			hin a Wetlar		) N	o <b>(</b>	
Remarks: Plot taken in historic ag field in dead Atripl							
	_						
VECETATION							
VEGETATION	A la a li . t a	Dameirand	Indicator	Daminana Tash	l la 4.		
	Absolute % Cover	Species?	Indicator Status	Dominance Test wo			
1.				That Are OBL, FACV		: 0	(A)
2.				Total Number of Don	ninant		
3.				Species Across All S		1	(B)
4				Percent of Dominant	Species		
Total Cover Sapling/Shrub Stratum	: %			That Are OBL, FACV	V, or FAC	0.0	% (A/B)
1.				Prevalence Index w	orksheet	:	
2.				Total % Cover o	f:	Multiply by	y:
3.			-	OBL species		x 1 =	0
4.				FACW species		x 2 =	0
5				FAC species		x 3 =	0
Total Cover:	%			FACU species	1	x 4 =	4
1.Hordeum murinum	1	Yes	FACU	UPL species		x 5 =	0 4 (P)
2.				Column Totals:	1	(A)	4 (B)
3.			-	Prevalence Ind	ex = B/A	= .	4.00
4.				Hydrophytic Vegeta	tion Indi	cators:	
5.				Dominance Test			
6				Prevalence Inde		1 (5)	C
7				Morphological A data in Rema		a separate sh	
8.				Problematic Hyd	Irophytic \	/egetation¹ (E	xp <b>l</b> ain)
Total Cover: Woody Vine Stratum	1 %						
1.				<sup>1</sup> Indicators of hydric	soil and v	wetland hydro	logy must
2.				be present.			
Total Cover:	%			Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 5 % % Cover	of Biotic C	Crust	%		Yes 🔘	No 💿	
Remarks: Most vegetation cover is dead Atriplex sp			<del></del>	1			

SOIL Sampling Point: 5 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> 0 - 1410YR 3/2 100 Loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox observed. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No signs of hydrology.

Project/Site: Jacumba Valley Ranch		City/Count	y:Jacumba/	San Diego	Samp	ling Date:2/2	24/2020
Applicant/Owner: JVR Energy Park, LLC				State:CA	Samp	ling Point:6	
Investigator(s): C. Schaaf, S. Carey		Section, T	ownship, Rai	nge:S4 T18S R8E			
Landform (hillslope, terrace, etc.): Field/flat		Local relie	ef (concave, o	convex, none):Cond	cave	Slope	e (%):0
Subregion (LRR):C - Mediterranean California	Lat:32.6	3209		Long:-116.17071	12	 Datum	: NAD 83
Soil Map Unit Name: Indio silt loam, saline, 0 to 2 percer	t slopes			NWI da	assification:		
Are climatic / hydrologic conditions on the site typical for this			No (	(If no, explain	– n in Remarks	s.)	
Are Vegetation Soil or Hydrology sig	nificantly	disturbed?		Normal Circumstan	ces" present	? Yes 🕡	No 🔘
	turally pro	blematic?		eded, explain any a		_	
SUMMARY OF FINDINGS - Attach site map sh			•			,	ures, etc.
Hydrophytic Vegetation Present? Yes No	•						
	•	ls t	he Sampled	Area			
	•		hin a Wetlar		O N	lo (•)	
Remarks: Plot taken in historic ag field adjacent to Atr	riplex ca	<b>I</b>					
VECETATION							
VEGETATION							
	Abso <b>l</b> ute % Cover	Dominant Species?		Dominance Test  Number of Domin			
1.				That Are OBL, FA		: 0	(A)
2.			-	Total Number of D	Ominant		
3.				Species Across A		3	(B)
4.				Percent of Domina	ant Species		
Total Cover: Sapling/Shrub Stratum	%			That Are OBL, FA		0.0	% (A/B)
1.Atriplex canescens	10	Yes	UPL	Prevalence Index	c worksheet	•	
2.	10	103		Total % Cove		 Multiply l	oy:
3.				OBL species		x 1 =	0
4.				FACW species		x 2 =	0
5.				FAC species		x 3 =	0
Total Cover:	10 %			FACU species		x 4 =	0
Herb Stratum	50	*7		UPL species	100	x 5 =	500
1. Erodium cicutarium	50	Yes	UPL	Column Totals:	100	(A)	500 (B)
2.Sisymbrium irio 3.	40	Yes	UPL	Prevalence	Index = B/A	=	5.00
4.				Hydrophytic Veg	etation Indi	cators:	
5.				Dominance T	est is >50%		
6.				Prevalence In	ndex is ≤3.0¹		
7.				Morphologica			
8.			-	Problematic H		a separate s	
Total Cover: Woody Vine Stratum	90 %			Flobiematic i	iyuropiiyiic	vegetation (t	
1.				Indicators of hyd	ric soil and	wetland hydr	ology must
2.				be present.		,	
Total Cover:	%			Hydrophytic			
		ruct	0/	Vegetation	Van O	No 🕝	
% Bare Ground in Herb Stratum 5 % % Cover of Remarks:	טווטונט נ		<u>%</u>	Present?	Yes 🔘	No 💿	
Inclinates.							

SOIL Sampling Point: 6 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth (inches) Matrix Redox Features Color (moist) Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> \_\_Texture<sup>3</sup> Remarks 0-14 10YR 3/2 100 Loamy sand

<del></del>	-				
<del></del>					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup> Location: PL=Pore Lining, RC					
<sup>3</sup> Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loan					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)  Sandy Redox (S5)	Indicators for Problematic Hydric Soils:				
Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6)	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)				
Black Histic (A3) Loamy Mucky Mineral (F1)	Reduced Vertic (F18)				
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)				
Stratified Layers (A5) (LRR C)  Depleted Matrix (F3)	Other (Explain in Remarks)				
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)					
Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Depleted Dark Surface (F7)  Redox Depressions (F8)					
Sandy Mucky Mineral (S1)  Vernal Pools (F9)	<sup>4</sup> Indicators of hydrophytic vegetation and				
Sandy Gleyed Matrix (S4)	wetland hydrology must be present.				
Restrictive Layer (if present):					
Туре:					
Depth (inches):	Hydric Soil Present? Yes No   No				
Remarks: No redox observed.					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)				
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)				
Surface Water (A1)  Salt Crust (B11)	Sediment Deposits (B2) (Riverine)				
High Water Table (A2)  Biotic Crust (B12)					
Saturation (A3)  Aquatic Invertebrates (B13)	Drift Deposits (B3) (Riverine)				
	Drainage Patterns (B10)				
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)  Dry-Season Water Table (C2)				
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Root	Dry-Season Water Table (C2)				
	Dry-Season Water Table (C2)				
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Root	Dry-Season Water Table (C2) ts (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)				
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Oxidized Rhizospheres along Living Root  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Soils (C	Dry-Season Water Table (C2) ts (C3) Thin Muck Surface (C7) Crayfish Burrows (C8)				
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Oxidized Rhizospheres along Living Root  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Soils (C	Dry-Season Water Table (C2) ts (C3)				
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Oxidized Rhizospheres along Living Root  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Soils (C	Dry-Season Water Table (C2)  ts (C3)				
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Surface Water Present?  Oxidized Rhizospheres along Living Root  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Soils (C)  Other (Explain in Remarks)  Depth (inches):	Dry-Season Water Table (C2)  ts (C3)				
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Water Table Present?  Oxidized Rhizospheres along Living Root  Presence of Reduced Iron (C4)  Recent Iron Reduction in Plowed Soils (C)  Other (Explain in Remarks)  Depth (inches):	Dry-Season Water Table (C2)  ts (C3)				
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Water Table Present?  Yes  No  Depth (inches):  Saturation Present?  Yes  No  Depth (inches):  Depth (inches):  Saturation Present?  Yes  No  Depth (inches):  Depth (inches):	Dry-Season Water Table (C2)  ts (C3)				
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Water Table Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):	Dry-Season Water Table (C2)  ts (C3)				
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Water Table Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Wetla	Dry-Season Water Table (C2)  ts (C3)				
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), in	Dry-Season Water Table (C2)  ts (C3)				
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present?  Water Table Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Wetla	Dry-Season Water Table (C2)  ts (C3)				
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), in	Dry-Season Water Table (C2)  ts (C3)				
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), in	Dry-Season Water Table (C2)  ts (C3)				
Sediment Deposits (B2) (Nonriverine)  Drift Deposits (B3) (Nonriverine)  Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), in	Dry-Season Water Table (C2)  ts (C3)				

Project/Site: Jacumba Valley Ranch		City/Coun	ty:Jacumba/	San Diego	Sam	oling Date: 2/2	24/2020
Applicant/Owner: JVR Energy Park, LLC				State:CA	Samp	oling Point:7	
Investigator(s):C. Schaaf, S. Carey		Section, 7	ownship, Ra	nge:S4 T18S R8E	_		
Landform (hillslope, terrace, etc.): Field/flat		Local reli	ef (concave,	convex, none):Concav	ve	Slope	€ (%):0
Subregion (LRR):C - Mediterranean California	Lat:32.6	53209		Long:-116.170712		 Datum	: NAD 83
Soil Map Unit Name: Indio silt loam, saline, 0 to 2 perce	nt slopes			NWI class	ification:		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ar? Yes (	• No (	(If no, explain ir	- Remark ı	(S.)	
Are Vegetation Soil or Hydrology si	gnificantly	disturbed	? Are '	"Normal Circumstances	s" presen	t? Yes 🕡	No 🔘
Are Vegetation Soil or Hydrology na	aturally pro	ob <b>l</b> ematic?	(If ne	eeded, explain any ans	wers in F	Remarks.)	
SUMMARY OF FINDINGS - Attach site map s	howing	samplii	ng point lo	ocations, transec	ts, imp	ortant feat	tures, etc.
Hydrophytic Vegetation Present? Yes No							
		ls.	the Sampled	l Area			
			thin a Wetlar		) 1	No 💿	
Remarks: Plot taken in small low spot adjacent to dirt	road sho	wing mi	nor soil crac				
VECETATION							
VEGETATION	Λ la a a l 4 a	Daminan	t lastinatas	Danis Tark			
	Abso <b>l</b> ute % Cover	Species?	t Indicator Status	Dominance Test wo			
1.				That Are OBL, FACV			(A)
2.			•	Total Number of Dor	minant		
3.				Species Across All S		1	(B)
4.				Percent of Dominant	Species		
Total Cover: Sapling/Shrub Stratum	%			That Are OBL, FACV			% (A/B)
1.				Prevalence Index w	orkshee	t:	
2.			-	Total % Cover o		Multiply	by:
3.			-	OBL species		x 1 =	0
4.			-	FACW species		x 2 =	0
5.				FAC species		x 3 =	0
Total Cover:	%			FACU species	2	x 4 =	8
Herb Stratum	4	NT		UPL species	33	x 5 =	165
1. Erodium cicutarium	$\frac{1}{20}$	No	UPL	Column Totals:	35	(A)	173 (B)
2-Sisymbrium irio 3-Atriplex canescens	$\frac{30}{2}$	Yes No	UPL UPL	Prevalence Ind	lex = B/A	\ =	4.94
4.Hordeum murinum	$\frac{2}{2}$	No	- UPL FACU	Hydrophytic Vegeta	ation Ind	icators:	
5.		110	-	Dominance Test	t is >50%	)	
6.				Prevalence Inde	x is ≤3.0	1	
7.				Morphological A			
8.			_	- Droblematic Hyd		a separate s	,
Total Cover:	35 %			- I Problematic Hyd	порпушс	vegetation (	шхр <b>і</b> ант)
Woody Vine Stratum  1.				<sup>1</sup> Indicators of hydric	soil and	wetland hvdi	ology must
2.			-	be present.		,	3,
Total Cover:	%			Hydrophytic			
	of Biotic C	ruct	0/	Vegetation Present?	Yes (	No 💿	
	OI BIOLIC C		<u>%</u>	Present?	res (	NO (	
Remarks:							

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> 0 - 1410YR 3/2 100 Clay loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox observed. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Minor soil surface cracking. Area shows some evidence of temporary ponding; however, as noted in the Arid West Supplement, surface soil cracks do not always indicate hydrology "as they may also occur in temporary ponds and puddles in nonwetlands; these situations are easily distinguished by the absence of hydrophytic vegetation and/or hydric soils". Given the lack of other wetland indicators, the surface soil cracks observed here are not considered a hydrology indicator.

SOIL

US Army Corps of Engineers

Sampling Point: 7

Project/Site: Jacumba Valley Ranch		City/Coun	ty:Jacumba/	San Diego	Sam	pling Date:2/	24/2020
Applicant/Owner: JVR Energy Park, LLC				State:CA	Sam	oling Point:8	
Investigator(s): C. Schaaf, S. Carey		Section, 7	ownship, Ra	nge:S4 T18S R8E			
Landform (hillslope, terrace, etc.): Field/flat		Local reli	ef (concave,	convex, none):Con	cave	Slop	e (%):()
Subregion (LRR):C - Mediterranean California	Lat:32.6	53209		Long:-116.1707	12	Datun	n: NAD 83
Soil Map Unit Name: Indio silt loam, saline, 0 to 2 perce	nt slopes			NWI da	assification:		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ar? Yes (	• No (	(If no, explai	n in Remark	(s.)	
Are Vegetation Soil or Hydrology si	gnificantly	disturbed	? Are	'Normal Circumstan	ces" presen	t? Yes 💿	No 🔘
Are Vegetation Soil or Hydrology na	aturally pro	ob <b>l</b> ematic?	(If ne	eded, explain any a	nswers in F	Remarks.)	
SUMMARY OF FINDINGS - Attach site map s	howing	sampli	ng point lo	ocations, trans	ects, imp	ortant fea	tures, etc.
Hydrophytic Vegetation Present? Yes No	•						
Hydric Soil Present? Yes No		Is	the Sampled	Area			
	•	I .	thin a Wetlar	nd? Yes	0 1	No 💿	
Remarks: Plot taken in grassy area in historic ag field	adjacent	to road.					
VECETATION							
VEGETATION	Absoluto	Dominon	t Indicator	Dominanas Tost	workshoot		
	Abso <b>l</b> ute % Cover	Species	t Indicator Status	Dominance Test  Number of Domin			
1.				That Are OBL, FA			(A)
2.			-	Total Number of [	Oominant		
3.			_	Species Across A		2	(B)
4.				Percent of Domin	ant Snecies		
Total Cover	%			That Are OBL, FA			% (A/B)
Sapling/Shrub Stratum  1.				Prevalence Index	v workshoe	.t·	
2.			-	Total % Cove		Multiply	hv.
3.			-	OBL species		x 1 =	0
4.			<del>-</del>	FACW species		x 2 =	0
5.			-	FAC species		x 3 =	0
Total Cover:	%		-	FACU species	50	x 4 =	200
Herb Stratum				UPL species	31	x 5 =	155
1.Erodium cicutarium	30	Yes	UPL	Column Totals:	81	(A)	355 (B)
2-Sisymbrium irio	1		UPL	Prevalence	Indox - B//	\ _	1 20
3. Hordeum murinum	50	Yes	FACU	Hydrophytic Veg			4.38
4.				Dominance T			
5. 6.			_	Prevalence Ir			
7.			-	Morphologica			supporting
8.			<u>-</u> .	data in Re	marks or or	a separate :	sheet)
Total Cover:	81 %			Problematic I	Hydrophytic	Vegetation <sup>1</sup>	(Exp <b>l</b> ain)
Woody Vine Stratum	01 70			4			
1				<sup>1</sup> Indicators of hyd be present.	ric soil and	wetland hyd	lrology must
2							
Total Cover:	%			Hydrophytic Vegetation			
% Bare Ground in Herb Stratum % Cover	of Biotic C	rust	%	Present?	Yes 🔘	No 💿	
Remarks:				1			

SOIL Sampling Point: 8 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth (inches) Redox Features

Color (moist) % Type¹ Loc² Matrix Color (moist) \_\_Texture<sup>3</sup> Remarks 0-14 10YR 3/2 100 Sandy loam

Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup> Location: PL=Pore Lining, RC	Page Channel Manuscrip
3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loan	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:
Histosol (A1)  Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)  Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3) Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)	
Depleted Below Dark Surface (A11)  Depleted Dark Surface (F7)	
Thick Dark Surface (A12) Redox Depressions (F8)	41 1: 1 51 1 1 1:
Sandy Mucky Mineral (S1)  Vernal Pools (F9)	<sup>4</sup> Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	wetland hydrology must be present.
Restrictive Layer (if present):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No   No
Remarks: No redox observed.	
LIVEROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)
Primary Indicators (any one indicator is sufficient)	Water Marks (B1) (Riverine)
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)
High Water Table (A2)  Biotic Crust (B12)	Drift Deposits (B3) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	Drainage Patterns (B10)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Root	s (C3) Thin Muck Surface (C7)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C	6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	
Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches):	
Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):	
Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Wetla  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), in	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Wetla  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), in	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Wetla  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), in	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Wetla  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), in	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), inches Presents	FAC-Neutral Test (D5)  nd Hydrology Present? Yes No
Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Saturation Present? Yes No Depth (inches):  (includes capillary fringe)  Wetla  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), in	FAC-Neutral Test (D5)

Project/Site: Jacumba Valley Ranch		City/Count	y:Jacumba/	San Diego	Samp	oling Date: 2/2	24/2020	
Applicant/Owner: JVR Energy Park, LLC				State:CA	Samp	oling Point:9		
Investigator(s): C. Schaaf, S. Carey		Section, T	ownship, Ra	 nge:S4 T18S R8E	<u> </u>	_		
Landform (hillslope, terrace, etc.): Field/flat		Local relie	ef (concave,	convex, none):Con	cave	Slope	(%):0	
Subregion (LRR):C - Mediterranean California	Lat:32.6	530200		Long:-116.1785	43	 Datum	: NAD 83	3
Soil Map Unit Name: Indio silt loam, saline, 0 to 2 perce	nt slopes			NWI d	assification:			
Are climatic / hydrologic conditions on the site typical for this			No (	(If no, explai	n in Remark	s.)		
Are Vegetation   Soil   or Hydrology   si	gnificant <b>l</b> y	disturbed?		'Normal Circumstar	ices" present	t? Yes 🕡	No 🔿	
, ", ", _	•	oblematic?		eeded, explain any a	·	_		
SUMMARY OF FINDINGS - Attach site map s						ŕ	ures, et	C.
Hydrophytic Vegetation Present? Yes No	• •							
		ls t	he Sampled	Area				
	•		hin a Wetlar		O N	10 <b>(</b>		
Remarks:Plot taken in small roadside ditch where tar	narisk ar	e concenti	rated adjace	ent to road and fie	eld.			
VECETATION								
VEGETATION	A l L- t -	D	To all a a to a	l December 7				_
	Abso <b>l</b> ute % Cover	Dominant Species?		Dominance Test  Number of Domir				
1.Tamarix ramosissima	75	Yes	FAC	That Are OBL, FA			(A)	
2.				· . Total Number of I	Dominant			
3.				Species Across A		2	(B)	
4.				Percent of Domin	ant Species			
Total Cover	75 %			That Are OBL, FA		50.0	% (A/B	;)
Sapling/Shrub Stratum  1.				Prevalence Inde	x workshee	t·		
2.				Total % Cove		Multiply	bv:	
3.				OBL species		x 1 =	0	
4.				FACW species		x 2 =	0	
5.				FAC species	75	x 3 =	225	
Total Cover:	%			FACU species		x 4 =	0	
Herb Stratum		**		UPL species	10	x 5 =	50	
1.Sisymbrium irio 2.	10	Yes	UPL	Column Totals:	85	(A)	275 (	B)
3.				Prevalence	Index = B/A	<b>\</b> =	3.24	
4.				Hydrophytic Veç	getation Ind	icators:	3.21	$\dashv$
5.		-		Dominance 1	est is >50%			
6.				Prevalence I	ndex is ≤3.0¹	l		
7.				Morphologica				
8.				Problematic		a separate s	•	
Total Cover:	10 %		<u>-</u>	Froblematic	Пушторпушс	vegetation (i	_xpiaiii)	
Woody Vine Stratum				<sup>1</sup> Indicators of hyd	dric soil and	wetland hydr	ology mus	it
1		-		be present.			0.097	`
Total Cover:				Hydrophytic				$\exists$
		Sm. at	0/	Vegetation	V (	No. C		
	of Biotic C	ust	<u>%</u>	Present?	Yes 🔘	No 💿		_
Remarks:								

SOIL Sampling Point: 9 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> Remarks 0-3 10YR 3/2 100 Loamy sand 3-6 10YR 5/3 100 Sand 98 6-14 10 YR 3/2 5YR 4/6 C PLSandy cl loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox observed. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches):

Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No signs of hydrology. US Army Corps of Engineers Arid West - Version 11-1-2006

Project/Site: Jacumba Valley Ranch		City/Cou	nty:Jacumba/	San Diego	Sam	pling Date: 2/2	24/202	0
Applicant/Owner: JVR Energy Park, LLC				State:CA	Sam	pling Point:10	)	
Investigator(s):C. Schaaf, S. Carey		Section,	Township, Ra	nge:S4 T18S R8E				
Landform (hillslope, terrace, etc.): Field/flat		Local re	lief (concave,	convex, none):Conca	ve	Slope	e (%):0	
Subregion (LRR):C - Mediterranean California	Lat:32.6	528178		Long: -116.176196	5	Datum	n: NAD	83
Soil Map Unit Name: Indio silt loam, saline, 0 to 2 perce	nt slopes			NWI class	sification:			
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	<ul><li>No (</li></ul>	(If no, explain i	n Remarl	(s.)		
Are Vegetation Soil or Hydrology si	gnificantly	disturbed	d? Are	"Normal Circumstance	s" preser	nt? Yes 💿	No	0
Are Vegetation Soil or Hydrology na	aturally pro	ob <b>l</b> ematic	? (If ne	eeded, explain any ans	wers in F	Remarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing	sampli	ing point lo	ocations, transec	ts, imp	ortant fea	tures,	etc.
Hydrophytic Vegetation Present? Yes No								
		ls	the Sampled	l Area				
			ithin a Wetlaı		) 1	No 💿		
Remarks:Plot taken in historic ag field.		I						
VEGETATION								
	Absolute	Domina	nt Indicator	Dominance Test we	orksheet	••		
	% Cover	Species		Number of Dominan		-		
1				That Are OBL, FAC				(A)
2				Total Number of Do	minant			
3				Species Across All S	Strata:	2		(B)
4				Percent of Dominan				
Total Cover Sapling/Shrub Stratum	: %			That Are OBL, FAC	W, or FA	0.0	% (	(A/B)
1.				Prevalence Index v	vorkshee	et:		
2.		-		Total % Cover o	of:	Multiply	by:	
3.				OBL species		x 1 =	0	
4				FACW species		x 2 =	0	
5	0.4			FAC species		x 3 =	0	
Total Cover:	%			FACU species UPL species	2	x 4 = x 5 =	8	
1.Sisymbrium irio	20	Yes	UPL	Column Totals:	35	(A)	175 183	(B)
2. Hordeum murinum	2	No	FACU	Column rotals.	37	(^)	103	(D)
3. Descurainia pinnata	15	Yes	UPL	Prevalence Inc			4.95	
4.		-		Hydrophytic Veget				
5.				Dominance Tes				
6				Prevalence Inde			unnartii	
7						ns (Flovide s n a separate s		ig
8Total Cover:				Problematic Hyd	drophytic	Vegetation <sup>1</sup> (	Explain	)
Woody Vine Stratum	37 %							
1.				<sup>1</sup> Indicators of hydric	soil and	wetland hyd	ro <b>l</b> ogy n	nust
2.				be present.				
Total Cover:	%			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 95 % % Cover	of Biotic C	Crust	%		Yes 🔘	No 💿		
Remarks:				1				

SOIL Sampling Point: 10 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> Remarks 0 - 1410YR 4/3 100 Silt loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox observed. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

US Army Corps of Engineers

Remarks: No signs of hydrology.

Project/Site: Jacumba Valley Ranch		City/County:Jacumba/San Diego Sampling Date:2/24/2020					
Applicant/Owner: JVR Energy Park, LLC				State:CA	Sampling	Point:11	
Investigator(s):C. Schaaf, S. Carey		Section	, Township, Ra	inge:S4 T18S R8E	_		
Landform (hillslope, terrace, etc.): Field/flat		Local re	elief (concave,	convex, none):Concave	)	Slope (%):	0
Subregion (LRR):C - Mediterranean California	Lat:32.0	528178		Long: -116.176196		Datum: NA	D 83
Soil Map Unit Name: Indio silt loam, saline, 0 to 2 perce	nt slopes	5		NWI classifi	ication:		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	No (	(If no, explain in I	Remarks.)		
Are Vegetation Soil or Hydrology sign	gnificantly	disturbe	ed? Are	"Normal Circumstances"	present? \	∕es	0
Are Vegetation Soil or Hydrology na	aturally pr	ob <b>l</b> emati	c? (If ne	eeded, explain any answ	ers in Rema	rks.)	
SUMMARY OF FINDINGS - Attach site map s	howing	samp	ling point lo	ocations, transects	s, importa	ınt features	s, etc.
Hydrophytic Vegetation Present? Yes No	•						
			s the Sampled	d Area			
	•		within a Wetlaı		No (		
Remarks: Plot taken in historic ag field.							
VEGETATION							
	Absolute		ant Indicator	Dominance Test wor	ksheet:		
	% Cover	Specie	s? Status	Number of Dominant S		0	<b>(A)</b>
1				That Are OBL, FACW,	or FAC:	0	(A)
3.				Total Number of Domi		1	(B)
4.				Species Across All Str		1	(D)
Total Cover	%			<ul> <li>Percent of Dominant S</li> <li>That Are OBL, FACW,</li> </ul>		0.0 %	(A/B)
Sapling/Shrub Stratum						0.0 70	(,,,,,
1				Prevalence Index wo			
2				Total % Cover of:		Multiply by:	_
3.				OBL species FACW species	x 1		
5.				FAC species	x 3		
Total Cover:				FACU species	x 4	· ·	
Herb Stratum	70			UPL species	55 × 5	· ·	
1.Sisymbrium irio	5	No	UPL	Column Totals:	55 (A)	275	
2. Schismus barbatus	50	Yes	UPL				
3.				Prevalence Inde		5.00	)
4				Hydrophytic Vegetat		ors:	
5				Dominance Test is Prevalence Index			
6.			<u> </u>	Morphological Ada		Provide suppor	tina
7			<u> </u>	- data in Remark			ung
8Total Cover:				Problematic Hydro	ophytic Vege	etation¹ (Exp <b>l</b> ai	in)
Woody Vine Stratum	55 %						
1.				<sup>1</sup> Indicators of hydric s	oil and wetl	and hydro <b>l</b> ogy	must
2.				be present.			
Total Cover:	%			Hydrophytic			
% Bare Ground in Herb Stratum 50 % % Cover	of Biotic C	Crust	%	Vegetation Present? Yes	es 🔘	No 💿	
Remarks:							

SOIL Sampling Point: 11 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> 0 - 1410YR 3/3 100 Loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox observed. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No signs of hydrology.

rcent slopes		•	State:CA Inge:S4 T18S R8E convex, none):Cond		npling Point:		
rcent slopes	Local re	•		eave		(0/)	
rcent slopes	•	lief (concave,	convex, none):Conc	eave	SI	(0() 0	
rcent slopes	628178	•			SI	ope (%):0	
rcent slopes			Long: -116.17619			um: NAD	83
•	arodad			ssification		11112	
bio timo of w					-		
this time of ye		~			,		
significantly			"Normal Circumstand		_	) No	$\circ$
naturally pr	ob <b>l</b> ematic	:? ( <b>I</b> f n	eeded, explain any a	nswers in	Remarks.)		
showing	sampl	ing point l	ocations, transe	cts, im	portant fe	atures,	etc.
N- C							
_		the Comple	d Aroa				
~				$\circ$	No. 🕝		
~	<b>I</b>			annears	~	re	
	и прреи	ro providenci,		шрр • ш. з	to pond no		
70 OOVEI	Ореска	<u> Otatus</u>				1	(A)
			-			1	(* 1)
	-					2	(B)
			-			3	(0)
						2 2 0/	(A/B)
70						3.3 % V	,~00)
15	Yes	FAC	_				
			_	r of:			
			_			-	
15.04			-l '	15			
ver: 15 %			1	2			
1	Yes	UPL		_			(D)
_ <del></del>			_ Column Totals:	17	(A)	33	(B)
			Prevalence I	ndex = B	/A =	3.24	
			Hydrophytic Veg	etation Ir	dicators:		
			Dominance To	est is >50	%		
			Prevalence In	dex is ≤3.	01		
							ng
					•		,
ver: 2 %			- Problematic F	iyaropnyti	c vegetation	(Explain	)
			1Indicators of hydr	ic soil an	d wetland h	vdrology r	muet
			be present.	ic soil air	u wellanu n	yurology r	Hust
			-				
			Vegetation				
ver of Biotic C	Crust	<del>%</del>	Present?	Yes (	No (	•	
arix surrour	nding sar	nple point.					
	Absolute % Cover  ver: %  15  1  1  ver: 2 %  ver: 2 %  ver of Biotic Cover	Absolute % Cover Species  Ver: %  15 Yes  1 Yes  1 Yes  1 Yes  ver: 2 %  ver: %  ver of Biotic Crust	Absolute Within a Wetla Wer: 15 Yes FAC  1 Yes UPL  1 Yes UPL  1 Yes UPL  1 Yes UPL  2 %	Absolute	Absolute % Cover % FAC	Showing sampling point locations, transects, important feature	Absolute within a Wetland? Yes No Marrisk. Area appears previously disturbed. Water appears to pond here.    Absolute

SOIL Sampling Point: 12 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> Remarks 0 - 1410YR 3/2 100 Clay loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox observed. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches):

Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Soil cracks present. Ponding likely in this area. US Army Corps of Engineers Arid West - Version 11-1-2006

Project/Site: Jacumba Valley Ranch		City/Cour	City/County: Jacumba/San Diego Sampling Date: 2/24/2020					
Applicant/Owner: JVR Energy Park, LLC				State:CA	Sampling	Point:13		
Investigator(s): C. Schaaf, S. Carey		Section,	Township, Ra	inge:S4 T18S R8E				
Landform (hillslope, terrace, etc.): Field/flat		Local rel	lief (concave,	convex, none):Concave		Slope (%):(	)	
Subregion (LRR):C - Mediterranean California	Lat:32.6	528178		Long: -116.176196		 Datum: NA	D 83	
Soil Map Unit Name: Indio silt loam, saline, 0 to 2 perce	nt slopes			NWI classific	cation:			
Are climatic / hydrologic conditions on the site typical for this			<ul><li>No (</li></ul>	(If no, explain in F	Remarks.)			
Are Vegetation Soil or Hydrology si	gnificantly	disturbed		"Normal Circumstances"	present? Y	res 🕟 No		
	aturally pro			eeded, explain any answe		_		
SUMMARY OF FINDINGS - Attach site map s	•		,			ŕ	s, etc.	
Hydrophytic Vegetation Present? Yes No	• •							
		le	the Sampled	l Δrea				
		I	ithin a Wetlar		No (			
Remarks: Plot taken in historic ag field.			a vvotia			2		
VEGETATION								
	Absolute % Cover	Species	nt Indicator ? Status	Dominance Test work				
1.				Number of Dominant S That Are OBL, FACW,		0	(A)	
2.				- Total Number of Domir	nant			
3.			_	Species Across All Stra		2	(B)	
4.				- - Percent of Dominant S	necies			
Total Cover	: %			That Are OBL, FACW,		0.0 %	(A/B)	
Sapling/Shrub Stratum  1.				Prevalence Index wor	rksheet:			
2.				Total % Cover of:		Multiply by:		
3.				OBL species	x 1			
4.				FACW species	x 2	= 0		
5.				FAC species	x 3	= 0		
Total Cover:	%			FACU species	x 4	= 0		
Herb Stratum	60	37		UPL species	75 × 5	= 375		
1. Hirschfeldia incana 2. Schismus barbatus	$\frac{60}{15}$	Yes Yes	UPL	Column Totals:	75 (A)	375	(B)	
3.		1 68	UPL	Prevalence Index	c = B/A =	5.00	)	
4.				Hydrophytic Vegetati	on Indicato	rs:		
5.			_	Dominance Test is	s >50%			
6.				Prevalence Index	is ≤3.0¹			
7.				Morphological Ada			ting	
8.				data in Remark Problematic Hydro			n)	
Total Cover:	75 %			- Troblematic Hydro	priytic vege	itation (Explai	11)	
1.				<sup>1</sup> Indicators of hydric so	oil and wetl	and hydrology	must	
2.		-		be present.		, , , , , ,		
Total Cover:			_	Hydrophytic				
	of Biotic C	ruct	0/	Vegetation		No 🕝		
% Bare Ground in Herb Stratum	OI DIOLIC C	,, uət	<del>%</del>	Present? Ye	es ()	No 💿		
Tomains.								

SOIL Sampling Point: 13 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Texture<sup>3</sup> (inches) Color (moist) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> Remarks 0 - 1410YR 3/3 99 5YR 4/4 C PLSandy loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: Minor redox, but no indicators met. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

US Army Corps of Engineers

Remarks: No signs of hydrology.

Project/Site: Jacumba Valley Ranch	City/County:Jacumba/San Diego Sampling Date:2/24/202						
Applicant/Owner: JVR Energy Park, LLC				State: CA Sampling Point: 14			
Investigator(s): C. Schaaf, S. Carey		Section,	Township, Ra	nge:S4 T18S R8E			
Landform (hillslope, terrace, etc.): Field/flat		Local re	lief (concave,	convex, none):Concave		Slope (%):()	
Subregion (LRR):C - Mediterranean California	Lat:32.6	528178		Long: -116.176196		Datum: NAD	83
Soil Map Unit Name: Indio silt loam, saline, 0 to 2 perce	nt slopes			NWI classific	ation:		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	<ul><li>No (</li></ul>	(If no, explain in R	emarks.)		
Are Vegetation Soil or Hydrology sig	gnificantly	disturbed	d? Are '	"Normal Circumstances" p	present? Yo	es 💿 No	0
Are Vegetation Soil or Hydrology na	aturally pro	ob <b>l</b> ematic	? (If ne	eeded, explain any answe	rs in Remar	ks.)	
SUMMARY OF FINDINGS - Attach site map s	howing	sampli	ing point lo	ocations, transects,	, importa	nt features,	etc.
Hydrophytic Vegetation Present? Yes No	•						
		Is	the Sampled	I Area			
Wetland Hydrology Present? Yes No	•		ithin a Wetlar		No 🕡	)	
Remarks:Plot taken in historic ag field.		'					
VEGETATION							
	Absolute	Domina	nt Indicator	Dominance Test work	rchoot:		
	% Cover	Species		Number of Dominant S			
1.				That Are OBL, FACW,		0	(A)
2.				Total Number of Domin	iant		
3.				Species Across All Stra		1	(B)
4				Percent of Dominant Sp	pecies		
Total Cover: Sapling/Shrub Stratum	%			That Are OBL, FACW,	or FAC:	0.0 %	(A/B)
1.				Prevalence Index wor	ksheet:		
2.				Total % Cover of:	<u></u>	Multiply by:	_
3.		-		OBL species	x 1 =	0	
4.		-		FACW species	x 2 =	0	
5				FAC species	x 3 =	0	
Total Cover:	%			FACU species	x 4 =	V	
1.Sisymbrium irio	3	No	UPL		93 x 5 =	103	(D)
2. Schismus barbatus	$\frac{3}{10}$	No	UPL	Column Totals:	93 (A)	465	(B)
3. Erodium cicutarium	80	Yes	UPL	Prevalence Index	= B/A =	5.00	
4.				Hydrophytic Vegetation	on Indicator	rs:	
5.				Dominance Test is			
6.		-		Prevalence Index is			
7.				Morphological Ada data in Remarks			ng
8				Problematic Hydro	-		)
Total Cover: Woody Vine Stratum	93 %				, , , , , ,	( p	,
1.				<sup>1</sup> Indicators of hydric so	oil and wetla	and hydrology r	must
2.		-		be present.			
Total Cover:	%			Hydrophytic			
% Bare Ground in Herb Stratum 7 % % Cover	of Biotic C	Crust	%	Vegetation Present? Ye	s (	No 💿	
Remarks:				1.000.11	- 0		

SOIL Sampling Point: 14 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> Remarks 0 - 1410YR 3/3 100 Sandy loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No signs of hydrology.

Project/Site: Jacumba Valley Ranch		City/County: Jacumba/San Diego Sampling Date: 2/24/				
Applicant/Owner: JVR Energy Park, LLC				State:CA	Sampling	g Point:15
Investigator(s): C. Schaaf, S. Carey		Section, T	ownship, Ra	nge:S4 T18S R8E		
Landform (hillslope, terrace, etc.): Field/flat		Local relie	ef (concave,	convex, none):Cond	cave	Slope (%):()
Subregion (LRR):C - Mediterranean California	Lat:32.6	628178		Long: -116.17619	96	Datum: NAD 83
Soil Map Unit Name: Reiff fine sandy loam, 0 to 2 perce	nt slopes	5		NWI da	ssification:	
Are climatic / hydrologic conditions on the site typical for this			No (	(If no, explain	n in Remarks.)	
Are Vegetation   Soil   or Hydrology   si	gnificantly	disturbed?		"Normal Circumstan	ces" present?	Yes No No
	•	ob <b>l</b> ematic?		eeded, explain any a		
SUMMARY OF FINDINGS - Attach site map s						•
Hydrophytic Vegetation Present? Yes No	• •					
	•	ls t	the Sampled	l Area		
Wetland Hydrology Present? Yes No	•	wit	hin a Wetla	nd? Yes	O No	•
Remarks:Plot taken in historic ag field.						
VEGETATION						
	Abso <b>l</b> ute	Dominant	Indicator	Dominance Test	workshoot:	
	% Cover	Species?		Number of Domina		
1.				That Are OBL, FA		0 (A)
2			_	Total Number of D	ominant	
3				Species Across Al	I Strata:	1 (B)
4				Percent of Domina	ant Species	
Total Cover   Sapling/Shrub Stratum	: %			That Are OBL, FA	CW, or FAC:	0.0 % (A/B)
1.				Prevalence Index	worksheet:	
2.			-	Total % Cove	r of:	Multiply by:
3.		•		OBL species	X	1 = 0
4.				FACW species	x 2	2 = 0
5				FAC species		3 = 0
Total Cover:	%			FACU species		4 = 0
1-Sisymbrium irio	5	No	UPL	UPL species	)3	5 = 475
2.Hirschfeldia incana	10	No	UPL	Column Totals:	95 (A)	) 475 (B)
3. Descurainia pinnata	80	Yes	UPL	Prevalence I	ndex = B/A =	5.00
4.				Hydrophytic Veg	etation Indica	tors:
5.				Dominance T		
6.				Prevalence In		(D
7						(Provide supporting separate sheet)
8.						getation¹ (Explain)
Total Cover: Woody Vine Stratum	95 %					
1.				1	ric soi <b>l</b> and we	tland hydrology must
2.				be present.		
Total Cover:	%			Hydrophytic		
% Bare Ground in Herb Stratum 5 % % Cover	of Biotic C	Crust	%	Vegetation Present?	Yes (	No 💿
Remarks:				<u> </u>		

SOIL Sampling Point: 15 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) (inches) Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> \_\_Texture<sup>3</sup> Remarks 0-4 10YR 3/3 100 Loam 2 <u>C</u> 4-14 98 Loam 10YR 3/3 5YR 4/4 PL

<u> </u>						
	ing, RC=Root Channel, M=Matrix.					
<sup>3</sup> Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Cla	· · · · · · · · · · · · · · · · · · ·					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:					
Histosol (A1) Sandy Redox (S5)	1 cm Muck (A9) (LRR C)					
Histic Epipedon (A2)  Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)					
Black Histic (A3)  Loamy Mucky Mineral (F1)  Loamy Claved Matrix (F3)	Reduced Vertic (F18)					
Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	Red Parent Material (TF2) Other (Explain in Remarks)					
Stratified Layers (A5) (LRR C)  1 cm Muck (A9) (LRR D)  Depleted Matrix (F3)  Redox Dark Surface (F6)	U Other (Explain in Remarks)					
Depleted Below Dark Surface (A11)  Depleted Dark Surface (F7)						
Thick Dark Surface (A12)  Redox Depressions (F8)						
Sandy Mucky Mineral (S1)  Vernal Pools (F9)	<sup>4</sup> Indicators of hydrophytic vegetation and					
Sandy Gleyed Matrix (S4)	wetland hydrology must be present.					
Restrictive Layer (if present):	3 33					
Type:						
Depth (inches):	Hydric Soil Present? Yes No   No					
Remarks: Slight redox in lower layer, but no indicators met.	Tryanic Com Todonici Tod Tie G					
remains. Stight fedox in lower layer, but no indicators filet.						
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (2 or more required)					
	Water Marks (B1) (Riverine)					
Primary Indicators (any one indicator is sufficient)						
Surface Water (A1) Salt Crust (B11)	Sediment Deposits (B2) (Riverine)					
High Water Table (A2)  Biotic Crust (B12)	Drift Deposits (B3) (Riverine)					
Saturation (A3)  Aquatic Invertebrates (B13)	Drainage Patterns (B10)					
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)					
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Livin						
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	Crayfish Burrows (C8)					
Surface Soil Cracks (B6)  Recent Iron Reduction in Plowed S						
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Shallow Aquitard (D3)					
Water-Stained Leaves (B9)	FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No O Depth (inches):						
Water Table Present? Yes No Depth (inches):						
Saturation Present? Yes No Depth (inches):						
(includes capillary tringe)	Wetland Hydrology Present? Yes No   No					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ions), if available:					
Remarks: No signs of hydrology.						
US Army Corps of Engineers						
55.1, Co.ps of Engineers						
	Arid West - Version 11-1-2006					

Project/Site: Jacumba Valley Ranch	City/County:Jacumba/San Diego Sampling Date:2/24/202						
Applicant/Owner: JVR Energy Park, LLC				State: CA Sampling Point: 16			
Investigator(s): C. Schaaf, S. Carey		Section,	Township, Ra	nge:S4 T18S R8E			
Landform (hillslope, terrace, etc.): Field/flat		Local rel	ief (concave,	convex, none):Concave		Slope (%):0	)
Subregion (LRR):C - Mediterranean California	Lat:32.6	528178		Long: -116.176196		Datum: NAI	O 83
Soil Map Unit Name: Indio silt loam, saline, 0 to 2 perce	nt slopes			NWI classific	ation:		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ar? Yes	<ul><li>No (</li></ul>	(If no, explain in R	emarks.)		
Are Vegetation Soil or Hydrology sig	gnificantly	disturbed	? Are '	"Normal Circumstances" p	oresent? Y	es 💿 No	0
Are Vegetation Soil or Hydrology na	aturally pro	ob <b>l</b> ematic	? (If ne	eeded, explain any answe	rs in Remar	ks.)	
SUMMARY OF FINDINGS - Attach site map s	howing	sampli	ng point lo	ocations, transects,	, importa	nt features	, etc.
Hydrophytic Vegetation Present? Yes No							
		ls	the Sampled	l Area			
	•		thin a Wetlar		No (•		
Remarks: Plot taken in historic ag field.						<u>*                                    </u>	
VEGETATION							
	Absolute		nt Indicator	Dominance Test work	sheet:		
Tree Stratum (Use scientific names.)	% Cover	Species	? Status	Number of Dominant S That Are OBL, FACW,		0	<b>(A)</b>
2.			_	- That Ale OBL, FACVV,	UI FAC.	0	(A)
3.			_	<ul> <li>Total Number of Domin Species Across All Stra</li> </ul>		2	(B)
4.			_	-		2	(D)
Total Cover:	%			<ul> <li>Percent of Dominant Sp That Are OBL, FACW,</li> </ul>		0.0 %	(A/B)
Sapling/Shrub Stratum						0.0 70	(, , , )
1				Prevalence Index wor		NA ROLL	
2.			_	Total % Cover of:	<u> </u>	Multiply by:	-
3.				OBL species FACW species	x 2 =	-	
5.				FAC species	x 3 =		
Total Cover:				FACU species	x 4 =		
Herb Stratum	, 0				95 x 5 =		
1.Sisymbrium irio	5		UPL		95 (A)	475	(B)
<sup>2</sup> ·Hirschfeldia incana	30	Yes	UPL				
3.Descurainia pinnata	60	Yes	UPL	Prevalence Index		5.00	
4				Hydrophytic Vegetation  Dominance Test is		rs:	
5.			_	Prevalence Index is			
6.				Morphological Ada		rovide support	ina
7. 8.				- data in Remarks			9
Total Cover:	05.04			Problematic Hydro	phytic Vege	tation¹ (Exp <b>l</b> air	1)
Woody Vine Stratum	95 %						
1			_	<sup>1</sup> Indicators of hydric so	il and wetla	ınd hydro <b>l</b> ogy	must
2				be present.			
Total Cover:	%			Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 5 % % Cover	of Biotic C	rust	%		s 🔿	No 💿	
Remarks:				1			

SOIL Sampling Point: 16 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> 0 - 1410YR 3/3 100 Loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No (

Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No signs of hydrology. US Army Corps of Engineers Arid West - Version 11-1-2006

Project/Site: Jacumba Valley Ranch		City/Co	City/County: Jacumba/San Diego Sampling Date: 2/24/2020					
Applicant/Owner: JVR Energy Park, LLC				State:CA	Sampling	Point:17		
Investigator(s): C. Schaaf, S. Carey		Section	, Township, Ra	nge:S4 T18S R8E	_			
Landform (hillslope, terrace, etc.): Field/flat		Local r	elief (concave,	convex, none):Concave	e	Slope (%):()	)	
Subregion (LRR):C - Mediterranean California	Lat:32.6	519755		Long:-116.176634		Datum: NAI	D 83	
Soil Map Unit Name: Reiff fine sandy loam, 0 to 2 perce	nt slopes			NWI classif	ication:			
Are climatic / hydrologic conditions on the site typical for this	time of ye	ar? Ye	s   No (	(If no, explain in	Remarks.)			
Are Vegetation Soil or Hydrology sig	gnificantly	disturbe	ed? Are '	"Normal Circumstances"	present? Y	∕es <b>⑥</b> No	0	
Are Vegetation Soil or Hydrology na	aturally pro	ob <b>l</b> emati	c? (If ne	eeded, explain any answ	ers in Rema	rks.)		
SUMMARY OF FINDINGS - Attach site map s	howing	samp	ling point lo	ocations, transects	s, importa	ınt features	, etc.	
Hydrophytic Vegetation Present? Yes No	•							
			s the Sampled	l Area				
	•		within a Wetlaı		No (	•)		
Remarks:Plot taken in historic ag field.						<u> </u>		
VEGETATION								
	Absolute % Cover	Domin Specie	ant Indicator s? Status	Dominance Test wor				
1. (OSE SCIENTIFIC HATTES)	76 COVEL	Specie	Sialus_	Number of Dominant That Are OBL, FACW		0	(A)	
2.				- That Ale OBE, I AGVV	, or i Ac.	U	(^)	
3.				<ul> <li>Total Number of Dom Species Across All St</li> </ul>		3	(B)	
4.				-		3	(5)	
Total Cover:	%			<ul> <li>Percent of Dominant S</li> <li>That Are OBL, FACW</li> </ul>		0.0 %	(A/B)	
Sapling/Shrub Stratum				,		0.0 /0		
1				Prevalence Index wo		NA. Winds Inc.		
2.				Total % Cover of:	x 1	Multiply by: = 0	_	
3				OBL species FACW species	x 2	-		
5.				FAC species	x 3			
Total Cover:	%			FACU species	x 4	V		
Herb Stratum	, 0			UPL species	75 x 5			
1.Sisymbrium irio	5		UPL	Column Totals:	75 (A)	375	(B)	
<sup>2</sup> ·Hirschfeldia incana	20	Yes	UPL					
3. Descurainia pinnata	30	Yes	UPL	Prevalence Inde		5.00		
4-Schismus barbatus	20	Yes	UPL	Hydrophytic Vegetat		rs:		
5				Dominance Test Prevalence Index				
6.				Morphological Ad		Provide support	ina	
7. 8.				- data in Remar			iiig	
Total Cover:				- Problematic Hydr	ophytic Vege	∍tation¹ (Exp <b>l</b> air	n)	
Woody Vine Stratum	75 %							
1.				<sup>1</sup> Indicators of hydric s	oil and wetl	and hydro <b>l</b> ogy	must	
2.				be present.				
Total Cover:	%			Hydrophytic				
% Bare Ground in Herb Stratum 30 % % Cover	of Biotic C	Crust	%	Vegetation Present? Y	es (	No 💿		
Remarks:				1				

SOIL Sampling Point: 17 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> 0 - 1410YR 3/3 100 Loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No signs of hydrology.

Project/Site: Jacumba Valley Ranch		City/County:Jacumba/San Diego Sampling Date:2/24					20
Applicant/Owner: JVR Energy Park, LLC				State:CA	Samplin	ng Point:18	
Investigator(s):C. Schaaf, S. Carey		Section,	, Township, Ra	nge:S4 T18S R8E			
Landform (hillslope, terrace, etc.): Field/flat		Local re	elief (concave,	convex, none):Conc	cave	Slope (%):()	
Subregion (LRR):C - Mediterranean California	Lat:32.6	619755		Long:-116.17663	4	Datum: NAD	) 83
Soil Map Unit Name: Reiff fine sandy loam, 0 to 2 perce	nt slopes	5		NWI da	ssification:		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ear? Yes	No (	(If no, explain	n in Remarks.)	)	
Are Vegetation Soil or Hydrology sig	gnificantly	disturbe	d? Are "	Normal Circumstand	ces" present?	Yes   No	0
Are Vegetation Soil or Hydrology na	aturally pro	ob <b>l</b> ematio	c? (If ne	eded, explain any a	nswers in Ren	narks.)	
SUMMARY OF FINDINGS - Attach site map s	howing	samp	ling point lo	ocations, transe	ects, impor	tant features,	, etc.
Hydrophytic Vegetation Present? Yes No	•						
	•		s the Sampled	Area			
	•	v	vithin a Wetlar	nd? Yes	O No	•	
Remarks: Plot taken in historic ag field.							
VECETATION							
VEGETATION	Λ la a a l4 a	Danaina	nt Indianta	D			
	Abso <b>l</b> ute % Cover	Species	ant Indicator s? Status	Dominance Test			
1.				Number of Domina That Are OBL, FA		0	(A)
2.				Total Number of D	laminant		
3.				Species Across Al		1	(B)
4.		-		Doroont of Domina	nt Chaoina		
Total Cover:	%			Percent of Domina That Are OBL, FA		0.0 %	(A/B)
Sapling/Shrub Stratum				Prevalence Index	workshoot		
1				Total % Cover		Multiply by:	
3.				OBL species		1 = 0	-
4.				FACW species		2 = 0	
5.				FAC species		3 = 0	
Total Cover:	%			FACU species	х	4 = 0	
Herb Stratum				UPL species	31 ×	5 = 155	
1				Column Totals:	31 (A		(B)
2-Hirschfeldia incana	25	Yes	UPL	Drevelence I	ndov - D/A -	5.00	
3.Descurainia pinnata	3	No	UPL	Hydrophytic Veg	ndex = B/A =	2.00	
4-Schismus barbatus	3	No	UPL	Dominance Te		itors.	
5.				Prevalence In			
6. 7.						(Provide supporting	na
8.				data in Rer	marks or on a	separate sheet)	
Total Cover:	21 0/			Problematic H	lydrophytic Ve	egetation¹ (Explain	1)
Woody Vine Stratum	31 %						
1				<sup>1</sup> Indicators of hydrone be present.	ric soil and we	etland hydrology r	must
2				,			
Total Cover:	%			Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 5 % % Cover	of Biotic C	Crust	%	Present?	Yes 🔘	No 💿	
Remarks: Lots of dead vegetation.				I.			==

SOIL Sampling Point: 18 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> 0 - 1410YR 3/3 100 Loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? No

(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No signs of hydrology. US Army Corps of Engineers Arid West - Version 11-1-2006

Project/Site: Jacumba Valley Ranch		City/County: Jacumba/San Diego Sampling Date: 2/24					1/2020
Applicant/Owner: JVR Energy Park, LLC				State:CA	Sampli	ing Point:19	
Investigator(s):C. Schaaf, S. Carey		Section, 7	Γownship, Ra	nge:S4 T18S R8E	,		
Landform (hillslope, terrace, etc.): Field/flat		Local reli	ef (concave,	convex, none):Cone	cave	Slope	(%):0
Subregion (LRR):C - Mediterranean California	Lat:32.6	619755		Long:-116.17663	34	 Datum:	NAD 83
Soil Map Unit Name: Indio silt loam, 0 to 2 percent slope	 es			NWI da	assification:		
Are climatic / hydrologic conditions on the site typical for this		ear? Yes (	No (	(If no, explain	— n in Remarks.	.)	
Are Vegetation Soil or Hydrology sign	anificant <b>l</b> v	disturbed	~	'Normal Circumstan	ces" present?	Yes 🕡	No 🔘
		oblematic?		eeded, explain any a		_	
SUMMARY OF FINDINGS - Attach site map s			`	, ,		,	ıres, etc.
Hydrophytic Vegetation Present? Yes No	•						
		Is	the Sampled	l Area			
	•		thin a Wetlar		○ No	•	
Remarks: Plot taken in historic ag field. Just north of	airstrip a	djacent to	o border wa	11.			
VEGETATION				a			
	Abso <b>l</b> ute % Cover	Dominan Species?	t Indicator Status	Dominance Test			
1.				Number of Domin That Are OBL, FA		0	(A)
2.				- Total Number of D	Cominant		
3.				Species Across A		2	(B)
4.				Percent of Domina	ant Species		
Total Cover:	%			That Are OBL, FA		0.0	% (A/B)
Sapling/Shrub Stratum  1.				Prevalence Index	worksheet		
2.				Total % Cove		Multiply by	v:
3.				OBL species		x 1 =	0
4.				FACW species	>	x 2 =	0
5.		-		FAC species	>	x 3 =	0
Total Cover:	%			FACU species	>	x 4 =	0
Herb Stratum				UPL species	90	x 5 =	450
1. Schismus barbatus	15	No	UPL	Column Totals:	90 (	A)	450 (B)
2 Hirschfeldia incana	15	No	UPL	Prevalence	Index = B/A =	=	5.00
3. Descurainia pinnata 4. Erodium cicutarium	30	Yes Yes	UPL UPL	Hydrophytic Veg			3.00
5.		1 65	- UPL	Dominance T			
6.				Prevalence Ir	ndex is ≤3.0¹		
7.				Morphologica			
8.			_		marks or on a	•	· .
Total Cover:	90 %			Problematic F	tydrophytic V	egetation (E	xp <b>i</b> ain)
Woody Vine Stratum				<sup>1</sup> Indicators of hyd	ric soil and w	etland hydro	logy must
1			_	be present.	nc son and w	vedana nyaro	logy must
2Total Cover:	%		_	Hydrophytic			
				Vegetation	0	0	
% Bare Ground in Herb Stratum 5 % % Cover	of Biotic C	Crust	<u>%</u>	Present?	Yes 🔘	No 💿	
Remarks:							

SOIL Sampling Point: 19 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth (inches) Color (moist) Redox Features % Color (moist)

(inches)	Color (moist)		Color (moist)	70	_ rype	LOC-	Remarks	•				
0-10	10YR 3/3	100					Loam					
10-14	10YR 3/3	99 2.5	YR 3/6	1	C	PL	Loam					
	-											
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM=Re	educed Matrix.	<sup>2</sup> Locatio	n: PL=Pore	Lining, R	C=Root Channel, M=Matrix.					
<sup>3</sup> Soil Texture	es: Clay, Silty Clay, S	Sandy Clay, Lo	oam, Sandy Clay	Loam, S	andy Loam	, Clay Loa	m, Silty Clay Loam, Silt Loam, Silt, Loamy					
1	ndicators: (Applicabl	le to all LRRs,					Indicators for Problematic Hydric Soils					
Histoso	, ,		Sandy Redo Stripped Ma	, ,			1 cm Muck (A9) (LRR C)					
	pipedon (A2) listic (A3)		Loamy Muc				2 cm Muck (A10) (LRR B) Reduced Vertic (F18)					
1 🗀	en Sulfide (A4)		Loamy Gley				Red Parent Material (TF2)					
	d Layers (A5) (LRR C	<b>S</b> )	Depleted M				Other (Explain in Remarks)					
1 📖	uck (A9) ( <b>LRR D</b> )		Redox Dark		` '		<del>_</del>					
1 📖 .	d Below Dark Surface	e (A11)	Depleted D		, ,							
1 1 1	ark Surface (A12) Mucky Mineral (S1)		Redox Dep Vernal Poo		(F8)		⁴Indicators of hydrophytic vegetation ar	nd				
	Gleyed Matrix (S4)		veillai F00	is (F9)			wetland hydrology must be present.					
	Layer (if present):											
Type:	, , ,											
Depth (ir	iches):						Hydric Soil Present? Yes No   No					
1 ' '	light redox in lowe	r layer. No i	ndicators met.				<u> </u>					
	8											
HYDROLC	GY											
Wetland Hy	drology Indicators:						Secondary Indicators (2 or more r	equired)				
Primary Indi	cators (any one indica	ator is sufficie	nt)				Water Marks (B1) (Riverine)					
Surface	Water (A1)		Salt Crust	(B11)			Sediment Deposits (B2) (Rive	erine)				
High W	ater Table (A2)		Biotic Crus	, ,			Drift Deposits (B3) (Riverine)					
Saturat	` '		Aquatic In		` ,		Drainage Patterns (B10)					
l 🖳	/larks (B1) ( <b>Nonriveri</b>		Hydrogen				Dry-Season Water Table (C2	)				
	nt Deposits (B2) (Nor				eres along							
🗀	posits (B3) (Nonriver	rine)			ced Iron (C	•	Crayfish Burrows (C8)	(00)				
	Soil Cracks (B6)	(DZ)			tion in Plov	rea Soils (	′ <u> </u>	nagery (C9)				
1 🖳	ion Visible on Aerial II	magery (B7)	Other (Exp	olain in R	emarks)		Shallow Aquitard (D3)  FAC-Neutral Test (D5)					
Field Obser	Stained Leaves (B9)						FAC-Neutral Test (D5)					
Surface Wa		es ( No	Depth (in	chee).								
Water Table		es No		´—								
Saturation F		_	_	· · —								
	pillary fringe)	es O No	Deptil (III			Wetl	and Hydrology Present? Yes	No 💿				
	ecorded Data (stream	gauge, monit	oring well, aeria <b>l</b>	photos, p	revious ins	pections),	if available:					
Remarks:No	o signs of hydrolog	y.										
US Army Corp	s of Engineers											

Project/Site: Jacumba Valley Ranch		City/C	ounty: Jacumba	/San Diego	Sampling	Date: 2/24/202	20	
Applicant/Owner: JVR Energy Park, LLC		State:CA Sampling Point:2						
Investigator(s):C. Schaaf, S. Carey		Section	on, Township, R	ange:S4 T18S R8E	_			
Landform (hillslope, terrace, etc.): Field/flat		Local	relief (concave,	convex, none):Concav	——— е	Slope (%):0	)	
Subregion (LRR):C - Mediterranean California	Lat:32.0		,	Long:-116.176634	<u>-</u>	Datum: NAD 8		
Soil Map Unit Name: Indio silt loam, 0 to 2 percent				NWI classif	fication:			
		2 V	ían O Na A					
Are Manated in Tourish and Are	•				•	. O N		
Are Vegetation Soil or Hydrology	significantly			"Normal Circumstances"		_	0	
Are Vegetation Soil or Hydrology	naturally pr	oblema	atic? (If n	eeded, explain any answ	ers in Rema	rks.)		
SUMMARY OF FINDINGS - Attach site m	ap showing	sam	pling point I	ocations, transect	s, importa	ant features	, etc.	
Hudanahatia Vanahatian Basanato Van	N- C							
Hydrophytic Vegetation Present? Yes (Hydric Soil Present? Yes (Hydric Soil Present?	No 🕟 No 🕟		In the County	d A				
Hydric Soil Present? Yes (Wetland Hydrology Present? Yes (	No 🕟		Is the Sample		No 6	2		
Remarks: Plot taken in historic ag field. Just sou		diace	within a Wetla	$\sim$	No (	9		
The water in the content of the cont	un or unounp c	ragaro o						
VEGETATION								
	Absolute	Domi	nant Indicator	Dominance Test wo	rksheet:			
<u>Tree Stratum</u> (Use scientific names.)	% Cover	Spec	cies? Status	Number of Dominant	Species			
1				_ That Are OBL, FACW	, or FAC:	0	(A)	
2				_ Total Number of Dom	inant			
3				Species Across All St	rata:	2	(B)	
4				Percent of Dominant	Species			
Total ( Sapling/Shrub Stratum	Cover: %			That Are OBL, FACW	, or FAC:	0.0 %	(A/B)	
1.				Prevalence Index wo	orksheet:			
2.				Total % Cover of		Multiply by:		
3.				OBL species	x 1		_	
4.		-		FACW species	x 2	= 0		
5.				FAC species	x 3	= 0		
Total (	Cover: %			FACU species	10 x 4	= 40		
Herb Stratum				UPL species	85 x 5	= 425		
1-Schismus barbatus		Yes	UPL	_ Column Totals:	95 (A)	465	(B)	
<sup>2</sup> .Cryptantha intermedia	5	No	UPL	- B	D/A	4.00		
3. Hordeum murinum		No	FACU	Prevalence Inde		4.89		
<sup>4</sup> ·Erodium cicutarium		No	UPL	Hydrophytic Vegeta		ors:		
5. Amsinckia menziesii		Yes	UPL	Dominance Test Prevalence Index				
6. 				Morphological Ac		Oravida augment	ina	
7.						eparate supporti	ing	
8.				Problematic Hydr	ophytic Vege	etation¹ (Exp <b>l</b> air	n)	
Total 0 Woody Vine Stratum	Cover: 95 %							
1.				<sup>1</sup> Indicators of hydric s	soil and wetl	and hydrology	must	
2.				be present.				
Total C	Cover: %			Hydrophytic				
% Bare Ground in Herb Stratum 5 % % 0	Cover of Biotic (	`ruot	0/	Vegetation	/aa ()	No G		
	Cover of Biolic (	Jiust _	<u>%</u>	Present? Y	es 🔘	No 💿		
Remarks:								

US Army Corps of Engineers

SOIL Sampling Point: 20 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> Remarks 0 - 1410YR 3/4 100 Loamy sand <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches):

Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No signs of hydrology. US Army Corps of Engineers Arid West - Version 11-1-2006

Project/Site: Jacumba Valley Ranch	/San Diego	Sam	pling Date:2/	/24/2020					
Applicant/Owner: JVR Energy Park, LLC	State:CA	Sam	pling Point:2	1					
Investigator(s): C. Schaaf, S. Carey		Section, 7	ownship, Ra	ange:S4 T18S R8E		_			
Landform (hillslope, terrace, etc.): Field/flat		Local reli	ef (concave,	convex, none):Conc	cave	Slope (%):()			
Subregion (LRR):C - Mediterranean California	Lat:32.6	613715		Long:-116.17221	1	 Datur	Datum: NAD 83		
Soil Map Unit Name: Indio silt loam, 0 to 2 percent slo	pes —			NWI da	ssification:	<del></del>			
Are climatic / hydrologic conditions on the site typical for thi	•	ear? Yes (	• No (	(If no, explair	n in Remarl	ks.)			
Are Vegetation   Soil   or Hydrology	significantly	disturbed		"Normal Circumstand	ces" preser	nt? Yes	No 🔘		
	naturally pro			eeded, explain any a		_			
SUMMARY OF FINDINGS - Attach site map				•		,	atures, etc.		
	No ( )			<u> </u>	· ·				
	10 <b>(</b>	ls	the Sample	d Area					
<u> </u>	10 🔘		thin a Wetla		$\circ$	No 💿			
Remarks: Plot taken in artificial basin approximately	y 70 x 50 r	neters. B	ottom of ba	asin very even. Mo			native shrubs		
and non-native herbs present.									
VECETATION									
VEGETATION	Absolute	Dominon	t Indicator	Dominanas Test	workahaa	4.			
Tree Stratum (Use scientific names.)	% Cover	Species?	t Indicator Status	Number of Domina					
1.				That Are OBL, FA			(A)		
2.	_			_ Total Number of D	ominant				
3.				Species Across Al		3	(B)		
4	_			Percent of Domina	ant Species	3			
Total Cove Sapling/Shrub Stratum	er: %			That Are OBL, FA		-	) % (A/B)		
1.Isocoma acradenia	5	Yes	FACU	Prevalence Index	workshee	et:			
2.		- 103	-	Total % Cove		Multiply	/ by:		
3.	_		-	OBL species		x 1 =	0		
4.			-	FACW species		x 2 =	0		
5.				FAC species		x 3 =	0		
Total Cove	er: 5 %			FACU species	5	x 4 =	20		
Herb Stratum	1.5	* 7		UPL species	30	x 5 =	150		
1. Schismus barbatus	$-\frac{15}{5}$	Yes	UPL	_ Column Totals:	35	(A)	170 (B)		
2-Cryptantha intermedia 3-Erodium cicutarium	$-\frac{5}{10}$	No Yes	UPL	Prevalence I	ndex = B/	A =	4.86		
4.		168	UPL	Hydrophytic Veg	etation Inc	dicators:			
5.	_		-	Dominance Te	est is >50%	6			
6.	_			Prevalence In	dex is ≤3.0	)1			
7.				Morphological					
8.	_		-	- data in Rei		n a separate	•		
Total Cove	er: 30 %	_		Froblematic r	iyaropiiyad	vegetation	(шхріані)		
Woody Vine Stratum				<sup>1</sup> Indicators of hydi	ric soil and	I wetland hvo	drology must		
1   2.			-	be present.					
Total Cove	er: %		-	Hydrophytic					
			0/	Vegetation	V (	No C			
	er of Biotic C	rust	<u>%</u>	Present?	Yes 🔘	No 💿	1		
Remarks:									

SOIL Sampling Point: 21 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> Remarks 0 - 1410YR 3/4 100 Loamy sand <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No signs of hydrology.

US Army Corps of Engineers

Project/Site: Jacumba Valley Ranch	ty:Jacumba/	ea/San Diego Sampling Date:2/24/2					
Applicant/Owner: JVR Energy Park, LLC		State:CA	Sampl	Sampling Point:22			
Investigator(s): C. Schaaf, S. Carey	ownship, Rai	nge:S4 T18S R8E					
Landform (hillslope, terrace, etc.): Field/flat		Local reli	ef (concave, o	convex, none):Conc	ave	Slope	(%):0
Subregion (LRR):C - Mediterranean California		Long:-116.17663	4	 Datum:	NAD 83		
Soil Map Unit Name: Reiff fine sandy loam, 0 to 2 perce	nt slopes			NWI da	ssification:		
Are climatic / hydrologic conditions on the site typical for this	time of ye	ar? Yes (	● No C	(If no, explain	in Remarks	.)	
Are Vegetation Soil or Hydrology sig	gnificantly	disturbed	? Are "	Normal Circumstand	es" present?	? Yes 💿	No 🔘
Are Vegetation Soil or Hydrology na	aturally pro	ob <b>l</b> ematic?	(If ne	eded, explain any ar	nswers in Re	marks.)	
SUMMARY OF FINDINGS - Attach site map s	howing	samplii	ng point lo	ocations, transe	cts, impo	rtant featu	ıres, etc.
Hydrophytic Vegetation Present? Yes No	•						
	•		the Sampled				
	• • • • • • • • • • • • • • • • • • •		thin a Wetlar	nd? Yes	O No	0 💿	
Remarks: Plot taken in historic ag field just north of b	order wa	.111.					
VEGETATION							
	Absolute		t Indicator	Dominance Test	worksheet:		
	% Cover	Species?	Status_	Number of Domina			
1				That Are OBL, FAC	CW, or FAC:	0	(A)
2				Total Number of D		2	(D)
4.			<del>-</del>	Species Across All	Strata.	2	(B)
Total Cover:	%		-	Percent of Domina That Are OBL, FA		0.0	% (A/B)
Sapling/Shrub Stratum	70			·		0.0	76 (AID)
1				Prevalence Index			
2			_	Total % Cover		Multiply by x 1 =	<u>0</u>
3. 4.			-	OBL species FACW species		x 2 =	0
5.			-	FAC species		x 3 =	0
Total Cover:	%			FACU species		x 4 =	0
Herb Stratum				UPL species	50	x 5 =	250
1				Column Totals:			250 (B)
2-Hirschfeldia incana	20	Yes	UPL	Prevalence li	ndev = B/A :	_	5.00
3. Schismus barbatus	30	Yes	UPL	Hydrophytic Vege		•	3.00
5.				Dominance Te		,	
6.				Prevalence Inc	dex is ≤3.0¹		
7.				Morphological			
8.			-			a separate she	<i>'</i>
Total Cover:	50 %			Problematic H	yaropnytic V	egetation (Ex	xp <b>i</b> ain)
Woody Vine Stratum				<sup>1</sup> Indicators of hydr	ic soil and v	wetland hydro	logy must
1				be present.	ic son and v	vedana nyaro	logy must
2Total Cover:	%			Hydrophytic			
			2.1	Vegetation	v		
% Bare Ground in Herb Stratum 20 % % Cover	OT BIOUC C	rust	<u>%</u>	Present?	Yes 🔘	No 💿	
Remarks:							

SOIL Sampling Point: 22 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Texture<sup>3</sup> (inches) Color (moist) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> 0 - 1410YR 3/4 100 Loamy sand <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No ( (•) Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Slight surface soil cracking. However, as noted in the Arid West Supplement, surface soil cracks do not always indicate

hydrology "as they may also occur in temporary ponds and puddles in nonwetlands; these situations are easily distinguished by the absence of hydrophytic vegetation and/or hydric soils". Given the lack of other wetland indicators, the surface soil

US Army Corps of Engineers

cracks observed here are not considered a hydrology indicator.

Project/Site: Jacumba Valley Ranch	y:Jacumba/	a/San Diego Sampling Date:2/2			24/2020			
Applicant/Owner: JVR Energy Park, LLC		State:CA	Samı	Sampling Point:23				
Investigator(s):C. Schaaf, S. Carey	ownship, Ra	nge:S4 T18S R8E		_				
Landform (hillslope, terrace, etc.): Field/flat		Local relie	ef (concave,	convex, none):Con	Slop	Slope (%):()		
Subregion (LRR):C - Mediterranean California	519755		34	Datum: NAD 83				
Soil Map Unit Name: Reiff fine sandy loam, 0 to 2 perce	nt slopes			NWI da	assification:			
Are climatic / hydrologic conditions on the site typical for this			No (	(If no, explai	- n in Remark	(s.)		
Are Vegetation   Soil   or Hydrology   si	gnificantly	disturbed?		Normal Circumstan	ces" presen	it? Yes	No 🔿	
		oblematic?		eded, explain any a		_		
SUMMARY OF FINDINGS - Attach site map s			`	, ,		,	tures, etc	C.
Hydrophytic Vegetation Present? Yes No	• •							
		ls t	he Sampled	Area				
Wetland Hydrology Present? Yes No	•		hin a Wetlar		0 1	No 💿		
Remarks: Plot taken in historic ag field just north of b	order wa	ıll.						П
VEGETATION								
	Absolute	Dominant	Indicator	Dominance Test	workshoot			_
	% Cover	Species?	Status	Number of Domin				
1.				That Are OBL, FA			(A)	
2				Total Number of D	Dominant			
3				Species Across A	II Strata:	3	(B)	
4				Percent of Domin	ant Species			
Total Cover   Sapling/Shrub Stratum	: %			That Are OBL, FA	CW, or FAC	0.0	% (A/B)	)
1.				Prevalence Index	x workshee	et:		$\dashv$
2.				Total % Cove	er of:	Multiply	by:	
3.				OBL species		x 1 =	0	
4.				FACW species		x 2 =	0	
5				FAC species		x 3 =	0	
Total Cover:	%			FACU species	20	x 4 =	80	
1.Hordeum murinum	20	Yes	FACU	UPL species	67	x 5 =	335	۱,۰
2-Erodium cicutarium	50	Yes	UPL	Column Totals:	87	(A)	415 (E	"
3. Schismus barbatus	15	Yes	UPL	Prevalence	Index = B/A	<i>\( \)</i> =	4.77	
4.Sisymbrium irio	2	No	UPL	Hydrophytic Veg	etation Ind	licators:		
5.				Dominance T				
6.				Prevalence Ir				
7				Morphologica data in Re		ns" (Provide s n a separate :		
8.				Problematic I			•	
Total Cover: Woody Vine Stratum	87 %							
1.				<sup>1</sup> Indicators of hyd	ric soi <b>l</b> and	wetland hyd	rology must	t
2.				be present.				_
Total Cover:	%			Hydrophytic Vegetation				
% Bare Ground in Herb Stratum % % Cover	of Biotic C	rust	%	Present?	Yes 🔘	No 💿		
Remarks:								$\dashv$

SOIL Sampling Point: 23 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> Remarks 0 - 1410YR 3/3 100 Sandy loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches):

Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No ( Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No signs of hydrology. US Army Corps of Engineers Arid West - Version 11-1-2006

Project/Site: Jacumba Valley Ranch	y:Jacumba/s	San Diego	/2020				
Applicant/Owner: JVR Energy Park, LLC		State:CA	Samplin	Sampling Point:24			
Investigator(s):C. Schaaf, S. Carey	ownship, Rai	nge:S4 T18S R8E					
Landform (hillslope, terrace, etc.): Field/flat		Local relie	ef (concave, o	convex, none):Conc	ave	Slope (	%):0
Subregion (LRR):C - Mediterranean California	Lat:32.6	519755		Long:-116.17663	4	 Datum: ]	NAD 83
Soil Map Unit Name: Reiff fine sandy loam, 0 to 2 percer	- — ıt slopes			NWI cla	ssification:		
Are climatic / hydrologic conditions on the site typical for this			No (	(If no, explain	in Remarks.	)	
Are Vegetation Soil or Hydrology sig	ınificant <b>i</b> v	disturbed?	_	Normal Circumstand	ces" present?	Yes 🕡	No 🔘
	•	ob <b>l</b> ematic?		eded, explain any ai		_	
SUMMARY OF FINDINGS - Attach site map sh			`	, ,		,	res, etc.
Hydrophytic Vegetation Present? Yes No	•						
	•	ls t	he Sampled	Area			
Wetland Hydrology Present? Yes No		I	hin a Wetlan	id? Yes	O No	•	
Remarks: Plot taken in historic ag field just north of bo	order wa	111.					
VEGETATION							
	bsolute	Dominant	Indicator	Dominance Test	worksheet:		
	% Cover	Species?		Number of Domina			
1.				That Are OBL, FA		0	(A)
2			-	Total Number of D	ominant		
3				Species Across Al	l Strata:	1	(B)
4				Percent of Domina			
Total Cover: Sapling/Shrub Stratum	%			That Are OBL, FA	CW, or FAC:	0.0	% (A/B)
1.				Prevalence Index	worksheet:		
2.				Total % Cove	r of:	Multiply by	<u>':</u>
3.				OBL species	х	(1=	0
4.				FACW species	X	(2 =	0
5				FAC species		(3 =	0
Total Cover: Herb Stratum	%			FACU species	10	( 4 = ( 5 =	40
1.Hirschfeldia incana	10	Yes	FACU	UPL species		. •	0
2.	10	100		Column Totals:	10 (	A)	40 (B)
3.				Prevalence I	ndex = B/A =		1.00
4.				Hydrophytic Veg		ators:	
5.				Dominance Te			
6				Prevalence In		1 /D	
7				Morphological data in Rer		(Provide sup separate she	
8.				Problematic H	lydrophytic Ve	egetation¹ (Ex	p <b>l</b> ain)
Woody Vine Stratum	10 %						
1.				<sup>1</sup> Indicators of hydr	ric soi <b>l</b> and w	etland hydrol	ogy must
2.				be present.			
Total Cover:	%			Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 90 % % Cover of	of Biotic C	rust	%	Present?	Yes 🔘	No 💿	
Remarks:				<u> </u>			

US Army Corps of Engineers

SOIL Sampling Point: 24 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) Texture<sup>3</sup> (inches) Color (moist) Type<sup>1</sup> Loc<sup>2</sup> 0 - 1410YR 3/3 100 Sand <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix. <sup>2</sup>Location: PL=Pore Lining, RC=Root Channel, M=Matrix. 3Soil Textures: Clay, Silty Clay, Sandy Clay, Loam, Sandy Clay Loam, Sandy Loam, Clay Loam, Silty Clay Loam, Silt Loam, Silt, Loamy Sand, Sand. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils: Histosol (A1) 1 cm Muck (A9) (LRR C) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Redox Dark Surface (F6) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) Vernal Pools (F9) <sup>4</sup>Indicators of hydrophytic vegetation and Sandy Gleyed Matrix (S4) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? No ( Yes ( Remarks: No redox. **HYDROLOGY** Secondary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Water Marks (B1) (Riverine) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) High Water Table (A2) Biotic Crust (B12) Drift Deposits (B3) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drainage Patterns (B10) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Shallow Aguitard (D3) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes ( No ( Depth (inches): Water Table Present? Yes ( No ( Depth (inches): Saturation Present? Depth (inches): Yes ( No (

Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No signs of hydrology. US Army Corps of Engineers Arid West - Version 11-1-2006

# Attachment E

WETS Table

WETS Station: CAMPO ASOS, CA													
Requested years: 1971 - 2019													
Month	Avg Max Temp	Avg Min Temp	Avg Mean Temp	Avg Precip	30% chance precip less than	30% chance precip more than	Avg number days precip 0.10 or more	Avg Snowfall					
Jan	62.0	34.5	48.2	1.86	0.58	2.21	4	-					
Feb	61.3	34.1	47.7	2.28	1.01	2.78	5	-					
Mar	65.7	35.1	50.4	1.12	0.52	1.36	3	-					
Apr	69.2	36.9	53.0	0.76	0.21	0.84	2	-					
May	75.9	41.8	58.9	0.30	0.00	0.20	1	-					
Jun	85.5	45.8	65.6	0.05	0.00	0.00	0	-					
Jul	91.9	54.4	73.2	0.30	0.13	0.33	1	-					
Aug	92.3	54.4	73.4	0.23	0.00	0.13	1	-					
Sep	87.5	50.2	68.9	0.42	0.12	0.42	1	-					
Oct	77.5	43.2	60.3	-	-	-	-	-					
Nov	68.9	37.3	53.1	0.76	0.36	0.91	2	-					
Dec	60.7	33.4	47.0	1.70	0.51	2.01	4	-					
Annual:					-	-							
Average	74.9	41.7	58.3	-	-	-	-	-					
Total	-	-	-	-			-	-					
GROWING SEASON DATES													
Years with missing data:	24 deg = 31	28 deg = 30	32 deg = 29										
Years with no occurrence:	24 deg = 0	28 deg = 0	32 deg = 0										
Data years used:	24 deg = 18	28 deg = 19	32 deg = 20										
Probability	24 F or higher	28 F or higher	32 F or higher										
50 percent *	Insufficient data	Insufficient data	5/8 to 10/22: 167 days										
70 percent *	Insufficient data	Insufficient data	5/1 to 10/30: 182 days										
* Percent chance of the growing season occurring between the Beginning and Ending dates.													
STATS TABLE - total precipitation (inches)													
Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annl
1998				1.72	0.91	0.03	0.10	0.20	0. 19	0. 01	0.74	1. 16	5.06
1999	1.33	0.74	0.45	1.57	0.00	0.33	0.50	M0.00	0. 12	0. 00	0.00	0. 41	5.45
2000	0.42	3.51	1.08	0.34	M0.00	0.20	0.00	0.14	0. 22	0. 41	0.33	0. 03	6.68
2001	2.32	3.41	1.31	0.97	0.01	0.02	0.12	0.00	0. 67	0. 00	0.80	0. 73	10. 36
2002	0.32	0.09	0.82	0.49	M0.00	0.00	0.16	0.00	1. 07	0. 01	M0. 76	1. 58	5.30
2003	M0.16	3.73	M1.66	1.21	0.70	M0.00	M1.62	M0.01	M0. 41	M0. 00	M0. 42	0. 93	10. 85
2004	0.36	M3.60	0.59	1.32	0.00	0.00	0.09	0.01	0. 00	6. 51	M0. 49	M3. 51	16. 48
2005	4.06	3.94	1.25	0.43	0.02	M0.00	M0.45	M1.64	M0. 01	0. 53	0.11	0. 05	12. 49

2006	0.66	M0.45	M3.37	0.07	0.18	M0.16	M0.55	0.02	M0. 09	0. 33	0.15	M0. 92	6.95
2007	M0.56	3.27	M0.13	0.45	0.04	0.00	0.13	M0.13	M0. 01	M0. 18	M1. 45	0. 88	7.23
2008	M4.25	1.95	0.38	0.01	0.22	0.00	0.00	1.14	M0. 00	M0. 10	1.60	4. 63	14. 28
2009	M0.15	2.84	0.04	M0.19	M0.00	M0.01	M0.00	0.01	M0. 02	0. 03	M0. 09	M4. 00	7.38
2010	5.41	4.28	M2.16	1.74	0.00	0.00	0.10	0.00	M0. 08	M2. 90	M0. 08	M2. 43	19. 18
2011	M0.24	4.93	1.64	0.39	0.40	0.00	0.22	M0.00	0. 20	0. 39	2.94	1. 49	12. 84
2012	0.51	M1.52	1.76	2.26	0.00	0.00	0.35	0.55	0. 52	0. 34	0.43	2. 28	10. 52
2013	2.03	0.98	1.43	0.01	0.33	0.00	0.24	0.19	1. 51	0. 90	0.80	0. 55	8.97
2014	0.08	1.24	0.75	0.68	0.01	0.00	0.14	0.48	1. 41	0. 00	0.26	3. 61	8.66
2015	0.36	0.67	1.45	0.27	2.31	0.27	0.51	0.01	0. 59	1. 06	0.76	1. 25	9.51
2016	3.60	0.20	0.72	1.71	0.14	0.00	0.00	0.00	1. 01	0. 06	0.88	4. 29	12. 61
2017	6.66	3.69	0.11	0.00	0.89	0.00	0.16	0.00	0. 21	0. 00	0.34	0. 01	12. 07
2018	2.16	0.52	1.20	0.03	0.05	0.00	1.05	0.02	0. 00	0. 10	1.89	1. 71	8.73
2019	M1.82												1.82

Notes: Data missing in any month have an "M" flag. A "T" indicates a trace of precipitation.

Data missing for all days in a month or year is blank. Creation date: 2016-07-22

## Attachment F

Review Area Photos

## **ATTACHMENT F Review Area Photos**



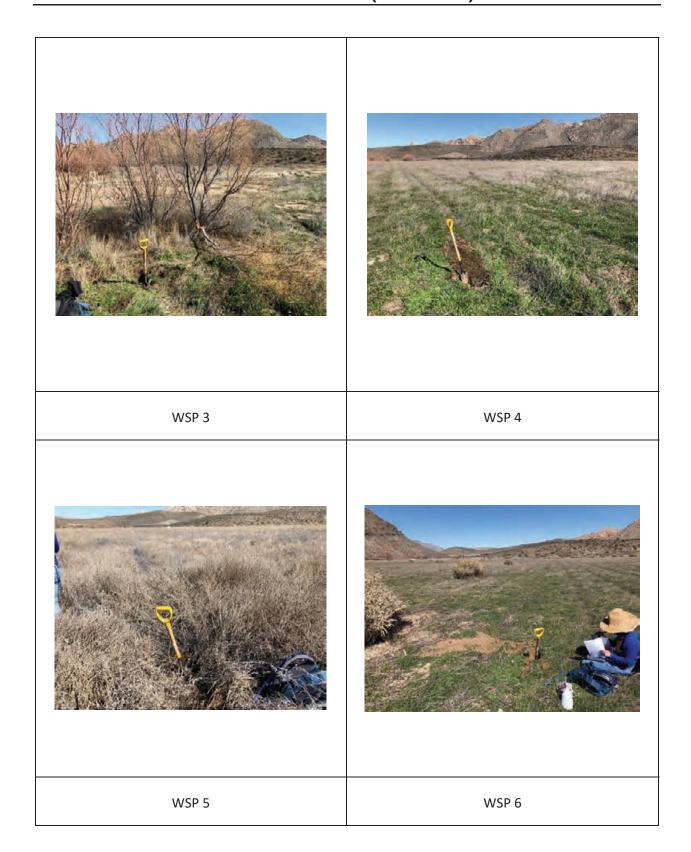


WSP 1a WSP 1b



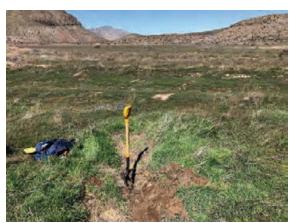


WSP 2a WSP 2b









WSP 7 WSP 8





WSP 9 WSP 10





WSP 11 WSP 12

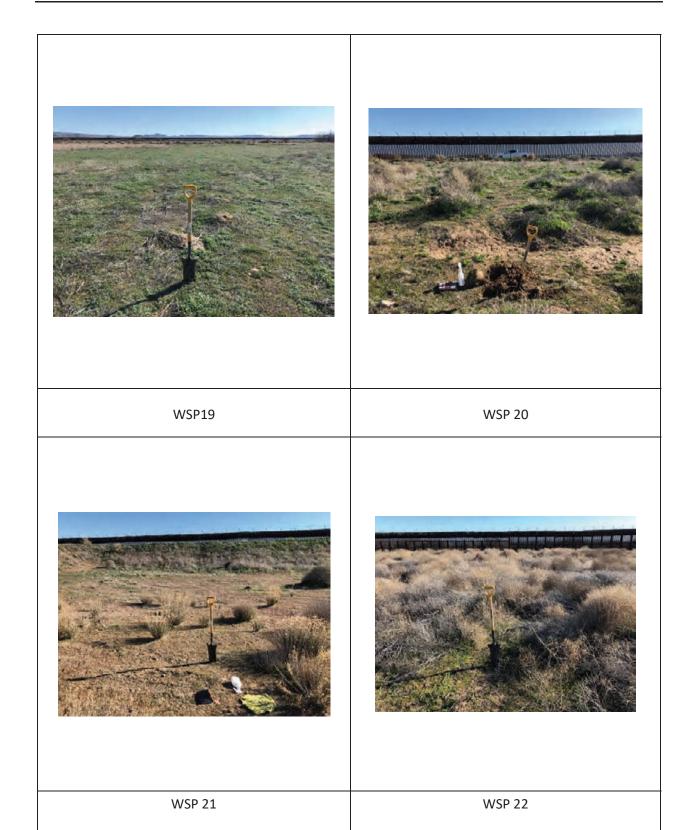




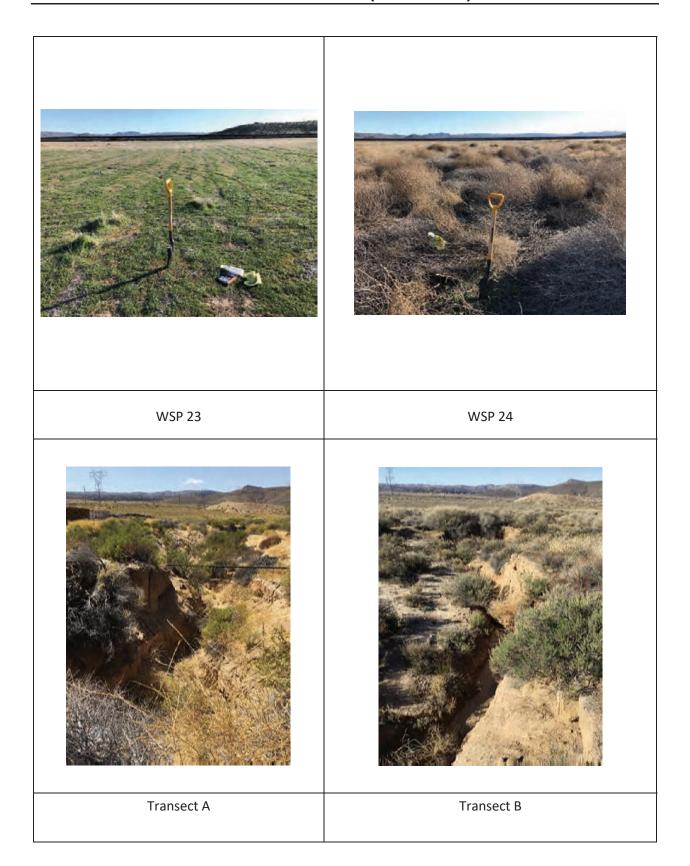
WSP 13 WSP 14















Transect C

Transect D Borrow pit 1

