

# Aquatic Resources Delineation Report

Pedrick Road

Solano County October 2023

#### Prepared for:

Bret Hogge Buzz Oates Construction, Inc. 555 Capitol Mall, Suite 900 Sacramento, CA 95814

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# 1.0 INTRODUCTION

This report presents the results of a delineation of aquatic resources within the Pedrick Road Property (Study Area) conducted by Madrone Ecological Consulting, LLC (Madrone). The approximately 37-acre Study Area is located south of Highway 80 and east of Pedrick Road in the Town of Dixon, Solano County, California, corresponding to Solano County Assessor's Parcel Number 011-010-080. The Study Area is located in a portion of Section 1, Township 7 North, Range 5 East (MDB&M) of the "Dixon California" 7.5-Minute Series USGS Topographic Quadrangle (USGS 2021) at a Latitude 38.482844°, Longitude -121.807263 (**Figure 1**).

## 1.1 Contact Information

Property Owner	Agent			
Bret Hogge	Sarah VonderOhe			
Development Project Manager, Buzz Oats	Madrone Ecological Consulting, LLC			
Construction, LLC	8421 Auburn Blvd., Suite #248			
555 Capitol Mall, Suite 900.	Citrus Heights, CA 95610			
Sacramento, CA 95814	SVonderOhe@madroneeco.com			
brethogge@buzzoates.com	916-822-3225			
916-379-3854				

# 2.0 METHODOLOGY

Madrone senior biologist Bonnie Peterson conducted a delineation of aquatic resources within the Study Area on 15 April and 2 September 2022. Data points were mapped in the field with a GPS unit capable of sub-meter accuracy (Arrow 100). Three-parameter data (vegetation, soils, and hydrology) were collected at each data point, documenting wetland/waters or upland status, as appropriate. The delineation map was prepared in accordance with the *Updated Map and Drawing Standards for the South Pacific Division Regulatory Program* (USACE 2016a). The GPS data was overlayed on an ortho-rectified aerial photograph (Maxar 2022).

The delineation was performed in accordance with the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987), the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (USACE 2008a), *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE 2008b), and the Sacramento District's *Minimum Standards for Acceptance of Preliminary Wetlands Delineations* (USACE 2016b). U.S. Army Corps of Engineers (USACE) regulations (33 CFR 328) were used to determine the presence of Waters of the United States other than wetlands. The most recent *National Wetland Plant List* (USACE 2023) was used to determine the wetland indicator status of plants observed in the Study Area. The *Jepson eFlora* (Jepson Flora Project 2023) was used for plant nomenclature, except where it conflicted with the nomenclature in the *National Wetland Plant List*, which was given priority on the data sheets.

# 3.0 EXISTING CONDITIONS

The Study Area is comprised of a leveled agricultural land at an elevation of approximately 65-ft above mean sea level. The Study Area is bound by Interstate 80 to the northwest, a stormwater basin and industrial site to the north, Pedrick Road to the east, and agricultural land to the south. The surrounding lands in general represent agricultural lands.

A shallow roadside ditch is located north of the Study Area and is directed through a culvert pipe into a box inlet structure in the northeastern corner of the Study Area. This box culvert drains to an off-site stormwater basin. A similarly shallow roadside feature is observable along Pedrick Road. The Study Area is dry land farmed and has been utilized as a hay field for a number of years and terrestrial plant communities in the Study Area are limited to agricultural lands and with ruderal fringes. During the April 2022 site visit the Study Area had been closely mowed, and by September it had been disked and was minimally vegetated. Scattered walnut trees (*Juglans sp.*) are located along the fringes of the Study Area along the Interstate 80 frontage.

#### 3.1 Terrestrial Plant Communities

#### 3.1.1 Agricultural

Dry farmed areas within the Study Area are regularly mowed and disked and are currently comprised of non-native annual grasses and weedy forbs. The primary crop appears to have been cultivated wheat (*Triticum aestivum*). In addition to the disked wheat, this vegetation community is dominated by tumbleweed (*Amaranthus albus*), Russian thistle (*Salsola tragus*), Johnsongrass (*Sorghum halepense*), common purslane (*Portulaca oleracea*), silver sheath knotweed (*Polygonum argyrocoleon*), alkali mallow (*Malvella leprosa*), filaree (*Erodium botrys*), Bermuda grass (*Cynodon dactylon*), prickly lettuce (*Lactuca serriola*), and winter vetch (*Vicia villosa*). Undisturbed areas along Pedrick Road and Highway 80 frontages include perennial ryegrass (*Festuca perennis*), filaree, wintervetch, yellow starthistle (*Centaurea solstitialis*), slender wild oat (*Avena barbata*), and (*Galium aparine*).

#### 3.2 Hydrology

Surface water in the Study Area is driven by natural stormwater runoff and seasonal irrigation. The Study Area is flat without evidence of concentrated flows. A partially blocked roadside ditch along Pedrick Road connects to a drop inlet that drains to a detention basin associated with the industrial property north of the Study Area. The Study Area is located in the Lower American River Watershed (HUC 1802011) (USGS 1978).

## 3.3 National Wetlands Inventory

The National Wetlands Inventory (NWI) produces and distributes maps and other geospatial data to the public on American wetland and deepwater habitats, as well as monitor changes in these habitats through time as directed by the Emergency Wetlands Resources Act of 1986 (Public Law 99-645). The NWI is primarily compiled through the use of trained image analysts to identify and classify wetlands and deepwater habitats from aerial imagery and is not a substitute for a full field analysis. The NWI has not mapped any wetlands or other aquatic resources within the Study Area (USFWS 2023).

## 3.4 Soils

According to the Natural Resources Conservation Service (NRCS) Soil Survey Database (NRCS 2023a), three soil mapping units occur within the Study Area (**Figure 2**): (BrA) Brentwood clay loam, 0 to 2 percent slopes, (Ca) Capay silty clay loam, 0 percent slopes, MLRA 17, and (Yo) 0 to 4 percent slopes, MLRA 17. None of the mapped soil map units are listed in the "Hydric Soils of the United States" (NRCS 2023b) or contain recognized hydric inclusions.

## 3.5 Driving Directions

To access the Study Area from Sacramento, drive west on Interstate 80 to the Pedrick Road exit. Drive south on Pedrick Road over the freeway and the Study Area is located on the west side of the road.

## 4.0 **RESULTS**

No aquatic resources were delineated within the Study Area. Three data points were collected in a shallow roadside ditch along Pedrick Road. This ditch was designed to convey runoff from Pedrick Road into a storm drain inlet in the northeast corner of the Study Area. The ditch was partially blocked to the south and does not appear to convey regular flow as the surrounding land is relatively flat. This concrete drain inlet in the northeast corner of the Study Area receives runoff from a more substantial off-site ditch segment north of the Study Area, and directs these flows into a storm water detention basin. Date points DP-1, DP-2, and DP-3 were collected in the on-site portion of this roadside ditch. The on-site ditch has no OHWM, but is dominated by perennial ryegrass, a non-native annual grass that is classified as a facultative wetland plant species. Therefore, it does meet the wetland dominance test and is classified as containing hydrophytic vegetation. However, the loamy clay soils lacked hydric soil indicators, and are not included on the hydric soils list. The ditch does not meet the tree parameters for wetland status. With the exception of biotic crust at data point DP-1 the ditch lacks hydrology indicators. No evidence of ponding or saturation within the ditch was observed in a review of aerial imagery (Google Earth 2023).

An additional data point (DP-4) was collected in the fallow field based off saturation visible on the July 2021 aerial image (Google Earth 2023). This data point was dominated by weedy upland forbs and lacked hydric soils or wetland hydrology. The saturation visible on the aerial imagery appears to have been irrigation

overflow from the field to the south and not consistent enough support the development of a wetland in this location.

Data sheets are included in Attachment A, maps of the Study Area are included as Figure 3 and Attachment B, and a list of the plant species observed in the Study Area with their wetland indicator status is included in Attachment C. Representative site photographs are available in Attachment D.

# 5.0 CONCLUSION

No wetlands or other waters were mapped within the Study Area. The shallow roadside ditch does not meet the hydrophytic vegetation, hydric soil, and wetland hydrology criteria outlined by the USACE.

The applicant is requesting an Approved Jurisdictional Determination for the site due to the lack of aquatic resources within the Study Area. The *Request for Aquatic Resource Verification or Jurisdictional Determination Form* is included in **Attachment E**.

# 6.0 **REFERENCES**

- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station. Vicksburg, Miss.
- Google Earth. 2023. Google earth pro V 7.3.4.8642. (May 12, 2023). Latitude 38.482844°, Longitude 121.807263. SIO, NOAA, U.S. Navy, NGA, GEBCO. http://www.earth.google.com [accessed October 2023].

HistoricAerials.com. 2023. Viewer available at: https://www.historicaerials.com/viewer.

Jepson Flora Project (eds.) 2023. *Jepson eFlora*. Available on-line at: http://ucjeps.berkeley.edu/eflora/. [accessed October 2023].

Maxar 2022. Aerial Photograph of the Study Area. Imagery © 2022 Maxar, Dated 27 September 2022.

- Soil Survey Staff, Natural Resources Conservation Service (NRCS), 2023a United States Department of Agriculture (NRCS). 2023a. *Web Soil Survey*. Available online at http://websoilsurvey.nrcs.usda.gov/. Accessed October 2023.
- NRCS. 2023b. Soil Data Access (SDA) Hydric Soils List Available online at https://www.nrcs.usda.gov/Internet/FSE\_DOCUMENTS/nrcseprd1316620.html. Accessed October 2023.

- U.S. Army Corps of Engineers (USACE). 2008a. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)*, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-08-28. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- U.S. Army Corps of Engineers (USACE). 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. Prepared by R. W. Lichvar and S. M. McColley. ERDC/CRREL TR-08-12. Cold Regions Research and Engineering Laboratory.
- U.S. Army Corps of Engineers (USACE). 2016. *Minimum Standards for Acceptance of Aquatic Resources Delineation Reports*. U.S. Army Corps of Engineers, Sacramento District. Dated January 2016. Available online at: http://www.spk.usace.army.mil/Portals/12/documents/regulatory/jd/ minimum-standards/Minimum\_Standards\_for\_Delineation\_with\_Template-final.pdf
- U.S. Army Corps of Engineers (USACE). 2016a. Updated Map and Drawing Standards for the South Pacific Division Regulatory Program. Dated February 10, 2016. Available online at: http://www.spd.usace.army.mil/Missions/Regulatory/Public-Notices-and-References/Article/651327/updated-map-and-drawing-standards/.
- U.S. Army Corps of Engineers 2023. National Wetland Plant List, version 3.4, http://wetlandplants.usace.army.mil/, U.S. Army Corps of Engineers Engineer Research and Development Center Cold Regions Research and Engineering Laboratory, Hanover, NH
- U.S. Department of the Interior, Geological Survey (USGS). 1978. *Hydrologic Unit Map, State of California*. Geological Survey. Reston, Virginia.
- U.S. Department of the Interior, Geological Survey (USGS). 2021. *Dixon, California* 7.5-minute Quadrangle. Geological Survey. Denver, Colorado.
- U.S. Fish and Wildlife Service. October 2023, National Wetland Inventory (NWI) wetlands mapper, https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper, accessed October 2023. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.

# Figures

Figure 1. Vicinity Map

- Figure 2. Natural Resources Conservation Service Soils
- Figure 3. Aquatic Resources



Source: United States Geologic Survey, 2021 "Dixon, California" 7.5-Minute Topographic Quadrangle Section 1, Township 7 North, Range 1 East, MDBM Latitude (NAD83): 38.482844°, Longitude (NAD83): -121.807263°

Pedrick Road Dixon, Solano County, California



Soil Survey Source: USDA, Soil Conservation Service. Soil Survey Geographic (SSURGO) database for Solano County, California Boundary Source: Morton and Pitalo Aerial Source: Maxar, 27 September 2022

400

200

Figure 2 Natural Resources Conservation Service Soils



Pedrick Road Dixon, Solano County, California



Figure 3 Aquatic Resources



Boundary Source: Morton and Pitalo Aerial Source: Maxar, 27 September 2022

P:\Pedrick Road - 22055\Maps\MXDs\MXDs ARD\Fi

Pedrick Road Dixon, Solano County, California

# Attachments

Attachment A. Arid West Wetland Determination Data Forms

Attachment B. Aquatic Resources Delineation

Attachment C. Plant Species Observed within the Study Area

Attachment D. Representative Site Photographs

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**Arid West Wetland Determination Data Forms** 

# U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Arid West Region

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

See ERDC/EL TR-08-28; the propo	nent agency	is CECW-0	CO-R	(Authority: A	R 335-15, paragr	apri 5-za)
Project/Site: Pedrick Road		City/Cou	nty: <u>Dix</u> on, S	Solano County	Sampling Dat	te: <u>9/2/</u> 2022
Applicant/Owner: Buzz Oats Construction				State:	Sampling Poi	nt: DP-1
Investigator(s): Bonnie Peterson		Section, 1	Fownship, Ra	ange: Section 10, Tow	– nship 11 North, R	ange 6 East.
Landform (hillside, terrace, etc.): Valley floor		Local relief (co	oncave. conv	vex. none): Concave		Slope (%): 2
Subregion (LRR): LRR C Lat			Long.		Datu	m· NAD 83
Soil Man Unit Name: Volo Joam 0 to 4 percent slope	MIRA 17		Long		ification: None	III. IIAD 00
			., .,			
Are climatic / hydrologic conditions on the site typica	I for this time c	of year?	Yes <u>X</u>	No (If no, e	xplain in Remarks	5.)
Are Vegetation, Soil, or Hydrology	significantly	disturbed? A	Are "Normal C	Circumstances" present	? Yes <u>X</u>	No
Are Vegetation, Soil, or Hydrology	naturally pro	blematic? (	If needed, ex	plain any answers in R	emarks.)	
SUMMARY OF FINDINGS – Attach site r	nap showir	ng sampling	g point lo	cations, transects	, important fe	eatures, etc
Hydrophytic Vegetation Present? Yes X	No	Is the	e Sampled A	rea		
Hydric Soil Present? Yes	No X	withi	n a Wetland	? Yes	<u>No X</u>	
Wetland Hydrology Present? Yes X	No					
Remarks:		-				
Point selected in a roadside ditch adjacent to a rip r	ap drop inlet.					
VEGETATION – Use scientific names of	plants.	Dominant	Indiaator			
Tree Stratum (Plot size: )	Absolute % Cover	Dominant Species?	Status	Dominance Test we	orksheet:	
1				Number of Dominan	t Species That	
2.				Are OBL, FACW, or	FAC:	1 (A)
3				Total Number of Dor	minant Species	
4.				Across All Strata:	_	1 (B)
		=Total Cover		Percent of Dominant	t Species That	
Sapling/Shrub Stratum (Plot size:	_)			Are OBL, FACW, or	FAC:	<u>100.0%</u> (A/
1.						
2				Prevalence Index w	orksheet:	Aution by
3						
45				OBL species	$\frac{0}{0}$ x1 =	0
J		-Total Cover		FAC species	$\frac{0}{75}$ x 3 =	225
Herb Stratum (Plot size: 1 meter sq. )				FACU species	$5 \times 4 =$	20
1. Epilobium brachycarpum	5	No	FAC	UPL species	10 x 5 =	50
2. Lactuca serriola	5	No	FACU	Column Totals:	90 (A)	295 (B)
3. Solanum vulgaris	10	No	UPL	Prevalence Index	c = B/A = 3	3.28
4. Festuca perennis/ Lolium perenne	70	Yes	FAC			
5.				Hydrophytic Vegeta	ation Indicators:	
6	_			X Dominance Tes	t is >50%	
7.				Prevalence Inde	ex is ≤3.0 <sup>1</sup>	
8				Morphological A	daptations <sup>1</sup> (Prov	ide supporting
	90	=Total Cover		data in Rema	rks or on a separa	ate sheet)
Woody Vine Stratum (Plot size:	)			Problematic Hyd	drophytic Vegetati	on <sup>1</sup> (Explain)
1				<sup>1</sup> Indicators of hydric	soil and wetland I	nydrology musi
2				be present, unless d	isturbed or proble	matic.
		-Total Covor		I		
				Hydrophytic		
0/ Data Oround in Light Strature - 0				Hydrophytic Vegetation		

SOIL

Profile Desc	ription: (Describe t	o the depth	needed to doo	ument tl	he indica	tor or o	confirm the absence of	indicators.)		
Depth	Matrix		Red	ox Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-4									Rock	
4-18	2 51/ 3/2	100								
4-10	2.5y 5/2	100					Loanty/Clayey			
$^{1}$ Type: C=C	ncentration D-Den	etion RM-R	educed Matrix	CS=Cove	ered or Co	nated S	and Grains <sup>2</sup> Locati	on: PI -Pore	Lining M-M	Matrix
Hydric Soil	Indicators: (Applical	ble to all LR	Rs. unless oth	erwise n	oted.)		Indicators	for Problem	atic Hydric	Soils <sup>3</sup> :
Histosol	(A1)		Sandy Re	edox (S5)	otoui,		1 cm M	luck (A9) (I R	R C)	
Histic Fr	pinedon (A2)		Stripped I	Matrix (Sf	3)		2 cm M	luck (A10) (I	RR B)	
Black Hi	stic (A3)			ucky Min	eral (F1)			anganese Ma	isses (F12) (	
Hydroge	n Sulfide (A4)		Loamy G	leved Ma	trix (F2)		2 Reduct	ed Vertic (F18	R)	)
Stratified	I avers (A5) <b>(I RR C</b>	۱	Depleted	Matrix (F	(1 <u>2</u> )		Red P	arent Material	(F21)	
1 cm Mu	ck (A9) (I RR D)	/	Bedox Da	ark Surfac	ce (F6)		Verv S	hallow Dark S	Surface (E22	2)
Depleter	Below Dark Surface	(A11)	Depleted	Dark Sur	face (F7)		Other (	Explain in Re	emarks)	7
Thick Da	ark Surface (A12)	()	Redox De	epression	s (F8)					
Sandy M	luckv Mineral (S1)				0 (. 0)					
Sandy G	leved Matrix (S4)	<sup>3</sup> Indicators	of hydrophytic	vegetatio	n and we	tland h	/droloav must be presen	t. unless distu	urbed or prol	blematic.
	aver (if observed):		, , ,	0				,	•	
Type	Layer (il observeu).									
Depth (ir	iches).		_				Hydric Soil Present?		Yes	No X
Domorius:			_							
Remarks:										
	GY									
Wotland Hy	drology Indigators									
Primary India	cators (minimum of or	no is roquiro	d: check all that	annly)			Secondary	Indicators (m	ninimum of t	wo required)
<u>1 minary maio</u>	Water (A1)	le la require	Salt Crue	+ (B11)			<u>Secondary</u> Water	Marke (B1) /	iverine)	<u>No required)</u>
High Wa	ter Table ( $\Delta 2$ )		X Biotic Cru	(BTT) ist (R12)				ant Denosits	(R2) (Riveri	ne)
Saturatio	$(\Delta 3)$		Aquatic Ir		tos (B13)			enceite (B3) (	Riverine)	
Water M	arks (B1) <b>(Nonriveri</b> i	ne)	Hydrogen	Sulfide (	Odor (C1)		Draina	de Patterns (I	B10)	
Sedimer	nt Deposits (B2) <b>(Non</b>	riverine)	Oxidized	Rhizosph	eres on l	, ivina R	oots (C3) Drv-Se	ason Water 1	Table (C2)	
Drift Der	osits (B3) <b>(Nonriver</b> i	ine)	Presence	of Redu	ced Iron (	C4)	Cravfis	h Burrows (C	:8)	
Surface	Soil Cracks (B6)		Recent Ir	on Reduc	tion in Ti	lled Soil	ls (C6) Satura	tion Visible or	n Aerial Ima	aerv (C9)
	on Visible on Aerial In	nagery (B7)	Thin Muc	k Surface	e (C7)		Shallov	w Aquitard (D	3)	<u>y</u> er) (ee)
Water-S	tained Leaves (B9)		Other (Ex	plain in F	Remarks)		FAC-N	eutral Test (E	-, 05)	
Field Obser	vations:				,			,	,	
Surface Wat	er Present? Yes	5	No X	Depth (i	nches):					
Water Table	Present? Yes	s	No X	Depth (i	nches):					
Saturation P	resent? Ye	s	No X	Depth (i	nches):		Wetland Hydrology	Present?	Yes X	No
(includes car	oillary fringe)				<i>′</i> –					
Describe Re	corded Data (stream	gauge, moni	toring well, aeria	al photos	, previous	s inspec	tions), if available:			
Remarks:										

# U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Arid West Region

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

See ERDC/EL TR-08-28; the propor	nent agency		JU-K	(	
Project/Site: Pedrick Road		City/Cou	nty: Dixon,	Solano County Samplir	ig Date: 9/2/2022
pplicant/Owner: Buzz Oats Construction				State: Samplir	g Point: DP-2
vestigator(s): Bonnie Peterson		Section.	Fownship, Ra	ange: Section 10. Township 11 No	orth. Range 6 East.
andform (hillside, terrace, etc.); Valley floor		Local relief (co			Slope (%): 2
				ex, none). Concave	Slope ( 76)
Subregion (LRR): <u>LRR C</u> Lat:		=	Long:		Datum: NAD 83
oil Map Unit Name: Capay silty clay loam, 0 percer	nt slopes, MLR	A 17		NWI classification: N	one
re climatic / hydrologic conditions on the site typical	I for this time c	f year?	Yes X	No (If no, explain in Re	narks.)
re Vegetation, Soil, or Hydrology	significantly	disturbed? A	re "Normal (	Circumstances" present? Yes	X No
re Vegetation, Soil, or Hydrology	naturally pro	blematic? (	If needed, e>	plain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site n	nap showir	ng sampling	g point lo	cations, transects, importa	nt features, etc
	No	Is the	e Sampled A	rea	
Hvdric Soil Present? Yes	No X	withi	n a Wetland	? Yes No	х
Wetland Hydrology Present? Yes	No X				
Remarks:					
Point selected in a roadside ditch					
/EGETATION – Use scientific names of	plants.				
	Absolute	Dominant	Indicator	Dominance Test workshoet	
<u>ree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:	
)				Number of Dominant Species TI	iat
2				Ale OBL, FACW, OF FAC.	(A)
۶				Lotal Number of Dominant Spec	IES 1 (P)
т	_	-Total Cover			(D)
Sanling/Shrub Stratum (Plot size:	)			Are OBL FACW or FAC	at 100.0% (A/I
1.	/				
2.				Prevalence Index worksheet:	
3.	_			Total % Cover of:	Multiply by:
4.	_			OBL species 0 x	1 = 0
5.				FACW species 0 x	2 = 0
	_	=Total Cover		FAC species 50 x	3 = 150
Herb Stratum (Plot size: 1 meter sq.)	1			FACU species 5 x	4 = 20
1. Brassica nigra	5	No	UPL	UPL species 17 x	5 = 85
2. Lactuca serriola	5	No	FACU	Column Totals: 72 (A)	255 (B)
3. Centaurea solstitialis	10	No	UPL	Prevalence Index = $B/A$ =	3.54
4. Festuca perennis/ Lolium perenne	50	Yes	FAC		
5. Convolvulus arvensis	2	No	UPL	Hydrophytic Vegetation Indica	tors:
6.				X Dominance Test is >50%	
7.				Prevalence Index is ≤3.0 <sup>1</sup>	
3				Morphological Adaptations <sup>1</sup>	(Provide supporting
	72	=Total Cover		data in Remarks or on a s	eparate sheet)
Noody Vine Stratum (Plot size:	)			Problematic Hydrophytic Ve	getation <sup>1</sup> (Explain)
1				<sup>1</sup> Indicators of hydric soil and we	land hydrology must
2				be present, unless disturbed or	problematic.
		=Total Cover		Hydrophytic	
				Vegetation	

SOIL

Profile Desc	ription: (Describe	to the depth	needed to doo	cument t	he indica	tor or o	confirm the absend	ce of indicators.	.)	
Depth	Matrix		Red	ox Featu		. 2	_			
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture		Remarks	
0-18	2.5y 3/1	100					Loamy/Clayey			
		·								
		·						_		
<sup>1</sup> Type: C=Co	ncentration, D=Dep	letion, RM=R	educed Matrix,	CS=Cove	ered or Co	bated S	and Grains. <sup>2</sup> L	ocation: PL=Por	re Lining, M=N	Matrix.
Hydric Soil I	ndicators: (Applica	able to all LR	Rs, unless oth	erwise n	oted.)		Indica	tors for Proble	matic Hydric	Soils <sup>3</sup> :
Histosol (	(A1)		Sandy Re	edox (S5)			1	cm Muck (A9) <b>(L</b>	.RR C)	
Histic Ep	ipedon (A2)		Stripped I	Matrix (S	6)		2	cm Muck (A10) <b>(</b>	LRR B)	
Black His	stic (A3)		Loamy M	ucky Min	eral (F1)			on-Manganese M	lasses (F12)	(LRR D)
Hydroger	n Sulfide (A4)		Loamy G	leyed Ma	trix (F2)		Re	educed Vertic (F	18)	
Stratified	Layers (A5) (LRR (	C)	Depleted	Matrix (F	3)		Re	ed Parent Materi	al (F21)	
1 cm Mu	ck (A9) <b>(LRR D)</b>		Redox Da	ark Surfa	ce (F6)			ery Shallow Dark	Surface (F22	2)
Depleted	Below Dark Surface	e (A11)	Depleted	Dark Sur	face (F7)		01	ther (Explain in F	Remarks)	
Thick Da	rk Surface (A12)		Redox De	epression	s (F8)					
Sandy M	ucky Mineral (S1)									
Sandy G	eyed Matrix (S4)	<sup>3</sup> Indicators	of hydrophytic	vegetatio	n and we	tland hy	drology must be pro	esent, unless dis	sturbed or pro	blematic.
Restrictive L	ayer (if observed):	1								
Type:										
Depth (in	ches):		_				Hydric Soil Pres	ent?	Yes	No X
Remarks:										
HYDROLO	GY									
Wetland Hyd	rology Indicators:									
Primary Indic	ators (minimum of c	one is required	d; check all that	apply)			Secon	dary Indicators (	minimum of t	wo required)
Surface \	Vater (A1)		Salt Crus	t (B11)			W	ater Marks (B1)	(Riverine)	
High Wat	er Table (A2)		Biotic Cru	ust (B12)			Se	ediment Deposits	s (B2) (Riveri	ne)
Saturatio	n (A3)		Aquatic Ir	nvertebra	tes (B13)		Dr	rift Deposits (B3)	(Riverine)	
Water Ma	arks (B1) <b>(Nonriver</b>	ine)	Hydrogen	Sulfide	Odor (C1)	)	Dr	rainage Patterns	(B10)	
Sedimen	t Deposits (B2) (No	nriverine)	Oxidized	Rhizosph	neres on L	iving R	oots (C3) Dr	ry-Season Water	Table (C2)	
Drift Dep	osits (B3) <b>(Nonrive</b>	rine)	Presence	of Redu	ced Iron (	C4)	Cr	rayfish Burrows (	C8)	
Surface S	Soil Cracks (B6)		Recent Ir	on Reduc	tion in Til	led Soil	s (C6) Sa	aturation Visible	on Aerial Ima	gery (C9)
Inundatio	n Visible on Aerial I	magery (B7)	Thin Muc	k Surface	e (C7)		Sł	nallow Aquitard (	D3)	
Water-St	ained Leaves (B9)		Other (Ex	plain in F	Remarks)		F <i>i</i>	AC-Neutral Test	(D5)	
Field Observ	vations:									
Surface Wate	er Present? Ye	es	No X	Depth (i	inches):					
Water Table	Present? Ye	es	No X	Depth (i	inches):					
Saturation Pr	esent? Ye	es	No X	Depth (i	inches):		Wetland Hydro	ology Present?	Yes	No X
(includes cap	illary fringe)									
Describe Rec	orded Data (stream	gauge, moni	toring well, aeria	al photos	, previous	inspec	tions), if available:			
Remarks:										

#### U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Arid West Region See ERDC/EL TR-08-28; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: Pedricl	Road			City/C	ounty: Dixon,	Solano County	Sampling [	Date: <u>9/2/</u> :	2022
Applicant/Owner:	Buzz Oats C	Construction				State:	Sampling F	oint: [	DP-3
Investigator(s): Bon	nie Peterson			Section	n, Township, Ra	ange: Section 10,	Township 11 North	, Range 6 E	ast.
Landform (hillside, t	errace, etc.):	Valley floor		Local relief	(concave, conv	/ex, none): Conc	ave	Slope (%)	: 2
Subregion (LRR):	LRR C	Lat:			Long:		Da	tum: NAE	0 83
Soil Map Unit Name	: Capay silty	clay loam, 0 per	cent slopes, MLI	RA 17		NWI	classification: None	÷	
Are climatic / hydrol	ogic condition	s on the site typi	ical for this time	of year?	Yes X	No (If	no, explain in Rema	rks.)	
Are Vegetation	, Soil	, or Hydrology	significantly	/ disturbed?	Are "Normal	Circumstances" pre	esent? Yes X	No	
Are Vegetation	, Soil	, or Hydrology	naturally pr	oblematic?	(If needed, ex	plain any answers	in Remarks.)		
SUMMARY OF	FINDINGS	– Attach site	e map showi	ing sampli	ing point lo	cations, transe	ects, important	features	, etc.
Hydrophytic Vegeta Hydric Soil Presen Wetland Hydrology	ation Present? t? v Present?	Yes X Yes Yes	No No _X No _X	ls t wit	the Sampled A thin a Wetland	Area I? Yes	No_X	_	
Remarks: Point selected in a	roadside ditch	٦.							
VEGETATION -	- Use scier	ntific names	of plants.						
Tree Ctreture	(Dist size)	)	Absolute	Dominant	t Indicator	Deminence Te	of workshow		
12.	(Plot size:	)	% Cover	Species?	Status	Number of Dom Are OBL, FACV	ninant Species That N. or FAC:	1	(A)
3						Total Number of Across All Strat	of Dominant Species	1	(B)
Sapling/Shrub Stra	<u>tum</u> (P	lot size:	)	=Total Cove	er	Percent of Dom Are OBL, FACV	hinant Species That W, or FAC:	100.0%	_(A/B)
2. 3.						Prevalence Inc Total % Co	dex worksheet:	Multiply by	/:
4.						OBL species	0 x 1 =	0	_
5						FACW species	0 x 2 =	0	_
Horb Stratum	(Plot size:	1 motor og		= I otal Cove	er	FAC species	$100 \times 3 =$	300	_
1 Festuca pereni	nis/ Lolium per	renne	100	Yes	FAC		$\frac{0}{0}$ x4 =	0	-
2.						Column Totals:	100 (A)	300	(B)
3.				_		Prevalence	Index = B/A =	3.00	_
4.							agatation Indicator		
5								5.	
0:						Prevalence	Index is $\leq 3.0^{1}$		
8.				Total Cau		Morphologi	cal Adaptations <sup>1</sup> (Proceedings)	ovide suppo	orting
Woody Vine Stratu	m (P	lot size:	)		31	Problematic	c Hydrophytic Veget	ation <sup>1</sup> (Expl	, ain)
1 2.	(***		/			<sup>1</sup> Indicators of hy	ydric soil and wetlan	d hydrology	must
				=Total Cove	er	Hydrophytic Vegetation			
% Bare Ground in	Herb Stratum	30	% Cover of Bio	otic Crust	0	Present?	Yes X No	)	
Remarks:									

SOIL

Profile Desc	cription: (Describe	to the depth	needed to doc	ument t	he indica	tor or o	confirm the absence	e of indicators	.)	
Depth	Matrix		Redo	ox Featu	res					
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture		Remarks	
0-12	2.5y 3/1	100					Loamy/Clayey			
								_		
				·						
				·						
				·						
				·						
<sup>1</sup> Type: C=Co	oncentration, D=Depl	letion, RM=R	educed Matrix,	CS=Cove	ered or Co	bated S	and Grains. <sup>2</sup> Lo	cation: PL=Po	re Lining, M=N	Aatrix.
Hydric Soil	Indicators: (Applica	ble to all LR	Rs, unless oth	erwise n	oted.)		Indicat	ors for Proble	matic Hydric	Soils <sup>3</sup> :
Histosol	(A1)		Sandy Re	dox (S5)			1 c	m Muck (A9) <b>(L</b>	.RR C)	
Histic Ep	pipedon (A2)		Stripped M	Matrix (Se	6)		2 c	m Muck (A10)	(LRR B)	
Black Hi	stic (A3)		Loamy Mu	ucky Min	eral (F1)		Iror	n-Manganese M	lasses (F12) (	LRR D)
Hydroge	n Sulfide (A4)		Loamy GI	eyed Ma	trix (F2)		Re	duced Vertic (F	18)	
Stratified	Layers (A5) (LRR C	;)	Depleted	Matrix (F	3)		Re	d Parent Materi	al (F21)	
	ick (A9) <b>(LRR D)</b>		Redox Da	irk Surfac	ce (⊢6)		Ver	ry Shallow Dark	Surface (F22	2)
	Below Dark Surface	e (A11)	Depleted	Dark Sur	Tace (F7)		Otr	ier (Explain in F	Remarks)	
	ark Surface (A12)		Redox De	pression	IS (F8)					
Sandy IV	lucky Milleral (S1)	<sup>3</sup> Indiantoro	of budrophytics	<i>i</i> o aototio	n and wa	tland by	dralagy must be pro	aant unlaad die	turbed or prol	alamatia
Sandy G		muicators		vegetatio	in and we	lianu ny	alology must be pre	sent, unless dis		Jiematic.
Restrictive	Layer (if observed):									
Type:			_							
Depth (ir	nches):		_				Hydric Soil Prese	ent?	Yes	NO X
Remarks:										
Wetland Hy	drology Indicators:						_			
Primary India	cators (minimum of o	ne is require	d; check all that	apply)			<u>Second</u>	lary Indicators (	minimum of ty	wo required)
Surface	Vvater (A1)		Salt Crust	: (B11)				iter Marks (B1)	(Riverine)	)
High wa	ater Table (A2)			St (B12)	taa (D40)			diment Deposits	S (B2) (Riverii (Diverine)	ne)
Saturatio	on (A3) Iorko (P1) <b>(Nonrivori</b>	no)		Nertebra Sulfido (	tes (B13) Odor (C1)			it Deposits (B3)	(Riverine)	
	t Deposite (B2) (Nor	ne) vriverine)		Suillue ( Phizosoh		ivina P	oots (C3) Dr	anaye Fallenis	(DIU) r Table (C2)	
Drift Der	n Deposits (B2) <b>(Nonriver</b>	inverne)	Oxidized i	of Redu	ced Iron (		0013 (03)Dry	vish Burrows		
Surface	Soil Cracks (B6)	iiie)	Recent Irr	on Reduc	tion in Ti	Ued Soil	O	turation Visible	on Aerial Ima	nerv (C9)
	on Visible on Aerial II	magery (B7)	Thin Much	Surface	(C7)		13 (00)0	allow Aquitard (		gery (00)
Water-S	tained Leaves (B9)	nagery (Br)	Other (Ex	olain in F	Remarks)		EA	C-Neutral Test	(D5)	
Field Obser	vations:								()	
Surface Wat	er Present? Ye	S	No X	Depth (i	inches)					
Water Table	Present? Ye			Depth (i	inches):					
Saturation P	resent? Ye	.s		Depth (i	inches):		Wetland Hydrol	ogy Present?	Yes	No X
(includes car	oillary fringe)			(	_		,,	- 3)		
Describe Re	corded Data (stream	gauge, moni	toring well, aeria	al photos	, previous	s inspec	tions), if available:			
	<b>`</b>		- ·				•			
Remarks:										

# U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Arid West Region

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

See ERDC/EL TR-08-28; the p	proponent agency is	SCECW-C	O-R	(Authority: AR 335-15, paragra	aph 5-2a)
roiect/Site: Pedrick Road		Citv/Cour	ntv: Dixon. S	Solano County Sampling Date	e: 9/2/2022
plicant/Owner: Buzz Oats Construction				State: Sampling Poin	nt: DP-4
estigator(s): Bonnie Peterson		Section T	ownshin Ra	nge: Section 10 Township 11 North B	ange 6 East
	1.4		ownship, ita		
diorm (niliside, terrace, etc.): Valley floor	LC	cal relier (col	ncave, conve	ex, none): <u>Concave</u> S	siope (%):
pregion (LRR): LRR C Lat:			Long:	Datun	n: <u>NAD 83</u>
Map Unit Name: Capay silty clay loam, 0	percent slopes, MLRA	17		NWI classification: None	
climatic / hydrologic conditions on the site	e typical for this time of y	ear?	Yes <u>X</u>	No (If no, explain in Remarks.	.)
Vegetation, Soil, or Hydrolog	gysignificantly dis	turbed? A	re "Normal C	Circumstances" present? Yes X	No
Vegetation, Soil, or Hydrolog	gynaturally proble	matic? (If	needed, ex	plain any answers in Remarks.)	
JMMARY OF FINDINGS – Attach	site map showing	sampling	point loc	cations, transects, important fe	atures, et
udrophytic Vegetation Present? Ves	No X	ls the	Sampled A	702	
dric Soil Present? Yes		within	a Wetland	7 Yes No X	
etland Hydrology Present? Yes			u wetana		
int selected in a signature on ariel imagen					
in selected in a signature of aner imagery	y.				
GETATION - Use scientific nam	os of plants				
	Absolute	Dominant	Indicator		
e Stratum (Plot size:	) % Cover	Species?	Status	Dominance Test worksheet:	
				Number of Dominant Species That	
		,		Are OBL, FACW, or FAC:	0 (A
				Total Number of Dominant Species	
		,		Across All Strata:	(E
	[=	otal Cover		Percent of Dominant Species That	/-
apling/Shrub Stratum (Plot size:	)			Are OBL, FACW, or FAC:	<u>0.0%</u> (A
		·		Drevelence Index werkeheet	
				Total % Cover of:	lultiply by:
		·		FACW species $0 \times 1 = $	0
	=1	otal Cover		FAC species $5 \times 3 =$	15
erb Stratum (Plot size: 1 meter sq				FACU species 80 x 4 =	320
Amaranthus albus	40	Yes	FACU	UPL species 10 x 5 =	50
Portulaca oleracea	5	No	FAC	Column Totals: 95 (A)	385 (E
Malvela leprosa	5	No	FACU	Prevalence Index = B/A = 4	.05
Sorghum halepense	35	Yes	FACU		
Convolvulus arvensis	10	No	UPL	Hydrophytic Vegetation Indicators:	
				Dominance Test is >50%	
		·		Prevalence Index is ≤3.0 <sup>1</sup>	
				Morphological Adaptations (Provid	de supportino
	<u> </u>	otal Cover		data in Remarks or on a separa	te sneet)
				Problematic Hydrophytic Vegetatic	on' (Explain)
oody Vine Stratum (Plot size:	)				
oody Vine Stratum (Plot size:	)			<sup>1</sup> Indicators of hydric soil and wetland h	ydrology mu
loody Vine Stratum (Plot size:	) 	otal Cover		<sup>1</sup> Indicators of hydric soil and wetland h be present, unless disturbed or probler	ydrology mu matic.
oody Vine Stratum (Plot size:	) 	otal Cover		<sup>1</sup> Indicators of hydric soil and wetland h be present, unless disturbed or probler Hydrophytic	ydrology mu natic.
oody Vine Stratum (Plot size:	) =T 	otal Cover		<sup>1</sup> Indicators of hydric soil and wetland h be present, unless disturbed or probler Hydrophytic Vegetation Present? Yes No	ydrology mu natic. X

SOIL

Profile Des	cription: (Describe t	o the depth	needed to doo	cument t	he indica	tor or c	onfirm the absence o	of indicators.)
Depth	Matrix		Red	ox Featu		. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture	Remarks
0-16	10yr 3/2	100			·		Loamy/Clayey	
				_				
-				-				
				_	· <u> </u>			
					·			
					·			
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM=R	educed Matrix,	CS=Cove	ered or C	oated Sa	and Grains. <sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applical	ble to all LR	Rs, unless oth	erwise n	oted.)		Indicator	s for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Re	edox (S5)			1 cm	Muck (A9) <b>(LRR C)</b>
Histic E	pipedon (A2)		Stripped	Matrix (S	6)		2 cm	Muck (A10) (LRR B)
Black Hi	istic (A3)		Loamy M	ucky Min	eral (F1)		Iron-N	Manganese Masses (F12) (LRR D)
Hydroge	en Sulfide (A4)		Loamy G	leyed Ma	trix (F2)		Redu	ced Vertic (F18)
Stratified	d Layers (A5) (LRR C	)	Depleted	Matrix (F	3)			Parent Material (F21)
	JCK (A9) <b>(LRR D)</b>	( )	Redox Da	ark Surfa	ce (F6)		Very S	Shallow Dark Surface (F22)
Depleted	d Below Dark Surface	(A11)	Depleted	Dark Sur	face (F7)		Other	(Explain in Remarks)
	ark Surface (A12)		Redox De	epression	IS (F8)			
Sandy K	Nucky Mineral (S1)	<sup>3</sup> Indiactora	of budrophytic	voqetetio		tland by	drology must be press	at unloss disturbed or problematic
Sandy G	bleyed Matrix (54)	Indicators		vegetatio	on and we	eliano ny	diology must be prese	int, unless disturbed of problematic.
Restrictive	Layer (if observed):							
Type:			_					<b>.</b>
Depth (i	nches):		_				Hydric Soil Present	? <u>Yes No_X</u>
Remarks:								
Soils are reg	jularly disked.							
Wetland Hy	drology indicators:	na ia raquira	h abaak all that	(annly)			Cocordor	(Indiactors (minimum of two required)
Primary Indi	Vators (minimum of oi	ne is required	a; cneck all that	(D11)			<u>Secondar</u>	y indicators (minimum of two required)
	vvaler (AT)		Salt Clus	L (DII)				nent Deposite (P2) (Riverine)
Tiight Wa	alei Table ( $A_2$ )		Biotic Cit	vortobra	toc (B12)			Deposite (B2) (Riverine)
Saturation	larks (B1) <b>(Nonriveri</b> i	no)	Aqualic II Hydroger	Sulfide	Odor (C1)	<b>`</b>	Drain	age Patterns (B10)
Sedimer	nt Deposits (B2) (Non	riverine)		Rhizosoh	eres on l	ivina R	mots (C3) $mrv-S$	Season Water Table (C2)
Drift Der	nosits (B3) <b>(Nonriver</b> i	ine)	Presence	of Redu	ced Iron (	(C.4)	Cravfi	ish Burrows (C8)
Surface	Soil Cracks (B6)	110)	Recent In	on Reduc	ction in Ti	lled Soil	s (C6) X Satur	ation Visible on Aerial Imagery (C9)
Inundati	on Visible on Aerial In	nagery (B7)	Thin Muc	k Surface	e (C7)		Shalle	ow Aguitard (D3)
Water-S	tained Leaves (B9)		Other (Ex	plain in F	Remarks)		FAC-I	Neutral Test (D5)
Field Obser	vations:				,			
Surface Wat	ter Present? Yes	S	No X	Depth (i	inches):			
Water Table	Present? Yes	s	No X	Depth (i	inches):			
Saturation P	resent? Yes	s	No X	Depth (i	inches):		Wetland Hydrolog	y Present? Yes No X
(includes ca	pillary fringe)				· -			
Describe Re	corded Data (stream	gauge, moni	toring well, aeri	al photos	, previous	s inspec	tions), if available:	
Remarks:								
Irrigation wa	ter present on ariel im	nagery						

**Aquatic Resources Delineation** 



**Map Scale:** 1 inch = 100 feet (at 26"x14") Coordinate System NAD 1983 StatePlane California II FIPS 0402 Feet <u>Sources</u> Aerial : Maxar, 27 September 2022 Boundary : Morton and Pitalo

Made in accordance with the Updated Map and Drawing Standards for the South Pacific Division Regulatory Program, as amended on February 10, 2016 555 Capitol Mall Suite 900 Sacramento, CA 95814



Dixon, Solano County, California





Plant Species Observed within the Study Area

# Plant Species Observed within the Study Area 15 April and 2 September 2022

		Wetland Indicator
Species Name	Common Name	Status
Carduus pycnocephalus subsp. pycnocephalus	Italian thistle	UPL
Lactuca serriola	Prickly lettuce	FACU
Pseudognaphalium luteoalbum	Pearly everlasting	-
Senecio vulgaris	Common groundsel	FACU
Amsinckia intermedia	Common fiddleneck	-
Brassica nigra	Black mustard	UPL
Acmispon americanus var. americanus	Spanish lotus	UPL
Lupinus bicolor	Miniature lupine	UPL
Trifolium hirtum	Rose clover	UPL
Vicia villosa	Hairy vetch, winter vetch	-
Erodium botrys	Filaree	FACU
Geranium dissectum	Cut leaf geranium	UPL
Juncus bufonius var. bufonius	Toad rush	-
Avena barbata	Slender wild oat	UPL
Avena sativa	Cultivated oat	-
Bromus hordeaceus	Soft chess	FACU
Elymus caput-medusae	Medusa head	UPL
Festuca microstachys	Pacific fescue	-
Festuca perennis	Rye grass	FAC
Hordeum marinum subsp. gussoneanum	Mediterranean barley	FAC
Hordeum murinum subsp. glaucum	Smooth barley	-
Poa annua	Annual blue grass	FAC
Galium aparine	Goose grass	FACU
Amaranthus albus	Tumbleweed	FACU
Centaurea solstitialis	Yellow star-thistle	UPL
Centromadia fitchii	Fitch's spikeweed	-
Raphanus raphanistrum	Jointed charlock	-
Convolvulus arvensis	Bindweed	UPL
Juglans regia	English walnut	UPL
Malvella leprosa	Alkali-mallow	FACU
Epilobium brachycarpum	Panicled willow-herb	UPL
Cynodon dactylon	Bermuda grass	FACU
Sorghum halepense	Johnson grass	FACU
Triticum aestivum	Cultivated wheat	-
Polygonum argyrocoleon	Persian knotweed	-
Polygonum aviculare	Knotweed, knotgrass	-
Rumex crispus	Curly dock	FAC
Portulaca oleracea	Purslane	FAC
Carduus pycnocephalus subsp. pycnocephalus	Italian thistle	UPL

Species Name	Common Name	Wetland Indicator Status
Lactuca serriola	Prickly lettuce	FACU
Pseudognaphalium luteoalbum	Pearly everlasting	-
Senecio vulgaris	Common groundsel	FACU
Amsinckia intermedia	Common fiddleneck	-
Brassica nigra	Black mustard	UPL
Acmispon americanus var. americanus	Spanish lotus	UPL
Lupinus bicolor	Miniature lupine	UPL
Trifolium hirtum	Rose clover	UPL
Vicia villosa	Hairy vetch, winter vetch	-
Erodium botrys	Filaree	FACU
Geranium dissectum	Cut leaf geranium	UPL
Juncus bufonius var. bufonius	Toad rush	-

# Attachment D

**Representative Site Photographs** 



Photo DP-1 – Photo taken 2 September 2022.



Photo DP-2 – Photo taken 2 September 2022.



Photo DP-3 – Photo taken 2 September 2022.



Photo DP-4 – Photo taken 2 September 2022.



Pedrick Road frontage including shallow roadside ditch– Photo taken 2 September 2022.



Typical upland agricultural field– Photo taken 2 September 2022.

Request for Aquatic Resource Verification or Jurisdictional Determination Form

#### **REQUEST FOR AQUATIC RESOURCES DELINEATION VERIFICATION**

#### **OR JURISDICTIONAL DETERMINATION**

A separate jurisdictional determination (JD) is not necessary to process a permit. An Approved Jurisdictional Determination (AJD) is required to definitively determine the extent of waters of the U.S. and is generally used to disclaim jurisdiction over aquatic resources that are not waters of the U.S., in cases where the review area contains no aquatic resources, and in cases when the recipient wishes to challenge the water of the U.S. determination on appeal. Either an Aquatic Resources Delineation Verification or a Preliminary Jurisdictional Determination (PJD) may be used when the recipient wishes to assume that aquatic resources are waters of the U.S. for the purposes of permitting. In some circumstances an AJD may require more information, a greater level of effort, and more time to produce. If you are unsure which product to request, please speak with your project manager or call the Sacramento District's general information line at (916) 557-5250.

I am requesting the product indicated below from the U.S. Army Corps of Engineers, Sacramento District, for the review area located at:

Street Address:	City: County:		
State: Zip: Section: Township:	Range:		
Latitude (decimal degrees): Longitude (decimal degrees):			
The approximate size of the review area for the JD is acres. (Please attach location map)			
Chasse and product			
Lown the review area	Lam requesting an Aquatic Resources Delineation Verification		
I hold an easement or development rights over the review area	Lam requesting an Approved ID		
I lease the review area	Lam requesting a Preliminary ID		
I plan to purchase the review area	Lam requesting additional information to inform my decision		
I am an agent/consultant acting on behalf of the requestor	about which product to request		
Other:			
Reason for request: (check all that apply)			
I need information concerning aquatic resources within the review area for planning purposes.			
I intend to construct/develop a project or perform activities in this review area which would be designed to avoid all aquatic			
resources.			
I intend to construct/develop a project or perform activities in this review area which would be designed to avoid those aquatic			
resources determined to be waters of the U.S.			
I intend to construct/develop a project or perform activities in this review area which may require authorization from the Corps; this request is accompanied by my permit application			
Lintend to construct/develop a project or perform activities in a pavigable water of the U.S. which is included on the district's list of			
navigable waters under Section 10 of the Rivers and Harbors Act of 1899 and/or is subject to the ebb and flow of the tide.			
My lender, insurer, investors, local unit of government, etc. has indicated that an aquatic resources delineation verification is			
inadequate and is requiring a jurisdictional determination.			
I intend to contest jurisdiction over particular aquatic resources and request the Corps confirm that these aquatic resources are or			
are not waters of the U.S.			
I believe that the review area may be comprised entirely of dry land.			
Other:			
Attached Information:			
Maps depicting the general location and aquatic resources within the review area consistent with Map and Drawing Standards for the South Desifie Division Degulatory Dragram (Dublic Notice Entrugry 2016)			
the South Pachic Division Regulatory Program (Public Notice February 2010, http://www.spd.usace.army.mil/Missions/Regulatory/Public-Notices-and-References/Article/651327/updated-map-and-drawing-			
standards/)			
Aquatic Resources Delineation Report, if available, consistent with the Sacramento District's Minimum Standards for Acceptance			
(Public Notice January 2016, http://1.usa.gov/1V68IYa)			
By signing below, you are indicating that you have the authority, or are acting as the duly authorized agent of a person or entity with			
such authority, to and do hereby grant Corps personnel right of entry to legally access the review area. Your signature shall be an			
affirmation that you possess the requisite property rights for this request on the subject property.			
*Signature: Date:			
Name: Da	رد ۱۳۰		
Address:			
Telephone: Email:			
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.