Attachment 4.C

Wetland Delineation Report

Preliminary Results

Humboldt County Application #15280 APN 215-172-044-000 11/05/2019

> Prepared for: Skyhawk Farms 14836 Briceland Road, Whitethorn, CA 95589

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1.0 Introduction

This document provides the preliminary results of a wetland delineation conducted on APN 215-172-044-000 in Humboldt County, California. The purpose of this delineation was to delineate the boundaries of a suspected wetland so that regulatory setbacks can be accurately determined and observed by the project. The assessment occurred during the dry season and because wetland hydrology is the limiting factor across most sample points, the site shall be revisited in the spring time to confirm hydrologic observations.

Location

The study area is located near the intersection of Briceland Road and Green Acres Lane approximately 1.7 aerial miles southsoutheast of Thorn Junction, Whitethorn, California 95589. The study area occurs in the NW ¼ of Section 9, T5S, R2E, Humboldt County in the Briceland, CA 7.5' USGS Quad.

2.0 Definitions

Waters of the United States

Under Section 404 of the Clean Water Act the U.S. Army Corps of Engineers regulate "Waters of the United States" as defined in the Code of Federal Regulations as waters susceptible to use in commerce, including interstate waters and wetlands, all other waters (intrastate waterbodies, including wetlands), and their tributaries (33 CFR 328.3). Areas that are inundated at a sufficient depth and for a sufficient duration to exclude growth of hydrophytic vegetation are subject to Section 404 jurisdiction as "other waters" and are often characterized by an ordinary high water mark, and herein referred to as non-wetland waters. Non-wetland waters, for example, generally include lakes, rivers, and streams.

Section 404 of the CWA protects wetlands federally. In 1989 George H.W. Bush implemented the national "No-net Loss of Wetlands" policy which either avoids the filling of wetlands or mitigates the destruction and/or degradation of wetlands. U.S. Army Corps of Engineers defines wetlands as "areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."

3.0 Methods

Sample points within the study area were delineated using standard methods defined in the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region Version 2.0 (U.S. Army Corps of Engineers 2010) and the 1987 Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987).

Initial field work and delineation data collection was conducted on August 05, 2019. Additional vegetation data was collected on September 05, 2019. Five sample points were assessed for the three wetland parameters: hydrology, hydrophytic vegetation, and hydric soils. Sample Points #1 and #2 were conducted along the southern property boundary where the most prominent wetland indicators are present. Sample Points #3, #4, and #5 were conducted in a single hole spot check method within areas of potential wetland vegetation throughout the grassland habitat. Once wetland parameters are met, hydrophytic vegetative community is used to delineate the boundary between the wetland and upland habitat.

4.0 Results and Discussion

Topography

The property containing the study area is located atop a riparian terrace along the eastern bank of the Mattole River approximately 1,000' above sea level. Slopes at the sampling points are less then 2% and drain west towards the Mattole River.

Vegetation

The study area consists of a nonnative annual grassland habitat. The dominant grass species observed during sampling was sweet vernal grass (*anthoxanthum odoratum*) and silver hairgrass (*aira caryophylla*). Additional herbaceous species recorded include slender wheatgrass (*elymus trachycaulus*), common dandelion (*taraxacum officinale*), curly dock (*rumex crispus*), rushes (*juncus spp.*), and penny royal (*mentha pulegium*). The peripheral slopes consist of Montane Hardwood Conifer

habitat. This habitat type contains coast redwood (*sequoia sempervirens*), Douglas-fir (*pseudotsuga menziesii*), canyon live oak (*quercus chrysolepis*), California bay laurel (*umbellularia californica*), tanoak (*notholithocarpus densiflorus*), and pacific madrone (*arbutus menziesii*) all as co-dominants within the stand.

Soils

The project parcel contains multiple soil types, however sample points occurred within one soil type. (U.S. Department of Agriculture, Natural Resources Conservation, 2016):

• 153 – Conklin, 0 to 2 percent slopes. This soil type's parent material consists of alluvium derived from sedimentary rock. Typical soil profiles are dominated by loam textures with some sand and clay. The natural drainage class is well drained. Approximately 2% of the area has the potential to contain Grannycreek soils which have a positive hydric soil rating.

Hydrology

Surface hydrology at the site is sourced from direct and indirect rainfall. Precipitation falls directly on the study area and is also delivered from upslope watersheds. Ephemeral drainage swales deliver surface water from upslope watersheds onto the riparian terrace. Of the three drainages within property boundaries none of them have direct downstream connections with any other surface waters. Surface water drains from the site through infiltration into the ground. Run-off may occur but given vegetation densities and slopes at the site the majority of water drains through infiltration.

Wetlands

Paired Sample Points

Neither Sample Points (SP) 1 or 2 met all three parameters that make up the definition of a wetland.

Vegetative communities varied at both sample points. SP 1 contained a mixture of upland herbaceous species intermixed with wetland indicator species. Dominate species at this site consisted of sweet vernal grass (*anthoxanthum odoratum*) and soft rush (*juncus effusus*). Although one of these species is ranked as FACW, they sample point did not exceed 50% dominance for hydrophytic vegetation. The Prevalence Index Test was not utilized because additional indicators were not present to justify this method. SP 2 was also dominated by both wetland plants and upland species. Dominant plant species at SP 2 consists of prairie junegrass, soft rush, and pennyroyal (*mentha pulegium*). This site tested positive for hydrophytic vegetation per the Dominance Test.

Both sample points contained dark soil colors [SP1 = 7.6YR2.5/2-1, SP2 = 2.5Y3/2 and 10YR2/1] with some iron concentrations. SP 1 contained a high enough proportions (10%) of iron concentrations to meet hydric soil indicator F6:Redox Dark Surface. SP 2 contained less redoximorphic features. Approximately 1% of the soil matrix displayed colors related to iron concentrations (7.5YR6/8). This low percentage does not meet the 2% threshold for F6: Redox

Neither SP 1 or SP 2 met indicators for wetland hydrology. Sampling did occur in early September during the dry season. Neither site had surface water, water table, or saturation present. Both sample points met the secondary indicator D2:Geomorphic position, given the flat topography at the site. Vegetation at both sites failed the FAC Neutral Test which uses vegetation dominance to infer hydrology. No additional secondary indicators were observed at either SP 1 or 2. Given the season that sampling occurred in, these sample points will be revisited in the spring to test preliminary results.

Spot Check Sample Points

SP 3-5 were conducted in a spot check manner within potentially hydrophytic vegetation communities present along the flat topography of the property. None of these sample points tested positive for any wetland parameters and thus paired sampling was deemed unnecessary.

Hydrophytic vegetation was not met at SP 3-5. SP 3 was dominated by both sweet vernal grass and soft rush. Vegetation at this site was not predominantly hydrophytic. Vegetation at both SP 4 and 5 contained high proportions of silver hairgrass. SP 4 also contained pennyroyal as a codominant. None of these sites met dominance for hydrophytic vegetation.

No hydric soil indicators were observed at SP 3-5. All three sample points contained dark colored soils (10YR2/2, 10YR2/2, 7.5YR2.5/2) but lacked any redoximorphic features. Soils consisted of clay/loam textures often displaying varying levels of angular structure.

SP 3-5 did not display any primary indicators for wetland hydrology. At the time of the site visit, no surface water, water table, or soil saturation was observed. Secondary wetland hydrology indicator D2:Geomorphic position was met at all sample points. This is characteristic of the flat topography that sampling occurred in. No additional secondary indicators were observed at the sample points. Sampling was performed in early September, during the region's dry season. Seasonal wetland hydrology may be potentially present during wetter times of the growing season. Given the season that sampling occurred in, these sample points will be revisited in the spring to test preliminary results.

References

- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. Vicksburg, MS: U.S. Army Engineer Waterways Experimental Station.
- U.S. Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0), eds. 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. 2016. Western Mountains, Valleys, and Coast Region 2016 Regional Plant List. http://wetland_plants.usace.army.mil/
- U.S. Department of Agriculture, Natural Resources Conservation Service. 2016. Web Soil Survey http://websoilsurvey.sc.egov.usda

Appendix 1 – Wetland Delineation Map



AgACIS for Humboldt County AgACIS × Accumulated Precipitation - WHITETHORN 1.7 NNW, CA (CoCoRaHS) Click and drag to zoom to a shorter time interval, green/black diamonds represent subsequent/missing values 100 Precipitation (inches) 75 50 25 0 Jul 1 Jan 1 Mar 1 May I Sep 1 2019 accumulation Powered by ACIS Note regarding subsequent/missing values 4.1

Appendix 2 – Rainfall Data

Sourced: Applied Climate Information Center (ACIS) - NOAA Regional Climate Center. <u>http://www.rcc-acis.org/</u> Date Sourced: 09/19/2019

Appendix 3 – NRCS Web Soil Survey



Hydrologic Soil Group—Humboldt County, South Part, California (Skyhawk Farms Wetland Delineation)

MAPLE	GEND	1	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AOI) Soils Soil Rating Polygons		С С/D D	The soil surveys that comprise your AOI were mapped at 1:24,000. Warning: Soil Map may not be valid at this scale.
A A/D B B/D	Water Fea	Not rated or not available stures Streams and Canals ation Rails	Enargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.
C C/D D Not rated or not available	* *	Interstate Highways US Routes Major Roads	measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)
Soil Rating Lines	Backgrou	nd Aerial Photography	Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.
B/D C C			This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. Soil Survey Area: Humboldt County, South Part, California Survey Area Data: Version 8, Sep 17, 2019
D Not rated or not available Soil Rating Points			Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Dec 31, 2009—Nov 6, 2017
A A B B/D			The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.
-			

ם" 2

Web Soil Survey National Cooperative Soil Survey

Map unit symbol	Map unit name	Rating	Acres In AOI	Percent of AOI
153	Conklin, 0 to 2 percent slopes	В	13.1	15.6%
578	Sproulish-Telegraph- Redwohly complex, 30 to 50 percent slopes	С	23.3	27.7%
579	Sproulish-Gibsoncreek- Redwohly complex, 50 to 75 percent stopes	В	19.0	22.6%
645	Briceland-Tankridge complex, 15 to 50 percent slopes	С	28.6	34.1%
Totals for Area of Inter	rest		83.9	100.0%

Hydrologic Soil Group



Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition Component Percent Cutoff: None Specified Tie-break Rule: Higher

ISDA

Appendix 4 - National Wetland Inventory



Data Sourced: National Wetland Inventory Wetlands Mapper. https://www.fws.gov/wetlands/data/mapper.html

Appendix 5 – Wetland Delineation Data Sheets (Western Mountains, Valleys, and Coast Region)

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site:	I-lumboldt Sampling Date: 08/05/19
Applicant/Owner: Jesse Grav/Matt Humeche	C State: C/ Sampling Point:
Investigator(s): J. Henry Section, Town	ship. Range: NW/4 Sec. 9, TSS R2E
Landform (hillslope lerrace etc.):	
Subracian (I RR): A	5 Long: -173 45477 Datum & 1/1002
Soll Man Link Name: 153 - 5 - 1. 11 0 - 7 0/ - 1	
Son Map Unit Name, 123 Co.2 K-110 0-2 70 Slope	NWI classification:/Von e
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No (If no, explain in Remarks.)
Are Vegetation $\underline{\Lambda_{\bullet}}$, Soil $\underline{M_{\bullet}}$, or Hydrology $\underline{\Lambda_{\bullet}}$ significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation $\underline{//_{\dot{u}}}$, Soil $\underline{//_{\mathfrak{c}}}$, or Hydrology $\underline{//_{\mathfrak{c}^2}}$ naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling	point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	Semoled Gree
Hydric Soil Present? Yes <u>X</u> No Is the s	a Welland? Yes No X
Wetland Hydrology Present? Yes No X	
Remarks:	
VEGETATION – Use scientific names of plants.	
Absolute Dominant In	dicator Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: $r = 30'$) % Cover Species? 5	Status Number of Dominant Species
1	That Are OBL, FACW, or FAC: (A)
2	Total Number of Dominant
3	Species Across All Strata: (B)
4	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: $V = 15'$) = Total Cover	That Are OBL, FACW, or FAC: (A/B)
1	Prevalence Index worksheet:
2	Total % Cover of: Multiply by:
3	$\frac{\text{OBL species}}{\text{EACIM species}} = \frac{20}{35} \times 1 = \frac{20}{70}$
4	FACW species 3 $x_2 = 70$
5	= FACUs neries = FACUs neries =
Hoch Stratum (Plateira: 10 - 5')= Total Cover	UPL species $400 \times 5 = 2000$
1 Anthornathum advactum 40 D	A() Column Totals: 131 (A) \$ (B)
2 Juneus a Efurus 35 D	ACIN 2 CI
3 Aina converter 25 - F	ALU Hudsophylic Vegetation Indicators:
4. Menthe pulcoinon 20 -	OBL 1 - Rapid Test for Hydrophylic Vegetation
5. Vicia Spp. 10	EAL 2 - Dominance Test is >50%
6. Juncus marginatus 5 - F	ALV 3 - Prevalence Index is ≤3.0'
7. Rumex crispus	FAL. 4 - Morphological Adaptations' (Provide supporting
8	data in Remarks or on a separate sheet)
9	5 - Wetland Non-Vascular Plants'
10	Problematic Hydrophylic Vegetation' (Explain)
11,	'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Moorty Vine-Stratum (Plot size:)	
	1 kuda se kuéle
	Vegetation
= Total Cover	Present? Yes No X
% Bare Ground in Herb Stratum 5%	
Remarks: Site appeared upland dominant	+ with patches of FACWIAR
Species, Could have sampled further	- from potential wetland

US Army Corps of Engineers

Western Mountains. Valleys. and Coast – Version 2.0 . $^{\odot}$ \sim 15

SOIL								Sampling Point:
Profile Desc	ription: (Describe)	to the dep	th needed to docum	ent the	Indicator	or conf	irm the absenc	e of Indicators.)
Depth (inchore)	Matrix	0/,	Color (moist)	Feature:	Tune	1.002	Texture	Pemarks
$(D \sim 2^{\prime\prime})$						LUG	TEXICIL	Occur la 1
<u>U-L</u>		0.0	12 -110 61					- organie Layer
2-10"	1.5412 12	10	<u>_7.57K78</u>	10	6	<u>_//\</u>	SELAN	
101-16"	7.5YR -3/1	90	7.5YR 4/8	10	6	M	SCLN	7
		ellon, RM=	=Reduced Matrix. CS	=Covered	d or Coate	ed Sand	Grains, ² L	ocation: PL=Pore Lining, M=Matrix,
Hydric Soll I	ndicators: (Applica	able to all	LRRs, unless other	vise note	od.)	ound	Indica	tors for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Redox (S	5)			2	cm Muck (A10)
Histlc Ep	lpedon (A2)		Stripped Matrix (S6)			R	ed Parent Material (TF2)
Black His	stic (A3)		Loamy Mucky M	ineral (F	1) (excep	t MLRA	1)Ve	ery Shallow Dark Surface (TF12)
Hydroge Denleted	n Suilide (A4) I Below Dark Surface	A11)	Loamy Gleyed N Depleted Matrix	(F3))		_ 0	aner (Explain in Remarks)
Thick Da	rk Surface (A12)		K Redox Dark Sur	face (F6)			³ Indica	itors of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted Dark S	urface (P	7)		wet	land hydrology must be present,
Sandy G	leyed Matrix (S4)		Redox Depressi	ons (F8)			unl	ess disturbed or problematic.
Restrictive L	ayer (if present):							
Туре:	N/A							
Depth (inc	thes): <u>N/A</u>						Hydric So	bil Present? Yes <u>No</u> No
11 ast	Die a. A.						. 6	
916 Y	entry entry	Lg.bri	to influe	.760	6	-g e 1-	ation	
YDROLO(GY	LG-BN	to influe	.960		-g e.v-	ation	
YDROLO(Wetland Hyc	GY drology Indicators:		to influe	nce		-g e.v-	ation	
YDROLO(Wetland Hyc Primary Indic	GY drology Indicators: ators (minimum of or Water (A1)		to intil use)	С d	g e.J-		condary (ndicators (2 or more required)
YDROLO Wetland Hyc Primary Indic Surface V High Wa	GY drology Indicators: alors (minimum of or Water (A1) ter Table (A2)	ne regulred	to influe <u>d: check all that apply</u> Water-Stair MI RA 1) ned Leav	es (B9) (e	eg e J-		condary (ndicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 44 and 48)
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US Army Corps of Engineers

Westem Mountains, Valleys, and Coast - Version 2.0

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Project/Site: Skyhawk Farm City/Co Applicant/Owner: Jesse Gray / Matt Humeen Investigator(s): J. Henry Section Landform (hillslope, terrace, etc.): Terrace Local Subregion (LRR): A Lat: $\frac{10,02}{2}$ Soil Map Unit Name: 153 - Conk fin $0 - 2^{-3}/2$ Are climatic / hydrologic conditions on the site typical for this time of year? Year Are Vegetation Soil or Hydrology significantly disturb	bunty: <u>Humboldt</u> Sampling Date: <u>08/05/41</u> State: <u>CA</u> Sampling Point: <u>2</u> n, Township, Range: <u>NW44 Sec. 9</u> , <u>T555</u> , <u>R215</u> <u>LIUM</u> relief (concave, convex, none): <u>None</u> Slope (%): <u>0-2%</u> <u>3/320</u> Long: <u>-123.25479</u> Datum: <u>NAD83</u> <u>5/006255</u> NWI classification: <u>Nonc</u> es <u>X</u> No (If no, explain in Remarks.) rel? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problema	kic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes X. No Remarks: No	Is the Sampled Area within a Wetland? Yes No <u>X</u>
VECENTIATION - Ose solution numes of plants. Absolute Dom Mosolute Dom 1.	Inant Indicator Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant 1 (B) Percent of Dominant Species 1 (B) Prevalence Index worksheet:
1	Hydrophylic Vegetation Present? Yes No
% Bare Ground in Herb Stratum = Tota	Il Cover

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

US Army Corps of Engineers

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	New (Decelhe)	to the death		ant the In	diantes	as as alle	a the sheet of	a of Indiantees 1
Profile Descrip	ption: (Describe) Matrix	to the deptr	needed to docum	ent the In	dicator	or confir	m the absend	e of Indicators.)
(inches)	Color (moist)	%	Color (maist)	<u>%</u>	Type	L.oc ²	Texture	Remarks
0-4/1	2.5Y 3/2	100%					SLLM	7.
4-104	2543/2	900/	JEVDU.	101			5/110	1/2- 1111.
-1-10	2.3/12	1910 -	7.3/12/8	1/0		<u></u>	JL-LIV	very little fron a
10 - 16"	<u>_10YK %</u> _	99%	<u>7.57K%</u>	1/0	6	\mathcal{M}	SCLM	lery little iron u
								a /
								×0.
Type: C=Con	centration, D=Depl	ellon, RM=F	Reduced Matrix, CS	=Covered	or Coale	d Sand C	Grains. ² L	ocation: PL=Pore Lining, M=Matrix.
Hydric Soil Inc	licators: (Applica	able to all L	RRs, unless other	wise note:	d.)		Indica	tors for Problematic Hydric Soils":
Histosal (A	(1)	-	Sandy Redox (S States of Mathematical States of Mathematical Stat	5)			_ 2	cm Muck (A10)
Histic Epip	edon (A2)	-	_ Stripped Matrix (S6)	(, <u> </u>	ed Parent Material (TF2)
Black Hist	C (A3) Sulfide (A4)	-	Loamy Gleved M	lineral (F1) Aatrix (F2)	(except	WILKA 1	/	ther (Evolain In Remarks)
Depleted B	elow Dark Surface	- (A11)	Depleted Matrix	(F3)			_ 0	
Thick Dark	Surface (A12)		Redox Dark Sur	face (F6)			³ indica	lors of hydrophytic vegetation and
Sandy Mud	cky Mineral (S1)		Depleted Dark S	urface (F7	7)		wet	land hydrology must be present,
Sandy Gle	yed Matrix (S4)	_	Redox Depressi	ons (F8)			unl	ess disturbed or problematic.
Restrictive La	yer (if present):							
Type:	NIA							
								,
Depth (inche	es): <u>//////</u>						Hydric So	oil Present? Yes No 📉
Depth (inche Remarks: D	es): _//_//4_			5265	-th	c d	Hydric So	tarter (losa to
Depth (inche Remarks: Pc-1	es): N//A	CANC	entrations	~~e~5	th	c d	Hydric So	factor, Close to
Depth (inche Remarks: محدد هرستي (=6	Pricent of indicates	conc 1 Fuzi	entrations zy mangin	weis n of	, th	e d	Hydric So eciling	tactor, Close to
Depth (inche Remarks: Per aug F6	rcent of indicator	cance 1 Fuzi	entrations zy mangin	vers n of	th th	e d nunda	Hydric So cailing tion	factor, Close to
Depth (inche Remarks: Per مرید (-6	rcent of indicates	conc n Fuzi	centrations zy mangin	vas n of		c d nunda	Hydric So caiding tion	bill Present? Yes <u>No K</u> factor: Close to
Depth (inche Remarks: محمد حرسی ۲۰۵	Y	cance nº Fuzi	 centrations zy mangin	vas n of	th i	.c cl nunda	Hydric So caialing tion	bill Present? Yes <u>No K</u> factor: Close to
Depth (inche Remarks: محمد مرسع ۲۰۰۶ IYDROLOG	Y	conc ri Fuzi	- centrations zy mangin	n of		e d nunda	Hydric So ccieling tion	bill Present? Yes <u>No K</u> factor: Close to
Depth (inche Remarks: کود مریعی ۲۰۵ IYDROLOG Wetland Hydro Primary Indicat	Y plogy Indicators: ors. (minimum of or	Cance Ar Fuze	check all that apply	~~~s	, +h	c cl nuncla	Hydric So ccialing tion Sec	oil Present? Yes <u>No K</u> factor: Close to condary Indicators (2 or more regulard)
Depth (inche Remarks: Pc. 22 F6 IYDROLOG ¹ Wetland Hydro Primary Indicat Surface Wi	Y procent of indicator Y plogy Indicators: ors (minimum of or ater (A1)	Cance ^: Fuzi ne regulred:	check all that apply water-Stair	vas a of	s (B9) (e	.c- cl nunda xcept	Hydric So cai al ing tion <u>Sec</u>	bill Present? Yes <u>No K</u> factor: Close to condary Indicators (2 or more regulred) Water-Stained Leaves (B9) (MLRA 1,
Depth (inche Remarks: Pc. 222 F6 IYDROLOG Wetland Hydro Primary Indicat Surface Wa High Water	Y procent of indicators: ors (minimum of or ater (A1) r Table (A2)	Can c ^: Fuz: ne regulred:	check all that apply Water-Stair MLRA 1		s (B9) (e nd 4B)	xcept	Hydric So cai al ing tion <u>Sec</u>	bil Present? Yes <u>No K</u> factor: Close fo condary Indicators (2 or more regulred) Water-Slained Leaves (B9) (MLRA 1, 4A, and 4B)
Depth (inche Remarks: Pc. 222 F6 IYDROLOG Wetland Hydro Primary Indicat Surface Wa High Water Saturation	Y Canton Vicent of indicator Y Ology Indicators: ors. (minimum of or ater (A1) r Table (A2) (A3)	Cance ^r Fuz; ne regulred:	check all that apply Water-Stair MLRA 1 Salt Crust () 1 04 1 1 1 1 1 1 1 1 1 1 1 1 1	s (B9) (e nd 4B)	xcept	Hydric So cai al ing tion <u>Sec</u>	bil Present? Yes <u>No K</u> factor: Close to condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10)
Depth (inche Remarks: Pc. 222 F6 IYDROLOG Wetland Hydro Primary Indicat Surface Wa High Water Saturation Water Mart	Y cent of indicator Y plogy Indicators: ors. (minimum of or ater (A1) r Table (A2) (A3) ks (B1)	Cance ^r Fuz; ne regulred:	check all that apply Water-Stair MLRA 1 Salt Crust (Aquatic Inv) ed Leave 1, 2, 4A, ar B11) ertebrates	s (B9) (e nd 4B) (B13)	xcept	Hydric So cei el ing tion <u>Sec</u>	il Present? Yes <u>No</u> <u>No</u> <u>factors</u> <u>Close</u> fo <u>condary Indicators (2 or more required)</u> Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
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Depth (inche Remarks: Pc. 222 F6 Wetland Hydro Primary Indicat Surface Wa High Water Saturation Water Mart Sediment D Drift Depos	Y Prest of indicators: ors.(minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3)	Carro ^ι Γιιε; ne regulred;	check all that apply 	ریک درج ۲۰ ۵۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰ ۲۰	s (B9) (e nd 4B) (B13) or (C1) es along	.e- cl nunda xcept	Hydric So cei el ing Li on Sec 	toil Present? Yes No factor: Close fo condary Indicators (2 or more regulred) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2)
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Project/Site:
InvestIgator(s): J. Henry Section, Township, Range: NW14 Sec. 9, T55, R2E
Landform (hillslope, terrace, etc.):
Subregion (LRR): Lat: Lat: Lat: Long:12.3.95667 Datum:
Soil Map Unit Name: 153 - Contellin 0-2% slop= 5 NWI classification: 1/one
Are climatic / hydrologic conditions on the site typical for this time of year? Yes \underline{X} No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 📈 No
Are Vegetation, Soll, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X Is the Sampled Area
Hydrology Present? Yes No _X within a Wetland? Yes No _X
Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

VEGETATION – Use scientific names of plants.

24/	Absolute	Dominan	t Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: $r = 5D$)	% Cover	Specles?	Status	Number of Dominant Species
2				
3		- Al-4-		Total Number of Dominant
0.	-	<		Species Across All Strata. (B)
		= Total C	over	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
Saoiino/Shrub Stratum (Plot size:) 215				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species $5 \times 1 = 5$
3				FACW species $75 \times 2 = 150$
4			_	FAC species O x 3 = O
5	÷			FACU species UD x4 = 160
Hash Stratum (Dia) size: $V^- = 5^{-1}$		= Total C	over	UPL species $\frac{1}{2}$ $\sqrt{5} = \frac{1}{2}$
1 shundar (Flot size	70	D	GAIN	Column Totals: 20 (A) 375 (B)
2 A allow atlant	40	17	FALLI	
2. An II Louis and			ADI	Prevalence Index = B/A =
3. Vientha puleature			UD	Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9				5 - Wetland Non-Vascular Plants
10			•	Problematic Hydrophytic Vegetation ¹ (Explain)
11				¹ Indicators of hydric soil and wetland hydrology must
	120	- Total Co		be present, unless disturbed or problematic.
Woody Vine Stratum - (Plot size:)			1461	
1.				Hydrophytic
2.				Vegetation
		= Total Co	ver	Present? Yes No
% Bare Ground in Herb Stratum 10 %				
Remarks:				

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Profile Description: (Description: (Description: <th(description:< th=""> (Description: <th(descript< th=""><th></th></th(descript<></th(description:<>	
Depth <u>Matrix Redox Features</u> (inches) Color (moist) % Color (moist) % Type ¹ Loc ² Texture Remarks	
(inches) Color (moist) % Color (moist) % Type' Loc ² Texture Remarks	
0-3" Organic layer	
3-6" 10YR2/2 100 SUM	
6-16" 10YR 3/2 100 Self Change in Struc	ture
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³	
Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10)	
Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Very Shellow Dark Surface (TE12)	
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12)	
Depleted Below Dark Surface (A11) Depleted Matrix (F3)	
Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetalion and	
Sandy Mucky Mineral (S1)Depleted Dark Surface (F7) wetland hydrology must be present,	
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic.	
Restrictive Layer (if present):	
Type:////	/
Depth (inches): No NON NO	~
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one regulred; check all that apply) Secondary Indicators (2 or more regulred)	<u>d)</u>
Surface Water (A1) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA	1, 2,
High Water Table (A2) MLRA 1, 2, 4A, and 4B) 4A, and 4B)	
Saturation (A3)Salt Crust (B11)Drainage Patterns (B10)	
Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2)	
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagen	(C9)
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2)	
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3)	
Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5)	
Surface Soil Cracks (B6) Stunied of Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A)	
Sparsely Venetated Concave Surface (B8)	
Eield Observations:	_
Surface Mater Present 2 Vos No X Denth (Inches):	
Nate Valer Flosent? Yes No. 2 Depth (inches).	
Valet Table Present? Tes Vo Depth (inches).	X
	<u> </u>
I (Includes capillary limde)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Includes capitally intige/ Describe Recorded Data (stream gauge, monitoring well, aertal photos, previous inspections), if available: Remarks: DAta (stream gauge, monitoring well, aertal photos, previous inspections), if available:	
Remarks: FAC Newtral	
Remarks: FAC Neutral 1:1	
Remarks: FAC Neutral 1:1 Fac 1 Fac 1	

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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Skyhaulk Farms City/County:	Humbeld F Sampling Date:
Applicant/Owner: Clesse Gray/Matt Humeckee	State: Sampling PoInt:
Investigator(s):	nip, Range: NUJ4 Sec 9 ISS RZE HB&M
Landform (hillslope, terrace, etc.):Local relief (con	Icave, convex, none): <u>1/002</u> Slope (%): <u>0-2</u>
Subreylon (LRR): LRR ! A Lat:/0. U 3 894/	Long:123, <u>{5635</u> Datum:
Soil Map Unit Name: 153 - Contatin (1-2% stopes	NWI classification: <u>Mone</u>
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes 🔀 No
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes No_X	
Remarks:				

VEGETATION – Use scientific names of plants.

	Absolute	Dominanl	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1	-			That Are OBL, FACW, or FAC: (A)
2				Total Number of Devilaget
3				Species Agrees All Strate:
	_			Species Across Air Strata. (B)
4				Percent of Dominant Species
Desting 10by b Chategy (Diel sing)		= Total Co	ver	That Are OBL, FACW, or FAC: 20 (A/B)
Saaino/Sho Distratum (Piot size:)				Prevalence Index worksheet:
1.	\sim			Total % Cover of: Multiply by:
2				
3				
4				FACVV species x 2 =
5				FAC species x 3 =
··		Talalos		FACU species x 4 =
Herb Stratum (Plot size:			ver	UPL species x 5 =
	70	D	DRI	Column Totals: (A) (B)
1 PO-JE-SIGM	10			
2. Aira cary pay 11a	50		1-ACU	Prevalence Index = B/A =
3. Anthorauthum odoraturn	15	~	FALL	Hydrophytic Vegetation Indicators:
4. Taraxacum officinale		-	FACU	M _D 1 - Rapid Test for Hydrophytic Vegetation
5. Rumex criscus			FAC.	No. 2 - Dominance Test is >50%
6 June 15 SELICIES	1	-	FAIL	2 Brownianso Index is <2 0!
7		-	- Literation	5 - Flevalence index is \$5.0
o				4 - Morphological Adaptations" (Provide supporting
8				5 - Wetland Non-Vascular Plants ¹
9				Backlemetic Ludsonbutic Vesstetical (Surple)
10	·			
11				'Indicators of hydric soil and wetland hydrology must
	1412	= Total Cov	ver	be present, unless disturbed of problematic.
Woody Vine Stratuce (Plot size:)				
1.	_			Hydrophytic
2.				Vegetation
		= Total Con	105	Present? Yes No X
% Bare Ground in Herb Stratum 1.5%		- 10(01000		
Remarks: r · / / / / / /	D	i	tert	e total N and leave test of
railed both Kapial and	Dom	nance	4 6 3 4.	J, the prevalence rest dille
to lack or other indicators	,			

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SOIL						Sar	mpling Point:
Profile Description: (Descri	be to the depth	needed to docum	ent the indicate	or or cor	nfirm the abs	sence of indicators	s.)
Depth Matrix	x	Redox	Features				
(inches) Color (moist)		Color (moist)	%Type	<u>Loc</u>	Iext	ure	<u>Remarks</u>
0-2" Organ	16 laye	^					
2-18" 10YR 2/1					LL/I	IM Fin	e angular
				_			5
					-		
					_		
¹ Type: C=Concentration, D=E	Depletion, RM=F	Reduced Matrix, CS	=Covered or Coa	ated Sar	nd Grains.	² Location: PL=P	ore Lining, M=Matrix.
Hydric Soll Indicators: (App	plicable to all L	RRs, unless other	wise noted.)		In	dicators for Proble	ematic Hydric Soils":
Histosol (A1)	-	_ Sandy Redox (S	5)		_	2 cm Muck (A10)	
Histic Epipedon (A2)	-	Stripped Matrix (Loamy Mucky M	,50) ineral (F1) (exc	ent MI R	A 1)	Very Shallow Da	slidi (TF2) ark Surface (TF12)
Hydrogen Sulfide (A4)	-	Loamy Gleved N	Aatrix (F2)	cpt mert		Other (Explain in	Remarks)
Depleted Below Dark Sur	face (A11)	Depleted Matrix	(F3)				
Thick Dark Surface (A12)) _	_ Redox Dark Sur	face (F6)		³ lr	ndicators of hydroph	hytic vegetation and
Sandy Mucky Mineral (S1	l) _	_ Depleted Dark S	urface (F7)			wetland hydrology	/ must be present,
Sandy Gleyed Matrix (S4))	_ Redox Depressi	ons (F8)	_		unless disturbed o	or problematic.
Restrictive Layer (it present	y:						
	14				Liver		Vac No X
	<u> </u>				Hyur	IC SOIL Present?	TesNO
Remarks. Uniform	dark c	olors the	oughout.	No	redo.	x featu	u-c-s.
			0				
Wetland Hydrology Indicato	1121						
Primary Indicators (minimum	of one required:	check all that apply	•			Secondary Indicat	tors (2 or more required)
Surface Water (A1)	or one required.	Water-Stair	ned Leaves (B9)	lexcen	•	Water-Stainer	d Leaves (B9) /Mi RA 1 2
High Water Table (A2)		MLRA 1	2. 4A. and 4B)	•	4A. and 4I	B)
Saturation (A3)		Salt Crust ((B11)	,		Drainage Patt	erns (B10)
Water Marks (B1) Aquatic Invertebrates (B13)				Dry-Season V	Nater Table (C2)		
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1)					Saturation Vis	sible on Aerial Imagery (C9)	
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) 🔀 Geomorphic Position (D2)						Position (D2)	
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3)						ard (D3)	
Iron Deposits (B5)		Recent Iron	n Reduction In Ti	illed Soll	s (C6)	FAC-Neutral	Test (D5)
Surface Soil Cracks (B6)		Stunted or	Stressed Plants	(D1) (Lf	RR A)	Raised Ant M	ounds (D6) (LRR A)
Inundalion Visible on Aer	ial Imagery (B7)	Other (Exp	lain in Remarks))		Frost-Heave I	Hummocks (D7)
Sparsely Vegetated Conc	cave Surface (Ba	3)					
Field Observations:		V					
Surface Water Present?	Yes N	o <u> </u>	hes):				
Water Table Present?	Yes N	o $\underline{\times}$ Depth (inc	hes):				/
Saturation Present? Yes No _X_ Depth (inches): Wetland Hydrology Present? Yes No _2						Yes No <u>×.</u>	
Describe Recorded Data (stre	am gauge, mon	itoring well, aerial p	hotos, previous	inspection	ons), if availa	ble:	
Remarks: FAL Nord	tal						
1,10,1000	-11-01						
Failed							

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Project/Site: Skyhavk Farm City/County: 1-lamboldt Sampling Date: 9/05/19
Applicant/Owner: Jesse Grav / Matt Humerke State: CA Sampling Point: 5
Investigator(s):
Landform (hillslope, terrace, etc.): <u>terrace</u> Local relief (concave, convex, none): <u>Mone</u> Slope (%): <u>J-2%</u>
Subregion (LRR):
Soil Map Unit Name: 153 - Contelin 0-2% slopes NWI classification: None
Are climatic / hydrotoglc conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 🗶 No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophylic Vegetation Present? Yes No _X
Hydric Soil Present? Yes No X Is the Sampled Area
Wetland Hydrology Present? Yes No X Within a Wetland? Yes No _/

WETLAND DETERMINATION DATA FORM -- Western Mountains, Valleys, and Coast Region

VEGETATION – Use scientific names of plants.

Remarks:

1	Absolute Dominant Indicator	Dominance Test worksheet:
Iree Stratum (Plot size: 1= 30')	% Cover Species? Status	Number of Dominant Species
1		That Are OBL, FACW, or FAC:
2		
		Total Number of Dominant
3		Species Across All Strata: (B)
4		Deres at of Derginant Section
	= Total Cover	That Are OBL EACW or EAC: 0% (AIR)
Sapling/Shrub Stratum (Plot size: $r = 1.5$)		
1.		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
		OBL species X 1 =O
3	<u> </u>	FACW species $15 \times 2 = 30$
4		EAC species O x3 = O
5		87 2 2M C 4
	= Total Cover	FACU species X4 =X5 F
Herb Stratum (Plot size:)		UPL species × 5 =
1. Aira caryophylla	SO D FACU	Column Totals: <u>102</u> (A) <u>378</u> (B)
2. Juncus effusus	15 - FACH	Prevalence index = $B/A = 3.7$
3. Anthoxanthun ederatura	<u> </u>	Hydrophytic Vegetation Indicators:
A Taraxacum officinale	2 - FACA	1 - Ranid Test for Hydrophylic Vegetation
5		
·		
D		3 - Prevalence Index is ≤3.0'
7 8		4 - Morphological Adaptations ¹ (Provide supporting data In Remarks or on a separate sheet)
g		5 - Wetland Non-Vascular Plants
10.		Problematic Hydrophytic Vegetation' (Explain)
11		¹ Indicators of hydric soil and welland hydrology must
· · ·		be present, unless disturbed or problematic.
Wardy Vine Strategy (Plateize:	<u>102</u> = Total Cover	
		Hydrophytic
2.		Vegetation
	= Total Cover	
% Bare Ground in Herb Stratum		
Remarks: To I I I I Poold	1 Downing P L	ste Na aceralance + +
difed both imply and	distant	proverance rest
and to lack out other in	naiced or Di	

Western Mountains, Valleys, and Coast - Version 2.0

Profile Description: (Describe to the depth needed to document the Indicator or confirm the absence of indicators.) Depth Matrix O = 1 ⁻¹⁷ Or green 1 O = 5 ⁻¹⁷ Or green 1 1 = 5 ⁻¹⁷ Or green 1 2 - 5 ⁻¹⁷ Or green 1 1 = 5 ⁻¹⁷ Or green 1 2 - 5 ⁻¹⁷ Or green 1 1 ⁻¹⁸	SOIL		Sampling Point:
Depth (Inches) Matrix Redox Features 0 - 1'' Or clor (molsi) % Type' Loc' Remarks 0 - 1'' Or clor (molsi) % Type' Loc' Remarks 0 - 1'' Or clor (molsi) % Type' Loc' Remarks 0 - 1'' Or clor (molsi) % Type: CLAA CLAA 5 - 16'' 7.5 // k² - ½ 100 CLAA CLAA CLAA	Profile Description: (Describe to the dep	oth needed to document the indicator or co	nfirm the absence of indicators.)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Depth <u>Matrix</u> (inches) Color (moist) %	Redox Features	c ² TextureRemarks
S ~ 16" 7. S VR ² · ² / ₄ 100 "Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix, Hydrlc Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Hydrlc Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydrlc Soils': Histosol(A1) Sandy Redox (S5) 2 cm Muck (A10) Histosol(A2) Stripped Matrix (53) Red Parent Material (TF2) Black Histic (A3) Loamy Bucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) "Indicators of hydrophytic vegetation and wetland hydrology must be present, sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): ML/A Muster Stained Leaves (B9) (except	1-5" 7.54R2.5/2 100	ayer	- CLM
Image:	<u>5-16" 7.5422.52 100</u>		
Image:			P
Image:			
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coaled Sand Grains. ² Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solis ¹ : — Histosol(A1)			
Hydric Soil Indicators: (Applicable to all LRRs, unloss otherwise noted.) Indicators for Problematic Hydric Soils*: Hydric Soil Indicators: (Applicable to all LRRs, unloss otherwise noted.) Indicators for Problematic Hydric Soils*: Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Gleyed Matrix (F2) Other (Explain In Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, sandy Gleyed Matrix (S4) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type: M//4 User Soil Present? Yes No Yers: M//4 Depth (Inches): M//4 Wetland Hydrology Indicators: Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (except Surface Water (A1) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (mLRA 1, 2, 4A, and 4B) 4A, and 4B) Surface Water Marks (B1) Salt Crust (B11) Drainage Patterns (B10) Saltartion (A3) Salt Crust (B11) Drainage Patterns (B10) Saltartion Visible on Aerial Imagry (C12) Saltartion Visible on Aerial Imagry (C12) Saltartion Visible on Aerial Imagry	¹ Type: C=Concentration, D=Deptetion, RM	=Reduced Matrix CS=Covered or Coaled Sar	nd Grains. ² Location: PL=Pore Lining, M=Matrix
	Hydric Soil Indicators: (Applicable to all	LRRs, unloss otherwise noted.)	Indicators for Problematic Hydric Solis ³ :
Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfde (A4) Loamy Gleyed Matrix (F2) Other (Explain In Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) 'indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) 'unless disturbed or problematic. Restrictive Layer (If present): Type: ////4 Type: ////4 Hydric Soll Present? Yes No Remarks: Peintand Hydrology Indicators: No Xetrace (H1) Primary Indicators. (minimum of one required; check all that apoly) Secondary Indicators. (2 or more required) Striace Water (A1) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C2) Saturation Visible on Aerial Imagery (C2) Sediment Deposits (B2) Origit and Bhirdeneon alone Living Bastura (C2) Saturation Visible on Aerial Imagery (C2) <td> Histosol (A1)</td> <td>Sandy Redox (S5)</td> <td>2 cm Muck (A10)</td>	Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain In Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type: ////4 Hydric Soll Present? Yes No Remarks: Metland Hydrology Indicators: Present? Yes No Xear-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aqualic Invertebrates (B13) Dry-Season Water Table (C2) Surface (C1) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Nisible on Aerial Imagery (D2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Nisible on Aerial Imagery (D2)	Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
	Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLR	RA 1) Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ¹ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if present): Type: ////4 Depth (inches): ////4 Hydric Soll Present? Yes No Remarks: Hydrology Indicators: No X Primary Indicators (minimum of one required; check all that apoly) Secondary Indicators (2 or more required); Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) 4A, and 4B) 4A, and 4B) Saturation (A3) Satit Crust (B11) Drainage Patterns (B10) Dry-Season Water Table (C2) Water Marks (B1) Aqualic Invertebrates (B13) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (10) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (10)	Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain In Remarks)
	Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	b
	Thick Dark Surface (A12)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Restrictive Layer (if present): Type:	Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Type:	Restrictive Layer (if present):	λ	
Depth (inches):	Туре: //_/_4		
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apoly)	Depth (inches):		Hydric Soll Present? Yes No
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apoly) Secondary Indicators (2 or more required)	Remarks:		
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apoly) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aqualic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) Oviditued Bhiasenbargen classic function (C2)			
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apoly) Secondary Indicators (2 or more required)			
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apoly)			
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apoly)	HYDROLOGY		
Primary Indicators (minimum of one required; check all that apoly) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) High Water Table (A2) MLRA 1, 2, 4A, and 4B) 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C2)	Wetland Hydrology Indicators:		
Surface Water (A1) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) High Water Table (A2) MLRA 1, 2, 4A, and 4B) 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C2) Drift Deposits (P3) Oviditand Bhipapaharan along Living Boats (C3) Conservation Position (D3)	Primary Indicators (minimum of one require	d; check all that apoly)	Secondary Indicators (2 or more regulred)
High Water Table (A2) MLRA 1, 2, 4A, and 4B) 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C2) Drif Deposits (F2) Ovid Lange Abitract Action Visible on Aerial Imagery (C2)	Surface Water (A1)	Water-Stained Leaves (B9) (except	t Water-Stained Leaves (B9) (MLRA 1, 2,
Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C2) Drift Deposits (P3) Ovidiand Rbiaensharen alema Living Reats (C3) Communic Capital	High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	4A, and 4B)
Water Marks (B1) Aqualle Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C2) Drif Deposits (P3) Ovidiand Rbitaenbaren alere Living Reals (C3) Commerchin Registrice (P3)	Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Drift Departs (P3) Ovidized Phizespheres along Living Poets (C3) X Geometric Desilies (D3)	Sediment Deposits (B2)	Saturation Visible on Aerial Imagery (C9)	
	Drift Deposits (B3)	g Roots (C3) 🗡 Geomorphic Position (D2)	
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3)	Algal Mat or Crust (B4)	Shallow Aquitard (D3)	
ron Deposits (B5) Recent Iron Reduction in Tilled Solls (C6) FAC-Neutral Test (D5)	Iron Deposits (B5)	ls (C6) FAC-Neutral Test (D5)	
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A)	Surface Soil Cracks (B6)	RR A) Raised Ant Mounds (D6) (LRR A)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7)	Inundation Visible on Aerial Imagery (B	7) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8)	Sparsely Vegetated Concave Surface (B8)	
Field Observations:	Field Observations:		
Surface Water Present? Yes No X Depth (inches):	Surface Water Present? Yes	No <u>×</u> Depth (inches):	
Water Table Present? Yes No K Depth (inches):	Water Table Present? Yes	No K Depth (inches):	
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X (includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Present? Yes (Includes capillary fringe)	No _K_ Depth (inches):	Wetland Hydrology Present? Yes No X

Remarks: FAC Neutral 0:1 Fail

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