

Aquatic Resources Impact Assessment

APN: 214-142-012

Prepared by:

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Prepared for:

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1. INTRODUCTION

This aquatic resource impact assessment was conducted on APN: 214-142-012 to address the requirement in the February 5, 2021, Cleanup and Abatement Order (R1-2021-0003) (COA) issued by the North Coast Regional Water Control Board (Water Board) to provide:

"An assessment of any direct and indirect impact to any waters of the state on the Property, including, but not limited to, rivers, streams, seeps, springs, bogs, and wetlands, caused by unauthorized activities, including all areas that have been developed or distributed..."

The subsequent October 4, 2021, Water Board Notice of Violation (NOV) recommends:

"...complete a comprehensive impact assessment to determine whether wetlands or other aquatic resources were impacted at any current or past cultivation sites on the Property."

Impacts to aquatic resources at two of the cultivation sites (B and C) were addressed in the 2019 Aquatic Resources Delineation. This report includes similar impact assessment of five additional sites on the property (A, D, E, F, and G) and will serve as a basis for a Cleanup, Restoration, and Monitoring Plan (CRMP).

2. DEFINITIONS

2.1. Waters of the United States

Waters of the United States are regulated by the U.S Army Corps of Engineers (Army Corps) under the Clean Water Act. Waters of the United States include, but are not limited to, territorial seas, waters used for interstate or foreign commerce and their tributaries, and waters adjacent to the aforementioned, including wetlands.

Army Corps jurisdiction in waters such as creeks and rivers includes the area below the ordinary high water mark, which is the line on the bank established by fluctuations of water that leave physical characteristics such as a distinct line on the bank, shelving, destruction of terrestrial vegetation, and presence of debris.

The Army Corps 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 conditions do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas."

2.2. Waters of the State

Waters of the state are regulated by the State Water Resources Control Board (Water Board) under the Porter-Cologne Water Quality Control Act. Waters of the state are defined as:

"... any surface water or groundwater, including saline waters, within the boundaries of the state."

Waters of the State includes water in both natural and artificial channels.

The Water Board's definition of a wetland is:

"An area is wetland if, under normal circumstances, (1) the area has continuous or recurrent saturation of the upper substrate caused by groundwater, or shallow surface water, or both; (2) the duration of such saturation is sufficient to cause anaerobic conditions in the upper substrate; and (3) the area's vegetation is dominated by hydrophytes or the area lacks vegetation."

2.3. Streamside Management Areas

The Humboldt County Streamside Management Areas and Wetlands Ordinance recognizes Streamside Management Areas (SMAs) along all streams and wetlands.

The SMAs for streams are defined as:

"One hundred (100) feet, measured as the horizontal distance from the top of bank or edge of riparian drip-line whichever is greater on either side of perennial streams."

"Fifty (50) feet, measured as the horizontal distance from the top of bank or edge of riparian drip-line whichever is greater on either side of intermittent streams."

The SMAs for wetlands are defined as:

Seasonal wetlands = fifty (50) feet Perennial wetlands = one hundred fifty (150) feet

The Water Board *Cannabis Cultivation Policy* (Water Board 2019) also includes setbacks from aquatic resources. These include:

Perennial watercourses, waterbodies, or springs = 150 feet Intermittent (Class II) watercourses or wetlands = 100 feet Ephemeral (Class III) watercourses = 50 feet

3. ENVIRONMENTAL SETTING

3.1. Project Location

The parcel is located approximately 3.5 miles northeast of Redway on the Miranda USGS quadrangle (Section 25, T3S, R3E) in Humboldt County (Figure 1).

3.2. Soil, Topography, and Hydrology

The soil type mapped on the parcel is Coyoterock-Yorknorth, 15 to 50 percent slopes (United States Department of Agriculture, Natural Resource Conservation Service 2022). This soil type is derived from sandstone, mudstone, and schist parent material. The parcel includes several streams, wetlands, and ponds that are tributary to the South Fork Eel River.

4. METHODS

4.1. Aquatic Resources

Site visits were conducted on September 1, 2021, and January 27, 2022. Five current and past cultivation sites were evaluated for potential impacts to aquatic resources (Figure 2). Where present, wetlands were delineated by Kyle Wear, M.A. Mr. Wear has over 25 years of experience conducting floristic surveys and other botanical work in northern California and over 15 years of experience conducting wetland delineations. Mr. Wear is also trained in wetland delineation by the Wetland Training Institute.

Federal, State, and County wetland delineation methods follow the 1987 Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual Western Mountains, Valleys, and Coast Region (Version 2.0) (Army Corps 2010). A positive wetland determination is made when all three wetland parameters (hydrophytic vegetation, hydric soil, and wetland hydrology) are present.

Streams are delineated based on their Ordinary High Water Mark following A Guide to Ordinary High Water Mark (OHWN) Delineation for Non-Perennial Streams in the Western Mountains, Valleys and Coast Region (Army Corps 2014). The County Streamside Management Areas and Wetlands Ordinance also considers the top of the bank and any associated riparian vegetation when establishing watercourse boundaries.

Seven sample plots were evaluated for hydrophytic vegetation, hydric soil, and wetland hydrology at three of the sites where wetlands were identified (Appendix A). The wetland boundaries were mapped with a handheld GPS unit.

Figure 1. Location Map.



Figure 2. Cultivation Site Map.



4.2. Impact Assessment

National Agricultural Imagery Program (NAIP) and Google Earth images were evaluated to compare the pre-and post-development conditions of the sites. The following images were evaluated, but are not necessarily provided in the figures, photos, or discussion in this report:

<u>NAIP Images</u>: 2005, 2009, 2012, 2014, 2016, 2018, and 2020 <u>Google Earth</u>: 11/2004, 12/2005, 6/2009, 9/2010, 8/2012, 5/2014, 10/2015, and 4/2019

The delineated wetland boundary shapefile was overlaid on and pre-and post-disturbance NAIP images. Additional wetlands visible in the pre-disturbance images were hand digitized; these areas were identified based on their similar colors and patterns to the undisturbed adjacent wetlands in the images. Polygon area calculations were made with QGIS 3.10 software. While every attempt was made to make this as accurate as possible, the resolution of the photos, accuracy of the base maps, and other factors could affect the accuracy of the maps and calculations.

5. RESULTS AND DISCUSSION

There were impacts to aquatic resources at four of the five sites. This includes filling of seasonal wetlands and Class III stream channels (Table 1).

	ΤΟΤΑ	۱L	WETLA	STREAM	
Site	Square Feet	Acres	Square Feet	Acres	Feet
А	88,375	2.029	0	0	158
D	84,368	1.937	673	0.015	0
E	45,436	1.043	0	0	220
F	16,309	0.374	0	0	0
G	13,257	0.304	1,511	0.035	68
TOTAL	247,745	5.687	2,184	0.050	446

Table 1. Impact Summary.

5.1. Site A

5.1.1 Aquatic Resources

The site is currently used for cultivation and includes a mixed light greenhouse and generators. There is a feature in the undisturbed area near the top of the cutbank that includes a small gulch above a small seasonal wetland (Figure 3). The feature is an erosional feature or earthflow sag and is not continuous with the impacted area. The feature is obscured by adjacent upland vegetation canopy and is not visible in aerial images. The small wetland is dominated by rushes (*Juncus effusus* [FACW] and *J. Patens* [FACW]) (Sample Point 1). The soil is 10yr 2/2 with 7.5yr redox concentrations and meets hydric soil indicator F6 (Redox Dark Surface). This area was sampled in September 2021 during a drought year; however, the small feature includes secondary hydrology indicators B10 (Drainage Patters), D2 (Geomorphic Position), and D5 (FAC-Neutral Test).

The adjacent upland includes grasslands with orchard grass (*Dactylis glomerata* [FACU]), rattlesnake grass (*Briza maxima* [UPL]), and Mediterranean barley (*Hordeum marinum* [FAC]) (Sample Point 2). There are also stands of coyote brush (*Baccharis pilularis* [UPL]), Douglas-fir (*Pseudotsuga menziesii* [FACU]), Oregon white oak (*Quercus garryana* [FACU]), buckeye (*Aesculus californica* [UPL]), and California bay (*Umbellularia californica* [FAC]). The upland soil is generally 10yr 2/2 and lacks redox features or other hydric soil indicators.

There is a Class III watercourse east of the graded flat. The cutbank includes seasonal bank seeps that drain into a French Drain along the base of the slope, then west into a drainage ditch, and into wetland associated with a Class II watercourse. The bank seeps are a result of daylighting groundwater that was otherwise well beneath the surface and are not natural wetland features.

5.1.2. Impact Assessment

The site was graded between August 2012 and May 2014. The total impacted area is approximately 88,375 square feet (2.029 acres). There has been concern raised that a part of the disturbed area that appears darker brownish green than the adjacent grassland in some of the pre-disturbance images could be wetland, especially the 2005 images. However, in the 2012 Google Earth image, which has higher resolution, the area appears to be grassland, coyote

Figure 3. Site A Aquatic Resources Map.



brush, oaks, and other hardwoods indicative of upland conditions (Appendix B). There is no evidence of rushes typically visible in the images in other wetlands on the property. Similar color is also present elsewhere on the same images in areas on the property that are undisturbed that are upland.

A July 2021 report by Trinity Valley Consulting Engineers indicates the Class III stream is diverted from its original channel into a culvert under the access road. This resulted in the filling of approximately 158 feet of the channel.

5.2. Site D

5.2.1. Aquatic Resources

There is a small seasonal wetland in a depression on an earthflow sag just west of the graded flat (Figure 4). Dominant plants in the wetland include nut grass (*Cyperus eragrostis* [FACW]), rush (*Juncus effusus* [FACW]), and pennyroyal (*Mentha pelugium* [OBL]) (Sample Point 6). The soil is generally 10yr 4/1 with 7.5yr redox concentrations and meets hydric soil indicator F3 (Depleted Matrix). The water table was approximately eight inches below the surface with saturation to approximately three inches. There was an algal mat over some of the wetland. Wetland hydrology indicators present included A2 (High Water Table), A3 (Saturation), and B4 (Algal Mat or Crust).

The adjacent upland is grassland with stands of orchard grass (*Dactylis glomerata* [FACU]) and other grasses (Sample Point 7). There are nearby stands of coyote brush (*Baccharis pilularis* [UPL]). Coyote brush is also establishing in the raised beds that remain on the flat.

There is a Class III stream near the southwest corner of the disturbed area. Like Site A, grading exposed the water table on the cutbank resulting in seasonal seeps that drain onto the flat, but these are not natural features.

5.2.2. Impact Assessment

Development of the site is first visible in 2018. Cultivation at the site appears to have ceased by 2019. The disturbed area is approximately 84,368 square feet (1.937 acres). Approximately 673 square feet (0.015 acre) of the wetland visible on pre-disturbance images is under the toe of the fillslope.

The nearby Class III watercourse does not appear to have been impacted. The current top of the watercourse is consistent with pre-disturbance images (Appendix B).

5.3. Site E

5.3.1. Aquatic Resources

There are no wetlands near the site (Figure 5). There are stands of nut grass (*Cyperus eragrostis* [FACW]) on the flat associated with areas where runoff concentrates, but it is not a natural wetland feature. The surrounding grassland has upland vegetation with stands of orchard grass (*Dactylis glomerata* [FACU]), rattlesnake grass (*Briza maxima* [UPL]), Mediterranean barley (*Hordeum marinum* [FAC]), rough cat's-ear (*Hypochaeris radicata* [FACU]), and coyote brush

Figure 4. Site D Aquatic Resources Map.





Figure 5. Site E Aquatic Resources Map.

(*Baccharis pilularis* [UPL]). The surrounding trees include Douglas-fir (*Pseudotsuga menziesii* [FACU]), Oregon white oak (*Quercus garryana* [FACU]), and California bay (*Umbellularia californica* [FAC]).

There are five Class III streams northeast, east, and south of the disturbed area.

5.3.2. Impact Assessment

Grading occurred between 2009 and 2012. The site was used for cultivation until at least 2016. The total disturbed area is approximately 45,436 square feet (1.043 acres), which included approximately 220 feet of a Class III watercourse (Appendix B). There is no evidence of wetlands in the pre-disturbance images.

5.4. Site F

5.4.1. Aquatic Resources

There are no wetlands or streams near the site (Figure 6). There is a small patch of nut grass (*Cyperus eragrostis* [FACW]) and pennyroyal (*Mentha pelugium* [OBL]) associated with drainage from the flat, but it is not a natural feature. The surrounding grassland includes California oatgrass (*Danthonia californica* [FAC]), blue wildrye (*Elymus glaucus* [FACU]), rattlesnake grass (*Briza maxima* [UPL]), bracken fern (*Pteridium aquilinum* [FACU]), rough cat's-ear (*Hypochaeris radicata* [FACU]), and scattered coyote brush (*Baccharis pilularis* [UPL]). The surrounding trees include Douglas-fir (*Pseudotsuga menziesii* [FACU]), Oregon white oak (*Quercus garryana* [FACU]), madrone (*Arbutus menziesii* [UPL]), and California bay (*Umbellularia californica* [FAC]).

5.4.2. Impact Assessment

The site was graded between 2014 and 2016. The site was used for cultivation until at least 2018. The total impacted area is approximately 16,309 square feet (0.374 acre). No aquatic resources were impacted.

5.5. Site G

5.5.1. Aquatic Resources

There is a seasonal wetland directly west of the disturbed area (Figure 7). The wetland includes stands of rushes (*Juncus effusus* [FACW] and *J. Patens* [FACW]), nut grass (*Cyperus eragrostis* [FACW]), and pennyroyal (*Mentha pelugium* [OBL]) (Sample Points 3 and 5). The soil in the wetland is generally 10yr 4/1 with 7.5yr 5/6 redox concentrations. The soil meets hydric soil indicator F3 (Depleted Matrix). Wetland hydrology indicators present included A1 (Surface Water), A2 (High Water Table), and A3 (Saturation).

The adjacent upland includes stands of coyote brush (*Baccharis pilularis* [UPL]) and grassland with orchard grass (*Dactylis glomerata* [FACU]), harding grass (*Phalaris aquatica* [FACU]), six weeks fescue (*Festuca myuros* [FACU]), rattlesnake grass (*Briza maxima* [UPL]), and rough cat's



Figure 6. Site F Aquatic Resources Map.

Figure 7. Site G Aquatic Resources Map.





ear (*Hypochaeris radicata* [FACU]) (Sample Point 4). The soil is generally 10yr 3/3 without redox features or other hydric soil or wetland hydrology indicators.

A Class III watercourse flows east from the disturbed area.

5.5.2. Impact Assessment

The area was graded between June 2009 and September 2010 and used for cultivation until at least 2016. The total impacted area is approximately 13,257 square feet (0.304 acre). The wetland and upper extent of the Class III watercourse extend under the graded area in the predisturbance images. Approximately 1,511 square feet (0.035 acre) of wetland and approximately 68 feet of the Class III watercourse were filled. The road through the wetland was not included in the impacted area because it is visible in 2004 and is a baseline condition.

6. REFERENCES

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APPENDIX A Wetland Determination Data Forms

Project/Site: APN: 214-142-012	_ City/County: <u>Humboldt</u> Sampling Date: <u>9-1-21</u>
Applicant/Owner: Y. Jacobson	State: <u>CA</u> Sampling Point: <u>1</u>
Investigator(s): Kyle Wear	_ Section, Township, Range:25, T3S, R3E
Landform (hillslope, terrace, etc.): <u>Hillslope</u>	_ Local relief (concave, convex, none): <u>Concave</u> Slope (%): <u>10</u>
Subregion (LRR): A Lat:	<u>E 431999.1 N 4446964.0 Datum: NAD 83</u>
Soil Map Unit Name: Coyoterock-Yorknorth	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significant	ly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally p	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Watland Hydrology Present2 Yes X No	Is the Sampled Area within a Wetland? Yes X No

Wetland Hydrology Present?	Yes X	No	within a Wetland?	Yes <u>X</u> N	o			
Remarks: Plot is in small depression or earthflow say with drainage/erosion feature above								
riot is in sman depression of cartinow say with drandge/crosion reatare above								

VEGETATION – Use scientific names of plants.

	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1)	<u>% Cover</u>	Species?	Status	Number of Dominant Species 3 (A)
2				Total Number of Dominant
3			· · · · · · · · · · · · · · · · · · ·	Species Across All Strata:4 (B)
45x10 in feature		_= Total Co	over	Percent of Dominant Species 75% (A/B)
<u>Saping/Silub Statum</u> (Piot size)	10	Voc		Prevalence Index worksheet:
1. <u>Datcharls pilulans</u>	20	Voc		Total % Cover of:Multiply by:
		res		OBL species x 1 =
3	•	-		FACW species x 2 =
4	-	-		FAC species x 3 =
5		111 .		FACU species x 4 =
Hark Stratum (Diataiz 5x10 in feature	30	= Total Co	over	UPL species x 5 =
	20	Yes		Column Totals: (A) (B)
	10	Voc		
Allous lanatus	<u></u>	<u> </u>		Prevalence Index = B/A =
Carey tumulicola	<u> </u>			Hydrophytic Vegetation Indicators:
		<u> </u>	FAC	1 - Rapid Test for Hydrophytic Vegetation
5			·	X 2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0 ¹
78.				 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
9			2009 P	5 - Wetland Non-Vascular Plants ¹
10	-0			Problematic Hydrophytic Vegetation ¹ (Explain)
11			·	¹ Indicators of hydric soil and wetland hydrology must
89633-	37	- Total Ca		be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				
1.				Hydrophytic
2				Vegetation
		= Total Co	ver	Present? Yes <u>No</u>
% Bare Ground in Herb Stratum				-
Remarks:				

Profile Desc	ription: (Describe t	o the depth n	eeded to docur	nent the i	ndicator	or confirm	n the absence of indicato	rs.)
Depth	Matrix		Redo	x Features	6			
(inches)	Color (moist)	(Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10 yr 2/1	· · · ·	7.5 yr 6/6			M	Clay loam	
5	n - 2.	ta di Da			27 - 24 2			(2 ⁾
	the state of the s	a <u></u>		-53			N	
	·			- ;;- <u></u>	·			
				18.0	di		£ 12	
					<u> </u>		e	
				105	1 <u></u>		a	
		·					·	
¹ Type: C=Co	ncentration, D=Depl	etion, RM=Rec	luced Matrix, CS	6=Covered	l or Coate	d Sand G	rains. ² Location: PL=F	Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applica	ble to all LRR	s, unless other	wise note	əd.)		Indicators for Prob	lematic Hydric Soils ³ :
Histosol	(A1)	<u></u>	Sandy Redox (S	S5)			2 cm Muck (A10	0
Histic Ep	ipedon (A2)	· <u> </u>	Stripped Matrix	(S6)			Red Parent Mat	erial (TF2)
Black His	stic (A3)		Loamy Mucky M	/lineral (F1) (except	MLRA 1)	Very Shallow Da	ark Surface (TF12)
Hydroge	n Sulfide (A4)		Loamy Gleyed	Matrix (F2)		Other (Explain in	ו Remarks)
Depleted	Below Dark Surface	(A11)	Depleted Matrix	: (F3)				
Thick Da	rk Surface (A12)	<u>_X</u>	Redox Dark Su	rface (F6)			Indicators of hydrop	hytic vegetation and
Sandy M	ucky Mineral (S1)	:	Depleted Dark	Surface (F	7)		wetland hydrolog	y must be present,
Sandy G	leyed Matrix (S4)		Redox Depress	ions (F8)			unless disturbed	or problematic.
Restrictive L	ayer (if present):							
Туре:	ta et		2					0.0° • • • • • • • • •
Depth (inc	hes):		-11				Hydric Soil Present?	Yes X No
Remarks:								
HYDROLO	3Y							
Wetland Hyd	rology Indicators:							

Primary Indicators (minimum of one required; ch	eck all that apply)	Secondary Indicators (2 or more required)
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) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)		 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) X Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Field Observations: Surface Water Present? Yes No _X Depth (inches): Water Table Present? Yes No _X Depth (inches): Saturation Present? Yes No _X Depth (inches): (includes capillary fringe) Yes No _X Depth (inches):		land Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspections),	, if available:
Remarks:		

Project/Site: APN: 214-142-012	City/County: Humbold	lt		Sampling Da	te: <u>9-1-2</u>	21
Applicant/Owner: Y. Jacobson	0.00 10	State:	CA	Sampling Po	int: 2	
Investigator(s): Kyle Wear	Section, Township, Range	. <u> </u>		n 2017 (72208)		
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, con	vex, none)	<u>Conve</u>	x	Slope (%): _	10
Subregion (LRR): Lat:	<u>يا E 431985.0</u>	ong:l	N 444697	73.6	Datum: NAC) 83
Soil Map Unit Name: Coyoterock-Yorknorth	C.	N	IWI classific	ation:		
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes X No	(lf no,	explain in R	emarks.)		
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Nor	mal Circu	mstances" p	present? Yes	<u>X</u> No	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If neede	ed, explain	any answe	rs in Remarks	.)	
						00.00 4 0750

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

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

VEGETATION – Use scientific names of plants.

	Absolute	Dominan	t 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 Deminant
3.				Species Across All Strata: 2 (B)
4		0.	10	K-/
- 75		- Tatal C	· · · · · · · · · · · · · · · · · · ·	Percent of Dominant Species 0%
Sapling/Shrub Stratum (Plot size) 20'-radius)	<u>,</u>		over	That Are OBL, FACW, or FAC: (A/B)
1 Baccharis nilularis	20	Yes		Prevalence Index worksheet:
	20			Total % Cover of:Multiply by:
2			0	OBL species x 1 =
3				$E\Delta CW$ species $x 2 =$
4				
5				FAC species x 3 =
		= Total Co	over	FACU species x 4 =
Herb Stratum (Plot size: <u>5'-radius</u>)	8			UPL species x 5 =
1. Dactylis glomerata	50	Yes	FACU	Column Totals: (A) (B)
2 Festuca arundinacea	10	No		
Briza maxima	<u> </u>	No		Prevalence Index = B/A =
Hordeum marinum	<u>10</u>			Hydrophytic Vegetation Indicators:
4. <u>11010Culti marituri</u>		NU	TAC	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
8				data in Remarks or on a separate sheet)
9				5 - Wetland Non-Vascular Plants ¹
10	-0		- (3)	Problematic Hydrophytic Vegetation ¹ (Explain)
10	-		·	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
Weeds Vine Stratum (Plat size:	80	= Total Co	over	
1			·	Hydrophytic
2				Vegetation Present? Ves No X
		= Total Co	ver	
% Bare Ground in Herb Stratum				
Remarks:				

Profile Descr	iption: (Describe to	the depth nee	eded to docur	nent the ir	ndicator o	or confirm	the absence o	of indicator	s.)		
Depth	Matrix		Redo	x Features	8						
(inches)	Color (moist)	<u>%</u> Co	olor (moist)		Type ¹	Loc ²	Texture	c	Remark	S	
0-12	10 yr 2/2						Clay loam				
		- 3.					 8				(7 ²
- <u></u> 1					<u> </u>						
10	a	a 3		8 A			e				(č.)
	2										1
	5										
		_									
1							······································				
Type: C=Co	ncentration, D=Deplet	ion, RM=Redu	iced Matrix, CS	S=Covered	or Coate	d Sand Gra	ains. Loca	ation: PL=P	ore Lining	, M=Matrix	3.
Hydric Soll Ir	idicators: (Applicab	ie to all LKKS	, unless othei	wise note	a.)		Indicator	S TOP PRODI	ematic Hy	aric Solis	P.9
Histosol (A1)	9	Sandy Redox (S	S5)			2 cm	Muck (A10))		
Histic Epi	pedon (A2)		Stripped Matrix	(S6)			Red	Parent Mate	erial (TF2)		
Black His	tic (A3)	L	oamy Mucky N	/lineral (F1) (except	MLRA1)	Very	Shallow Da	rk Surface	e (TF12)	
Hydroger	i Sulfide (A4)	L	oamy Gleyed.	Matrix (F2)			Othe	r (Explain in	Remarks)	
Depleted	Below Dark Surface ((A11) C	Depleted Matrix	: (F3)							
Thick Date	k Surface (A12)	<u> </u>	Redox Dark Su	rface (F6)			³ Indicator	s of hydroph	nytic vege	tation and	
Sandy M	ucky Mineral (S1)	C	Depleted Dark 3	Surface (F7	7)		wetlan	id hydrology	must be l	oresent,	
Sandy GI	eyed Matrix (S4)	F	Redox Depress	ions (F8)			unless	disturbed o	or problem	atic.	
Restrictive L	ayer (if present):						v				
Туре:											
Depth (inc	nes):						Hydric Soil I	Present?	Yes	No	X
Remarks:							•				

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; o	Secondary Indicators (2 or more required)	
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 Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roo	ts (C3) Geomorphic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)) FAC-Neutral Test (D5)	
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8)		
Field Observations:		
Surface Water Present? Yes No	X Depth (inches):	
Water Table Present? Yes No	Depth (inches):	v
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): Wetla	and Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous inspections), i	if available:
Remarks:		

		Compline Date: 1-27-22			
Project/Site: <u>APIN, 214-142-012</u>		Sampling Date: <u>1-27-22</u>			
Applicant/Owner: Y. Jacobson	State: <u>CA</u>	Sampling Point:3			
Investigator(s): Kyle Wear	Section, Township, Range: 25	, T3S, R3E			
Landform (hillslope, terrace, etc.): Hillslope	_ Local relief (concave, convex, none): <u>CO</u> I	ncave Slope (%):			
Subregion (LRR): A Lat:	<u>E 432333.6 ماية: N 444</u>	17073.9 Datum: NAD 83			
Soil Map Unit Name: Coyoterock-Yorknorth	NWI cla	ssification:			
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes <u>X</u> No (If no, explain	in Remarks.)			
Are Vegetation, Soil, or Hydrology significantly	/ disturbed? Are "Normal Circumstanc	es" present? Yes X No			
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any ar	nswers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes X No					

Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No	Is the Sampled Area within a Wetland?	YesX	No
Remarks: Plot is in swale feature	2			

VEGETATION – Use scientific names of plants.

	Absolute	Dominan	t 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 Device of
3				Species Across All Strata: 2 (B)
1			·	
4				Percent of Dominant Species 100%
Sanling/Shrub Stratum (Plot size:	1 .	= Total Co	over	That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
1. <u>.</u>		-		Total % Cover of: Multiply by:
2			•07 0	OBL species x 1 =
3				
4				
5.				FAC species x 3 =
		= Total Co	over.	FACU species x 4 =
Herb Stratum (Plot size: 5'-radius)	3	- 1010100	0001	UPL species x 5 =
1. Juncus effusus	30	Yes	FACW	Column Totals: (A) (B)
2 Juncus patens	30	Yes	FACW	
3 Montha nolugium	10	No		
Vicia sativa	10	No		Hydrophytic vegetation indicators:
4. Coranium en	<u> </u>	No	<u> </u>	1 - Rapid Test for Hydrophytic Vegetation
5. Geranium sp.				X 2 - Dominance Test is >50%
6. Non-flowering grasses	10	NO	<u> </u>	3 - Prevalence Index is ≤3.0 ¹
7		5. <u></u>		4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
9.				5 - Wetland Non-Vascular Plants ¹
10				Problematic Hydrophytic Vegetation ¹ (Explain)
11	-		•	¹ Indicators of hydric soil and wetland hydrology must
	05		- (.);	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:		= Total Co	over	
1				
		-	•	Hydrophytic
2	-(()	0	(i) <u> </u>	Present? Yes X No
14 Dans Craum din Llank Chartum	<u>.</u>	= Total Co	ver	
% Bare Ground In Herb Stratum				
Remarks.				

3

Profile Desc	ription: (Describe)	to the depth	needed to docur	nent the i	indicator	or confirm	n the absence of indicators.)		
Depth	Matrix		Redo	x Feature	<u>s</u> 1				
(inches)	Color (moist)		Color (moist)	%	Type'		Texture Remarks		
	10 yr 2/2	100					<u>Clay loam</u>	<u> </u>	
2+	10 yr 4/1	90	7.5 yr 5/6	5	С	Μ	Clay loam		
				-	·		<u>n - </u>		
<u>.</u>	÷			•	· · · · · · · · · · · · · · · · · · ·		 	-	
	51							_	
-		· · · · · · · · · · · · · · · · · · ·			- 1 <u>1</u>		<u>e</u>		
		letion RM-E	Peduced Matrix C		d or Coate		rains ² Location: DI - Dore Lining M-Matrix		
Hydric Soil	ndicators: (Application)	able to all L	RRs. unless othe	rwise not	ed.)	u Ganu Gi	Indicators for Problematic Hydric Soils ³ :		
Histosol	(A1)		Sandy Redox (S5)			2 cm Muck (A10)		
Histic Er	pipedon (A2)		Stripped Matrix	(S6)			Red Parent Material (TF2)		
Black Hi	stic (A3)	· <u></u>	Loamv Muckv I	Mineral (F	1) (except	MLRA 1)	Very Shallow Dark Surface (TF12)		
Hydroge	n Sulfide (A4)		Loamy Gleyed	Matrix (F2	2)		Other (Explain in Remarks)		
Depleted	Below Dark Surface	e (A11)	X Depleted Matrix	(F3)					
Thick Da	ark Surface (A12)		Redox Dark Su	rface (F6)			³ Indicators of hydrophytic vegetation and		
Sandy M	lucky Mineral (S1)	_	Depleted Dark Surface (F7)				wetland hydrology must be present,		
Sandy G	leyed Matrix (S4)		Redox Depressions (F8)				unless disturbed or problematic.		
Restrictive I	_ayer (if present):								
Туре:									
Depth (ind	ches):						Hydric Soil Present? Yes X No	_	
Remarks:							·		
HYDROLO	GY								
Wetland Hyd	drology Indicators:								
Primary India	ators (minimum of o	ne reauired [.]	check all that appl	V)			Secondary Indicators (2 or more required)		
Surface	Water (A1)		Water-Sta	ined Leav	es (B9) (e	xcept	Water-Stained Leaves (B9) (MLRA 1.	2.	

 Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) 	 Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Field Observations: Surface Water Present? Yes	X Depth (inches): Depth (inches):6" Depth (inches): _surface wetla ring well, aerial photos, previous inspections), near culvert	and Hydrology Present? Yes X No if available:

Project/Site: APN: 214-142-012	City/County: Humbo	oldt	_ Sampling Date: _	1-27-21
Applicant/Owner: Y. Jacobson	322 62	State: CA	_ Sampling Point: _	4
Investigator(s): Kyle Wear	Section, Township, Ran	ige: 25, T3S, R3	BE	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, c	onvex, none): None	Slop	be (%): <u>10</u>
Subregion (LRR): Lat:	E 432327.0	N 44470 <u>ایما</u>	83.4 Datur	m: NAD 83
Soil Map Unit Name: Coyoterock-Yorknorth	c	NWI classifi	cation:	Σ
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes X No	(If no, explain in F	Remarks.)	
Are Vegetation, Soil, or Hydrology significantly	/ disturbed? Are "l	Normal Circumstances"	present? Yes	XNo
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If nee	eded, explain any answe	ers 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 Yes Yes	No X No X No X	Is the Sampled Area within a Wetland?	Yes	No X
Remarks:					

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2.				F-110-1-1-1-1-1-1
3				Species Across All Strata: 3-4 (B)
0				
4		100 100 10 1000000		Percent of Dominant Species
Carling (Charle Charles (Distring 10' radius)	12	_ = Total Co	over	That Are OBL, FACW, or FAC: $\leq 25\%$ (A/B)
Saping/Shrub Stratum (Plot size: 10 rudius)	20	Voc		Prevalence Index worksheet:
1. Baccharis pilularis			UPL	Total % Cover of: Multiply by:
2			<u> </u>	
3				
4.				FACVV species
5				FAC species x 3 =
	20	- Total Ca		FACU species x 4 =
Herb Stratum (Plot size: 5'-radius)			ver	UPL species x 5 =
1 Phalaris agutica	20		FACU	Column Totals: (A) (B)
a Dactilis glomorata	20		FACIL	
Crass seedlings (Fetuca myuros?)	20		<u>1/100</u>	Prevalence Index = B/A =
3. Grass seedings (retued mydros:)		<u></u>	<u> </u>	Hydrophytic Vegetation Indicators:
4. DI12d IIIdXIIIId			<u>UPL</u>	1 - Rapid Test for Hydrophytic Vegetation
5. <u>Hypericum perforatum</u>			FACU	2 - Dominance Test is >50%
6. <u>Hypochaeris radicata</u>	10		FACU	3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
9.				5 - Wetland Non-Vascular Plants ¹
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
11				¹ Indicators of hydric soil and wetland hydrology must
			60 0	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:			ver	
,				
	-0			Hydrophytic Verstation
2	- 303			Present? Yes No
0/ Dave Oregin die Uark Stratum	8	= Total Co	ver	
% Bare Ground in Herb Stratum				
Remarks.				
Cover and species composition would I	ikely be	different	t in sprin	g or summer, but clearly an upland

plant community

4

Depth	Matrix	Redox Features	
inches)	<u>Color (moist)</u> %	Color (moist) % Type' Loc ²	Texture Remarks
0-16	<u> 10 yr 3/3 </u>	7.5 yr 6/6	<u>Clay loam</u>
	l l-		
	a .		
	8 		· ·
	. <u></u> .		
	· <u> </u>		·
ype: C=C	oncentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sand Gra	ains. ² Location: PL=Pore Lining, M=Matrix.
ydric Soil	Indicators: (Applicable to all L	.RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
_ Histosol	. (A1)	Sandy Redox (S5)	2 cm Muck (A10)
_ Histic E	pipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black H	istic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
_ Hyaroge	a Suttae (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
_ Depiete	ark Surface (A12)	Depieted Matrix (F3)	³ Indiastors of hydrophytic vegetation and
_ Thick D	ucky Mineral (S1)	Redox Dark Surface (F0)	wetland bydrology must be present
Sandy (Gleved Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
estrictive	Layer (if present):		
Type:	5080 Yank 21, 64		
Depth (in	ches):		Hydric Soil Present? Yes No
emarks:	3 - V		· · · · · · · · · · · · · · · · · · ·
DROLO	GY		
	drology Indicators:		
/etland Hy	arology maloators.		
/etland Hy rimary Indi	cators (minimum of one required;	check all that apply)	Secondary Indicators (2 or more required)
/etland Hy rimary Indi _ Surface	<u>cators (minimum of one required;</u> Water (A1)	<u>check all that apply)</u> Water-Stained Leaves (B9) (except	<u>Secondary Indicators (2 or more required)</u> <u> </u> Water-Stained Leaves (B9) (MLRA 1,
/etland Hy rimary Indi _ Surface _ High Wi	cators (minimum of one required: Water (A1) ater Table (A2)	<u>check all that apply)</u> <u></u> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<u>Secondary Indicators (2 or more required)</u> Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B)
fetland Hy rimary Indi _ Surface _ High Wi _ Saturati	<u>cators (minimum of one required;</u> Water (A1) ater Table (A2) on (A3)	<u>check all that apply)</u> <u> </u> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <u> </u> Salt Crust (B11)	<u>Secondary Indicators (2 or more required)</u> Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10)
/etland Hy rimary Indi Surface High Wa Saturati Water M	cators (minimum of one required, Water (A1) ater Table (A2) on (A3) farks (B1)	<u>check all that apply)</u> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
/etland Hy rimary Indi Surface High Wa Saturati Water M Sedime	cators (minimum of one required, Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2)	<pre>check all that apply)</pre>	 <u>Secondary Indicators (2 or more required)</u> Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (6)
Vetland Hy rimary Indi Surface High Wa Saturati Water M Sedime Drift De	cators (minimum of one required Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3)	<pre>check all that apply)</pre>	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (s (C3) Geomorphic Position (D2)
Vetland Hy rimary Indi Surface High Wa Saturati Water N Sedime Drift De Algal Ma	cators (minimum of one required Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	 <u>check all that apply</u> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Second Patterns (D2) Shallow Aguitard (D3)
Vetland Hy rimary Indi Surface High Wa Saturati Water N Sedime Drift De Algal Ma Iron Dei	cators (minimum of one required Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	 <u>check all that apply</u> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (S (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Vetland Hy Primary Indi Surface High Wa Saturati Vater N Sedime Drift De Algal Ma Iron De Surface	cators (minimum of one required Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6)	 check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (S (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)

	ond inagoi	y (D <i>i</i>)			0.7
Sparsely Vegetated Co	ncave Surfa	ice (B8)			
Field Observations:					
Surface Water Present?	Yes	No	X Depth (inches):	_	
Water Table Present?	Yes	No	X Depth (inches):	_	N/
Saturation Present? (includes capillary fringe)	Yes	No	X Depth (inches):	_ Wetland Hydrology Present? Yes	NoX
Describe Recorded Data (st	tream gauge	e, monitorii	ng well, aerial photos, previous insp	pections), if available:	
Remarks:					

Project/Site: APN: 214-142-012	City/County: Humbold	lt		_ Sampling Da	ate:	1-27-22	
Applicant/Owner: Y. Jacobson	222 12	State:	CA	_ Sampling Po	oint:	5	
Investigator(s): Kyle Wear	Section, Township, Range	2	25, T3S,	R3E			
Landform (hillslope, terrace, etc.): <u>Terrace</u>	Local relief (concave, con	/ex, none): Conca	ave	Slope	(%): 0	
Subregion (LRR): Lat:	E 432350.3	:	N 44470)78.5	Datum:	NAD 83	
Soil Map Unit Name: Coyoterock-Yorknorth	C.	1	VWI classif	ication:			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)							
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "Nor	mal Circu	imstances"	present? Yes	s_X	_ No	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If neede	d, explair	n any answ	ers in Remarks	s.)		
						100-100-100-100 (A A) A	

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

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

VEGETATION – Use scientific names of plants.

	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	Species?	Status	Number of Dominant Species 2
1			·	That Are OBL, FACW, or FAC: (A)
2				Total Number of Deminant
3.				Species Across All Strata 3 (B)
Λ		30	10 0	
- <u> </u>			• * * <u></u> *	Percent of Dominant Species 100%
Sanling/Shrub Stratum (Diot size:)		$_{=}$ = 1 otal C	over	That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
		-	·	Total % Cover of:Multiply by:
2		51.		OBL species x 1 =
3		. <u> </u>		
4			<u> </u>	
5.				FAC species x 3 =
		= Total C	over	FACU species x 4 =
Herb Stratum (Plot size: 5'-radius)	-	- 10tar 01	0001	UPL species x 5 =
1 Cyperus eragrostis	25	Yes	FACW	Column Totals: (A) (B)
2 Juncus effusus	25	Ves		
Mentha pelugium	25	Voc		Prevalence Index = B/A =
		res		Hydrophytic Vegetation Indicators:
4. Hypochaeris radicata		<u>No</u>	<u>FACU</u>	1 - Rapid Test for Hydrophytic Vegetation
5. Non-flowering grasses			·	X 2 - Dominance Test is >50%
6. Geranium seedlings	5	No	?	3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
8.	2.55			data in Remarks or on a separate sheet)
9.				5 - Wetland Non-Vascular Plants ¹
10	-0			Problematic Hydrophytic Vegetation ¹ (Explain)
11				¹ Indicators of hydric soil and wetland hydrology must
	07		•00	be present, unless disturbed or problematic.
Moody Vine Stratum (Plot size:	8/	_= Total Co	over	
*h- <u>-</u>		-	• • • • • • • • • • • • • • • • • • • •	Hydrophytic
2		0	(())	Present? Yes X No
	-	= Total Co	over	
% Bare Ground in Herb Stratum				
Remarks:				

Profile Desc	ription: (Descr	ibe to the d	epth nee	ded to docu	ment the i	ndicator	or confir	rm the abs	sence of	f indicators.)
Depth	Matri	ix		Redo	x Feature	s	(Z			
(inches)	Color (moist) %	Co	lor (moist)	%	Type ¹	Loc ²	Textu	ure	Remarks
0-6	10 yr 4/1	80	7.5	yr 5/6	20	С	M	Clay lo	am	
	10 10	22	a h					10	0. S	
	17.									
	<u></u>							_ »		
		1977				-	ä.	2		
	N	-				0		-	- 13	
	<u></u>	2005				10	~			
¹ T				and Materia O					21 4	
Type: C=Co	ncentration, D=	Depletion, R		unloss othe	S=Covered	d or Coat	ed Sand G	irains.	Locat	tion: PL=Pore Lining, M=Matrix.
Hyune Sonn	nuicators. (Ap	plicable to a				eu.)			uicators	Tor Problematic Hydric Solls .
Histosol	(A1)		S	andy Redox (S5)			1 <u>0-</u>	_ 2 cm M	Muck (A10)
Histic Ep	olpedon (A2)			tripped Matrix	(S6)					arent Material (TF2)
Black Hi	stic (A3)		L•	Damy Mucky I	Vineral (F	1) (excep	ot MLRA 1	I)	_ Very S	Shallow Dark Surface (TF12)
Hydroge	n Suitide (A4)	(Add)		bamy Gleyed	Matrix (F2	.)		-	_ Other	(Explain in Remarks)
	Below Dark Su		V	epieted Matri	x (F3)			3,		• • • • • • • • • • • • • • • • • • •
Thick Da	irk Sufface (A12) 4)	— [–]	edox Dark Su	mace (F6)			n	dicators	or nydropnytic vegetation and
Sandy IV	lucky Mineral (S	1) N		epieted Dark	Surface (F	•7)			wetianc	dinturbed on much long the
Sandy G	aleyed Matrix (54	•)	ĸ	edox Depress	sions (F8)				uniess	disturbed or problematic.
Restrictive i	ayer (ii presen	ι).								
Type:								00 1010	0 00000	
Depth (inc	ches):							Hydri	c Soil P	resent? Yes <u>X</u> No
Remarks:										
HYDROLO	GY									
Wetland Hyd	drology Indicate	ors:								
Primary Indic	ators (minimum	of one requi	ed; chec	k all that appl	y)				Second	ary Indicators (2 or more required)
X Surface	Water (A1)			Water-Sta	ined Leav	es (B9) (except		Wat	ter-Stained Leaves (B9) (MLRA 1, 2,
High Wa	ter Table (A2)				1. 2. 4A. a	and 4B)		0		4A. and 4B)
Saturatio	on (A3)			Salt Crust	(B11)				Dra	inage Patterns (B10)
Water M	arks (B1)		13	Aquatic In	vertebrate	s (B13)		9	Drv	-Season Water Table (C2)
Sedimen	t Deposits (B2)		2.	Hydrogen	Sulfide Or	dor(C1)		3	Sati	uration Visible on Aerial Imageny (C9)
Ocalmen	nocite (P3)				Duniae Od	res along	l iving Pa	oote (C3)	X	morphic Position (D2)
	t or Cruct (B4)		-	_ Oxidized I	of Doduce	d Iron (C		5015 (C5)		
			02	_ Presence			(4) 1. 1. 0 - 11 - (C	20)		Novital Test (DS)
Surface	Soil Cracks (B6)	15 ADM 0	-	_ Stunted of	r Stressed	Plants (I	J1) (LRR /	A)		sed Ant Mounds (D6) (LRR A)
Inundatio	on Visible on Aei	rial Imagery	B7) _	Other (Ex	plain in Re	marks)		0	Fro	st-Heave Hummocks (D7)
Sparsely	Vegetated Con	cave Surface	: (B8)							
Field Observ	vations:					<i></i>				
Surface Wate	er Present?	Yes X	_ No	Depth (in	ches):	1″				
Water Table	Present?	Yes	No	Depth (in	ches):					
Saturation Pr	esent?	Yes	No	Depth (in	ches):		Wet	tland Hyd	rology l	Present? Yes X No
(includes cap	oillary fringe)	80							1 153	
Describe Red	corded Data (stre	eam gauge, i	nonitorin	g well, aerial	photos, pr	evious in	spections)), if availat	ole:	
Remarks:										

Project/Site: APN: 214-142-012	City/County:	Humboldt		Sampling Date:	1-27-22
Applicant/Owner: Y. Jacobson	UN 2220 10	St	ate: <u>CA</u>	Sampling Point:	6
Investigator(s): Kyle Wear	Section, Tow	nship, Range:	25, T3S,	R3E	
Landform (hillslope, terrace, etc.): <u>Terrace</u>	Local relief (concave, convex, n	one): <u>Conca</u> v	ve Sio	pe (%): <u>0</u>
Subregion (LRR):	Lat: E 432334	. <u>1</u>	N 444694	47.2 Datu	m: NAD 83
Soil Map Unit Name: Coyoterock-Yorknorth		Co. Maria an	NWI classific	ation:	×.
Are climatic / hydrologic conditions on the site typical for this tin	me of year? Yes <u>X</u>	No (If	no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology sign	nificantly disturbed?	Are "Normal C	ircumstances" p	oresent? Yes	XNo
Are Vegetation, Soil, or Hydrology natu	urally problematic?	(If needed, exp	plain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map sh	lowing sampling	point location	s, transects	, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes X No	Is the	Sampled Area			

Yes X No Yes X No	within a Wetland?	YesXNo	
on earthflow sag			
-	$\frac{Yes X}{Yes X} No $	Yes X No within a Wetland?	Yes X No Yes X No Yes X No Yes X No on earthflow sag X X X X

VEGETATION – Use scientific names of plants.

20m 451254 at at-mit at 6254 54	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u>	Species	Status	Number of Dominant Species 2
1				That Are OBL, FACW, or FAC: (A)
2.				T () U = I = (D =) = (
3				Species Across All Strata: 3 (B)
	-			
4				Percent of Dominant Species 100%
Sapling/Shrub Stratum (Diot size:	1	_= Total C	over	That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2		93. 	- co	OBL species x 1 =
3	55	8. 		
4				
5		741		FAC species x 3 =
		= Total C	over	FACU species x 4 =
Herb Stratum (Plot size: <u>5'-radius</u>)	2	-		UPL species x 5 =
1. Mentha pelugium	50	yes	OBL	Column Totals: (A) (B)
2 Cyperus eragrostis	15	Yes	FACW	
3 Juncus effusus	15	Yes		
4			FACV	Hydrophytic vegetation indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5				X 2 - Dominance Test is >50%
6		83 .		3 - Prevalence Index is ≤3.0 ¹
7		65 .		4 - Morphological Adaptations ¹ (Provide supporting
8			<u></u>	data in Remarks or on a separate sheet)
9.				5 - Wetland Non-Vascular Plants ¹
10				Problematic Hydrophytic Vegetation ¹ (Explain)
11				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:	0	_= Total Co	over	
	-	-		Hydrophytic
2		0		Present? Yes X No
0/ Dana Oraur dia Ulark Stratura		= Total Co	over	
Pomorko:				

Profile Des	cription: (Descril	be to the dep	th needed to docun	nent the i	ndicator	or confirn	n the absence of indicators.)
Depth	Matrix	<u> </u>	Redo	K Features	8		
(inches)	Color (moist)	%	Color (moist)		<u>Type</u>	Loc ²	Texture Remarks
0-6	10 yr 4/1	75	7.5 yr 5/6		<u> </u>	M	Clay loam
· <u> </u>	8 -	(); <u></u> _ (3		
	5 1			·			
	1. 2		7	92 			
	5 .	:: :	;				
	oncentration D=C	enletion RM=	Reduced Matrix CS		or Coate	d Sand G	rains ² Location: PL=Pore Lining M=Matrix
Hydric Soil	Indicators: (App	licable to all	LRRs, unless other	wise note	d.)		Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Redox (S	65)			2 cm Muck (A10)
Histic E	pipedon (A2)		Stripped Matrix	(S6)			Red Parent Material (TF2)
Black H	istic (A3)		Loamy Mucky M	lineral (F1) (except	MLRA 1)	Very Shallow Dark Surface (TF12)
Hydroge	en Sulfide (A4)		Loamy Gleyed I	Matrix (F2)	Ê.		Other (Explain in Remarks)
Deplete	d Below Dark Surf	face (A11)	X Depleted Matrix	(F3)			2
Thick D	ark Surface (A12)	r	Redox Dark Sur	face (F6)	_5		Indicators of hydrophytic vegetation and
Sandy M	Aucky Mineral (S1)	Depleted Dark 8	Surface (F	7)		wetland hydrology must be present,
Sandy C	Sleyed Matrix (S4)		Redox Depress	ions (Fo)			uniess disturbed or problematic.
Tumo	Layer (il present,						
Denth (in			<u></u>				
Deptit (in	ches).		-33				
Remarks:							
HYDROLO	GY						
Wetland Hy	drology Indicato	rs:					
Primary Indi	cators (minimum c	of one required	; check all that apply	ð			Secondary Indicators (2 or more required)
Surface	Water (A1)		Water-Stai	ned Leave	es (B9) (e	xcept	Water-Stained Leaves (B9) (MLRA 1, 2,
X High Wa	ater Table (A2)		MLRA [·]	1, 2, 4A, a	nd 4B)	COMMENTS DESIGN	4A, and 4B)
X Saturati	on (A3)		Salt Crust	(B11)	-		Drainage Patterns (B10)
Water M	1arks (B1)		Aquatic Inv	vertebrates	s (B13)		Dry-Season Water Table (C2)
Sedime	nt Deposits (B2)		Hydrogen	Sulfide Oc	lor (C1)		Saturation Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Oxidized R	hizospher	es along	Living Roo	ots (C3) X Geomorphic Position (D2)
X Algal Ma	at or Crust (B4)		Presence of	of Reduce	d Iron (C4	•)	Shallow Aquitard (D3)
Iron Dep	oosits (B5)		Recent Iro	n Reductio	on in Tille	d Soils (Ce	6) _X FAC-Neutral Test (D5)
Surface	Soil Cracks (B6)		Stunted or	Stressed	Plants (D	1) (LRR A	A) Raised Ant Mounds (D6) (LRR A)
Inundati	on Visible on Aeri	al Imagery (B	7) Other (Exp	lain in Rei	marks)		Frost-Heave Hummocks (D7)
Sparsel	y Vegetated Conc	ave Surface (I	38)				
Field Obser	vations:						
Surface Wat	er Present?	Yes	No <u>X</u> Depth (inc	hes):		_	
Water Table	Present?	Yes X	No Depth (inc	:hes):	8	_	
Saturation P	resent?	Yes X	No Depth (inc	ches):	3	Wetl	land Hydrology Present? Yes X No
Describe Re	corded Data (strea	am gauge, mo	nitoring well, aerial r	hotos, pre	evious ins	pections).	if available:
Remarks:							

Project/Site: APN: 214-142-012	City/County: Humboldt Sampling Date: 1-27-22
Applicant/Owner: Y. Jacobson	State: CA Sampling Point:7
Investigator(s): Kyle Wear	Section, Township, Range: 25, T3S, R3E
Landform (hillslope, terrace, etc.): <u>Terrace</u>	_ Local relief (concave, convex, none): <u>None</u> Slope (%): <u>2</u>
Subregion (LRR): A Lat:	E 432322.0 N 4446950.9 Datum: NAD 83
Soil Map Unit Name: Coyoterock-Yorknorth	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of y	ear?Yes_XNo (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation X_, Soil, or Hydrology naturally pr	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	
Hydric Soil Present? Yes No X	Is the Sampled Area
Wetland Hydrology Present? Yes No X	within a weitand? Yes <u>No X</u>
Remarks: See notes on vegetation below	

VEGETATION – Use scientific names of plants.

	Absolute	Dominan	t Indicator	Dominance Test worksheet:
<u> Tree Stratum</u> (Plot size:)	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1	· — —			That Are OBL, FACW, of FAC: (A)
2			·	Total Number of Dominant
3	· <u> </u>		(<u> </u>	Species Across All Strata: (B)
4			·	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)	l. 	= 10tal Co	over	That Are OBL, FACW, or FAC: (A/B)
1				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species x 1 =
4	98.		55 	FACW species x 2 =
5	········		<u> </u>	FAC species x 3 =
···-		= Total Co	over	FACU species x 4 =
Herb Stratum (Plot size: <u>5'-radius</u>)	-	_ O(U) O	5761	UPL species x 5 =
1. <u>Dactylis glomerata</u>	50	Yes	FACU	Column Totals: (A) (B)
2. Holcus lanatus	10	No	FAC	Prevalence index = B/A =
3. ¹ None flowering grasses and seedlings	30	?	?	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
8				data in Remarks or on a separate sheet)
9				5 - Wetland Non-Vascular Plants ¹
10			() <u> </u>	Problematic Hydrophytic Vegetation ¹ (Explain)
11				¹ Indicators of hydric soil and wetland hydrology must
	100	= Total Co	ver	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				
1			(Hydrophytic
2				Vegetation ¹ χ Present2 Ves No
// Daras Octour die Haak Oktoburg	8	= Total Co	ver	
% Bare Ground In Herb Stratum				
Nerriains.				

¹ Difficult to ID and determine cover of grasses in mid-winter, grasses present as noted by old spikelets include Hordeum marinum (FAC), Briza maxima (UPL), young seedling include Vulpia myuros (FACU), the vegetation is clearly upland grassland. There are also stands of Baccharis pilularis (UPL) in grassland outside plot.

Profile Descr	iption: (Descril	be to the dep	th needed to docu	nent the i	ndicator o	or confirm	n the absence of indicators.)
Depth	Matrix	<u>. </u>	Redo	x Features	5		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc ²	Texture Remarks
0-16	10 yr 2/2		1		12		Clay loam
		224					
	-			122			
	2	(1)					
<u></u>	2	· · · · · · · · · · · · · · · ·	v				<u> </u>
а 3 а				M0	0		a Alla A
	9		. <u> </u>	<u></u>			
					<u> </u>		<u></u>
¹ Type: C=Cor	ncentration, D=D	epletion, RM=	Reduced Matrix, C	S=Coverec	d or Coate	d Sand Gr	rains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil In	dicators: (App	licable to all	LRRs, unless othe	rwise note	ed.)		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)		Sandy Redox (S5)			2 cm Muck (A10)
Histic Epi	pedon (A2)		Stripped Matrix	(S6)			Red Parent Material (TF2)
Black His	tic (A3)		Loamy Mucky I	Mineral (F1) (except	MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen	Sulfide (A4)		Loamy Gleyed	Matrix (F2)		Other (Explain in Remarks)
Depleted	Below Dark Surf	face (A11)	Depleted Matrix	(F3)			
Thick Dar	k Surface (A12)		Redox Dark Su	rface (F6)			³ Indicators of hydrophytic vegetation and
Sandy Mu	ucky Mineral (S1)	Depleted Dark	Surface (F	7)		wetland hydrology must be present,
Sandy Gl	eyed Matrix (S4)	¢	Redox Depress	ions (F8)			unless disturbed or problematic.
Restrictive La	ayer (if present)):					
Туре:							
Depth (incl	nes):						Hydric Soil Present? Yes NoX
Remarks:							
HYDROLOG	θY						
Wetland Hyd	rology Indicato	rs:					
Primary Indica	ators (minimum o	of one required	; check all that appl	y)			Secondary Indicators (2 or more required)
Surface V	Vater (A1)		Water-Sta	ined Leave	es (B9) (e)	cept	Water-Stained Leaves (B9) (MLRA 1, 2,
High Wate	er Table (A2)		MLRA	1. 2. 4A. a	and 4B)		4A. and 4B)
Saturation	n (A3)		Salt Crust	(B11)			Drainage Patterns (B10)
Water Ma	rks (B1)		Aquatic In	vertehrate	s (B13)		Dry-Season Water Table (C2)
Viater Ma	Deposite (B2)		<u> </u>	Sulfide Oc	dor(C1)		Saturation Visible on Aerial Imageny (C9)
Oediment	Deposits (D2)			Duniue Oc	ior (CT) roc olong l	iving Roo	ts (C2) Commerchine Desition (D2)
			Oxidized i		d lean (C4		Shallow Arvitard (D2)
			Presence		u 11011 (C4		Shallow Aquitatu (DS)
					on in Tillec		= FAC-Neutral Test (D5)
Surface S	OII Cracks (Bb)			Stressed	Plants (D	I) (LKK A)) Raised Ant Mounds (D6) (LRR A)
	n Visible on Aeri	al Imagery (B	() Other (Exp	plain in Rei	marks)		Frost-Heave Hummocks (D7)
Sparsely	Vegetated Conc	ave Surface (E	38)				
Field Observa	ations:		V				
Surface Water	Present?	Yes I	No <u>X</u> Depth (in	ches):		_	
Water Table F	Present?	Yes I	No X Depth (in	ches):		_	V
Saturation Pre	esent?	Yes I	No <u>X</u> Depth (in	ches):		Wetla	and Hydrology Present? Yes No
(includes capi	llary fringe)						
Describe Reco	orded Data (stre	am gauge, mo	nitoring well, aerial	photos, pre	evious insp	pections),	If available:
Remarks:							

APPENDIX B Google Earth Images

Site A Google Earth Images





Site D Google Earth Images





Site E Google Earth Images





Site F Google Earth Images





Site G Google Earth Images



