



Wetland Delineation

Manila APNs: 400-031-012 and 400-031-013

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1. INTRODUCTION

This wetland delineation was conducted to determine the types and extent of wetlands on APNs: 400-031-012 and 400-031-013 (property) on Mill Street in Manila to identify constraints for potential development of a single-family residence.

2. DEFINITIONS

2.1. Wetlands

Because the project is in the coastal zone, the California Coastal Commission (CCC) and Army Corps of Engineers (Army Corps) wetland definitions were considered when making the wetland determination.

The CCC defines wetlands broadly as:

"Wetland means lands within the Coastal Zone which may be covered periodically or permanently with shallow water and include saltwater marshes, freshwater marshes, open or closed brackish water marshes, swamps, mudflats, and fens."

CCC Administrative Regulations (Section 13577 (b)) provides a more specific definition:

"Wetlands are lands where the water table is at, near, or above the land surface long enough to promote the formation of hydric soils or to support the growth of hydrophytes, and shall also include those types of wetlands where vegetation is lacking and soil is poorly developed or absent as a result of frequent or drastic fluctuations of surface water levels, wave action, water flow, turbidity or high concentrations of salt or other substance in the substrate. Such wetlands can be recognized by the presence of surface water or saturated substrate at some time during each year and their location within, or adjacent to, vegetated wetlands or deepwater habitats."

The CCC considers this definition as requiring the observation of only one indicator from any one wetland parameter (hydrophytic vegetation, hydric soil, or wetland hydrology) to make a positive wetland determination.

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."

The Army Corps definition requires at least one indicator of each of the three wetland parameters to make a positive wetland determination.

2.2. Environmentally Sensitive Habitat Area (ESHA)

Wetlands are considered ESHA by Humboldt Bay Local Coastal Plan (LCP) and the California Coastal Act (CCA). The CCA defines ESHA as:

"... any area in which plant or animal life or their habitats are either rare or especially valuable because of their special nature or role in an ecosystem and which could be easily disturbed or degraded by human activities and developments."

3. ENVIRONMENTAL SETTING

3.1. Project Location

The property in located on Mill Street in Manila on the Eureka USGS quadrangle (Section 3, T5N, R1W) (Figure 1).

3.2. Soil, Topography, and Hydrology

The soil mapped on the property is Urban land-Anthraltic Xerorthents association (USDA, NRCS 2022). The soil is derived from fluviomarine deposits and/or dredge material. The soil has a non-hydric soil rating. The parcel is relatively flat, the elevation ranges from approximately 13-17 feet above sea level. There is drainage ditch that extents from a culvert under Mill Street through the northern portion of the property.

4. METHODS

The wetland delineation was conducted by Kyle Wear, M.A. on July 4, 2022. Mr. Wear has over 25 years of experience conducting botanical surveys, wetland delineation, and other biological work in northern California and is trained in wetland delineation by the Wetland Training Institute.

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). Four Sample Points were evaluated for hydrophytic vegetation, hydric soil, and wetland hydrology (Appendix A).

5. RESULTS AND DISCUSSION

All of the property has hydrophytic vegetation and meets a one-parameter wetland definition and is considered ESHA by the CCA and LCP (Figure 2). The undisturbed vegetation includes a canopy of Hooker's willow (Salix hookeriana [FACW]). Wax myrtle (Morella californica [FACW]) is also common. Dominant understory plants include slough sedge (Carex obnupta [OBL]), California blackberry (Rubus ursinus [FACU]), Himalayan blackberry (Rubus armeniacus [FAC]), and hedge nettle (Stachys chamissonis [FACW]). There are no hydric soil or wetland hydrology indicators.

General Location MUE **Project Location** MUD 0.5 1 Miles

Figure 1. Location Map.



Figure 2 (Revised). ESHA Map.

There is an approximately 5-foot-wide ditch through the northern part of the property that has all three wetland parameters. Plants associated with ditch include Pacific water-parsley (Oenanthe sarmentosa [OBL]), giant horsetail (Equisetum telmateia ssp. braunii [FACW]), American brooklime (Veronica americana [OBL]), slough sedge (Carex obnupta [OBL]), and lady fern (Athyrium filix-femina [FAC]). The soil includes redox features below 5 inches and meets hydric soil indication S5 (Sandy Redox). There was no surface water, ground water, or saturated soil during the July field work, but there are several other primary indicators of wetland hydrology including B2 (Sediment Deposits), B5 (Iron Deposits), and B9 (Water-Stained Leaves). Based on elevation it appears water flows through a culvert under Mill Street and east towards Humboldt Bay.

6. RECOMMENDATIONS

The CCA and LCP limit the types of development in ESHA to only those dependent on the resource such as hiking trails. However, when impacts cannot be avoided to develop the property consistent with its principally intended use, development may be allowed in the ESHA if the project can be shown to be the "least environmentally damaging alternative." This is

often determined by conducting an "alternatives analysis" of different development scenarios on the property, including a no project alternative. The southwest corner of the property is likely the least environmentally damaging location on the parcel to construct a single-family residence. The area is already disturbed and would require the least amount of vegetation clearing and would not impact the three-parameter wetland. The unpermitted fence prevents trespass and dumping on the parcel and is beneficial to retain until there are more formal development plans.

7. REFERENCES

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APPENDIX A Wetland Determination Data Forms

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

Project/Site:	APN: 400-03	31-013		City/C	ounty:		Humbold	t	Sampling	Date:	7-4-22
Applicant/Owner:							State:				
Investigator(s):									, ,		
Landform (hillslope, t	errace, etc.):	Ditch		Local	relief	(concave.	convex, none)	cond	ave	Slop	e (%)· 0
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Are Vegetation							eded, explain				
SUMMARY OF F											atures. etc.
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Remarks:											
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VEGETATION	Ose scientific	names or pr	Absolute	Dom	ninant	Indicator	Dominance	Test works	sheet:		
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2							Total Numb	er of Domina	ant	6	
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7								phological A in Remarks			de supporting
8								land Non-Ve		•	sneet)
9								natic Hydrop			(Evolein)
10						-		of hydric soil			
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2							Vegetation Present?	Yes	X	No	
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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site:	APN: 400-03	31-013		City/Cou	nty:	Hum	nboldt	Sampling	Date:	7-4-22
Project/Site:	D. Muchiru				-		State: CA	Sampling	Point:	2
Investigator(s):									-	· · · · · · · · · · · · · · · · · · ·
Landform (hillslope,					-				Slon	ne (%): 0
Subregion (LRR):										
Soil Map Unit Name:										
Are climatic / hydrolo										
Are Vegetation								-	v V	NI-
Are Vegetation							explain any ans			NO
SUMMARY OF										atures etc
	ation Present?			,				, p		
Hydric Soil Present		Yes		l l		npled Area			V1	
Wetland Hydrology	Present?			W	ithin a W	/etland?	Yes	No_		
Remarks:	_								***************************************	
i M€	eets one parar	neter wetlan	d definitio	on						
VEGETATION -	Use scientific	names of pla	nts.	***************************************						
Troe Stratum (Die	t size:	\ \	Absolute		ant Indica		inance Test w	orksheet:		
	t size					- INUITI	ber of Dominan Are OBL, FAC\		4	/A\
								·		(A)
							Number of Dor iles Across All S		5	(B)
								•	Min.	
						Perc	ent of Dominant Are OBL, FAC\		80) (A/B)
	tum (Plot size: 2			Va	- FAC	N/ Prev	alence Index v	vorksheet:		
	iana						Total % Cover o	of:	Multiply	<i>t</i> by:
	fornica					W OBL	species	x 1	=	
							W species			
5.						- 1	species			
			50	_= Total	Cover	1	U species			
	t size: <u>10-ft rad</u>	<u>ius</u>)				II	species			
1 Hedera helix					<u>FACU</u>		mn Totals:	(A)		(B)
2. Stachys cha			<u>10</u> 10		s FAC		Prevalence Inc	dex = B/A = .	-	
3. Rubus arme				Yes		—— myar	ophytic Veget	ation Indicat	ors:	
4. Equisetum		· · · · · · · · · · · · · · · · · · ·			FAC	_ _	1 - Rapid Test f	- , -	s Vegeta	ıtion
							2 - Dominance			
						1	3 - Prevalence I		,	
						 '	4 - Morphologic	al Adaptation: arks or on a s	s' (Provid enarate	de supporting
						 ;	5 - Wetland Nor			3110017
							Problematic Hy			(Explain)
						**********	cators of hydric			
				_= Total (Cover		resent, unless d			
Woody Vine Stratur	m (Plot size:		·	-				<u> </u>		
							rophytic			
2							etation ent?	Yes X	No	
% Bare Ground in I	Herb Stratum			_= Total (Cover					
Remarks:										***.

SOIL								Sampling Point:2
Profile Desc	ription: (Describe	to the dept	h needed to docur	nent the l	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix			x Features				
(inches)	Color (moist)	%	Color (molst)		Type ¹	Loc ²	Texture	Remarks Remarks
0-3	Organic Matte			-				
3-11	10yr 2/2	100					Sand	
11-14	10yr 2/2	90	7.5yr 4/6	10	C	M		
		-						
**************************************		· ····································		-		-		
				-	······································			
				· ———			w//	
	oncentration, D=Dep					d Sand Gr		ocation: PL=Pore Lining, M=Matrix.
	ndicators: (Applic	able to all L	•		ed.)			ors for Problematic Hydric Solls ³ :
Histosol	(A1) ipedon (A2)	-	Sandy Redox (8	•				m Muck (A10)
Black His		-	Stripped Matrix Loamy Mucky N) (evcent	MIRA1)		d Parent Material (TF2) ry Shallow Dark Surface (TF12)
	n Sulfide (A4)	-	Loamy Gleyed					ner (Explain in Remarks)
	l Below Dark Surfac	e (A11)	Depleted Matrix		•			,
	rk Surface (A12)	_	Redox Dark Su				³ Indicat	ors of hydrophytic vegetation and
	ucky Mineral (S1)	-	Depleted Dark \$,	7)			and hydrology must be present,
	leyed Matrix (S4) ayer (if present):		Redox Depress	ions (F8)			unle	ss disturbed or problematic.
Type:	.ayer (II present).							
Depth (inc							Usedala Cal	t Dunnaut 2 Van N. X
Remarks:	, nes).						Hydric Sol	Present? YesNo X
HYDROLOG	GY				-			
Wetland Hyd	Irology Indicators:							
Primary Indic	ators (minimum of o	ne required:	check all that apply	/)			Seco	ondary Indicators (2 or more required)
Surface \	Water (A1)		Water-Stai	ned Leave	s (B9) (e	xcept	\	Water-Stained Leaves (B9) (MLRA 1, 2,
High Wat	ter Table (A2)		MLRA '	1, 2, 4A, a	nd 4B)			4A, and 4B)
Saturatio			Salt Crust					Orainage Patterns (B10)
Water Ma			Aquatic Inv					Ory-Season Water Table (C2)
	t Deposits (B2)		Hydrogen		. ,			Saturation Visible on Aerial Imagery (C9)
	osits (B3)							Geomorphic Position (D2)
	t or Crust (B4) osits (B5)		Presence o		•	•		Shallow Aquitard (D3) FAC-Neutral Test (D5)
	Soll Cracks (B6)		Stunted or					Raised Ant Mounds (D6) (LRR A)
	on Visible on Aerial I	magery (B7)				1) (EIXIX PA)		Frost-Heave Hummocks (D7)
	Vegetated Concave				riariio,		······ '	TOSK TOUVE THIMMOOKS (DT)
Field Observ		· · · · · · · ·	, , , , , , , , , , , , , , , , , , , ,					
Surface Wate	r Present? Y	es N	o_X_ Depth (inc	:hes):				
Water Table I	Present? Y	es N	o_X Depth (inc	hes):				
Saturation Pre	esent? Y	es N	o_XDepth (inc				nd Hydrolog	gy Present? YesNo_X
(includes cap	mary minge)							
Describe Rec	orded Data (stream	gauge, mon	itoring well, aerial p	notos, pre	evious ins	pections), i	f available:	
Remarks:								
Nomains,								

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

Project/Site: APN: 400-031-013 City/County: Humboldt Sampling Date: 7-4-22 Applicant/Owner: D. Muchiru State: CA Sampling Point: 3 Investigator(s): K. Wear Section, Township, Range: 3, T5N, R1W Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 0 Subregion (LRR): A Lat: N 4523106.5 Long: E 402151.9 Datum: NAD Soll Map Unit Name: Urban land-Anthraltic Xerorthents association NWI classification:	83
Investigator(s): K. Wear Section, Township, Range: 3, T5N, R1W Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 0 Subregion (LRR): A Lat: N 4523106.5 Long: E 402151.9 Datum: NAD	83
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 0 Subregion (LRR): A Lat: N 4523106.5 Long: E 402151.9 Datum: NAD	83
Subregion (LRR): A Lat: <u>N 4523106.5</u> Long: <u>E 402151.9</u> Datum: <u>NAD</u>	83
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 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, e	tc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes No X Is the Sampled Area	
Wetland Hydrology Present? Yes NoX within a Wetland? Yes NoX1	
Remarks:	
¹ Meets one parameter wetland definition	
VEGETATION – Use scientific names of plants.	
Absolute Dominant Indicator Tree Stratum (Plot size:)	
1 Number of Dominant Species 5 That Are OBL, FACW, or FAC: (A)	
3 Total Number of Dominant 7 Species Across All Strata: (B)	
4. Percent of Dominant Species 71	
Sapling/Shrub Stratum (Plot size: 20-ft radius = Total Cover That Are OBL, FACW, or FAC: (A/I	3)
1 Salix hookeriana 30 Yes FACW Prevalence Index worksheet:	
2 Morella californica 10 Vos FACM Total % Cover of: Multiply by:	
OBL species x1 =	
A PACW Species X 2 =	
5 FAC species x 3 = FACU species x 4 =	
Herb Stratum, (Plot size: 10-ft radius) 40 = Total Cover UPL species	
Carex obnupta 20 Yes OBL Column Totals: (A) (B	3)
a Rubus armeniacus 10 Vos EAC	<i>'</i>
3. Stachys chamissonis 10	
4. Rubus ursinus 10 Yes FACU 1 - Rapid Test for Hydrophytic Vegetation	
5. Hedera helix 10 Yes FACU X 2 - Dominance Test is >50%	
6 3 - Prevalence Index is ≤3.0 ¹	
7 4 - Morphological Adaptations¹ (Provide supporti	ng
8 data in Remarks or on a separate sheet)	
9 5 - Wetland Non-Vascular Plants ¹ 10 5 - Wetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation ¹ (Explain)	
11. Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot size;)	
1 Hydrophytic	
2	
= I Olai Cover	
% Bare Ground in Herb Stratum	

SOIL		Sampling P	oint:3

Depth (inches)	Color (moist)	%	Redox Features Color (moist) % Type Loc²	
			Color (molar) 70 Type Loc	Texture Remarks
	rganic Matter			
3-16	10yr 3/3	_ 100_		Sand
	feet and the second of the sec		The state of the s	Maria de la compania del compania del compania de la compania del la compania de la compania della compania del
1Tuno: C=C	opposite tion D-D	nletion PM	=Reduced Matrix, CS=Covered or Coated Sand Gr	rains. ² Location: PL=Pore Lining, M=Matrix.
			LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Solis ³ :
Histosol			Sandy Redox (S5)	2 cm Muck (A10)
	oipedon (A2)		Stripped Matrix (S6)	Red Parent Material (TF2)
	istic (A3)		Loamy Mucky Mineral (F1) (except MLRA 1)	
	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
	d Below Dark Surfa	ice (A11)	Depleted Matrix (F3)	_ (,,,
	ark Surface (A12)	. ,	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy N	lucky Mineral (S1)		Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy G	Bleyed Matrix (S4)		Redox Depressions (F8)	unless disturbed or problematic.
Restrictive	Layer (if present):			
Туре:				.,
Depth (in	ches):			Hydric Soll Present? Yes No _X
Remarks:			The second secon	All the same of th
HYDROLO	GY			
HYDROLO Wetland Hy	GY drology Indicators	S:		
Wetland Hy	drology Indicator		d; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hye Primary India	drology Indicators cators (minimum of			Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1 2
Wetland Hy Primary India Surface	drotogy Indicators cators (minimum of Water (A1)		Water-Stained Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hy Primary India Surface High Wa	drology Indicators eators (minimum of Water (A1) ater Table (A2)		Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hyder Primary Indice Surface High Wa	drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3)		Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hy Primary India Surface High Wa Saturatia Water M	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1)		Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hyderimary India Surface High Water Water M Sedimer	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)		 Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hyden Primary India Surface High Was Saturation Water M Sedimer Drift Dep	drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B2) oosits (B3)		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 Roce	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2)
Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma	drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) at Deposits (B2) posits (B3) at or Crust (B4)		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)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydelight Primary India Surface High Water Mater Material Mat	drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5)		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)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5)
Wetland Hydelight Primary India Surface High Water Management Sedimer Drift Dep Algal Management Surface Surface	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6)	one require	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 Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydelight Primary India Surface High Water Management Sedimer Drift Dep Algal Mater Management Iron Dep Surface Inundati	drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aeria	one require	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 Roce 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) Ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5)
Wetland Hy Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati Sparsely	drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeria y Vegetated Conca	one require	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 Roce 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) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydeligh Water Manager	drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeria y Vegetated Conca	one require	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 Roce 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) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydelight Primary India Surface High Water Management Sedimer Drift Dep Algal Management Iron Dep Surface Inundati Sparsely Field Obsert	drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeria y Vegetated Conca vations: er Present?	i Imagery (B ve Surface (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 Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydeligh Water Manager	drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeria y Vegetated Conca vations: er Present?	i Imagery (B ve Surface (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 Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) S) X FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hyderimary India Surface High Water Management Sedimer Drift Dep Algal Management Iron Dep Surface Inundati Sparsely Field Obser Surface Water Table Saturation Per Surface Pattern Surface Water Table	drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeria y Vegetated Conca vations: er Present? Present?	i Imagery (B ve Surface (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 Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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Wetland Hyderimary India — Surface — High Water Management of the Sedimer of the Depth of the Surface of the Surface of the Surface water Table of the Saturation Products of the Satu	drology Indicators eators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aeria y Vegetated Conca vations: er Present? Present? resent?	I Imagery (B ve Surface (Yes Yes	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 Roce Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Shallow Aquitard (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes NoX
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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: APN: 400-031-013 City/County: Humboldt Sampling Date: 7-4-2 Applicant/Owner: D. Muchiru State: CA Sampling Point: 4 Investigator(s): K. Wear Section, Township, Range: 3, T5N, R1W	
Investigator(s): K. Wear Section, Township, Range: 3, T5N, R1W	
Landform (hillstope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%):	0
Subregion (LRR): A Lat: N 4523108.5 Long: E 402116.6 Datum: NA) 83
Soil Map Unit Name: Urban land-Anthraltic Xerorthents association 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 Hydrologysignificantly disturbed? Are "Normal Circumstances" present? Yes X No	
Are Vegetation, Soil, or Hydrologynaturally 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 X No	
Hydric Soil Present? Wetland Hydrology Present? Yes NoX	
Wetland Hydrology Present? Yes NoX Within a Wetland? Remarks:	
¹ Meets one parameter wetland definition	
VECTATION Lie asignificant and the second of plants	
VEGETATION – Use scientific names of plants.	
Absolute Dominant Indicator Tree Stratum (Plot size:)	
Number of Dominant Species 3	A)
2	,
1 n	B)
4 Percent of Dominant Species	
T-t-1 O-1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A/B)
1 Salix hookeriana 20 Yes FACW Prevalence Index worksheet:	
2	
3. OBL species x1 =	
FACW species X2 =	
5 FAC species x 3 = FACU species x 4 =	
<u>Herb Stratum</u> (Plot size: 10-ft radius) = Total Cover x = _ _ _ _ _	
1. Rubus armeniacus 10 Yes FAC Column Totals:(A)	(B)
Foreign to location 100 Viv. FACIAL	()
2. Equisetum teimateia 10 Yes FACW Prevalence Index = B/A = 10 Yes FACU Hydrophytic Vegetation Indicators:	
4 1 - Rapid Test for Hydrophytic Vegetation	
5 X 2 - Dominance Test is >50%	
6 3 - Prevalence Index is ≤3.0 ¹	
7 4 - Morphological Adaptations¹ (Provide support	rting
8 data in Remarks or on a separate sheet)	
9 5 - Wetland Non-Vascular Plants ¹	
10 Problematic Hydrophytic Vegetation¹ (Explain 11 Indicators of hydric soil and wetland hydrology mu	
11. Solution 21. S	Sī
Woody Vine Stratum (Plot size:)	
1 Hydrophytic	
Vegetation	
= Total Cover Present? Yes _ ^ No	
% Bare Ground in Herb Stratum	

OIL									npling Point	:4
Profile Desc	ription: (Describ	e to the de	pth needed	to document the	Indicator	or confirm	the absence	of indicator	s.)	
Depth <u>Matrix</u> (inches) Color (moist)				Redox Featur	es					
(inches)		<u>%</u>	Color (m	noist) %	Type ¹	Loc ²	Texture		Remarks	
0-16	10yr 3/3	100					Sand			
	le-				_					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							<u> </u>			

						-				
			·							
Type: C=Co	oncentration, D=De	epletion, RN	M=Reduced M	Matrix, CS=Covere	ed or Coate	ed Sand Gra	ains. ² Loc	ation: PL=P	ore Lining. N	Л=Matrix.
	ndicators: (Appli							rs for Proble		
Histosol	(A1)		Sandy	Redox (S5)			2 cm	n Muck (A10)		
	ipedon (A2)			ed Matrix (S6)				Parent Mate	. ,	
Black His				Mucky Mineral (F		t MLRA 1)		Shallow Dai		ΓF12)
	n Sulfide (A4) I Below Dark Surfa	oo (A11)		Gleyed Matrix (F ed Matrix (F3)	·2)		Othe	er (Explain in	Remarks)	
	rk Surface (A12)	ice (ATT)		eu Mairix (F3) Dark Surface (F6	3)		3Indicato	rs of hydroph	vtic vecetati	ion and
	lucky Mineral (S1)			ed Dark Surface (•			nd hydrology		
	leyed Matrix (S4)			Depressions (F8)					r problemati	•
					,					
	.ayer (if present):		······································		<i>,</i>					
Restrictive L	.ayer (if present):				/					
Restrictive L			3.00-made database at		,		Hydric Soil		Yes	
Restrictive L Type: Depth (inc					,				Yes	
Restrictive L Type: Depth (ind Remarks:	ches):				,				Yes	
Type:	ches): GY Irology Indicators	5;			,		Hydric Soil	Present?		No X
Restrictive L Type: Depth (inc Remarks: YDROLOG Wetland Hyd	ches): GY Irology Indicators ators (minimum of	5;	ed; check all t	ihat apply)			Hydric Soil	Present?	ors (2 or mor	No X
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Type:	GY Irology Indicators ators (minimum of Water (A1) ter Table (A2)	5;	ed; check all t W	that apply) (ater-Stained Lea MLRA 1, 2, 4A,	ves (B9) (e	except	Hydric Soil Secon	Present? dary Indicate fater-Stained 4A, and 4E	ors (2 or mor Leaves (B9	No X
Type: Depth (ind Remarks: YDROLOG Wetland Hyd Primary Indic Surface N High Wat Saturatio	GY Irology Indicators ators (minimum of Water (A1) ter Table (A2) on (A3)	5;	ed; check all t	that apply) /ater-Stained Lea MLRA 1, 2, 4A, alt Crust (B11)	ves (B9) (e and 4B)	except	Hydric Soil Secon W	Present? dary Indicate fater-Stained 4A, and 4E rainage Patte	ors (2 or mor Leaves (B9 i) erns (B10)	e required)
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Type:	ches):	5;	ed; check all t — W — Si — Ai — H: — O: — Pi — Ri	that apply) fater-Stained Lear MLRA 1, 2, 4A, alt Crust (B11) quatic Invertebrat ydrogen Sulfide C xidized Rhizosphoresence of Reduce	ves (B9) (e and 4B) es (B13) Odor (C1) eres along ced Iron (C4) tion in Tille	Living Root 4) d Soils (C6)	Hydric Soil	Present? Adary Indicate Ater-Stained AA, and 4E rainage Patte ry-Season Waturation Visi eomorphic P hallow Aquita	Drs (2 or mor Leaves (B9) Frns (B10) Vater Table (Vater Table (D2) Solition (D2) Fard (D3) Fest (D5)	re required)) (MLRA 1, 2
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Remarks:



2021 5th St Ste C Eureka, CA, 95501 (707) 445-3334

Terminal: 5108M600MIX01

1/21/2023 17:47

Receipt #: 5108B2M1899

Type: Purchase

Qty	Description	1	Amount
3	PNG Color S/S 8.5x11 &		1.92
13	8.5x14 PNG B&W S/S 8.5x11 & 8.5x14		2.21
	*	~.	
	SubTotal		4.13
	District tax		0.08
	City tax		0.00
	County tax		0.05
	State tax		0.25
	Total	USD	\$4.51

Acct #:**********0796

VISA DEBIT Chip Read

Auth No.: 094620 Mode: Issuer

AID: A000000031010

NO CVM

CVM Result: 5F0002 TVR: 8000008000 IAD: 06011203608000

TSI: 6800 ARC: 00 APPROVED

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