

**RESOLUTION OF THE ZONING ADMINISTRATOR
OF THE COUNTY OF HUMBOLDT**

Resolution Number 25-032

**COASTAL DEVELOPMENT PERMIT
PROJECT NUMBER PLN-2023-18080
ASSESSOR PARCEL NUMBER 400-031-013**

**MAKING THE REQUIRED FINDINGS FOR CERTIFYING COMPLIANCE WITH THE CALIFORNIA
ENVIRONMENTAL QUALITY ACT AND CONDITIONALLY APPROVING THE MUCHIRU
COASTAL DEVELOPMENT PERMIT**

WHEREAS, the owner submitted an application and evidence in support of approving a Coastal Development Permit; and

WHEREAS, the County Planning Division has reviewed the submitted application and evidence and has referred the application and evidence to involved reviewing agencies for site inspections, comments and recommendations; and

WHEREAS, the Planning Division as the Lead Agency has determined that the project qualifies for a categorical exemption found in Section 15303 (New Construction or Conversion of Small Structures) of the CEQA Guidelines; and

WHEREAS, the Planning Division staff report includes evidence in support of making all of the required findings for approving the Coastal Development Permit (Case Number PLN-2023-18080); and

WHEREAS, the Humboldt County Zoning Administrator held a duly-noticed public hearing on April 03, 2025, and reviewed, considered, and discussed the application for a Coastal Development Permit and reviewed and considered all evidence and testimony presented at the hearing; and

NOW, THEREFORE, be it resolved, determined, and ordered by the Zoning Administrator that:

FINDINGS FOR COASTAL DEVELOPMENT PERMIT

1. FINDING: A Coastal Development Permit (CDP) to construct a perimeter fence along the property boundary, as well as an unpermitted portion of fence that exists along approximately 25% of the property boundary. The CDP will remedy Code Enforcement Record Number CE21-0989. The property is located in the Coastal Zone and within a wetland ESHA. The fence was constructed to prevent public access onto the property and is needed to prevent litter and waste from accumulating via illegal dumping. There is no residential development on the parcel but it is served by the Manila CSD.

EVIDENCE: a) Project File: PLN-2023-18080

2. FINDING: CEQA: The requirements of the California Environmental Quality Act have been met. The Humboldt County Zoning Administrator has considered the project and finds the proposed project is exempt from environmental review pursuant to Section 15303 (New Construction or Conversion of Small Structures) of the State CEQA Guidelines.

EVIDENCE: a) The Class 3 exemption consists of construction and location of limited numbers of new, small facilities or structures; installation of small new equipment and facilities in small structures; and the conversion of existing small structures from one use to another where only minor modifications are made in the exterior of the structure.

b) A project can be disqualified from using a Categorical Exemption if any of the exceptions listed in 15300.2 apply, however, none of these exceptions apply to the proposed project.

3. FINDING: The proposed development is in conformance with all applicable policies and standards in the Humboldt Bay Area Plan.

EVIDENCE: a) §3.11 Urban Limit – The proposed development is located contiguous with existing developed areas able to accommodate it and will not have significant adverse effects on coastal resources. There are no residences on the property but the property is served by Manila CSD (water and sewer) and is designated Residential Low Density (RL) with a density of 3-7 units per acre. Construction of a perimeter fence is a permitted use and will not have any impact on the carrying capacity of nearby roads and/or access corridors.

b) §3.16 Housing – The proposed construction of a perimeter fence does not have any impact on the potential to establish housing opportunities on this property and will not directly impact the official County Housing Inventory.

c) §3.17 Hazards – Per review of WebGIS, the subject parcel is located in an area of relative stability, with slopes on the parcel below 15%. The site is not located within any earthquake fault hazard zones but is within an area of potential liquefaction. The project site is located in a tsunami hazard area; site does not reside within an area susceptible to coastal inundation related to sea level rise (1 meter) and the parcel is not located within a FEMA 100-year Flood Zone.

The subject parcel is located within a Local Responsibility Area for fire protection and is served by the Arcata Fire Protection District, who provides structural fire protection as well as responding to medical emergencies. Construction of a perimeter fence will not have any impacts to the stability of the site or adjacent areas, nor contribute to potential hazardous situations. No residential development is proposed as part of this project.

d) §3.18 Archaeological and Paleontological Resources – The project was referred to NWIC, the Wiyot Tribe, Blue Lake Rancheria and the Bear River Band of the Rohnerville Rancheria. There were no initial concerns with the project details, however inadvertent archaeological discovery protocols were requested to be in place for any ground-disturbing activities that may take place and are conditioned

in Attachment 1A. There are no historic buildings or other artifacts that will be impacted by the proposed project.

e) §3.30 Natural Resources – The CNDDDB identifies the western bumble bee and western snowy plover as potentially present on the applicant's property, however, the property is adjacent to residential development and too far from habitat that would be suitable for snowy plovers. The footprint of a fence is not expected to have any significant impacts on potential western bumble bee habitat or populations.

The property is also mapped primarily as wetland habitat and is contiguous with a natural wetland area adjacent to Manila Park. In subsections 30240 (a) and (b), ESHA's are afforded protection from potential development in order to avoid significant disruption of habitat values and to prevent impacts that would significantly degrade such areas.

The property in question lies adjacent to Mill Street. There is a roughly 6-foot vegetated shoulder separating the paved surface of Mill Street from the wetlands, which are roughly 4 feet below the elevation of the street. Presently, there is a large amount of dumping that occurs due to the lack of any barrier between the road/shoulder and wetland below, allowing vehicles to approach the drop-off to the wetland and unload their waste with ease.

Despite the entirety of the fence proposed to be located either within the wetland buffer or traversing areas of the ESHA, the proposed alignment will serve as a protective device for the wetland as it will prevent illegal dumping and trespassing onto the property, which has caused substantial damage to habitat values over the past couple of years. The proposed fencing would not impede the natural drainage of the wetland. Both the CA Coastal Commission and CDFW provided comments that support the construction of the proposed fence as it will provide protection to the wetlands that will otherwise not be provided.

- f) §3.40 Visual Resources – The proposed project is not within a Coastal Zone Scenic View Area, nor within a Coastal Zone Scenic Area, as depicted on the County's GIS database, therefore there will be no visual impact concerns. The proposed construction of a perimeter fence will not cause detrimental physical alterations to the land that may impact any views or visual compatibility with the neighborhood.
- g) §3.50 Access – The proposed project will not interfere with right of access to the sea, as there are no coastal access points on the subject parcel.
- h) §4.10 Land Use – The Residential Low-Density designation allows the development of homeowner residential uses making conservative use of urban land where adequate services are available. While there is not a residence on the property, Manila CSD provides sewer and water service to the site.

4. FINDING:

§313-6.1 Residential Single Family – The proposed development is consistent with the purposes of the Residential Single Family (RS-5) zone, as well as the Manufactured Homes (M) and Coastal Wetland Areas (W) combining zones in which the site is located.

EVIDENCE:

- a) The subject parcel has been determined to be one legal parcel as Lot 8A of Lot 1 Bayshore Acres in BK 12 Maps Pages 85-86.
- b) Residential Single Family is a principally permitted use within the RS-5 zone, and a perimeter fence is an allowable development pertinent to a residential structure.
- c) The proposed project consists of constructing a fence measuring 6 feet tall which is not considered a structure in terms of setbacks and density requirements.
- d) "M" combining zone allows for the development of a manufactured home however there are no residential elements associated with the proposed project.

e) "W" combining zone provides that any development in coastal wetlands will not degrade the wetland but will maintain optimum populations of marine or freshwater organisms and, where feasible, will enhance wetland resources. Despite the entirety of the proposed fence to be located either within the wetland buffer or traversing areas of the ESHA, the proposed alignment will serve as a protective device for the wetland as it will prevent illegal dumping and trespassing onto the property, which has caused substantial damage to habitat values. The proposed fencing would not impede the natural drainage of the wetland, does not include dredging, diking or filling, and thus does not require mitigation measures. Both the CA Coastal Commission and CDFW provided comments that support the construction of the proposed fence as it will provide protection to the wetlands that will otherwise not be provided.

5. FINDING:

§312-17.1.4 Public Health, Safety and Welfare – There is no indication that the proposed construction of a perimeter fence will be detrimental to the public health, safety, or welfare or materially injurious to properties or improvements in the vicinity.

EVIDENCE:

a) The proposed project includes the construction of a perimeter fence and complies with all development standards of the zone district. No detrimental conditions to public health, safety or welfare have been identified nor is the proposed project expected to have a detrimental effect on neighboring property values.

6. FINDING:

§312-17.1.5 Housing Element Densities – The proposed project will not reduce the residential density of this parcel.

EVIDENCE:

a) The parcel is currently listed as Residential Low Density under the Humboldt Bay Area Plan and was included in the County's Housing Element Inventory; the proposed project would not change or modify the possibility of meeting the goals established by the County's housing inventory and is consistent with the goals, policies, and standards of the Humboldt County Housing Element.

SUPPLEMENTAL COASTAL RESOURCE PROTECTION IMPACT FINDINGS

7. FINDING: §312-39.8 Coastal Natural Drainage Courses – The proposed alignment of the fence will not impede the natural drainage pattern or have significant adverse effects on water quality or wildlife habitat.

EVIDENCE: a) The proposed fence will be located above the drainage feature within the wetland area on the property. Gaps between sections of fence, as well a gap beneath the fence line will allow for passage of wildlife. The overall footprint of the fence will not have negative impacts on the wetland habitat.

8. FINDING: §312-39.14 Coastal Wetland Areas – There is no less environmentally damaging feasible alternative than the proposed fence.

EVIDENCE: a) The proposed project is sited and designed to prevent impacts which would significantly degrade wetland habitat areas. By providing a barrier between the road and the wetland area, dumping into and trampling of wetland vegetation will be greatly reduced. Boulders, bollards, signage, and other similar treatments would not provide an adequate barrier to prevent dumping and trespassing activities.

DECISION

NOW, THEREFORE, based on the above findings and evidence, the Humboldt County Zoning Administrator does hereby:

1. Adopts the findings set forth in this resolution; and
2. Conditionally approves the Coastal Development Permit (Record Number: PLN-2023-18080), and subject to the recommended conditions of approval attached hereto as Attachment 1A.

Adopted after review and consideration of all the evidence on **April 03, 2025**.

I, John H. Ford, Zoning Administrator of the County of Humboldt, do hereby certify the foregoing to be a true and correct record of the action taken on the above-entitled matter by said Zoning Administrator at a meeting held on the date noted above.



John H. Ford, Director
Planning and Building Department

ATTACHMENT 1A
CONDITIONS OF APPROVAL

Approval of the Coastal Development Permit is conditioned upon the following terms and requirements which must be fulfilled.

1. All development shall be in accordance with approved project plans. Changes to the approved design may be approved if in conformance with Section 312-11 - Minor Deviations.
2. The property owner affirms that the northern section of fence along Mill Street is located in the County's right of way. Should frontage improvements by the County be planned in the future, owner agrees to remove and/or replace the fence to accommodate the associated improvements, at owner's expense.
3. Construction of the fence along Mill Street shall allow unobstructed access to the culvert at the northwest corner of the property for maintenance and other work by County and authorized personnel.
4. Pursuant to County Code §411-11 (a) & (b), an encroachment permit for all work within the right of way of Mill Street (a County maintained road) is required from Humboldt County Public Works prior to construction of the fence.
5. Vegetation along Mill Street shall be kept trimmed to the fence line to retain appropriate site lines and public safety.

Informational Notes:

1. The applicant is responsible for receiving all necessary permits and/or approvals from other state and local agencies.
2. This permit shall expire and become null and void at the expiration of one (1) year after all appeal periods have lapsed (see "Effective Date"); except where construction under a valid building permit or use in reliance on the permit has commenced prior to such anniversary date. The periods within which construction or use must be commenced may be extended as provided by Section 312-10.5 of the Humboldt County Code.

3. The applicant is required to pay for permit processing on a time and material basis as set forth in the schedule of fees and charges as adopted by ordinance of the Humboldt County Board of Supervisors. The Department will provide a bill to the applicant after the decision. Any and all outstanding Planning fees to cover the processing of the application to decision by the Hearing Officer shall be paid to the Humboldt County Planning Division, 3015 "H" Street, Eureka.
4. If cultural resources are encountered during construction activities, the contractor on site shall cease all work in the immediate area and within a 50-foot buffer of the discovery location. A qualified archaeologist as well as the appropriate Tribal Historic Preservation Officer(s) are to be contacted to evaluate the discovery and, in consultation with the applicant and lead agency, develop a treatment plan in any instance where significant impacts cannot be avoided.

The Native American Heritage Commission (NAHC) can provide information regarding the appropriate Tribal point(s) of contact for a specific area; the NAHC can be reached at 916-653-4082. Prehistoric materials may include obsidian or chert flakes, tools, locally darkened midden soils, ground stone artifacts, shellfish or faunal remains, and human burials. If human remains are found, California Health and Safety Code 7050.5 requires that the County Coroner be contacted immediately at 707-445-7242. If the Coroner determines the remains to be Native American, the NAHC will then be contacted by the Coroner to determine appropriate treatment of the remains pursuant to PRC 5097.98. Violators shall be prosecuted in accordance with PRC Section 5097.99

The applicant is ultimately responsible for ensuring compliance with this condition.

ATTACHMENT 1B

Location Map

Muchiru CDP

104 Mill Street

Arcata, CA

APN: 400-031-013

PLN-2023-18080

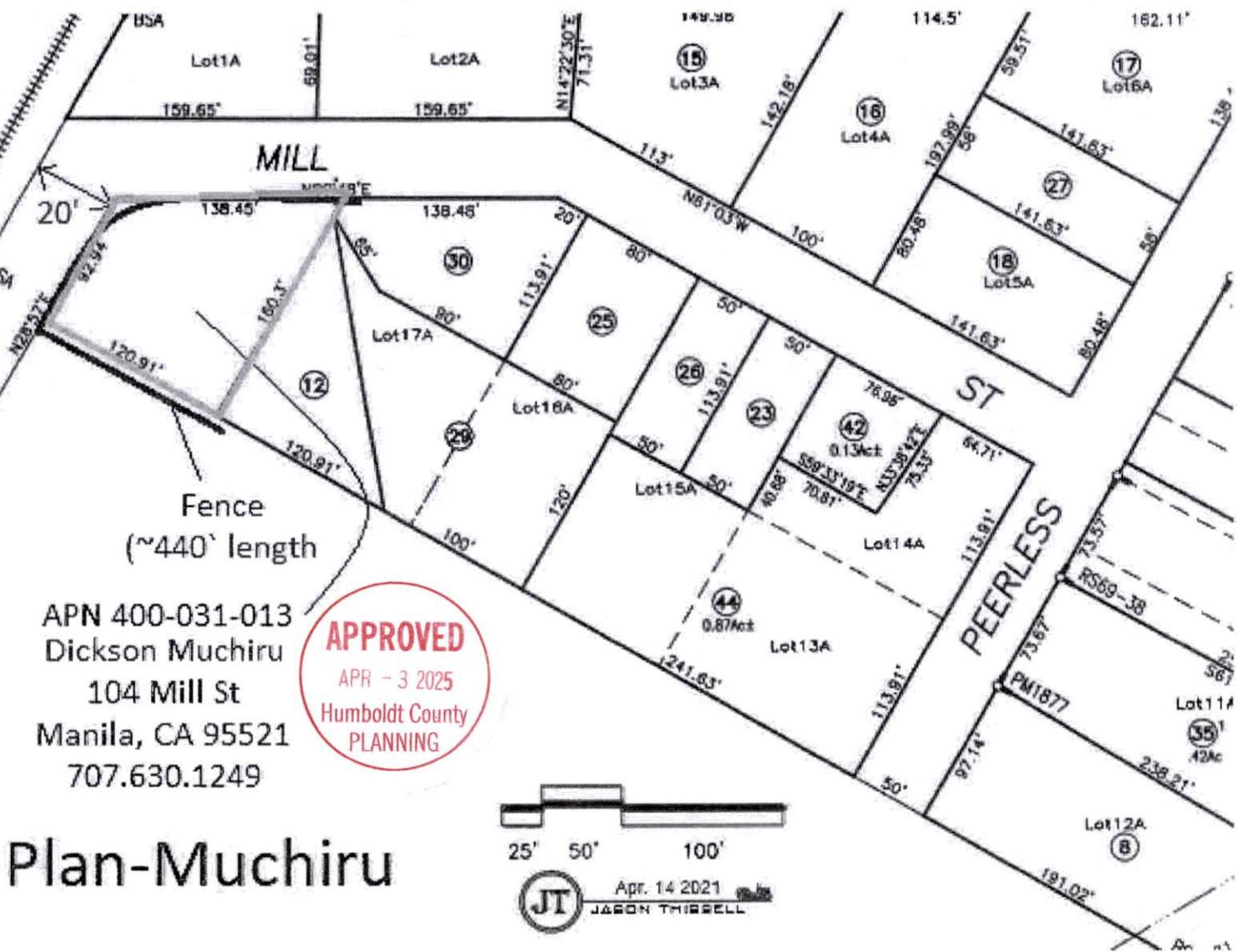
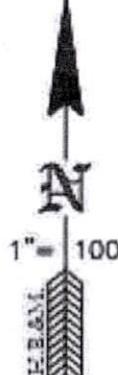




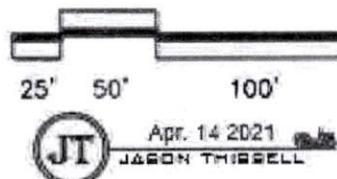
PENINSULA

Plot Plan-Muchiru

APN 400-031-013
Dickson Muchiru
104 Mill St
Manila, CA 95521
707.630.1249



APPROVED
APR - 3 2025
Humboldt County
PLANNING

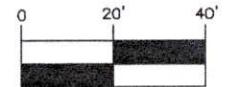


JT Apr. 14 2021
JASON THIBBELL

MILL ST



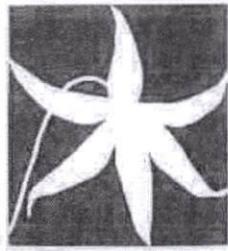
MILL STREET / MUCHIRU PROPERTY SKETCH



SCALE: 1 inch = 40 ft.

THIS SKETCH
PREPARED FEB. 19,
2025 BY DYLAN
KOLSTAD, LS 8152,
BASED ON A FIELD
SURVEY BY THIS
OFFICE ON JAN. 28,
2024. GOOGLE
EARTH IMAGE, IF
PRESENT, IS
ALIGNED
APPROXIMATELY TO
FIELD SURVEY.





Wetland Delineation

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

Prepared by:

Kyle Wear
Botanical Consultant
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(707) 601-1725

Prepared for:

O'Brien Biological Consultants
2407 Frank Street
Eureka, CA 95501

Date:

September 2022

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A. Wetland Determination Data Forms

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 is 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 extends 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.

Figure 1. Location Map.

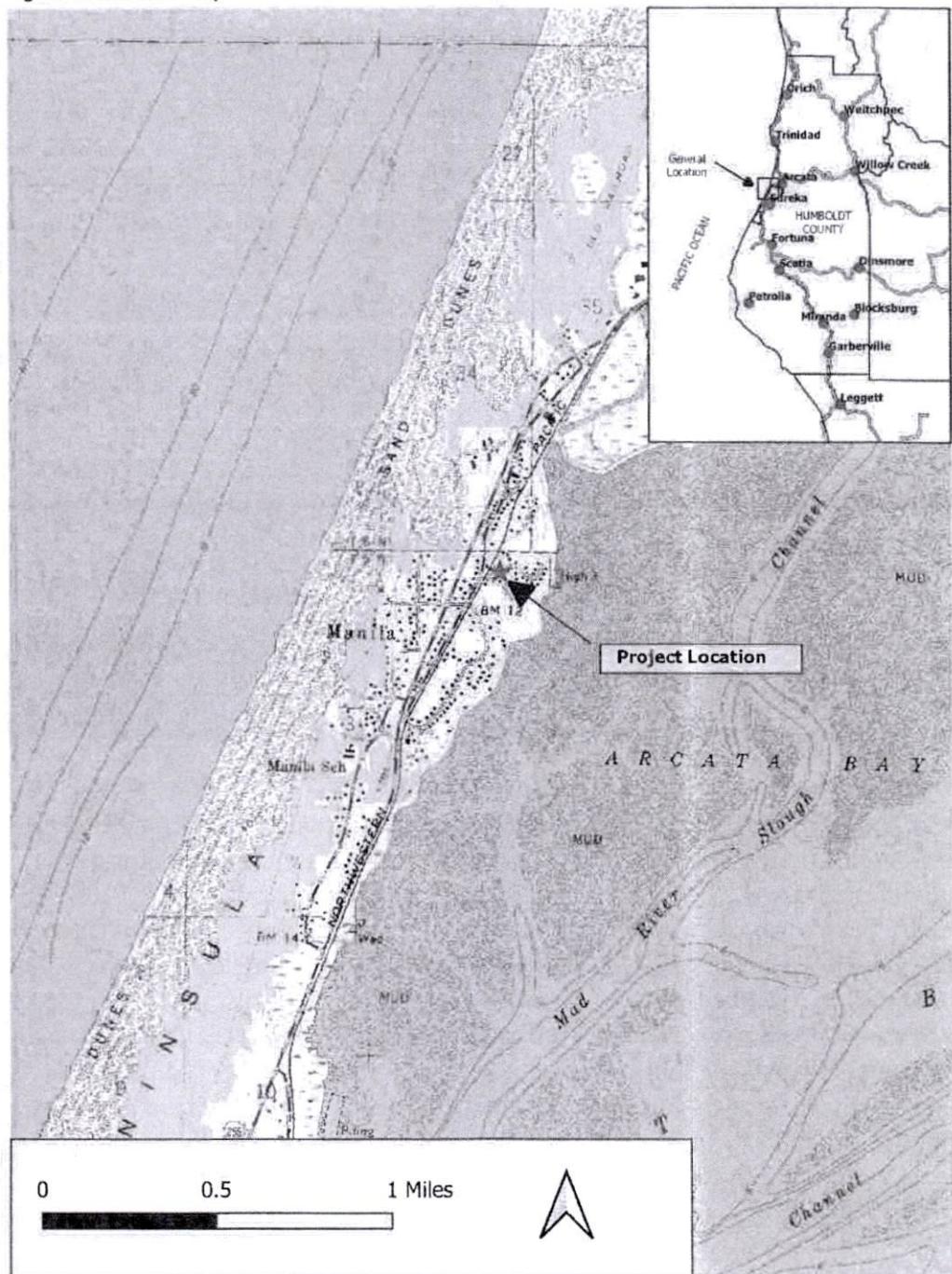
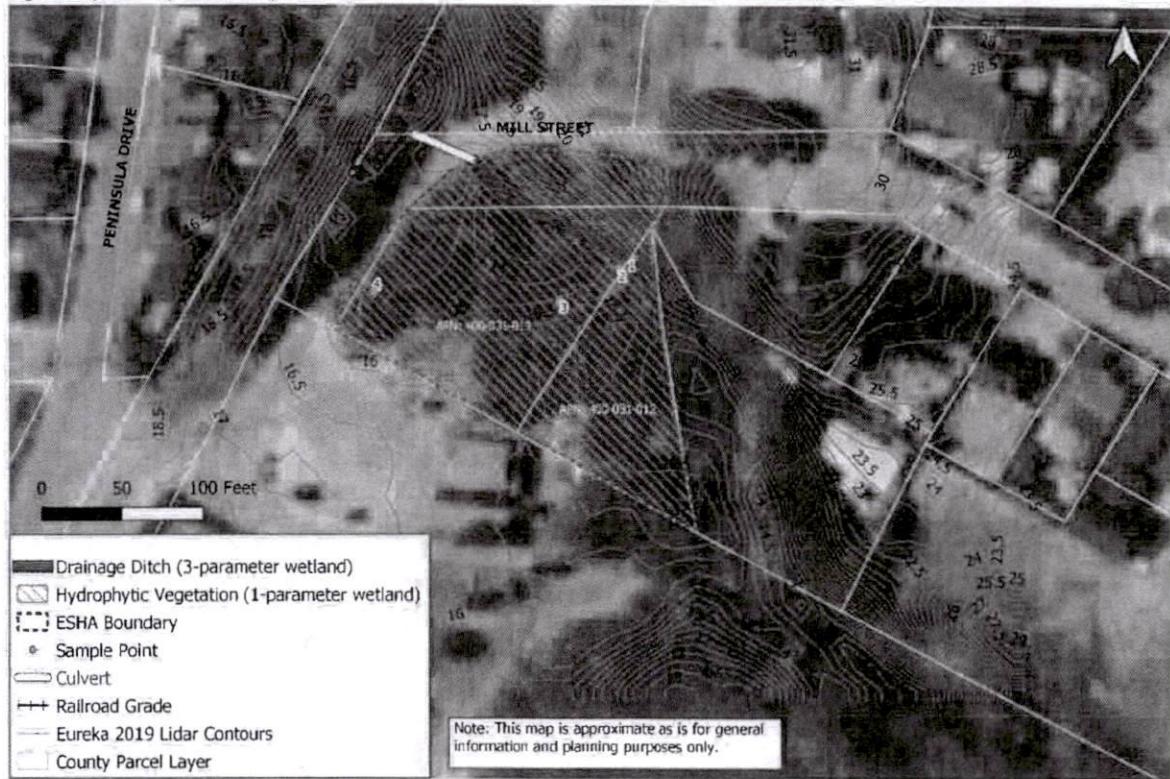


Figure 2 (Revised). ESHA Map.



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

Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1. Vicksburg, MS: U.S. Army Engineer Waterways Experimental Station.

U.S. Army Corps of Engineers 2010. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual. Western Mountains, Valleys, and Coast Region (Version 2.0)*, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-10-3. Vicksburg, MS: Army Corps of Engineer Research and Development Center.

U.S. Army Corps of Engineers. 2018. *Western Mountains, Valleys, and Coast 2018 Regional Wetland Plant List*.

https://cwbiapp.sec.usace.army.mil/nwpl_static/data/DOC/lists_2018/Regions/pdf/reg_WMVC_2018v1.pdf

United States Department of Agriculture, Natural Resource Conservation Service (USDA, NRCS). 2022. *Web Soil Survey*. <https://websoilsurvey.sc.egov.usda.gov>

APPENDIX A

Wetland Determination Data Forms

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: 1

Investigator(s): K. Wear Section, Township, Range: 3, T5N, R1W

Landform (hillslope, terrace, etc.): Ditch Local relief (concave, convex, none): Concave Slope (%): 0

Subregion (LRR): A Lat: N 4523114.8 Long: E 402165.7 Datum: NAD 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 Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area Within a Wetland?
Hydric Soil Present?	Yes <u>X</u> No _____	Yes <u>X</u> No _____
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks:		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>6</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
= Total Cover				Total % Cover of: _____ Multiply by: _____
OBL species _____ x 1 = _____				
FACW species _____ x 2 = _____				
FAC species _____ x 3 = _____				
FACU species _____ x 4 = _____				
UPL species _____ x 5 = _____				
Column Totals: _____ (A) _____ (B)				
				Prevalence Index = B/A = _____
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test Is >50%
				3 - Prevalence Index Is ≤3.0 ¹
				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				5 - Wetland Non-Vascular Plants ¹
				Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
% Bare Ground In Herb Stratum _____				
Remarks:				
Willow canopy, but not rooted in ditch				

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: 2

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 4523112.8 Long: E 402162.9 Datum: NAD 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 Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes _____ No <u>X</u>	Yes _____ No <u>X</u> ¹
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks: ¹ Meets one parameter wetland definition		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>5</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80</u> (A/B)
4. _____	_____	_____	_____	
Sapling/Shrub Stratum (Plot size: <u>20-ft radius</u>) <u>50</u> = Total Cover				Prevalence Index worksheet:
1. <u>Salix hookeriana</u>	<u>30</u>	Yes	FACW	Total % Cover of: _____ Multiply by: _____
2. <u>Morella californica</u>	<u>20</u>	Yes	FACW	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
Herb Stratum (Plot size: <u>10-ft radius</u>) <u>50</u> = Total Cover				UPL species _____ x 5 = _____
1. <u>Hedera helix</u>	<u>20</u>	Yes	FACU	Column Totals: _____ (A) _____ (B)
2. <u>Stachys chamissonis</u>	<u>10</u>	Yes	FACW	Prevalence Index = B/A = _____
3. <u>Rubus armeniacus</u>	<u>10</u>	Yes	FAC	Hydrophytic Vegetation Indicators:
4. <u>Equisetum telmateia</u>	<u>5</u>	No	FACW	<u>1</u> - Rapid Test for Hydrophytic Vegetation
5. _____	_____	_____	_____	<u>X</u> 2 - Dominance Test Is >50%
6. _____	_____	_____	_____	<u>3</u> - Prevalence Index Is $\leq 3.0^1$
7. _____	_____	_____	_____	<u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8. _____	_____	_____	_____	<u>5</u> - Wetland Non-Vascular Plants ¹
9. _____	_____	_____	_____	Problematic Hydrophytic Vegetation ¹ (Explain)
10. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
11. _____	_____	_____	_____	
Woody Vine Stratum (Plot size: _____) <u>45</u> = Total Cover				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
% Bare Ground in Herb Stratum _____				
Remarks:				

SOIL

Sampling Point: 2

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

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

²Location: PI =Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

— Histosol (A1)	— Sandy Redox (S5)	— 2 cm Muck (A10)
— Histic Epipedon (A2)	— Stripped Matrix (S6)	— Red Parent Material (TF2)
— Black Histic (A3)	— Loamy Mucky Mineral (F1) (except MLRA 1)	— Very Shallow Dark Surface (TF12)
— Hydrogen Sulfide (A4)	— Loamy Gleyed Matrix (F2)	— Other (Explain in Remarks)
— Depleted Below Dark Surface (A11)	— Depleted Matrix (F3)	
— Thick Dark Surface (A12)	— Redox Dark Surface (F6)	
— Sandy Mucky Mineral (S1)	— Depleted Dark Surface (F7)	
— Sandy Gleyed Matrix (S4)	— Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present? Yes No X Depth (inches):

Water Table Present? Yes No X Depth (inches):

Saturation Present? (includes capillary fringe) Yes No Depth (Inches): _____

Wetland Hydrology Present? Yes No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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 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 Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes _____ No <u>X</u>	Yes _____ No <u>X¹</u>
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks: ¹ Meets one parameter wetland definition		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>7</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>71</u> (A/B)
4. _____	_____	_____	_____	
= Total Cover				Prevalence Index worksheet:
				Total % Cover of: _____ Multiply by: _____
				OBL species _____ x 1 = _____
				FACW species _____ x 2 = _____
				FAC species _____ x 3 = _____
				FACU species _____ x 4 = _____
				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				<u>X</u> 2 - Dominance Test Is >50%
				3 - Prevalence Index Is ≤3.0 ¹
				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				5 - Wetland Non-Vascular Plants ¹
				Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
				Remarks:

SOIL

Sampling Point: 3

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
Secondary Indicators (2 or more required)	
<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Shallow Aquitard (D3)	
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)	
<input type="checkbox"/> Frost-Heave Hummocks (D7)	

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: 4

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 4523108.5 Long: E 402116.6 Datum: NAD 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 Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks:	1 Meets one parameter wetland definition		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.	_____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>3</u> (A)
2.	_____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>4</u>
3.	_____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>75</u> (A/B)
4.	_____	_____	_____	_____	Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: <u>10-ft radius</u>)		= Total Cover			Total % Cover of:	Multiply by:
1. <u>Salix hookeriana</u>	_____	<u>20</u>	Yes	FACW	OBL species	_____ x 1 = _____
2.	_____	_____	_____	_____	FACW species	_____ x 2 = _____
3.	_____	_____	_____	_____	FAC species	_____ x 3 = _____
4.	_____	_____	_____	_____	FACU species	_____ x 4 = _____
5.	_____	_____	_____	_____	UPL species	_____ x 5 = _____
Herb Stratum (Plot size: <u>10-ft radius</u>)		<u>20</u>	= Total Cover			Column Totals: _____ (A) _____ (B)
1. <u>Rubus armeniacus</u>	_____	<u>10</u>	Yes	FAC	Prevalence Index = B/A = _____	
2. <u>Equisetum telmateia</u>	_____	<u>10</u>	Yes	FACW	Hydrophytic Vegetation Indicators:	
3. <u>Rubus ursinus</u>	_____	<u>10</u>	Yes	FACU	1 - Rapid Test for Hydrophytic Vegetation	
4.	_____	_____	_____	_____	X 2 - Dominance Test is >50%	
5.	_____	_____	_____	_____	3 - Prevalence Index is ≤3.0 ¹	
6.	_____	_____	_____	_____	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
7.	_____	_____	_____	_____	5 - Wetland Non-Vascular Plants ¹	
8.	_____	_____	_____	_____	Problematic Hydrophytic Vegetation ¹ (Explain)	
9.	_____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
10.	_____	_____	_____	_____		
11.	_____	_____	_____	_____		
Woody Vine Stratum (Plot size: _____)		<u>30</u>	= Total Cover			Hydrophytic Vegetation Present?
1.	_____	_____	_____	_____	Yes <u>X</u> No _____	
2.	_____	_____	_____	_____		
% Bare Ground in Herb Stratum _____		_____	= Total Cover			
Remarks:						



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

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