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Aquatic Resources Delineation Report



Roger's Garage Humboldt County, California

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October 2024
Revised August 2025

Executive Summary

This aquatic resources delineation was conducted in accordance with the 1987 "Corps of Engineers Wetland Delineation Manual", Western Mountains, Valleys, and Coast Region Version 2.0 (May 2010). The field surveys were also guided by the 2008 "Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0)". The results of this delineation are preliminary and must be reviewed and verified in writing by the US Army Corps of Engineers (ACOE) to be considered an official delineation.

The delineation identified 0.05 acres of potential jurisdictional aquatic resources within the 1.68-acre Study Area. The aquatic resources of the Study Area consist of the following habitats:

- Perennial Emergent Wetland: 0.05 acres

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1 INTRODUCTION

This report summarizes the methods and results of the delineation of potential jurisdictional aquatic resources conducted by Vollmar Natural Lands Consulting, Inc. (VNLC). The Study Area encompasses 1.68 acres and is owned by Danco.

The purpose of this delineation was to identify, map, and document potential jurisdictional Wetlands and Waters of the United States and of the State of California within the Study Area. The delineation identified a total of 0.05 acres of potential jurisdictional aquatic resources, consisting of perennial emergent wetlands.

The original report was prepared in October 2024. Following site visits with the client and agency representatives on July 10, 2025, the Regional Water Quality Control Board (RWQCB) requested that VNLC revisit the site to collect additional data points. This request was made to account for any plant species that may have been missed during the original assessment due to the recently mowed lawn. In addition, the RWQCB requested that VNLC conduct a paired-point wetland assessment between Points 2 and 5 to verify whether any wetland characteristics had been overlooked. The RWQCD has determined that it will assert jurisdiction over the wetland feature identified within the Study Area. In contrast, the U.S. Army Corps of Engineers (USACE) has declined to assert jurisdiction over this feature.

On August 4, 2025, VNLC Senior Ecologist Cassie Pinnell and Staff Ecologist Katherine Gregory returned to the site. Upon arrival, they observed the recent installation of a pipe that had not been present during the original survey. This pipe originates at Wetland Point 04, runs along the southern boundary fence, makes a 90-degree turn to the north, is buried near the site entrance, and drains into the existing storm drain at the gate (see **Appendix A, Photos 2, 12, and 13**). The pipe appears to have altered site hydrology—surface water was no longer present at Point 04. However, vegetation and soil conditions and other hydrology factors at this point remained unchanged (see **Photo 13**). Although the source of water has been diverted, surface water is still present within much of the mapped wetland.

The follow-up visit did not identify aquatic resources. It did identify six plant species that were not documented during the original assessment (**Appendix B**). Four supplemental data points were collected and mapped; their locations are presented in **Figure 2**. The corresponding data sheets are provided in **Appendix C**, and detailed descriptions of the vegetation, soils, and hydrology for each point are included in **Section 5.2.2**. None of the four points exhibited hydrophytic vegetation, hydric soils, or indicators of wetland hydrology; therefore, none meet the criteria for a three-parameter aquatic resource.

2 PROJECT SETTING

The Study Area encompasses a total of 1.68 acres within the city of Arcata in Humboldt County and is located at 1622 & 1632 Old Arcata Rd, Arcata, CA, 95524 (**Figure 1**). 1622 Old Arcata Rd encompasses 1.2 acres of the total Study Area and is adjacent to 1632 Old Arcata Rd, which encompasses 0.48 acres of the Study Area. The nearest town is Bayside, CA. The Study Area comprises portions of the following parcels: Assessor's Parcel Numbers (APN) 500-191-020 and 500-191-002. The Study Area is located off Old Arcata Road, across from Jacoby Creek School.

Coordinates to the approximate center of the Study Area are 40° 50' 49.37" N, 124° 03' 57.36" W. It is entirely mapped within Arcata South U.S. Geological Survey (USGS) 7½ minute topographic quadrangle and occurs in Section 4 of Township T05 North, Range R01 East (USGS 2021). The Study Area can be accessed by U.S. 101 via Old Arcata Rd and is located between Hyland Street and Golf Course Road.

3 REGULATORY BACKGROUND

3.1 Federal Regulatory Framework

The federal government has jurisdiction over all Waters of the United States through Section 404 of the Clean Water Act (CWA) and Section 10 of the Rivers and Harbors Act (RHA). Waters of the United States are divided into four subsets – territorial seas and traditional navigable waters (TNWs); tributaries to TNWs; lakes, ponds, and impoundments of TNWs; and wetlands adjacent to territorial seas and TNWs. Section 404 of the CWA regulates the discharge of dredged or fill material into Waters of the United States. The CWA grants dual regulatory authority of Section 404 to the U.S. Environmental Protection Agency (EPA) and ACOE. The ACOE is responsible for issuing and enforcing permits for activities in jurisdictional Waters in conjunction with prior permitting authorities in navigable Waters under the RHA of 1899. The EPA is responsible for providing oversight of the permit program. In this capacity, the EPA has developed guidelines for permit review (Section 404 [b][1] Guidelines) and has the authority to veto permits by designating certain sites as non-fill areas (Section 404[c] of the CWA). The EPA also has enforcement authority under Section 404. The ACOE generally extends its jurisdiction to all areas meeting the criteria for Waters of the United States.

As defined in the newly revised Navigable Waters Protection Rule (finalized by the EPA and ACOE on January 23, 2020, and published on April 21, 2020, in the Federal Register), Waters of the U.S. excludes features that lack hydrological surface connection to territorial seas and TNWs. Examples of water features excluded from federal jurisdiction include groundwater, ephemeral features in a typical water year, diffuse stormwater runoff/sheet flow over upland areas, most farm/roadside ditches, cropland¹, artificially irrigated areas², artificially created water conveyance structures located in uplands, groundwater systems in upland or in non-jurisdictional waters, and waste treatment systems.

Projects that propose activities which fall under the jurisdiction of Section 404 of the CWA and/or Section 10 of the RHA must obtain approval from the ACOE through the individual or nationwide permit (NWP) process. Individual permits entail a full public interest review that includes consultation with other federal and state agencies. Individual permits also require alternative analysis and may require the National Environmental Policy Act (NEPA) process at the project level

¹ This exclusion would not apply if the site was abandoned and reverts to wetland within 5 years.

² This exclusion would only apply if the artificially irrigated area would revert to upland conditions if irrigation ceased.

3.2 California State and Regional Regulatory Framework

California Department of Fish and Wildlife

The CDFW regulates river, stream, and lake habitats through Fish and Game Code section 1600 *et seq.* Fish and Game Code section 1602 requires an entity to notify the CDFW prior to commencing any activity that may do one or more of the following:

- Substantially divert or obstruct the natural flow of any river, stream, or lake;
- Substantially change or use any material from the bed, channel, or bank of any river, stream, or lake; or
- Deposit debris, waste, or other materials that could pass into any river, stream, or lake.

A “river, stream, or lake” includes those that are episodic (i.e., they are dry for periods of time) as well as those that are perennial. This definition includes ephemeral streams, desert washes, and watercourses with a subsurface flow (CDFW 2016). It may also apply to work undertaken within the floodplain of a body of water, the boundary of which may be identified as a topographic feature or as riparian vegetation. In addition, the CDFW does not distinguish between a “pond” and a “lake,” such that relatively small bodies of water, including both natural and artificial features, may be regulated under section 1600.

The CDFW requires a Lake and Streambed Alteration (LSA) Agreement when it determines that the activity, as described in a complete LSA Notification, may substantially adversely affect existing fish or wildlife resources (*ibid*). An LSA Agreement includes measures necessary to protect existing fish and wildlife resources. The CDFW may suggest ways to modify a project that would eliminate or reduce harmful impacts on fish and wildlife resources. Before issuing a LSA Agreement, CDFW must comply with the California Environmental Quality Act (CEQA).

Regional Water Quality Control Board

The Study Area is located within the North Coast (Region 1) RWQCB, which has authority to regulate projects that could potentially impact wetlands and/or other Waters. According to the California State Water Resources Control Board (2006), this authority derives from the following:

- The state’s Porter-Cologne Water Quality Control Act through Waste Discharge Requirements to protect Waters of the state;
- The CWA under Section 4013;
- Governor’s Executive Order W-59-93 (i.e., the “California Wetland’s Policy” which requires “No Net Loss of Wetlands”);
- Senate Concurrent Resolution No. 28; and
- California Water Code Section 13142.5 (applies to coastal marine wetlands).

In addition to the state directives to protect wetlands for individual permits (but not NWPs), the Basin Plan also directs the Water Board staff to use the EPA’s CWA 404(b)(1) guidelines to determine circumstances under which the filling of wetlands may be permitted and requires that attempts be made to avoid, minimize, and, lastly, mitigate adverse impacts (*ibid*).

California's jurisdiction to regulate its water resources is much broader than that of the federal government. While the U.S. Supreme Court's 2001 decision in *SWANCC* vs. U.S. Army Corps of Engineers (the "SWANCC" Decision) called into question the extent to which the federal government may regulate isolated, intrastate, non-navigable waters as "Waters of the United States" under the CWA, state law is unaffected by that decision. The State Water Resource Control Board's (State Water Board's) Executive Director issued a memorandum directing the Regional Water Boards to regulate such waters under Porter-Cologne authorities. Porter-Cologne extends to "Waters of the State," which is broadly defined as "any surface water or groundwater, including saline waters, within the boundaries of the state." This definition includes isolated wetlands, and any action that may impact isolated wetlands is subject to the Water Board's jurisdiction, which may include the issuance of Statewide General Waste Discharge Requirements (WDRs).

For projects that will impact less than 0.2 acres of "isolated" wetlands, the State Water Board issues Order No. 2004-004-DWQ, WDRs for Dredged or Fill Discharges to Waters Deemed by the U.S. Army Corps of Engineers to be Outside of Federal Jurisdiction (General WDRs). These General WDRs streamline the permitting process for low-impact projects in isolated wetlands (*ibid*).

Activities or discharges from a project that could affect California's surface, coastal, or ground waters require a permit from the local RWQCB. Discharging pollutants (or proposing to) into surface water requires the applicant to file a complete National Pollutant Discharge Elimination System permit application form with the RWQCB. Other types of discharges, such as those affecting groundwater or from diffused sources (e.g., erosion from soil disturbance or waste discharges to land) are handled by filing a Report of Waste Discharge with the RWQCB in order to obtain WDRs. For specified situations, some permits may be waived, and some discharge activities can be handled through enrollment in an existing general permit (*ibid*).

3.3 Preliminary Review and Field Preparation

Prior to conducting the field delineation, the project ecologists reviewed site aerial photography, topographic data, existing watershed maps, and soil survey maps of the Study Area and surrounding areas. This information was used to help characterize the site, identify any potential jurisdictional wetlands on a preliminary basis, and guide the on-site survey. Background imagery and the Study area boundary were downloaded on a professional GPS (Trimble GEOXH 6000) for use in navigation and mapping in the field.

3.4 Field Survey

Vollmar Natural Lands Consulting (VNLC) Senior Ecologist Cassie Pinnell conducted the wetland delineation site visit on October 15th, 2024. VNLC Staff Ecologist Katherine Gregory provided support. The field survey took place in early Fall, and field conditions for the three months leading up to the field survey were considered normal (**Table 1**). Portions of the Study Area appeared to have been recently mowed, which impacted the ability to properly identify wetland indicators plants.

During the preliminary delineation survey, the ecologists walked across the entire Study Area, established delineation data points, recorded notes on plant community and Study Area

characteristics, and took representative photographs of habitats and features of interest. At each delineation data point, data were collected on Version 2.0 of ACOE's Western Mountains, Valleys, and Coast Region delineation data form. Data were collected on soils, hydrology, and plant composition and cover following the Routine Wetland Determination Method developed by the ACOE and described in the 1987 ACOE Wetlands Delineation Manual (Environmental Laboratory 1987), as well as the Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (ACOE 2006) and ACOE's more recent guides to identification of OHWM in the Western Mountains, Valleys, and Coast Region (ACOE 2005, ACOE 2008). The boundaries of potential jurisdictional wetlands identified in the Study Area were mapped using a Trimble GEOXH 6000 with nominal sub-foot precision. The specific methods for collecting data on soils, hydrology and vegetation at delineation data points are described below.

3.4.1 Soils

Soil profiles were excavated at each delineation data point using a tile spade shovel, and the profiles were examined for positive hydric soil indicators such as low matrix chromas, redox features, gley, and iron or manganese concretions. The color and texture of the soil layers encountered were recorded on the delineation forms. Soil color was identified using a Munsell soil color chart (Kollmorgen 2000), and a standardized soil texture chart used by the California Native Plant Society (CNPS) for assessing soils (adapted from Brewer and McCann 1982) was used to determine texture (e.g., clay versus clay loam, etc.). All soil samples were moistened before determining the color and texture. Soil map units were cross-referenced with the California hydric soils list (SCS 1993) and the national hydric soils list (SCS 1991). The determination of whether the hydric soil criterion was met was based on the criteria specified by the National Technical Committee for Hydric Soils and the Western Mountains, Valleys and Coast Supplement (ACOE 2008). The United States Department of Agriculture *Field Indicators of Hydric Soils in the United States (Version 2016)* (USDA 2016) was also referenced when characterizing hydric soils.

Prior to the site surveys, the U.S. Department of Agriculture (USDA) Soil Conservation Service (USDA-NRCS) database was consulted to identify soil map units found within the Study Area and surrounding land. This was due to the disjointed nature of the Study Area. The following soil map units were identified within the Study Area's borders:

- **Hookton-Tablebuff complex**, 2 to 9 percent slopes. Hydric Soil Rating: No.
- **Lepoil-Espa-Candymountain complex**, 15 to 20 percent slopes. Hydric Soil Rating: No

3.4.2 Hydrology

Indicators of wetland hydrology were noted, such as saturation, watermarks, sediment deposits, drift deposits, and inundation visible on aerial imagery. Hydrological connectivity was investigated throughout the Study Area and surrounding habitats. The delineation was conducted during the early Fall season following a wet season that resulted in normal wetland habitat conditions (see **Section 4.2** below).

3.4.3 Vegetation

At each delineation data point, all herbaceous plant species within a five-foot radius were identified, and a visual estimate of percent coverage for each species was recorded. Trees or shrub species present at any of the delineation data points were also recorded. Plant species cover estimations were calibrated using CNPS percent cover templates – see the following website: http://www.cnps.org/cnps/vegetation/pdf/percent_cover_diag-cnps.pdf.

The indicator status of each species was then checked using the most recent ACOE National Wetland Plant List—Version 3.2 (Lichvar, R.W. et al. 2016). Indicator status categories are as follows:

OBL = obligate wetland; >99% probability of occurring in a wetland

FACW = facultative wetland; 67%-99% probability of occurring in a wetland

FAC = facultative; 33%-67% probability of occurring in a wetland

FACU = facultative upland; 1%-33% probability of occurring in a wetland

UPL = obligate upland; <1% probability of occurring in a wetland

NL = not listed (plants not listed in Lichvar et al. [2016], including some known to occur occasionally or primarily in wetlands)

The wetland vegetation criterion is met when the vegetation passes the dominance test: greater than 50 percent of the dominant plants are designated as OBL, FACW, or FAC wetland indicators. The ACOE defines dominant plant species as those that, when included in descending order of their percent cover, together sum up to 50 percent of the total cover in their stratum (tree, sapling/shrub/subshrub, herb, or woody vine). In addition, all species with at least 20 percent coverage of the relative cover within a given stratum are always counted as dominants. All scientific and common plant names correspond to Baldwin et al. (2012) and/or the Calflora database (2019). If the dominance test is not passed, vegetation can be considered hydrophytic if it meets the requirements of the prevalence index, morphological adaptations, or problematic wetland situations (ACOE 2008).

4 EXISTING CONDITIONS

4.1 Landscape Setting

The Study Area encompasses two adjacent lots in Arcata. Both lots are currently occupied by buildings along the western boundary. The eastern portion of both lots, beyond a locked gate, is a large, open field that was previously used as a junkyard. The open field appears to have been remediated with sand and gravel, as most of the soil pits in the upland areas have a restricted layer of gravel at around 6-8 inches. The Study Area is outside of the coastal zone.

4.2 Climate

The climate of the Study Area and surrounding vicinity is characterized by cool, wet winters and warm, primarily rainless summers, as well as high inter- and intra-annual variability in precipitation. The Study Area is within the “Western Mountains, Valleys, and Coast Region” of the Army Corps of Engineers climate zones, subregion Northwest Forests and Coast (LRRA) (ACOE 2010). The mean annual precipitation in the Study Area is 61.14 inches per year, with

average annual temperatures around 55 degrees Fahrenheit (PRISM 2024). These values are consistent with those expected of this subregion. Over 95 percent of annual precipitation occurs during the “wet season” which extends from October to May. December is generally the coldest month of the year, averaging 48 degrees Fahrenheit (*ibid*). The wetland delineation was conducted at a time when the prior period was normal, as indicated in **Table 1**.

Table 1. WETS Table Analysis for the October 2024 Survey.

Precipitation Data from the Last 30 Years (1994 -2024) ¹			Recent Field Conditions Compared to Precipitation Data from the Last 30 Years, and Analysis ¹					
Date	30th Percentile (inches)	70th Percentile (inches)	Date	Recorded Rainfall (inches)	Rainfall Condition Compared to Previous 30 Years ²	Numeric Condition Value ³	Weighting Factor ⁴	Product of Condition Value and Weighting Factor ⁵
Sep	0.2	0.89	Sep 2024	0.07	Dry	1	3	3
Aug	0.05	0.2	Aug 2024	1.47	Wet	3	2	6
Jul	0.04	0.16	Jul 2024	0.05	Normal	2	1	2
¹ All precipitation data is obtained from the EUREKA WFO WOODLEY ISLAND, CA Weather Station ² Below 30th percentile = dry; between 30th and 70th percentile = normal; above 70th percentile = wet. ³ Relative rainfall conditions are then translated to a numeric condition value, as follows: dry = 1, normal = 2, wet = 3. ⁴ Greater weight is given to the most recent month as this would most likely influence what hydrologic or vegetative characteristics are observed. ⁵ The numeric condition value is then multiplied by the weighting factor, then the subtotals are added to get the total value. Total value equivalents: 6-9 = dry; 10-14 = normal; 15-18 = wet								TOTAL⁵ 11 or NORMAL

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5 RESULTS

5.1 Overview

The delineation identified a total of 0.05 acres of potential jurisdictional aquatic resources, which includes one wetland feature. The exact acreage of this feature within the Study Area is mapped in **Figure 2**. Representative photographs of site habitats and features are provided in **Appendix A**. A complete list of all plant taxa identified during the field surveys is available in **Appendix B**. Copies of all delineation data forms, of which there are 11, are provided in **Appendix C**.

5.2 Potential Aquatic Resources

One potential jurisdictional aquatic resource, a perennial emergent wetland, was documented on the site and is detailed in the following section. A description of this habitat type is also provided below.

5.2.1 Perennial Emergent Wetland

This 0.05-acre feature is located along the southern boundary of the Study Area (wetland delineation point 04, 08, 09 and 10). A source of flowing water was observed originating from beneath the fence on the southern boundary of the Study Area (**Appendix A, Photo 11**). Due to the fence's obstruction, the exact source could not be definitively identified. However, based on a photograph provided by the client of a system of pipes and timers (**Appendix A, Photo 27**), this water source appears to be largely artificial and strongly augmented by anthropogenic water discharge from the neighboring parcel. The water source flows from under the fence and forms a channel running along the fence, eventually pooling in a low-lying area. The water continues its flow southwest along the fence, ultimately draining into two distinct outlets. One outlet appears to be a municipal drain located beyond the locked gate, while the other outlet is a pipe leading into the ground located near Old Arcata Rd (**Appendix A, Photo 1 and 3**).

During the follow-up site visit on August 4, 2025, requested by the RWQCB, VNLC staff observed that a new pipe had been installed since the original survey. This pipe originates from the water source at Wetland Point 04 (**Appendix A, Photo 11**), extends along the southern fence line, turns 90 degrees northward, and is buried near the entrance to the site, where it drains into the existing storm drain at the gate (**Appendix A, Photo 2**). As a result of this installation, surface water and high water table at Point 04 was no longer present but other indicators of hydrology were still present (ex. saturation, water stained leaves, oxidized rhizospheres along living roots and presence of reduced iron), and the vegetation and soil characteristics at the point remained unchanged (**Appendix A, Photo 9 and 10**).

The dominant vegetation community within the perennial emergent wetland consists of non-native invasive herbs such as creeping buttercup (*Ranunculus repens*) [FAC], common velvet grass (*Holcus lanatus*) along with native perennial aquatic herbs like common cattail (*Typha latifolia*) [OBL]. The dominant trees found within this wetland include arroyo willow (*Salix lasiolepis*) [FACW], red alder (*Alnus rubra*) [FAC], and western redcedar (*Thuja plicata*) [FAC]. This vegetation composition is hydrophytic, as it passes the Dominance Test. Soils observed at this feature were mostly loamy clay and sandy loam with a matrix color of [2.5Y3/2], and redox

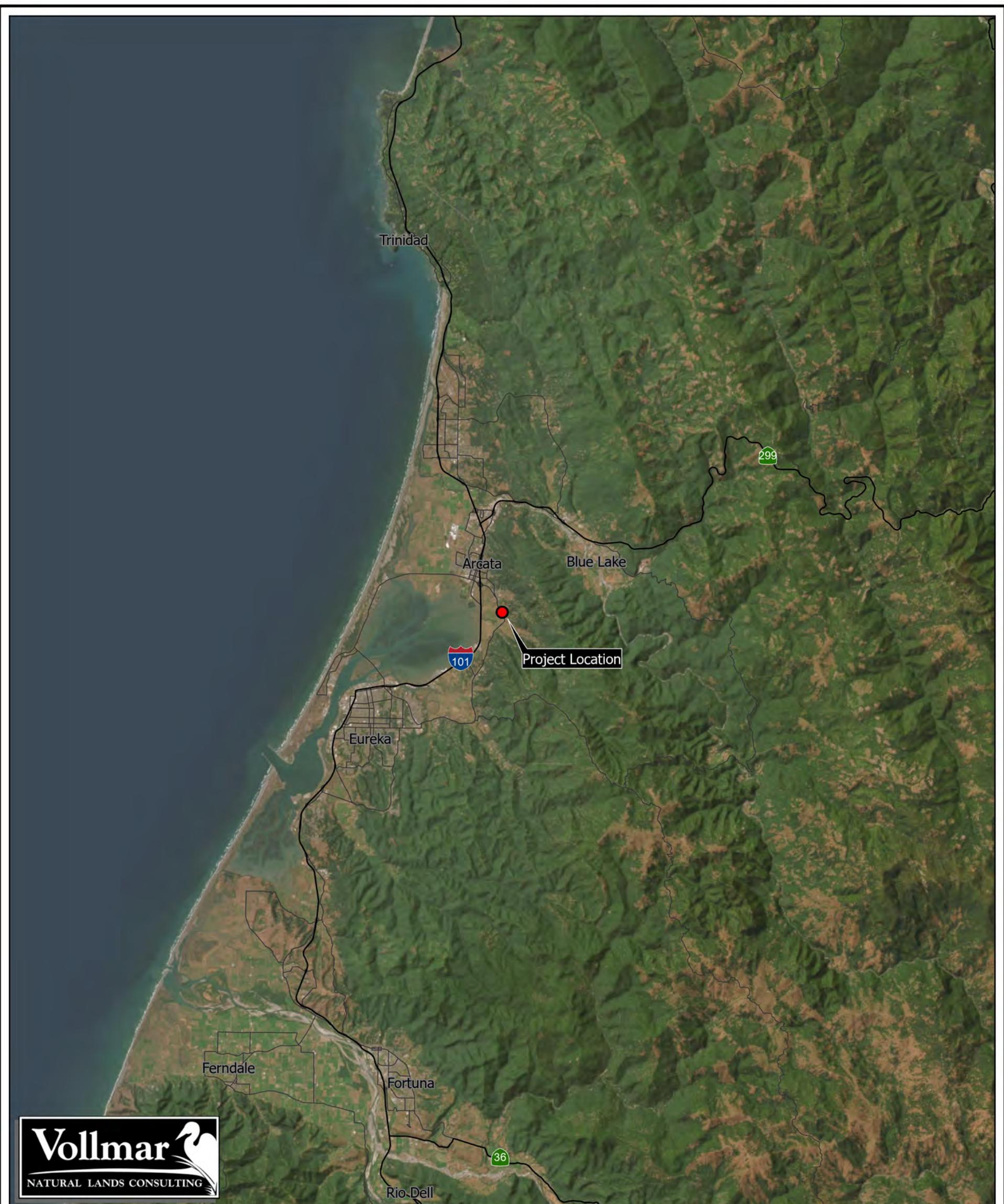
concentrations of 25%, 30% and 80% with a color of [2.5YR3/4], [10YR5/8] and [10YR5/6] respectively. Soil indicators at these features include F3 depleted matrix and F8 redox depressions. Wetland hydrology indicators include A1 surface water, A2 high water table, A3 saturation, B9 water-stained leaves, C3 oxidized rhizospheres along living roots, C4 presence of reduced iron, B4 algal mats, B8 sparsely vegetated concave surface, and C1 hydrogen sulfide odor. This feature had hydrophytic vegetation, hydric soil and wetland hydrology and is thus delineated as a three-parameter wetland.

Vegetation surveys conducted on August 4, 2025, resulted in six plants that were not documented during the original surveys due to the site being mowed prior to the October 2024 survey. All of the six plants were documented within the perennial emergent wetland. Four of the plants are FACW, including the California golden eye grass (*Sisyrinchium californicum*), fringed willowherb (*Epilobium ciliatum*), sword leaved rush (*Juncus ensifolius*), and common rush (*Juncus effusus*). Skunk cabbage (*Lysichiton americanus*) [OBL] was found near the low-lying area near the common cattail and willow. Bird's foot trefoil (*Lotus corniculatus*) [FAC] was found within the perennial emergent marsh, but was also found in the upland area near point 15.

5.2.2 *Upland Areas*

The dominant vegetation community within this feature consists of ruderal non-native annual grasslands. Dominant plant species include common velvet grass, sweet vernal grass (*Anthoxanthum odorata*) [FAC], Queen Ann's Lace (*Daucus carota*) [FACU], red alder and creeping buttercup. Most of the vegetation composition in the upland areas are hydrophytic, as it passes the Dominance Test. Most of the soil pits in the upland areas had a restricted layer of gravel and debris at 6-8 inches. Most soil pits observed in the upland areas include loamy sand with a matrix color of [10YR3/4], [10YR4/6], [10YR 3/3] and [10YR3/2] with no redox features. Although most of the upland areas did have hydrophytic vegetation, none of the upland areas had any indicators of hydric soils or hydrology and thus do not meet the requirements of a three-parameter aquatic resource.

During the follow-up visit on August 4, 2025, four supplemental data points were collected between points 02 and 05 to determine whether any wetland characteristics had been previously overlooked (**Figure 4**). The dominant vegetation at the four supplemental points consisted of pennyroyal (*Mentha pulegium*) [OBL], rough cats-ear (*Hypochaeris radicata*) [FACU], and sweet vernal grass [FACU], which resulted in no hydrophytic vegetation for any of the four points. Soils at all four points consisted of hardpack with gravel, broken glass, and debris at a depth of approximately 1–3 inches, with no indicators of hydric soils or wetland hydrology. These soil characteristics were consistent with upland soils documented during the October 2024 surveys, and none of the four points meet the criteria for a three-parameter aquatic resource.



Legend

- Highway
- Major Road

Figure 1
Regional Vicinity Map

Roger's Garage
Humboldt County, California



1:250,000
(1 in. = 4 mi. at tabloid layout)

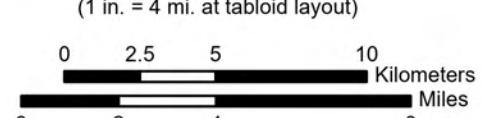


Figure 2
**Potential Jurisdictional
Waters Map**

Roger's Garage
Humboldt County, California

Legend

- Upland WD Point (Revisit 8/4/2025)
- Upland WD Point
- Wetland WD Point
- ▨ Wetland (0.05 acres)
- Study Area (1.68 acres)
- Parcel



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APPENDIX A
Representative Photographs of the Study Area
(Recorded on October 15, 2024, and August 4, 2025)



Photo 1. Drain 1, water draining into municipal drain at the locked gate leading into open green space behind buildings | October 15, 2024



Photo 2. Drain 1 with pipe originating from water source | August 4, 2025



Photo 3. Drain 2, water draining into pipe that is leading into the ground near Old Arcata Rd
| October 15, 2024



Photo 4. Wetland delineation point 01 (upland point) | October 15, 2024



Photo 5. Wetland delineation point 02 (upland point) | October 15, 2024



Photo 6. Wetland delineation point 03 (upland point) | October 15, 2024



Photo 7. Wetland Delineation point 04 (wetland point) | October 15, 2024



Photo 8. Wetland delineation point 04, facing west (wetland point) | October 15, 2024



Photo 9. Wetland delineation point 04, lacking surface water | August 4, 2025



Photo 10. Close-up of soil in point 04 showing saturation present | August 4, 2025



Photo 11. Water source coming from across the fence, facing south. Near wetland delineation point 04 | October 15, 2024



Photo 12. Water source coming from across the fence through a pipe that was not present during initial surveys | August 4, 2025



Photo 13. Pipe running along southern border of parcel | August 4, 2025



Photo 14. Wetland delineation point 5, facing west (upland point) | October 15, 2024



Photo 15. Wetland delineation point 06, facing northwest (upland point) | October 15, 2024



Photo 16. Wetland delineation point 07, facing southwest (upland point) | October 15, 2024



Photo 17. Wetland delineation point 08 (wetland point) | October 15, 2024



Photo 18. Wetland delineation point 09, facing southwest (wetland point) | October 15, 2024



Photo 19. Wetland delineation point 10, facing east (wetland point) | October 15, 2024



Photo 20. Wetland delineation point 11 (upland point) | October 15, 2024



Photo 21. Water pooling in low laying area and continuing flow along fence, facing west
| October 15, 2024



Photo 22. Water pooling in a low-lying area with cattail (OBL), tall flatsedge (FACW) common velvet (FAC) grass, fringed willowherb (FACW), and California golden eye grass (FACW)| August 4, 2025



Photo 23. Wetland delineation point 12 (upland) facing southeast, soil pit consists of hardpack at two inches |August 4, 2025



Photo 24. Wetland delineation point 13 (upland) facing southwest, soil pit consists of hardpack at two inches |August 4, 2025



Photo 25. Wetland delineation point 14(upland) facing west, soil pit consists of hard pack at two inches |August 4, 2025



Photo 26. Wetland delineation point 15 (upland) facing southwest, soil pit consists of hardpack at two inches |August 4, 2025



Photo 27. Irrigation system immediately adjacent to location of water source on project site, provided by the client.

APPENDIX B

List of Plant Taxa Identified During Field Surveys

Scientific Name	Common Name	Wetland Indicator Status
<i>Alnus rubra</i>	red alder	FAC
<i>Anthoxanthum odoratum</i>	sweet vernal grass	FACU
<i>Arbutus menziesii</i>	Pacific madrone	NL
<i>Betula pendula</i>	dwarf resin birch	NL
<i>Briza maxima</i>	rattlesnake grass	NL
<i>Cortaderia jubata</i>	pampass grass	FACU
<i>Cyperus eragrostis</i>	tall flatsedge	FACW
<i>Daucus carota</i>	Queen Anne's lace	FACU
* <i>Epilobium ciliatum</i>	fringed willowherb	FACW
<i>Equisetum telmateia</i> ssp. <i>braunii</i>	giant horsetail	FACW
<i>Ficus carica</i>	edible fig	FACU
<i>Geranium purpureum</i>	herb Robert	NL
<i>Hedera helix</i>	English ivy	FACU
<i>Holcus lanatus</i>	common velvet grass	FAC
<i>Hypochaeris radicata</i>	rough cat's-ear	FACU
<i>Ilex aquifolium</i>	English holly	FACU
* <i>Juncus effusus</i>	common rush	FACW
* <i>Juncus ensifolius</i>	sword leaved rush	FACW
* <i>Lotus corniculatus</i>	bird's foot trefoil	FAC
* <i>Lysichiton americanus</i>	skunk cabbage	OBL
<i>Mentha pulegium</i>	pennyroyal	OBL
<i>Myosotis latifolia</i>	broadleaved forget-me-not	NL
<i>Oxalis oregana</i>	redwood sorrel	FACU
<i>Pinus contorta</i> ssp. <i>contorta</i>	shore pine	FACU
<i>Plantago lanceolata</i>	English plantain	FACU
<i>Polystichum munitum</i>	western sword fern	FACU
<i>Pteridium aquilinum</i> var. <i>pubescens</i>	hairy brackenfern	FACU
<i>Ranunculus repens</i>	creeping buttercup	FAC
<i>Raphanus raphanistrum</i>	wild radish	NL
<i>Rumex crispus</i>	curly dock	FAC
<i>Salix lasiolepis</i>	arroyo willow	FACW
* <i>Sisyrinchium californicum</i>	California golden eyed grass	FACW
<i>Thuja plicata</i>	western red cedar	FAC
<i>Typha latifolia</i>	broadleaf cattail	OBL
<i>Veronica americana</i>	American brooklime	OBL
<i>Zantedeschia aethiopica</i>	calla-lily	OBL

*Plants documented on August 4, 2025

APPENDIX C
Delineation Data Forms

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

Project/Site: Roger's Garage City/County: Arcata, Humboldt Sampling Date: 10/15/24
 Applicant/Owner: Danco State: CA Sampling Point: 02
 Investigator(s): Cassie Pinnell, K. Gregory Section, Township, Range: 04, 5N, 1E
 Landform (hillslope, terrace, etc.): Valley floor Local relief (concave, convex, none): flat Slope (%): 3
 Subregion (LRR): A Lat: 40°50'49.97"N Long: 124°03'57.19"W Datum: NAD83
 Soil Map Unit Name: Hookton-Tablebluff complex, Lepoil-Espa Candy mountain NWI classification: N/A
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil X, 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?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			
Remarks: <u>Upland area. Soil pit includes sand, gravel, broken glass.</u> <u>Similar to point 01.</u>					

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>25</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Salix lasiolepis</u>	<u>13</u>	<u>Y</u>	<u>FACW</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)	
2. <u>Alnus rubra</u>	<u>5</u>	<u>Y</u>	<u>FAC</u>	Total Number of Dominant Species Across All Strata: <u>3</u> (B)	
3. <u>Pittosporum tenuifolium</u>	<u>2</u>	<u>N</u>	<u>NL</u>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66%</u> (A/B)	
4. _____	_____	_____	_____	Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: <u>15</u>)	<u>20</u>	= Total Cover		Total % Cover of: _____	Multiply by: _____
1. _____	_____	_____	_____	OBL species _____	× 1 = _____
2. _____	_____	_____	_____	FACW species _____	× 2 = _____
3. _____	_____	_____	_____	FAC species _____	× 3 = _____
4. _____	_____	_____	_____	FACU species _____	× 4 = _____
5. _____	_____	_____	_____	UPL species _____	× 5 = _____
Herb Stratum (Plot size: <u>5ft</u>)	_____	_____	_____	Column Totals: _____ (A)	_____ (B)
1. <u>Cortaderia jubata</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	Prevalence Index = B/A = _____	
2. <u>Anthoxanthum odoratum</u>	<u>37</u>	<u>Y</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators:	
3. <u>Plantago lanceolata</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	1 - Rapid Test for Hydrophytic Vegetation	
4. <u>Hypochaeris radicata</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	<u>✓</u> 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>40</u>	= Total Cover		Hydrophytic Vegetation Present?	Yes <u>X</u> No _____
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
Thatch - 40% % Bare Ground in Herb Stratum <u>20%</u>	_____	_____	_____		
Remarks:	Thatch = leaf litter			Non-native annual grassland w/ FAC/FACW tree canopy	
	Photo # 1057				

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

Project/Site: <u>Rogers Garage</u>	City/County: <u>Arcata, Humboldt</u>	Sampling Date: <u>10/15/24</u>
Applicant/Owner: <u>Danco</u>	State: <u>CA</u>	Sampling Point: <u>03</u>
Investigator(s): <u>Cassie Pinnell, K Gregory</u>	Section, Township, Range: <u>04, 5N, 1E</u>	
Landform (hillslope, terrace, etc.): <u>Valley floor</u>	Local relief (concave, convex, none): <u>Flat</u>	Slope (%): <u>3</u>
Subregion (LRR): <u>A</u>	Lat: <u>40°50'48.94"N</u>	Long: <u>124°03'56.54"W</u>
Soil Map Unit Name: <u>Hokton-Tablebluff, Lepoil-Espa Candy Mountain</u>	Datum: <u>NAD 83</u>	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If no, explain in Remarks.)		
Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed? Are "Normal Circumstances" present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wellland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>Upland Point</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Alnus rubra</u>		<u>25</u>	<u>Y</u>	<u>FAC</u>	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>4</u> (A)
2. <u>Thuja plicata</u>		<u>15</u>	<u>Y</u>	<u>FAC</u>	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. _____	_____	_____	_____	_____	Prevalence Index worksheet:	
5. _____	_____	_____	_____	_____	Total % Cover of: _____	Multiply by: _____
Sapling/Shrub Stratum (Plot size: _____)		40	= Total Cover		OBL species _____ x 1 = _____	
1. _____	_____	_____	_____	_____	FACW species _____ x 2 = _____	
2. _____	_____	_____	_____	_____	FAC species _____ x 3 = _____	
3. _____	_____	_____	_____	_____	FACU species _____ x 4 = _____	
4. _____	_____	_____	_____	_____	UPL species _____ x 5 = _____	
5. _____	_____	_____	_____	_____	Column Totals: _____ (A) _____ (B)	
Herb Stratum (Plot size: _____)		50	= Total Cover		Prevalence Index = B/A = _____	
1. <u>Rubus ursinus</u>		<u>5</u>	<u>N</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators:	
2. <u>Ilex aquifolium</u>		<u>5</u>	<u>N</u>	<u>FACU</u>	1 - Rapid Test for Hydrophytic Vegetation	
3. <u>Hedera helix</u>		<u>10</u>	<u>Y</u>	<u>FACU</u>	✓ 2 - Dominance Test is >50%	
4. <u>Ranunculus repens</u>		<u>10</u>	<u>Y</u>	<u>FAC</u>	3 - Prevalence Index is ≤3.0 ¹	
5. <u>Holcus lanatus</u>		<u>20</u>	<u>Y</u>	<u>FAC</u>	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
6. _____	_____	_____	_____	_____	5 - Wetland Non-Vascular Plants ¹	
7. _____	_____	_____	_____	_____	Problematic Hydrophytic Vegetation ¹ (Explain)	
8. _____	_____	_____	_____	_____	1' Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
9. _____	_____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
10. _____	_____	_____	_____	_____	Remarks: <u>photo# 1127C8 Mix of disturbed wetland is non-native upland species</u>	
11. _____	_____	_____	_____	_____		
Woody Vine Stratum (Plot size: _____)		50	= Total Cover			
1. _____	_____	_____	_____	_____		
2. _____	_____	_____	_____	_____		
% Bare Ground in Herb Stratum <u>30%</u>		30%	= Total Cover			

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

Project/Site: Roger's Garage City/County: Arcata, Humboldt Sampling Date: 10/15/24
 Applicant/Owner: Danco State: CA Sampling Point: 04
 Investigator(s): Cassie Pinnell, K Gregory Section, Township, Range: 04, 5N, 1E
 Landform (hillslope, terrace, etc.): Valley floor Local relief (concave, convex, none): flat Slope (%): 3
 Subregion (LRR): A Lat: 40°50'48.88"N Long: 124°03'56.49"W Datum: NAD 83
 Soil Map Unit Name: Hocketon-Tablebluff, Lepoil-Espa Canyon NWI classification: N/A
 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?	Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u> No _____		
Wetland Hydrology Present?	Yes <u>X</u> No _____		
Remarks:	<u>Flowing water feeding from off site. Cannot see source beyond the fence. Increased water pulse every 5-10 mins. Appears to be perennial.</u>		

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>25ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Ailanthus rubra</u>	<u>18</u>	<u>Y</u>	<u>FAC</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. <u>Thuja plicata</u>	<u>17</u>	<u>Y</u>	<u>FAC</u>	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4.				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: <u>15ft</u>)	<u>35</u>	= Total Cover		Total % Cover of: _____ Multiply by: _____
1.				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>5ft</u>)	<u>18</u>	<u>Y</u>	<u>FAC</u>	Column Totals: _____ (A) _____ (B)
1. <u>Ranunculus esculentus</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	Prevalence Index = B/A = _____
2. <u>Rubus ursinus</u>	<u>+</u>	<u>N</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators:
3. <u>Polystichum munitum</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	1 - Rapid Test for Hydrophytic Vegetation
4. <u>Pteridium aquilinum</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	✓ 2 - Dominance Test is >50%
5.				3 - Prevalence Index is $\leq 3.0^1$
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>20</u>	= Total Cover		Hydrophytic Vegetation Present? Yes <u>X</u> No _____
1.				
2.				
% Bare Ground in Herb Stratum <u>35%</u>	<u>10%</u>	= Total Cover		
Remarks:	<u>Photo # 1137, 1140</u>			<u>Disturbed wetland vegetation</u>

soil

Sampling Point: 04

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum)

- Surface Water (A1)
- High Water Table (A2)
- 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)
- Sparsely Vegetated Concave Surface (B8)

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 Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Stunted or Stressed Plants (D1) (**LRR A**)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Saturation Visible on Aerial Imagery (C9)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)
- Raised Ant Mounds (D6) (LRR A)
- Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes No Depth (inches):

Water Table Present? Yes _____ No _____ | Depth (inches): _____

Salinity Present? Yes No Depth (inches): _____

Wetland Hydrology Present? Yes No

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

Remarks:

s: Water flowing in channel, feeding in from off-site. Cannot see source beyond fence. Appears to be perennial.

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

Project/Site: Roger's Garage City/County: Arcata, Humboldt Sampling Date: 10/15/24
 Applicant/Owner: Danco State: CA Sampling Point: 05
 Investigator(s): Cassie Pinnell, K. Gregory Section, Township, Range: 04, 5N, 1E
 Landform (hillslope, terrace, etc.): Valley floor Local relief (concave, convex, none): flat Slope (%): 10
 Subregion (LRR): A Lat: 40°50'50.48"W Long: 124°03'55.93"W Datum: NAD83
 Soil Map Unit Name: Hokton-Table Bluff, Lepoit-Esp. sandy mountain NWI classification: NIA

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____

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

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

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No _____	Hydric Soil Present?	Yes _____ No <input checked="" type="checkbox"/>	Wetland Hydrology Present?	Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes _____ No <input checked="" type="checkbox"/>
Remarks: <u>Upland area, similar to point 01.</u>							

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>25ft</u>)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.	<u>Alnus rubra</u>	<u>5</u>	<u>Y</u>	<u>FAC</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)	
2.	<u>Salix lasiolepis</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
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>15ft</u>)		<u>10</u>	= Total Cover			Total % Cover of: _____ Multiply by: _____
1.	_____	_____	_____	_____	_____	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>5ft</u>)		_____	= Total Cover			Column Totals: _____ (A) _____ (B)
1.	<u>Hypochaeris radicata</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	Prevalence Index = B/A = _____	
2.	<u>ERICA SP.</u>	<u>+</u>	<u>N</u>	_____	Hydrophytic Vegetation Indicators:	
3.	<u>Daucus carota</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>	1 - Rapid Test for Hydrophytic Vegetation	
4.	<u>Holcus lanatus</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	X 2 - Dominance Test is >50%	
5.	<u>Trifolium repens</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	3 - Prevalence Index is ≤3.0 ¹	
6.	<u>Plantago lanceolata</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	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 hydroic soil and wetland hydrology must be present, unless disturbed or problematic.	
10.	_____	_____	_____	_____		
11.	_____	_____	_____	_____		
Woody Vine Stratum (Plot size: _____)		<u>50</u>	= Total Cover			Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
1.	_____	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____	_____
% Bare Ground in Herb Stratum <u>10%</u>		_____	= Total Cover			_____

Remarks:

Photo #K6 9027 Erica sp. did not have any flowers to ID.

SOIL

Sampling Point: 05

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of

<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 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 Depth (inches):

Water Table Present? Yes No Depth (inches):

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

Wetland Hydrology Present? Yes No

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

Remarks:

No indicators of hydrology. Area is on a slope but no ponding water

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

Project/Site: Roger's Garage City/County: Arata/Humboldt Sampling Date: 10/15/24
 Applicant/Owner: Danco State: CA Sampling Point: 06

Investigator(s): Cassie Pinnell, K. Gregory Section, Township, Range: 04, 5N, 1E

Landform (hillslope, terrace, etc.): valley floor Local relief (concave, convex, none): flat Slope (%): 15

Subregion (LRR): A Lat: 40°50'49.75"N Long: 124°03'55.58"W Datum: NAD83

Soil Map Unit Name: Hocket-Tallentuff, 1epoi 1-Espa Candymantain NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____

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

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

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No _____	Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes _____ No <input checked="" type="checkbox"/>
Remarks: <u>Similar to P05, upland point</u>							

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>25ft</u>)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.	<u>Pinus contorta</u>	<u>5</u>	<u>Y</u>	<u>FAC</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)	
2.	<u>Alnus rubra</u>	<u>5</u>	<u>Y</u>	<u>FAC</u>	Total Number of Dominant Species Across All Strata: <u>3</u> (B)	
3.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)	
4.					Prevalence Index worksheet:	
		<u>10</u>		= Total Cover	Total % Cover of: _____	Multiply by: _____
Sapling/Shrub Stratum (Plot size: <u>15ft</u>)		OBL species	x 1 =		FACW species	x 2 =
1.					FAC species	x 3 =
2.					FACU species	x 4 =
3.					UPL species	x 5 =
4.					Column Totals: _____ (A)	_____ (B)
5.					Prevalence Index = B/A = _____	
Herb Stratum (Plot size: <u>5ft</u>)		Dominant Vegetation Indicators:				
1.	<u>Daucus carota</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	1 - Rapid Test for Hydrophytic Vegetation	
2.	<u>Holcus lanatus</u>	<u>40</u>	<u>Y</u>	<u>FAC</u>	X 2 - Dominance Test is >50%	
3.	<u>Hypochaeris radicata</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	3 - Prevalence Index is ≤3.0 ¹	
4.	<u>Plantago lanceolata</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5.	<u>Rubus ursinus</u>	<u>+</u>	<u>N</u>	<u>FACU</u>	5 - Wetland Non-Vascular Plants ¹	
6.					Problematic Hydrophytic Vegetation ¹ (Explain)	
7.					1 ¹ Indicators of hydroic soil and wetland hydrology must be present, unless disturbed or problematic.	
8.						
9.						
10.						
11.						
		<u>105</u>		= Total Cover		
Woody Vine Stratum (Plot size: _____)		Hydrophytic Vegetation Present?		Yes <input checked="" type="checkbox"/> No _____		
1.						
2.						
<u>Thatch = 30%</u>		<u>5%</u>		= Total Cover		
% Bare Ground in Herb Stratum						

Remarks:

photo# KG 9031/9030

non-native annual grass/nd

SOIL

Sampling Point: 06

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)

- Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Saturation Visible on Aerial Imagery (C9)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)
- Raised Ant Mounds (D6) (LRR A)
- Frost-Heave Hummocks (D7)

Field Observations:

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

Water Table Present? Yes No Depth (inches):

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

Wetland Hydrology Present? Yes No

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

Remarks:

No indicators of hydrology

U.S. Army Corps of Engineers

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

See ERDC/EL TR-10-3; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 06/30/2024

Requirement Control Symbol EXEMPT:

(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Roger's Garage City/County: Arcata, Humboldt Sampling Date: 10/15/24Applicant/Owner: Dance State: CA Sampling Point: 07Investigator(s): Cassie Pinell, K Gregory Section, Township, Range: 04, 5N, 1ELandform (hillside, terrace, etc.): Valley floor Local relief (concave, convex, none): Flat Slope (%): 0Subregion (LRR): A Lat: 40°50'48.71"N Long: 124°03'57.74"W Datum: NAD83Soil Map Unit Name: Hookton-Tablebluff, Lepoil-Espa Candy mountain NWI classification: N/AAre 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> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: <u>Upland edge adjacent to low-lying wetland area</u> <u>photo 0326 CP</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>25ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Salix lasiolepis</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>50%</u> (A/B)
4. _____	_____	_____	_____		
Sapling/Shrub Stratum (Plot size: <u>15ft</u>)	<u>20</u>	=Total Cover		Prevalence Index worksheet:	
1. _____	_____	_____	_____	Total % Cover of:	Multiply by:
2. _____	_____	_____	_____	OBL species	<u>x 1 =</u>
3. _____	_____	_____	_____	FACW species	<u>22 x 2 = 44</u>
4. _____	_____	_____	_____	FAC species	<u>2 x 3 = 6</u>
5. _____	_____	_____	_____	FACU species	<u>46 x 4 = 184</u>
Herb Stratum (Plot size: <u>5ft</u>)	<u>1</u>	<u>N</u>	<u>FACW</u>	UPL species	<u>x 5 =</u>
1. <u>Juncus sp.</u>	<u>1</u>	<u>N</u>	<u>FACW</u>	Column Totals:	<u>70 (A) 234 (B)</u>
2. <u>Hedera helix</u>	<u>1</u>	<u>N</u>	<u>FACU</u>	Prevalence Index = B/A =	<u>3.34</u>
3. <u>Foxtisetum telmateia</u>	<u>1</u>	<u>N</u>	<u>FACW</u>		
4. <u>Anthoxanthum odoratum</u>	<u>45</u>	<u>Y</u>	<u>FACU</u>		
5. <u>Ranunculus repens</u>	<u>2</u>	<u>N</u>	<u>FAC</u>		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
Woody Vine Stratum (Plot size: _____)	<u>50</u>	=Total Cover		Hydrophytic Vegetation Indicators:	
1. _____	_____	_____	_____	1 - Rapid Test for Hydrophytic Vegetation	
2. _____	_____	_____	_____	2 - Dominance Test is >50%	
<u>Leaf litter: 25%</u>	<u>25%</u>	=Total Cover		3 - Prevalence Index is $\leq 3.0^1$	
% Bare Ground in Herb Stratum				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
				5 - Wetland Non-Vascular Plants ¹	
				Problemsatic Hydrophytic Vegetation ¹ (Explain)	

Remarks: Juncus mowed recently, no floral features to be able to identify to species.

U.S. Army Corps of Engineers

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

See ERDC/EL TR-10-3; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 06/30/2024

Requirement Control Symbol EXEMPT:

(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Rogers GarageCity/County: Arcata, HumboldtSampling Date: 10/15/24Applicant/Owner: DancoState: CASampling Point: 08Investigator(s): Cassie Pinnell, KikiSection, Township, Range: 04, 5N, 1ELandform (hillside, terrace, etc.): Valley floorLocal relief (concave, convex, none): FlatSlope (%): 0Subregion (LRR): ALat: 40°50'48.71"NLong: 124°03'57.82"WDatum: NAD83Soil Map Unit Name: Hokton-Tayloruff, Lepoul-Espan CondymantainNWI classification: N/AAre climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Remarks: <u>Southwest, low laying area that channel runs to and Pools at willow tree.</u>					

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>25ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Salix lasiolepis</u>	<u>45</u>	<u>Y</u>	<u>FACW</u>		Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2.					Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4.					
Sapling/Shrub Stratum	(Plot size: <u>15ft</u>)	<u>45</u>	=Total Cover		
1.					Prevalence Index worksheet:
2.					Total % Cover of: _____ Multiply by: _____
3.					OBL species _____ x 1 = _____
4.					FACW species _____ x 2 = _____
5.					FAC species _____ x 3 = _____
					FACU species _____ x 4 = _____
					UPL species _____ x 5 = _____
Herb Stratum	(Plot size: <u>5ft</u>)	<u>10</u>	<u>Y</u>	<u>FACW</u>	Column Totals: _____ (A) _____ (B)
1. <u>Juncus sp.</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	Prevalence Index = B/A = _____	
2. <u>Holcus lanatus</u>	<u>5</u>	<u>N</u>	<u>FACU</u>		
3. <u>Hedera helix</u>	<u>5</u>	<u>N</u>	<u>FACW</u>		
4. <u>Equisetum telmateia</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>		
5.					
6.					Hydrophytic Vegetation Indicators:
7.					1 - Rapid Test for Hydrophytic Vegetation
8.					X 2 - Dominance Test is >50%
9.					3 - Prevalence Index is ≤3.0 ¹
10.					4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
11.					5 - Wetland Non-Vascular Plants ¹
Woody Vine Stratum	(Plot size: _____)	<u>40</u>	=Total Cover		Problems Hydrophytic Vegetation ¹ (Explain)
1.					Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.					
% Bare Ground in Herb Stratum	<u>10%</u>		=Total Cover		Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Remarks:

Photo CP#0330 Juncus recently moved, no floral features to ID.

U.S. Army Corps of Engineers

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

See ERDC/EL TR-10-3; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 06/30/2024

Requirement Control Symbol EXEMPT:

(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Roger's Garage City/County: Arcata, Humboldt Sampling Date: 10/15/24
Applicant/Owner: Danco State: CA Sampling Point: 09Investigator(s): Passie Pinnell, K Gregry Section, Township, Range: 04, 5N, 1ELandform (hillside, terrace, etc.): Valley floor Local relief (concave, convex, none): Flat Slope (%): 6Subregion (LRR): A Lat: 40° 50' 48.27" N Long: 124° 03' 58.07" W Datum: NAD83Soil Map Unit Name: Hookton-Table Bluff Lepotl-Espa Condy Marton NWI classification: N/AAre 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?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			
Remarks: <u>Wetland point East of building near locked gate, along boundary fence.</u>					

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>25ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.					Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)	
2.					Total Number of Dominant Species Across All Strata: <u>1</u> (B)	
3.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)	
4.						
=Total Cover						
Sapling/Shrub Stratum	(Plot size: <u>15ft</u>)				Prevalence Index worksheet:	
1.					Total % Cover of: _____ Multiply by: _____	
2.					OBL species _____ x 1 = _____	
3.					FACW species _____ x 2 = _____	
4.					FAC species _____ x 3 = _____	
5.					FACU species _____ x 4 = _____	
=Total Cover					UPL species _____ x 5 = _____	
Herb Stratum	(Plot size: <u>5ft</u>)	5	N	OBL	Column Totals: _____ (A) _____ (B)	
1. <u>Typha latifolia</u>		5	N	OBL	Prevalence Index = B/A = _____	
2. <u>Veronica americana</u>		2	N	OBL		
3. <u>Phimpernus effusus</u>		35	Y	FAC		
4. <u>Juncus sp</u>		5	N	FAC		
5. <u>Equisetum telmateia</u>		+	N	FACW		
6. <u>Cyperus eragrostis</u>		+	N	FACW		
7. <u>Pteridium aquilinum</u>		+	N	FACU		
8. <u>Holcus lanatus</u>		1	N	FAC		
9. <u>Rubus armeniacus</u>		+	N	FAC		
10. <u>Rumex crispus</u>		2	N	FAC		
11. _____						
=Total Cover						
Woody Vine Stratum	(Plot size: _____)				Hydrophytic Vegetation Indicators:	
1.					1 - Rapid Test for Hydrophytic Vegetation	
2.					✓ 2 - Dominance Test is >50%	
=Total Cover					3 - Prevalence Index is ≤3.0 ¹	
% Bare Ground in Herb Stratum	<u>40%</u>	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
=Total Cover					5 - Wetland Non-Vascular Plants ¹	
=Total Cover					Problemsatic 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:

photo CP 0347. Juncus mowed recently, no flowers to be able to ID

U.S. Army Corps of Engineers

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

See ERDC/EL TR-10-3; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 06/30/2024

Requirement Control Symbol EXEMPT:

(Authority: AR 335-15, paragraph 5-2a)

Project/Site: Roger's GarageCity/County: Arcata, HumboldtSampling Date: 10/15/24Applicant/Owner: DANCOState: CASampling Point: 10Investigator(s): Cassie Pinnelli, K GregorySection, Township, Range: 04, 5N, 1ELandform (hillside, terrace, etc.): Valley FloorLocal relief (concave, convex, none): FlatSlope (%): 0Subregion (LRR): ALat: 40°50'47.8"NLong: 124°03'59.11"WDatum: NAD83Soil Map Unit Name: Hokton-Todd Bluff, Lepol-Espa Candy MountainNWI classification: NIAAre climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: <u>Adjacent to hard pack parking lot, draining to channel into a pipe leading underground.</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>25ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Privo (sp.)</u>		<u>10</u>	<u>Y</u>	<u>NL</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2.					Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4.					
Sapling/Shrub Stratum	(Plot size: <u>15ft</u>)	<u>10</u>	=Total Cover		Prevalence Index worksheet:
1.					Total % Cover of: _____ Multiply by: _____
2.					OBL species _____ x 1 = _____
3.					FACW species _____ x 2 = _____
4.					FAC species _____ x 3 = _____
5.					FACU species _____ x 4 = _____
Herb Stratum	(Plot size: <u>5ft</u>)	<u>40</u>	<u>Y</u>	<u>FAC</u>	UPL species _____ x 5 = _____
1. <u>Dianthus repens</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	Column Totals: _____ (A) _____ (B)	
2. <u>Holcus lanatus</u>				Prevalence Index = B/A = _____	
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
Woody Vine Stratum	(Plot size: <u> </u>)	<u>60</u>	=Total Cover		Hydrophytic Vegetation Indicators:
1.					1 - Rapid Test for Hydrophytic Vegetation
2.					2 - Dominance Test is >50%
% Bare Ground in Herb Stratum	<u>Thatch -10%</u>	<u>20%</u>	=Total Cover		3 - Prevalence Index is $\leq 3.0^1$
Remarks:					4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
					5 - Wetland Non-Vascular Plants ¹
					Problems with Hydrophytic Vegetation ¹ (Explain)
					'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.'
					Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

SOIL

Sampling Point:

10

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: PL=Pore Lining, M=Matrix.

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

— Histosol (A1)	— Sandy Gleyed Matrix (S4)
— Histic Epipedon (A2)	— Sandy Redox (S5)
— Black Histic (A3)	— Stripped Matrix (S6)
— Hydrogen Sulfide (A4)	— Loamy Mucky Mineral (F1) (except MLRA 1)
— 1 cm Muck (A9) (LRR D, G)	— Loamy Gleyed Matrix (F2)
— Depleted Below Dark Surface (A11)	✗ Depleted Matrix (F3)
— Thick Dark Surface (A12)	✗ Redox Dark Surface (F6)
— Sandy Mucky Mineral (S1)	✗ Depleted Dark Surface (F7)
— 2.5 cm Mucky Peat or Peat (S2) (LRR G)	✗ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR A, E)
- Iron-Manganese Masses (F12) (LRR D)
- Red Parent Material (F21)
- Very Shallow Dark Surface (F22)
- Other (Explain in Remarks)

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

Restrictive Layer (if observed):

Type: grave
Depth (inches): 8

Hydric Soil Present?

Yes No

Remarks: Adjacent to a hardpack, gravel parking lot.

HYDROLOGY

Wetland Hydrology Indicators:

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

<input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <hr/> <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <hr/> <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <hr/> <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Surface Soil Cracks (B6) <hr/> <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<hr/> <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <hr/> <input type="checkbox"/> Salt Crust (B11) <hr/> <input type="checkbox"/> Aquatic Invertebrates (B13) <hr/> <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <hr/> <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <hr/> <input checked="" type="checkbox"/> Presence of Reduced Iron (C4) <hr/> <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <hr/> <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <hr/> <input type="checkbox"/> Other (Explain in Remarks)
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Secondary Indicators (2 or more required)

- Water-Stained Leaves (B9) (MLRA 1, 2
4A, and 4B)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Saturation Visible on Aerial Imagery (C9)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)
- Raised Ant Mounds (D6) (LRR A)
- Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present? Yes X No _____ Depth (inches): 1
Water Table Present? Yes ✓ No _____ Depth (inches): 1
Saturation Present? Yes X No _____ Depth (inches): 1
(includes capillary fringe)

Wetland Hydrology Present? Yes No

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

Remarks: Bottom end of wetland with pipe leading underground.

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

Project/Site: Roger's Garage City/County: Arcata, Humboldt Sampling Date: 10/15/24
Applicant/Owner: Danco State: CA Sampling Point: 11
Investigator(s): Cassie Pinnell, K Gregory Section, Township, Range: 04, 5N, 1E
Landform (hillslope, terrace, etc.): Valley Floor Local relief (concave, convex, none): Flat Slope (%): 0
Subregion (LRR): A Lat: 40°50'47.76"N Long: 124°03'59.23"W Datum: NAD 83
Soil Map Unit Name: Hookton-Tahobluff, Leppi-Espi Candymantin NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No

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

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

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks:	Upland point, Southwest. Photo CP0415				

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
		= Total Cover	
Sapling/Shrub Stratum (Plot size: _____)			
1. <i>Privet</i> sp.	10	Y	NL
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
		= Total Cover	
Herb Stratum (Plot size: _____)			
1. <i>Holcus lanatus</i>	25	Y	FAC
2. <i>Dianthus repens</i>	15	Y	FAC
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
		= Total Cover	
Woody Vine Stratum (Plot size: _____)			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
<i>Thatch</i> -10% <i>40%</i>		= Total Cover	
% Bare Ground in Herb Stratum			
Remarks: <i>No flowers or identifying features to be able to identify Privet sp. On other side of fence.</i>			

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

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
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is $\leq 3.0^1$
- 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- 5 - Wetland Non-Vascular Plants¹
- Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No _____

% Bare G

Remarks: No flowers or identifying features to be able to identify Privet sp. On other side of fence.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-COR					OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)		
Project/Site: <u>Rogers Garage</u>	City/County: <u>Arcata</u>	Sampling Date: <u>08/04/2025</u>					
Applicant/Owner: <u>Danco</u>	State: <u>CA</u>	Sampling Point: <u>12</u>					
Investigator(s): <u>Cassie Pinnell, Wu Brady</u>	Section, Township, Range: <u>04, 5N, 1E</u>						
Landform (hillside, terrace, etc.): <u>Valley floor</u>	Local relief (concave, convex, none): <u>Flat</u>	Slope (%): <u>10</u>					
Subregion (LRR/MLRA): <u>A</u>	Lat: <u>40.84728918</u>	Long: <u>-124.06563531</u>	Datum: <u>NAD83</u>				
Soil Map Unit Name: <u>Hookton-Tablebluff Lepai-espai sandy loam</u>				NWI classification: <u>NJA</u>			
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No _____				(If no, explain in Remarks.)			
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> 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 _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>			Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>				
Remarks: <u>Photo 1962, 1961 No hydrophytic vegetation or indicators of hydric soils or hydrology, Soil is hard pack at 2" with gravel and broken glass</u>							
VEGETATION – Use scientific names of plants.							
Tree Stratum (Plot size: <u>25ft</u>)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. <u>Salix lasiolepis</u>		<u>5</u>	<u>Y</u>	<u>FACW</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)		
2. _____		_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)		
3. _____		_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)		
4. _____		_____	_____	_____			
Sapling/Shrub Stratum (Plot size: <u>15ft</u>)		<u>5</u>	=Total Cover			Prevalence Index worksheet:	
1. _____		_____	_____	_____	Total % Cover of: _____ Multiply by: _____		
2. _____		_____	_____	_____	OBL species <u>5</u>	x 1 = <u>5</u>	
3. _____		_____	_____	_____	FACW species <u>5</u>	x 2 = <u>10</u>	
4. _____		_____	_____	_____	FAC species <u>0</u>	x 3 = <u>0</u>	
5. _____		_____	_____	_____	FACU species <u>70</u>	x 4 = <u>280</u>	
6. _____		_____	_____	_____	UPL species <u>0</u>	x 5 = <u>0</u>	
7. _____		_____	_____	_____	Column Totals: <u>90</u> (A)	<u>295</u> (B)	
8. _____		_____	_____	_____	Prevalence Index = B/A = <u>3.68</u>		
9. _____		_____	_____	_____			
10. _____		_____	_____	_____			
11. _____		_____	_____	_____			
Herb Stratum (Plot size: <u>5ft</u>)		<u>5</u>	<u>N</u>	<u>6BL</u>	Hydrophytic Vegetation Indicators:		
1. <u>Mentha spicata</u>		<u>10</u>	<u>N</u>	<u>FACU</u>	1 - Rapid Test for Hydrophytic Vegetation		
2. <u>Hypochaeris radicata</u>		<u><1</u>	<u>N</u>	<u>FACU</u>	2 - Dominance Test is >50%		
3. <u>Dalies carota</u>		<u>60</u>	<u>Y</u>	<u>FACU</u>	3 - Prevalence Index is $\leq 3.0^1$		
4. <u>Anthoxanthum odoratum</u>		_____	_____	_____	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
5. _____		_____	_____	_____	5 - Wetland Non-Vascular Plants ¹		
6. _____		_____	_____	_____	Problematic Hydrophytic Vegetation ¹ (Explain)		
7. _____		_____	_____	_____			
8. _____		_____	_____	_____			
9. _____		_____	_____	_____			
10. _____		_____	_____	_____			
11. _____		_____	_____	_____			
Woody Vine Stratum (Plot size: _____)		<u>75</u>	=Total Cover				
1. _____		_____	_____	_____			
2. _____		_____	_____	_____			
% Bare Ground in Herb Stratum		<u>20</u>	=Total Cover			Hydrophytic Vegetation Present? Yes <u>X</u> No <u>X</u>	
Remarks: <u>Thatch base around. Mostly non-native annual grass (FACU)</u>							

SOIL

Sampling Point:

12

HYDROLOGY

Wetland Hydrology Indicators:

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

- Surface Water (A1)
- High Water Table (A2)
- 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)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- Salt Crust (B11)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Stunted or Stressed Plants (D1) (LRR A)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- _____ Water-Stained Leaves (B9) (MLRA 1, 2
4A, and 4B)
- _____ Drainage Patterns (B10)
- _____ Dry-Season Water Table (C2)
- _____ Saturation Visible on Aerial Imagery (C9)
- _____ Geomorphic Position (D2)
- _____ Shallow Aquitard (D3)
- _____ FAC-Neutral Test (D5)
- _____ Raised Ant Mounds (D6) (**LRR A**)
- _____ Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present?

Yes

No
No
No

Depth (inches):

Water Table Present?

Yes

No X
No X

Depth (inches):

Saturation Present?

Wetland Hydrology Present? Yes

No X

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

Remarks:

No indicators of hydrology

<p style="text-align: center;">U.S. Army Corps of Engineers</p> <p>WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region</p> <p>See ERDC/EL TR-10-3; the proponent agency is CECW-COR</p>			<p>OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)</p>																																																																																																																																																																																																																																																						
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features					Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			
0-2"	<u>10YR3/3</u>							<u>Loamy sand</u>	<u>Hardpack @ 2"</u>

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

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

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) (LRR A, E)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR D)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (F22)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D, G)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Iron Monosulfide (A18)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G)		

Indicators for Problematic Hydric Soils³:³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: GravelDepth (inches): 2"

Hydric Soil Present?

Yes No

Remarks:

Hardpack consisting of gravel @ 2"

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is 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 on 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 type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:

Surface Water Present?

Yes No

Depth (inches): _____

Water Table Present?

Yes No

Depth (inches): _____

Saturation Present?
(includes capillary fringe)Yes No

Depth (inches): _____

Wetland Hydrology Present? Yes No

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

Remarks:

No indicators of hydrology

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region
See ERDC/EL TR-10-3; the proponent agency is CECW-COROMB Control #: 0710-0024, Exp: 09/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)Project/Site: Rogers GarageCity/County: ArataSampling Date: 08/04/2025Applicant/Owner: DancoState: CASampling Point: 15Investigator(s): Cassie Dinnell, Kivi GregorySection, Township, Range: 04, 5N, 1ELandform (hillside, terrace, etc.): Valley floorLocal relief (concave, convex, none): FlatSlope (%): 15Subregion (LRR/MLRA): ALat: 40.84778454Long: -124.06558006Datum: NAD83Soil Map Unit Name: Hookton-tablebluff, lepoil-espia candymantah NWI classification: N/AAre 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 _____	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Remarks:

No hydrophytic vegetation and no hydric soil indicators of hydrology. Soil pit includes hardpack at 3" with gravel. upland.

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>25ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Salix hexandra</u>		<u>5</u>	<u>Y</u>	<u>FACW</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2.					Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
4.					
		<u>5</u>		=Total Cover	
Sapling/Shrub Stratum	(Plot size: <u>15ft</u>)				Prevalence Index worksheet:
1.					Total % Cover of: _____ Multiply by: _____
2.					OBL species _____ x 1 = _____
3.					FACW species <u>5</u> x 2 = <u>10</u>
4.					FAC species <u>10</u> x 3 = <u>30</u>
5.					FACU species <u>77</u> x 4 = <u>308</u>
					UPL species _____ x 5 = _____
					Column Totals: <u>92</u> (A) <u>348</u> (B)
					Prevalence Index = B/A = <u>348/92 = 3.75</u>
Herb Stratum	(Plot size: <u>5ft</u>)				Hydrophytic Vegetation Indicators:
1. <u>Hypochaeris radicata</u>		<u>7</u>	<u>N</u>	<u>FACU</u>	1 - Rapid Test for Hydrophytic Vegetation
2. <u>Rubus amoenus</u>		<u>1</u>	<u>N</u>	<u>FAC</u>	✓ 2 - Dominance Test is >50%
3. <u>Lotus corniculatus</u>		<u>3</u>	<u>N</u>	<u>FAC</u>	3 - Prevalence Index is ≤3.0 ¹
4. <u>Anthoxanthum odoratum</u>		<u>70</u>	<u>Y</u>	<u>FACU</u>	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5.					5 - Wetland Non-Vascular Plants ¹
6.					Problems Hydrophytic Vegetation ¹ (Explain)
7.					¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8.					
9.					
10.					
11.					
		<u>80</u>		=Total Cover	
Woody Vine Stratum	(Plot size: _____)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1.					
2.					
% Bare Ground in Herb Stratum	<u>20</u>				

Remarks:

Mostly dead nonnative annual grass that appears to have been snowed recently

