AQUATIC RESOURCES REPORT/ DELINEATION OF WATERS OF THE UNITED STATES, INCLUDING WETLANDS, FOR THE UKIAH GREAT REDWOOD TRAIL PHASE 4 PROJECT CITY OF UKIAH, MENDOCINO COUNTY, CALIFORNIA

PREPARED FOR:

GHD 2235 MERCY WAY, SUITE 150 SANTA ROSA, CA 95407 CONTACT: KRISTINE GASPAR TEL: 707-523-1010

PREPARED BY:

JANE VALERIUS ENVIRONMENTAL CONSULTING 2893A SCOTTS RIGHT OF WAY SEBASTOPOL, CA 95472 OFFICE: 707-824-1463 MOBILE: 707-529-2394

MARCH 3, 2022

TABLE OF CONTENTS

	Page
	<u> </u>
Section 1 - Introduction	1
Section 2 - Description of Site Characteristics	2
General Description	2
Topography and Hydrology	2
Soils	2
Vegetation	2
Section 3 - Methods	4
Section 4 - Results	5
Section 5 - References Cited	6

Appendices

Appendix A – Delineation Data Forms

Appendix B – Soils Maps

Appendix C – Site Photographs

Figures

Figure 1.	Street Location Map
Figure 2:	Project Area Overview Map
Figure 3:	Project Area on USGS quadrangle
Figure 4:	National Wetland Inventory Map
Figure 5:	Aquatic Resources/Delineation Ma

SECTION 1 – INTRODUCTION AND BACKGROUND INFORMATION

This Aquatic Resources Report, which represents a delineation of waters of the United States (U.S), including wetlands, has been conducted on behalf of the GHD under contract with the City of Ukiah, who is the project proponent for the Great Redwood Trail Phase 4 Project. Jane Valerius Environmental Consulting prepared this report under contract to GHD, Inc. All wetlands and waters of the U.S. are also wetlands and waters of the State.

The project will construct 1.9 miles of Class I Bike path within the Northwestern Pacific Railroad corridor between Commerce Drive (north) and Taylor Drive (south), in southern Ukiah (Figures 1 and 2). The trail alignment follows the existing decommissioned Northwestern Pacific Railroad, generally parallel to and west of US 101 in the northern portion of the alignment, crosses below US 101 at Norgard Lane, and is generally parallel to and east of US 101 in the southern portion of the alignment.

This delineation was conducted according to the 1987 Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987), the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys and Coast Region (U.S. Army Corps of Engineers (2008), and U.S. Army Corps of Engineers, San Francisco District (2007) guidelines. Data sheets, soils map and site photographs from the delineation are provided in Appendices A, B and C respectively. The delineation should be considered preliminary until the U.S. Army Corps of Engineers (USACE), San Francisco District, issues a jurisdictional determination of the extent of jurisdictional waters, including wetlands, in the delineation/project study area. A total of 18,451 square feet (sf) or 0.42 acres of seasonal wetlands and 10,035 sf or 0.23 acres of other waters were mapped for the delineation/project study area (Figure 5).

The client contact for this report is: City of Ukiah, Public Works

Attn: Andrew Stricklin, Associate Engineer

300 Seminary Avenue Ukiah, CA 95482 Tel: (707) 463-6297

Email: astricklin@cityofukiah.com

SECTION 2 – DESCRIPTION OF SITE CHARACTERISTICS

General Description

The delineation study area is located in the unsectioned portion of the Elledge Peak 7.5-minute topographic quadrangle (Figure 3) with the very northern portion of the study area being on the Ukiah 7.5-minute quadrangle. The study area is located in the southern portion of the City of Ukiah with the northern portion west of Highway 101 and the southern portion east of Highway 101 (Figures 1 and 2). The proposed trail follows the Northwestern Pacific Railroad corridor on the east side of the railroad tracks between Commerce Drive (north) and Taylor Drive (south).

Topography and Hydrology

The site is mostly flat with a 0 to 2 percent slope. There are three blue-line drainages that cross the study area as shown on Figures 3 and 5. The drainages are labeled as D1, D2 and D5. Drainages D3 and D4 do not show up as blue line drainages on the USGS quadrangles. All of the drainages flow east towards the Russian River which is navigable waters of the U.S. The blue line drainages on site are intermittent drainages and the non-blue line drainages appear to be ephemeral drainages. Hydrology for the seasonal wetlands appears to be from both direct precipitation and from groundwater as soils in some areas were saturated in spite of a lack of any significant rainfall since January.

Soils

Three soil types were mapped within the delineation study area based on the websoil survey (NRCS 2022). These are Cole loam, drained, 0 to 2 percent slopes; Russian loam, 0 to 2 percent slopes; and urban land. Cole loam, drained, 0 to 2 percent slopes is typically a very deep, somewhat poorly drained soil that occurs on alluvial plains and fans. It formed in recent alluvium derived primarily from sedimentary rock (USDA 1991).

Russian loam, 0 to 2 percent slopes, is a very deep, well drained soils that occurs on flood plains and low stream terraces. It formed in alluvium derived primarily from sedimentary rock (USDA 1991).

Urban land soils occur on terraces and alluvial plains in Ukiah. In the project area the urban land soils unit occurs in areas that have been altered by cutting and filing or grading, specifically for the construction of the railroad. Soils in the project area ranged from very gravelly loam to clay loam and are primarily urban land soils.

Vegetation

Four seasonal wetland areas were mapped for the project study area. The wetlands are seasonal wetland types that would be dry in the summer. Plant species ranged from facultative (FAC) plants such as Dallis grass (*Paspalum dilitatum*), ryegrass (*Festuca perennis*), and Himalayan blackberry (*Rubus armeniacus*), to facultative wetland (FACW) plants such as tall flat sedge

(Cyperus eragrostis), to obligate (OBL) plants such as iris-leaved rush (*Juncus xiphioides*) and pennyroyal (*Mentha pulegium*). Wetland Area A is dominated by FAC species at the south end and then becomes dominated by OBL plants from the central to the north end of the mapped area. Wetland Areas B and C are also dominated by FAC species are disturbed, marginal wetlands. Wetland Area D is dominated by iris-leaved rush, which is an OBL plant species. This area is also highly disturbed from homeless people camping and leaving trash in the area, but it appears there may be groundwater supporting this wetland area as soils were saturated but not ponded.

Upland vegetation consists of non-native annual grassland with annual grasses such as wild oats (Avena barbata/sativa), bromes (Bromus diandrus, B. hordaceus), hare barley (Hordeum murinum ssp. leporinum), medusa-head grass (Elymus caput-medusae), tall fescue (Festuca arundinacea), Harding grass (Phalaris aquatica), and weedy annual forbs such as wild radish (Raphanus sativus), fennel (Foeniculum vulgare), prickly lettuce (Lactuca serriola), vetch (Vicia sativa), and moth mullein (Verbascum blattaria).

Valley oak (*Quercus lobata*) woodland occurs along drainage D1 and D5 and valley oak trees along with many saplings occur within the study area. Other tree and shrub species noted include maple (*Acer* sp.), coyote brush (*Baccharis pilularis*), and poison oak (*Toxicodendron diversilobum*). Some willows (*Salix* spp.) occur at Wetland Area D.

SECTION 3 – METHODS

Literature Review

Prior to the delineation field survey, literature pertinent to identifying potential wetlands and other waters of the United States in the project area was reviewed, including the USGS 7.5 minute topographic quadrangle map for the area, the detailed topographic/aerial photograph base map prepared for the project area, the soil survey report, and the county hydric soils list.

Field Survey and Map Preparation

A formal delineation was conducted by Jane Valerius, botanist and wetland ecologist, assisted by Elizabeth Meisman with GHD on February 18, 2022. Areas in which the topography or vegetation suggested that wetlands could exist were sampled using the routine onsite determination method procedures described in the 1987 Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987). The Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0) U.S. Army Corps of Engineers (2010), U.S. Army Corps of Engineers, and the U.S. Army Corps of Engineers San Francisco District April 2016 Information Requested for Verification of Corps Jurisdiction guidance was also used as part of the on-site wetlands analysis and report preparation.

The State of California 2020 Wetland Plant List (USACE 2020) was used to determine the wetland status for the plant species for the sample data points. A soil pit was excavated at each of the 15 delineation sample points (Appendix A) to a depth of 6 to 12 inches. The sample points were established in representative wetlands and adjoining non-wetlands. In most cases an adjoining nonwetland sample point was established near the wetland data point to "bracket" the wetland data point, as a means to identify the wetland-nonwetland boundary.

Creeks and drainages within the project study area are designated as other waters of the United States and have an ordinary high water mark (OHWM) that defines the extent of the USACE jurisdiction of that feature. An OHWM refers to "that line on the shore established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding area" (33 CFR Section 328.3[e]).

The wetland and drainage areas were mapped on aerial photos provided by GHD, Inc and a GPS was used to map the location and extent of each wetland and drainage feature. Final graphics were also produced by GHD, Inc.

SECTION 4 – RESULTS

This section describes the results of the field survey. The preliminary jurisdictional features and data point locations are shown on the attached Aquatic Resources delineation maps (Figure 5). Delineation data sheets completed at the sample points are provided in Appendix A. The soil survey maps are provided as Appendix B and a selection of site photographs is provided as Appendix C. A total of 18,451 square feet (sf) or 0.42 acres of seasonal wetlands and 10,035 sf or 0.23 acres of other waters were mapped for the delineation/project study area (Figure 5). None of the wetlands show up on the National Wetland Inventory (NWI) map (Figure 4) and only drainages D1 and D2 show up as riverine on the maps.

The following is a brief description of each mapped feature going from south to north:

Wetland Area A is approximately 9,351 sf and is located south of Plant Road and includes wetland sample points W1, W2, and W3 along with upland points Up-2 and Up-3. This is a seasonal wetland that is drier in the southern portion and then becomes more wetland as it goes north with saturated soils, algal matting and obligate wetland plants defining this area. The wetland ends at a change in elevation from a long, linear ditch feature to and upland "berm". Refer to photos 1 and 2 for this feature.

Drainage D1 is a blue-line drainage based on the USGS quadrangle and appears to have been somewhat realigned. The width at the ordinary high water mark (OHWM) was approximately 20-feet wide. The total area for this drainage within the study area is 5,433 sf. The drainage was dry at the time of the February 18, 2022 site visit although there was significant algal matting indicating ponded water that persisted. The drainage is rock lined with little to no soil development. Refer to photos 3 and 4 for this feature.

Drainage D2 is part of another blue-line drainage and was dry at the time of site visit. The width at the OHWM was approximately 15-feet wide. The total area for this drainage within the study area is 639 sf. At this location the drainage has bene altered and disturbed by both the railroad and Highway 101. Refer to photo 5 for this feature.

Wetland Area B is a small 109 sf seasonal wetland dominated by FAC species such as Himalayan blackberry and ryegrass. Refer to photo 6 for this feature.

Wetland Area C is approximately 2,489 sf within the study area and is a seasonal wetland type represented by sample point W4 with the associated upland point Up-7. Water for this area comes from culverts under the railroad tracks. This site is dominated by Himalayan blackberry and Harding grass. Refer to photo 7 for this feature.

Wetland Area D is approximately 6,502 sf within the study area and is dominated by iris-leaved rush, which is an obligate wetland plant. There were also some willows (*Salix* spp.) in the area. This area has been disturbed by homeless encampments and includes a lot of human trash. This area is represented by sample points W5 and W6. Refer to photos 8 and 9 for this feature.

Drainage D3 is approximately 4 feet wide at the OHWM and is associated with a culvert under the railroad tracks. The total area for this drainage within the study area is 99 sf.

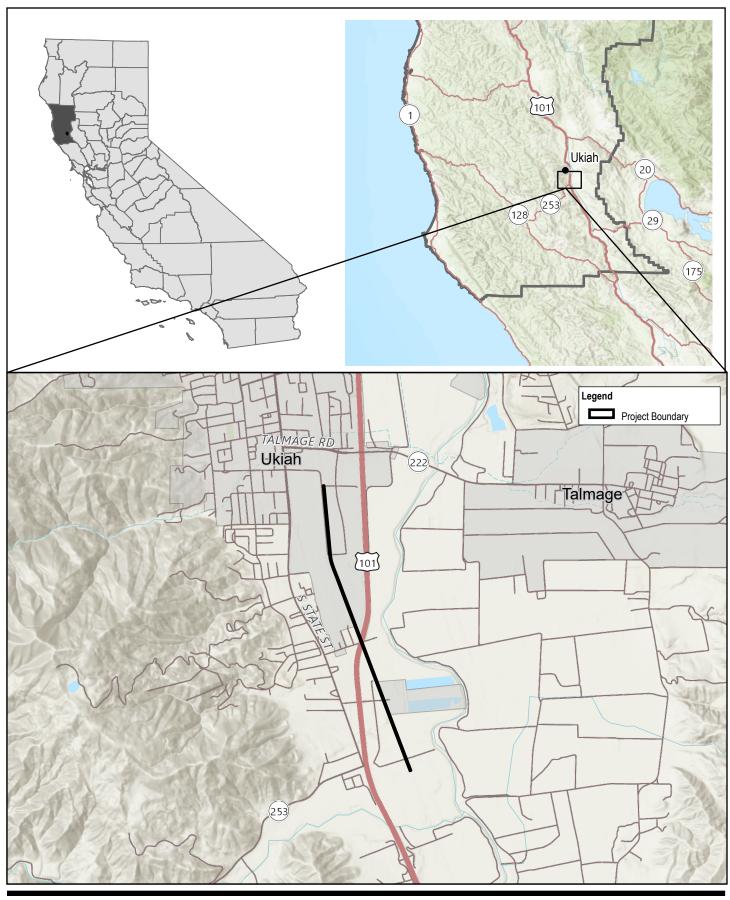
Drainage D4 is approximately 284 sf within the study area and is associated with a culvert under the railroad tracks. Refer to photo 10 for this feature.

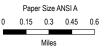
Drainage D5 is approximately 3,580 sf within the study area and includes an area proposed for a park. This drainage appears as a blue-line drainage on the USGS quadrangle (Figure 3) but does not appear on the NWI maps as a riverine feature, although the drainage may have been realigned at some time in the past. Refer to photo 11 for this feature.

SECTION 5 – REFERENCES CITED

Soil Survey Staff. 2022. Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey for Ukiah, California. Available online at http://websoilsurvey.nrcs.usda.gov/

- U.S. Army Corps of Engineers (USACE), San Francisco District. 2016. Information requested for verification of Corps jurisdiction. April.
- U.S. Army Corps of Engineers and Environmental Protection Agency. 2007. Jurisdictional determination handbook. May.
- U. S. Army Corps of Engineers (USACE). 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys and Coast Region (Version 2.0). Environmental Laboratory, ERDC/EL TR-08-28. May
- U. S. Army Corps of Engineers (USACE). 2020. Wetland Plant List for the Western Mountains, Valleys and Coast Region. https://wetland-plants.sec.usace.army.mil/nwpl_static/v34/home/home.html
- U.S. Department of Agriculture (USDA) Soil Conservation Service (SCS). 1991. Soils Survey of Mendocino County, Eastern Part, and Trinity County, Southwestern Part, California. Prepared in cooperation with USDA, Forest Service; US Department of the Interior, Bureau of Land Management and Bureau of Indian Affairs, and the Regents of the University of California (Agricultural Experiment Station). Issued January 1991.



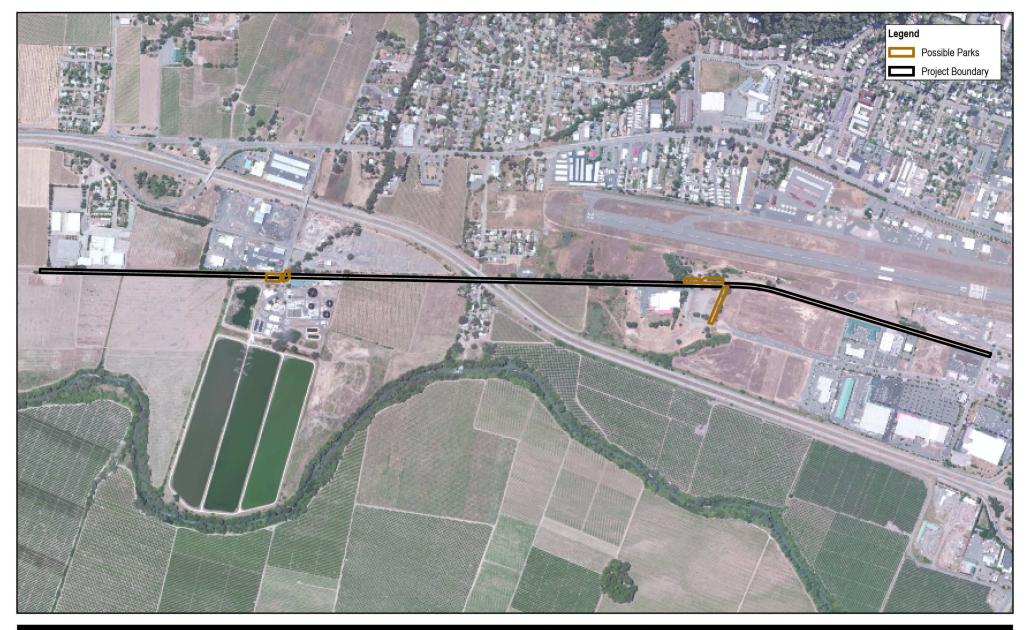


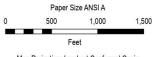


City of Ukiah Great Redwood Trail Phase 4

Project No. 12557341 Revision No.

Date 3/4/2022







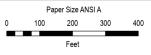
City of Ukiah The Great Redwood Trail Phase 4

Project No. 12557341 Revision No. -Date 3/4/2022

Project Area Overview

FIGURE 2





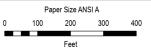




City of Ukiah The Great Redwood Trail Phase 4 Project No. 12557341 Revision No. -Date 3/4/2022

Project Area







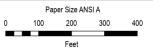


City of Ukiah The Great Redwood Trail Phase 4 Project No. **12557341** Revision No. -

Date 3/4/2022

Project Area







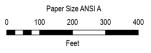


City of Ukiah The Great Redwood Trail Phase 4 Project No. **12557341** Revision No. -

Date 3/4/2022

Project Area



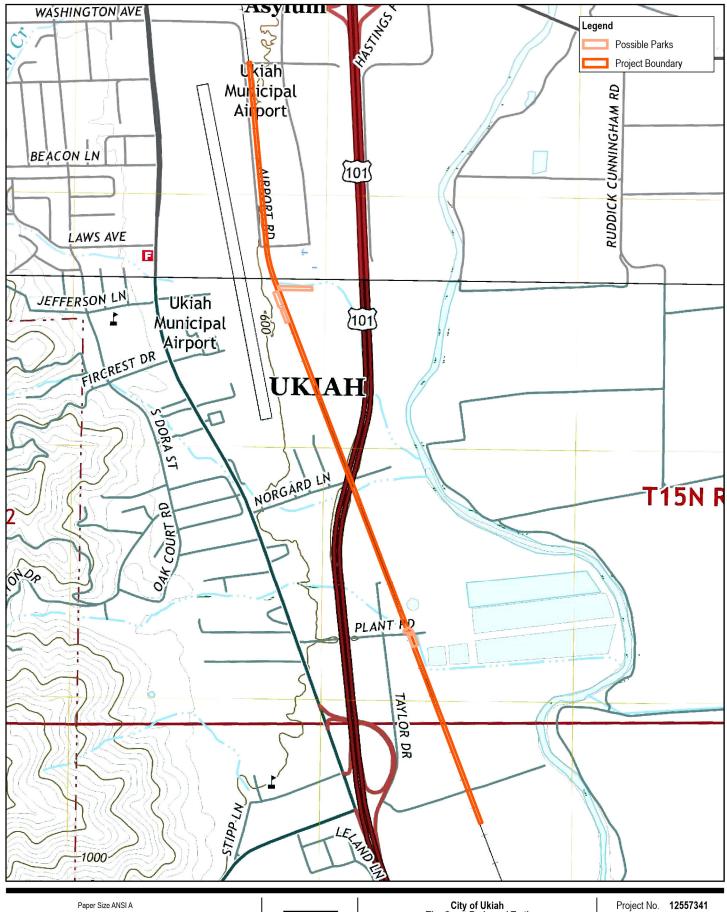


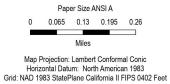


City of Ukiah The Great Redwood Trail Phase 4 Project No. **12557341** Revision No. -

Date 3/4/2022

Project Area







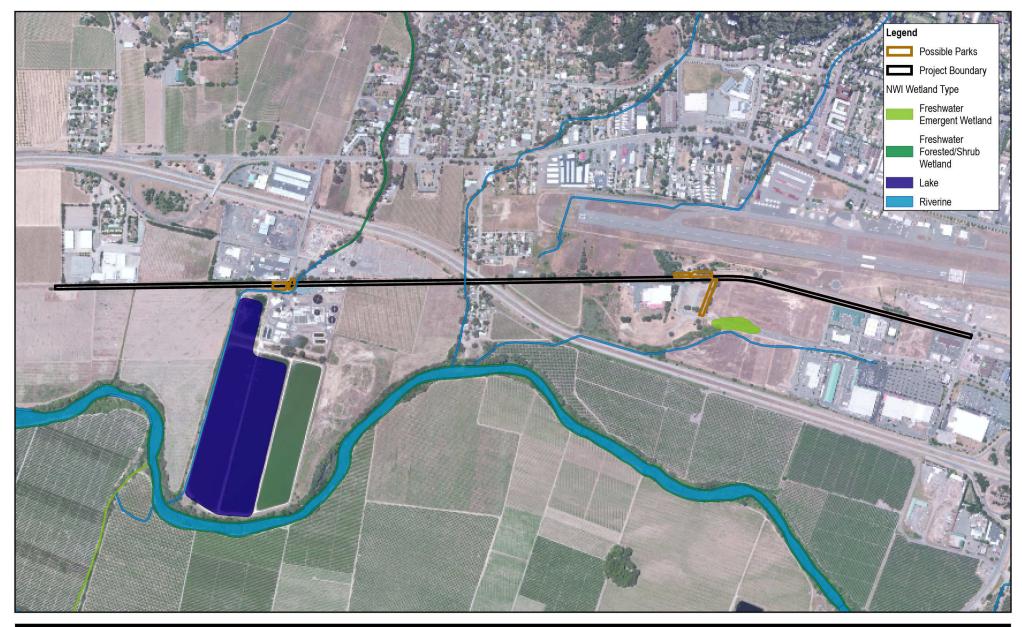
City of Ukiah The Great Redwood Trail Phase 4

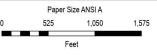
Project Area on USGS Quad

Revision No.

Date 3/4/2022

FIGURE 3





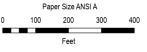


City of Ukiah The Great Redwood Trail Phase 4 Project No. 12557341 Revision No. -Date 3/4/2022

National Wetland Inventory

FIGURE 4





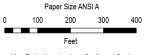


City of Ukiah The Great Redwood Trail Phase 4 Project No. 12557341 Revision No. -Date 3/4/2022

Aquatic Resources

FIGURE 5-1



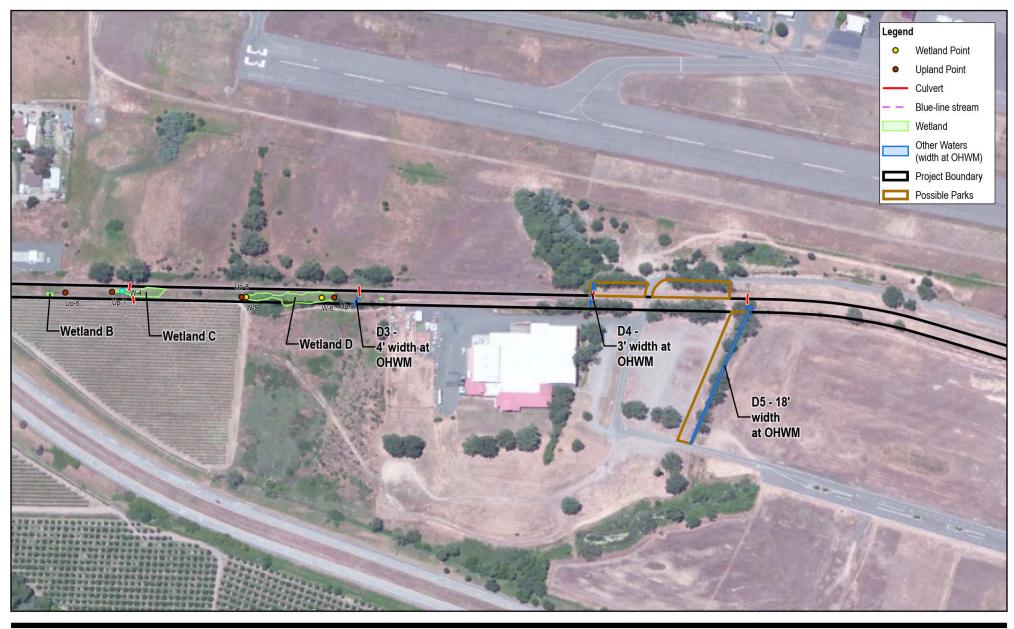


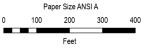


City of Ukiah The Great Redwood Trail Phase 4 Project No. 12557341
Revision No. -

Date 3/4/2022

Aquatic Resources





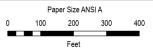


City of Ukiah The Great Redwood Trail Phase 4 Project No. 12557341 Revision No. -Date 3/4/2022

Aquatic Resources

FIGURE 5-3









City of Ukiah The Great Redwood Trail Phase 4 Project No. **12557341** Revision No. -

Date 3/4/2022

Aquatic Resources

FIGURE 5-4

Appendix A - Data Sheets

Project/Site: Redwood Trail	City/County:Uk	ciah/Mendoc	ino		Sampling Date: Fe	b. 18, 2022	
Applicant/Owner: City of Ukiah	1			Stat	e: <u>CA</u> Sampling Po	oint: <u>W-</u>	/
nvestigator(s): Valerius , Meex	nen	Section	on, Tow	nship, Range: _			
andform (hillslope, terrace, etc.):	valley	Local	relief (c	oncave, conve	k, none): <u>Concare</u>	Slope (9	6): <u>0-Z</u>
Subregion (LRR): Wes do you belts	15 + Valley 5	at: 39. /	0712	Lon	g: -123,19	Datum:	WG5/989
Soil Map Unit Name: Cole loa	m drawed.	0-290	Sco	pen	NWI classification: _	HONE	
are climatic / hydrologic conditions o							
re Vegetation, Soil							Yes <u>X</u> No
Are Vegetation, Soil							
SUMMARY OF FINDINGS -							
Hydrophytic Vegetation Present?	Yes No No		13	s the Sampled		/	
Hydric Soil Present? Wetland Hydrology Present?	The second secon		l W	vithin a Wetlan	d? Yes 🔽	No	
	ort at Sou		_		. 0		
VEGETATION							
Tree Stratum (Plot size:	j.	Absolute % Cover		ant Indicator	Dominance Test work	annina	
1,		Section 1			Number of Dominant S That Are OBL, FACW,		(A)
2.					Total Number of Domir	ant	1
3.					Species Across All Stra		/ (B)
4,					Percent of Dominant S	necies	
			= Tota	l Cover	That Are OBL, FACW,		100 (A/
Sapling/Shrub Stratum (Plot size					Prevalence Index wor	ksheet:	-
1					Total % Cover of:		Multiply by:
3					OBL species		
4.					FACW species	x 2 :	
5.					FAC species		
	200		= Tota	l Cover	FACU species	x4=	•
Herb Stratum (Plot size: 5 ft ra		55	V	FAC	UPL species		
1. Paspalum delita 2. Avena barbata		55	-	Upl	Column Totals:	(A)	(B)
3. Bromus diandrus		10	N	NL	Prevalence Index	= B/A = _	
4 B. hordaeceus		10	14	FACU	Hydrophytic Vegetati	on Indicato	rs:
5. Vicia satira		5	N	Heb	Dominance Test is	5 >50%	
6. Lacture semole		5	N	FISCU	Prevalence Index	is ≤3.01	
7,					Morphological Ada		
8.					data in Remark Problematic Hydro		
Woody Vine Stratum (Plot size:		95	= Tota	l Cover			
1					¹Indicators of hydric so be present.	il and wetlan	d hydrology must
2			-				
% Bare Ground in Herb Stratum	5 % Cover	r of Biotic Cr		l Cover	Hydrophytic Vegetation Present? Yes_i	<u></u>	lo
Remarks:							

Sampling Point: W-1

Profile Des Depth	Matrix		Red	ox Feature				Size Male
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	_Loc2	Texture	Remarks
2/2	104R3/1	95	101R 5/8	5	<u>C</u>	<u>m</u>		Loam w/ gravel
lydric Soil Histoso		eletion, RM≕ able to all L	Reduced Matrix, C RRs, unless othe Sandy Red Stripped M	erwise no dox (S5)	ed or Coate	ed Sand G	Indicators 1 cm N	ion: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ : Muck (A9) (LRR C) Muck (A10) (LRR B)
	pipedon (A2) listic (A3)		Loamy Mu		al (F1)			ed Vertic (F18)
	en Sulfide (A4)		Loamy Gle					arent Material (TF2)
	ed Layers (A5) (LRR	C)	Depleted N				Other	(Explain in Remarks)
1 cm M Deplete Thick D Sandy	uck (A9) (LRR D) ed Below Dark Surface Park Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)		Redox Dar Depleted D Redox Dep Vernal Poo	Dark Surfa pressions	ce (F7)		wetland hy	of hydrophytic vegetation and drology must be present, urbed or problematic.
	Layer (if present):	none						
Type:							L	
Depth (in Remarks:	nches):						Hydric Soil	Present? Yes No
Remarks:	OGY							
YDROLO Wetland Hy	OGY ydrology Indicators		tient)				Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine)
YDROLO Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inunda	OGY	cator is suffic rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic fi Hydroger Oxidized Presence Recent fr Thin Muc	ust (B12) nvertebrat n Sulfide (Rhizosph e of Reduc	Odor (C1) eres along ed Iron (C tion in Plov (C7)	4)	Seco	ndary Indicators (2 or more required)
YDROLO Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inunda	orches):	cator is suffic rine) onriverine) erine)	Salt Crus Biotic Cru Aquatic for Mydroger Oxidized Presence Recent for Thin Muc	ust (B12) nvertebrat n Sulfide (Rhizosph e of Reduc ron Reduc ck Surface xplain in R	Odor (C1) eres along ed Iron (C tion in Plov (C7) emarks)	4)	Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
YDROLO Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inunda Water- Field Obse Surface Water Table Saturation I	ordes): OGY ydrology Indicators licators (any one indi- e Water (A1) //ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) ervations: ater Present? Present? politicators present? present?	cator is sufficential sufficence (Cator is sufficence) Imagery (B7) Yes Yes	Salt Crus Biotic Cru Aquatic for Hydroger Oxidized Presence Recent In Thin Muc Other (E) No Dept No Dept	ust (B12) nvertebrat n Sulfide (Rhizosph e of Reduc ron Reduc ck Surface xplain in R th (inches) th (inches)	Odor (C1) eres along sed Iron (C tion in Plov (C7) emarks)	4) wed Soils (Seco	Indary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) EAC-Neutral Test (D5)
YDROLO Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inunda Water- Field Obse Surface Water Table Saturation I	orches): OGY ydrology Indicators licators (any one indi- e Water (A1) /ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No- eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) ervations: ater Present? e Present?	cator is sufficential sufficence (Cator is sufficence) Imagery (B7) Yes Yes	Salt Crus Biotic Cru Aquatic for Hydroger Oxidized Presence Recent In Thin Muc Other (E) No Dept No Dept	ust (B12) nvertebrat n Sulfide (Rhizosph e of Reduc ron Reduc ck Surface xplain in R th (inches) th (inches)	Odor (C1) eres along sed Iron (C tion in Plov (C7) emarks)	4) wed Soils (Seco	Indary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) EAC-Neutral Test (D5)
YDROLO Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inunda Water- Field Obse Surface Water Table Saturation I	ordes): OGY ydrology Indicators licators (any one indi- e Water (A1) //ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) ervations: ater Present? Present? politicators present? present?	cator is sufficential sufficence (Cator is sufficence) Imagery (B7) Yes Yes	Salt Crus Biotic Cru Aquatic for Hydroger Oxidized Presence Recent In Thin Muc Other (E) No Dept No Dept	ust (B12) nvertebrat n Sulfide (Rhizosph e of Reduc ron Reduc ck Surface xplain in R th (inches) th (inches)	Odor (C1) eres along sed Iron (C tion in Plov (C7) emarks)	4) wed Soils (Seco	Indary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) EAC-Neutral Test (D5)
YDROLO Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Surface Inunda Water- Field Obse Surface Water Table Saturation I (includes co	ordes): OGY ydrology Indicators licators (any one indi- e Water (A1) //ater Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No eposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aerial Stained Leaves (B9) ervations: ater Present? Present? politicators present? present?	cator is sufficential sufficence (Cator is sufficence) Imagery (B7) Yes Yes	Salt Crus Biotic Cru Aquatic for Hydroger Oxidized Presence Recent In Thin Muc Other (E) No Dept No Dept	ust (B12) nvertebrat n Sulfide (Rhizosph e of Reduc ron Reduc ck Surface xplain in R th (inches) th (inches)	Odor (C1) eres along sed Iron (C tion in Plov (C7) emarks)	4) wed Soils (Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C6) Shallow Aquitard (D3) SAC-Neutral Test (D5)

Investigator(s): Valerius Meismai Landform (hillslope, terrace, etc.):v Subregion (LRR): Soil Map Unit Name:Are climatic / hydrologic conditions on the Are Vegetation, Soil, Are Vegetation, Soil, SUMMARY OF FINDINGS — Atta Hydrophytic Vegetation Present? Yes	drawed, e site typical for the	Section Local Lat: 37.0 6-29 significant	on, Townshi relief (cond 073% Slopes Y	Sta ip, Range: cave, conve	te: <u>CA</u> Sampling Point: <u></u> \(\mathcal{U} - \mathcal{Z} \)
Investigator(s): Valerius Meisnal Landform (hillslope, terrace, etc.): Subregion (LRR): Soil Map Unit Name: Cale Loam , Are climatic / hydrologic conditions on the Are Vegetation, Soil, Are Vegetation, Soil, SUMMARY OF FINDINGS — Atta Hydrophytic Vegetation Present? Yes Hydric Soil Present?	dracted,	SectionLocal	on, Townshi relief (cond 0738 Slopes	ip, Range: cave, conve	x, none): Slope (%): Z
Landform (hillslope, terrace, etc.):v Subregion (LRR): Soil Map Unit Name:	drawed, e site typical for the or Hydrology	Local Lat: 37.1 6-29. 3 his time of year signifi	relief (cond 0738 slopes ar? Y	ave, conve	x, none): Slope (%): Z
Subregion (LRR):	drawed,	Lat: <u>37.1</u> 6- <u>29.</u> s nis time of yea	o738 Elopes ar? Y	Lon	g:-123.19 Datum: 65-1984
Soil Map Unit Name: Cale Loam, Are climatic / hydrologic conditions on the Are Vegetation, Soil, Are Vegetation, Soil, BUMMARY OF FINDINGS — Atta Hydrophytic Vegetation Present? Yes Hydric Soil Present?	e site typical for the or Hydrology	6-29 ₀ s nis time of yea signifi	ar? Y		9.
Are climatic / hydrologic conditions on the Are Vegetation, Soil, Are Vegetation, Soil, Soil, SUMMARY OF FINDINGS — Attack Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	site typical for th	nis time of yea	ar? Y		NIMI classification: 40NIE
Are Vegetation, Soil, Are Vegetation, Soil, BUMMARY OF FINDINGS – Atta Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	or Hydrology	signifi			
Are Vegetation, Soil, BUMMARY OF FINDINGS - Atta Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes					
BUMMARY OF FINDINGS – Atta Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes					
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	or Hydrology	natura	ally problem	natic? no	(If needed, explain any answers in Remarks.)
Hydric Soil Present? Yes	ach site map	showing	sampling	point lo	ocations, transects, important features, et
	No_No_		ls th	e Sampled	Area
Wetland Hydrology Present? Yes	No_No_		with	in a Wetlar	
	3 No _				
In Westland	Avec A				
VEGETATION		Obselve	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	Absolute % Cover			Number of Deminent Species
1					That Are OBL, FACW, or FAC: (A
2.					Total Number of Dominant
3.					Species Across All Strata:
4					Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:	-1	-	= Total Co	over	Percent of Dominant Species That Are OBL, FACW, or FAC: (A
Sapling/Shrub Stratum (Plot size:)	2.	4	Eno	Prevalence Index worksheet:
1. Rubus Esmeniacu					Total % Cover of: Multiply by:
2					OBL species x 1 =
3					FACW species x 2 =
4					FAC species x 3 =
J		20	= Total Co	over	FACU species x 4 =
Herb Stratum (Plot size: 5 ft radius	<u>s</u>)				UPL species x 5 =
1. Festerca penennis		20		FAC	Column Totals: (A) (B
2. Arena harbata		20	_4	Upi	B
3. Vicia Satura		10	-4-	Upi	Prevalence Index = B/A =
4. Elynus Caput - ne	edusce	10	~	NL	Hydrophytic Vegetation Indicators: Dominance Test is >50%
					Prevalence Index is ≤3.01
6					Morphological Adaptations¹ (Provide supporting
7					data in Remarks or on a separate sheet)
8					Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:	1	100	= Total Co	over	
1.					Indicators of hydric soil and wetland hydrology must
2.					be present.
% Bare Ground in Herb Stratum			= Total Co		Hydrophytic Vegetation Present? Yes No
Remarks:		. J. D. G. G.			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Nemara.					

Committee of the commit	Matrix		Redo	x Feature				
(inches)	Color (moist)	%	Color (moist)	%_	_Type ¹	_Loc ²	Texture	Remarks
06	104R 2/2	100						wiggard
6-12	167R2/2	90_	104K 4/6	10	<u>C</u>	m		infgrand
Histoso Histoso Histoso Histoso Histoso Stratifio 1 cm M Deplet Thick I Sandy Sandy	Concentration, D=Depi il Indicators: (Applica ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) (LRR 0) Muck (A9) (LRR D) ed Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)	able to all Li	educed Matrix, CS RRs, unless othe Sandy Red Stripped Ma Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Dep	rwise not ox (S5) atrix (S6) cky Minera yed Matrix latrix (F3) c Surface ark Surfac ressions (ed.) al (F1) c (F2) (F6) ce (F7)	d Sand Gr	Indicator 1 cm 2 cm Redu Red I Other	stion: PL=Pore Lining, M=Matrix. Is for Problematic Hydric Soils ³ : Muck (A9) (LRR C) Muck (A10) (LRR B) ced Vertic (F18) Parent Material (TF2) (Explain in Remarks) Is of hydrophytic vegetation and ydrology must be present, sturbed or problematic.
Туре: _	inches):		- L				Hydric So	il Present? Yes V No
								and a ladicator (2 as more required)
Wetland H	lydrology Indicators:							ondary Indicators (2 or more required)
Wetland H Primary Inc Surfac High V Satura Water Sedim Drift D Surfac Inunda Water	dicators (any one indicators: dicators (any one indicators (any one indicators) Water (A1) Vater Table (A2) Ation (A3) Marks (B1) (Nonriversity (B2) (Nonriversity (B3)) Ation (B6) Ation Visible on Aerial II Stained Leaves (B9)	ator is suffici ine) nriverine) rine)	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Iro	st (B12) evertebrate Sulfide C Rhizosphe of Reduce on Reduct c Surface	dor (C1) eres along ed Iron (C4 ion in Plov (C7)		ots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Primary Inc Surface High V Satura Water Sedim Drift D Surface Inunda Water- Field Obse Surface W Water Tab Saturation	dicators (any one indicators: dicators (any one indicators (any one indicators) (any one indicators) (any one indicators) (ation (A3) (ation (A3)) (ation (A3)) (ation (B4)) (ine) nriverine) rine) magery (B7) esN esN	Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized Presence Recent Ird Thin Mucl Other (Ex	st (B12) evertebrate Sulfide O Rhizosphe of Reduct on Reduct c Surface plain in Re in (inches) in (inches) in (inches)	dor (C1) eres along ed Iron (C- ion in Plov (C7) emarks)	t) ved Soils (0	ots (C3) C6) and Hydrolo	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)

Project/Site: Redwood Trail City/County: _	Ukiah/Mendocino		Sampling Date: Feb. 18, 2022
Applicant/Owner: City of Ukiah		Stat	te: <u>CA</u> Sampling Point: <u>W- 3</u>
Investigator(s): Valerius Meranal	Section,	Township, Range:	
andform (hillslope terrace etc.): valley	Local rel	ief (concave, conve	x, none): (MCal Slope (%):
Subregion (LRR): Western Withs & Vallays	Lat: 39.109	ste Lon	g: -123 191 Datum: WG 5 1974
Soil Map Unit Name: Cole loam, draw	200. 0-29	70 Slopes	NWI classification: NOYE
Are climatic / hydrologic conditions on the site typical fo			
Are Vegetation, Soil, or Hydrology	significa	oth disturbed2 no A	re "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology	significa	and distance of the A	//f needed explain any enswers in Remarks \
Are Vegetation, Soil, or Hydrology	naturally	problematic? no	(II needed, explain any answers in remainer)
SUMMARY OF FINDINGS – Attach site ma	ap showing sa	mpling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	lo	Is the Sampled	Area
	No	within a Wetlan	
Wetland Hydrology Present? YesN	10		
In area mapp	ud as We	Hard A	
VEGETATION			
		ominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1		pecies? Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2			Total Number of Dominant
3			Species Across All Strata: (B)
4	=	Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:			Prevalence Index worksheet:
1.			Total % Cover of: Multiply by:
2			OBL species x 1 =
4.			FACW species x 2 =
5			FAC species x 3 =
		Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 5 ft radius	_)	V was	UPL species x 5 =
1. Juncus xyphiades		N OBC	Column Totals: (A) (B)
2. Mensha pute sour		N PACW	Prevalence Index = B/A =
3. Cyperus enagrostis			Hydrophytic Vegetation Indicators:
5.			Dominance Test is >50%
6.			Prevalence Index is ≤3.01
7			Morphological Adaptations ¹ (Provide supporting
8.			data in Remarks or on a separate sheet)
	52 =	Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)			¹Indicators of hydric soil and wetland hydrology must
1			be present.
2			
% Bare Ground in Herb Stratum 48 % C	cover of Biotic Crus	Total Cover	Hydrophytic Vegetation Present? Yes No
Remarks:			

Sampling Point: W-3

Depth (inches)	Color (moist)	%	Color (moist)	ox Feature %	Type ¹	Loc ²	Texture	Remarks
0-12"	Myk 3/z	50	10423/8		C	m	1	
					=	=		
					\equiv			
	ncentration, D=Dep					d Sand Gr	ains. ² Locatio	n: PL=Pore Lining, M=Matrix.
lydric Soil I	ndicators: (Applic	able to all LR	Rs, unless other	erwise not	ted.)		Indicators f	or Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Rec	lox (S5)				uck (A9) (LRR C)
Histic Ep	ipedon (A2)		Stripped M	atrix (S6)			2 cm Mu	uck (A10) (LRR B)
Black His	stic (A3)		Loamy Mu	cky Minera	al (F1)		Reduce	d Vertic (F18)
Hydroger	n Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		Red Par	rent Material (TF2)
Stratified	Layers (A5) (LRR	C)	<u></u> ▶ Depleted N				Other (E	Explain in Remarks)
1 cm Mu	ck (A9) (LRR D)		Redox Dar	k Surface	(F6)			
Depleted	Below Dark Surfac	e (A11)	Depleted D	ark Surfa	ce (F7)			
	rk Surface (A12)		Redox Dep		(F8)			f hydrophytic vegetation and
	ucky Mineral (S1)		Vernal Poo	ls (F9)				rology must be present.
	leyed Matrix (S4)						unless distur	bed or problematic.
Restrictive L	ayer (if present): r	ione						
Type:							Land Street	
Depth (inc	hes)						Huddala Call F	Present? Yes No
							Hydric Soil F	resent? TesNo
Remarks:	GY							
YDROLOG Wetland Hyd	GY Irology Indicators:						Second	lary Indicators (2 or more required)
YDROLOG Wetland Hyd Primary Indic	GY Irology Indicators: ators (any one indic		4.7				Second	lary Indicators (2 or more required) ater Marks (B1) (Riverine)
YDROLOG Wetland Hyd	GY Irology Indicators:		✓ Salt Crus				Wa	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine)
YDROLO(Wetland Hyd Primary Indic Surface \ High War	GY Irology Indicators: ators (any one indic Water (A1) ter Table (A2)		Salt Crus	ıst (B12)			Second Wa Se Dri	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
YDROLO(Wetland Hyd Primary Indic Surface \ High War	GY Irology Indicators: ators (any one indic Water (A1) ter Table (A2)		Salt Crus		es (B13)		Second Wa Se Dri Dra	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)
YDROLOG Wetland Hyd Primary Indic Surface V High War	GY Irology Indicators: ators (any one indic Water (A1) ter Table (A2)	ator is sufficie	Salt Crus Biotic Cru Aquatic Ir	ıst (B12)			Second Wa Se Dri Dra	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
YDROLOG Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Ma	GY Irology Indicators: ators (any one indic Water (A1) ter Table (A2) in (A3)	ator is sufficie	Salt Crus Biotic Cru Aquatic Ir	ist (B12) nvertebrate n Sulfide O	dor (C1)	Living Roo	Second Was Second Dri	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10)
YDROLOG Wetland Hyd Primary Indic Surface \ High War Saturatio Water Ma	GY Irology Indicators: ators (any one indic Water (A1) ter Table (A2) in (A3) arks (B1) (Nonriver	ator is sufficie ine) nriverine)	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized	ist (B12) nvertebrate n Sulfide C Rhizosphe	dor (C1)		Second Wa Se Dri Dra Drg ts (C3) Thi	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
YDROLOG Wetland Hyd Primary Indic Surface \ High Wat Saturatio Water Mater Mat	GY Irology Indicators: ators (any one indic Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriver t Deposits (B2) (No	ator is sufficie ine) nriverine)	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence	ist (B12) nvertebrate n Sulfide O Rhizosphe of Reduc	odor (C1) eres along l)	Second Wa Se Dri Drg Drg ts (C3) Thi Cra	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7)
YDROLOG Wetland Hyd Primary Indic Surface \ High Wat Saturatio Water Ma Sedimen Drift Dep Surface S	Irology Indicators: ators (any one indice Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriver t Deposits (B2) (No	ator is sufficie ine) nriverine) rine)	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence	ist (B12) nvertebrate Sulfide C Rhizosphe of Reduct on Reduct	odor (C1) eres along l ed Iron (C4 tion in Plow)	Second Wa Sea Dri Dra Dra Dra Dra Cra Cra Cra	dary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8)
YDROLOG Wetland Hyde Surface V High Wat Saturatio Water Mater	GY Irology Indicators: ators (any one indic Water (A1) ter Table (A2) in (A3) arks (B1) (Nonriver it Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6)	ator is sufficie ine) nriverine) rine)	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iri Thin Muc	ist (B12) nvertebrate Sulfide C Rhizosphe of Reduct on Reduct	odor (C1) eres along l ed Iron (C4 ion in Plow (C7))	Second Wa Se Dri Dra Drg Drg Cra Cra Cra Sa Sh	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
YDROLOG Wetland Hyd Primary Indic Surface V High Wat Saturatio Water Mater St	Irology Indicators: ators (any one indic Water (A1) ter Table (A2) in (A3) arks (B1) (Nonriver t Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) in Visible on Aerial ained Leaves (B9)	ator is sufficie ine) nriverine) rine)	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Iri Thin Muc	nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct k Surface	odor (C1) eres along l ed Iron (C4 ion in Plow (C7))	Second Wa Se Dri Dra Drg Drg Cra Cra Cra Sa Sh	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
YDROLOG Wetland Hyd Primary Indic Surface N High Wat Saturatio Water Mater Mater Surface Surfa	Irology Indicators: ators (any one indice Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriver t Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) in Visible on Aerial ained Leaves (B9) vations:	ator is sufficie ine) nriverine) rine)	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc	nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct k Surface	edor (C1) eres along led Iron (C4 ion in Plow (C7) emarks))	Second Wa Se Dri Dra Drg Drg Cra Cra Cra Sa Sh	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
YDROLOG Wetland Hyd Primary Indic Surface V High War Saturatio Water M Sedimen Drift Dep Surface S Inundatio Water-St Field Observ Surface Water	Irology Indicators: ators (any one indic Water (A1) ter Table (A2) in (A3) arks (B1) (Nonriver t Deposits (B2) (No osits (B3) (Nonrive Soil Cracks (B6) in Visible on Aerial ained Leaves (B9) vations: ar Present?	ine) nriverine) rine) Imagery (B7)	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex	nst (B12) nvertebrate n Sulfide C Rhizosphe n of Reduct on Reduct k Surface eplain in Re	odor (C1) eres along led Iron (C4 ion in Plow (C7) emarks))	Second Wa Se Dri Dra Drg Drg Cra Cra Cra Sa Sh	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
YDROLOG Wetland Hyd Primary Indic Surface V High Water Sedimen Drift Dep Surface S Inundation Water-St Field Observ Surface Water Vater Table I	Irology Indicators: ators (any one indicators) Ators (any one indicators) Ators (A1) ter Table (A2) In (A3) arks (B1) (Nonriver) It Deposits (B2) (Nonosits (B3) (Nonriver) Soil Cracks (B6) In Visible on Aerial ained Leaves (B9) Arations: Ir Present? Yeresent?	ine) nriverine) rine) imagery (B7)	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex	nst (B12) nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct k Surface cplain in Re h (inches)	edor (C1) eres along led Iron (C4 ition in Plow (C7) emarks)	ed Soils (C	Second	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
YDROLOG Wetland Hyd Primary Indic Surface \(\) High Wat Saturatio Water Mater Surface \(\) Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pri	Irology Indicators: ators (any one indice Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriver t Deposits (B2) (Nonriver t Deposits (B3) (Nonrive Soil Cracks (B6) in Visible on Aerial ained Leaves (B9) vations: er Present? Present? Y esent? Y	ine) nriverine) rine) imagery (B7)	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex	nst (B12) nvertebrate n Sulfide C Rhizosphe n of Reduct on Reduct k Surface eplain in Re	edor (C1) eres along led Iron (C4 ition in Plow (C7) emarks)	ed Soils (C	Second	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3)
YDROLOG Wetland Hyd Primary Indic Surface V High Water Mandation Water Mandation Surface Surface Surface Surface Water Table I Saturation Profits Company Surface Surface Water Table I Saturation Profits Company Surface	Irology Indicators: ators (any one indice Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriver t Deposits (B2) (Nonriver t Deposits (B3) (Nonrive Soil Cracks (B6) in Visible on Aerial ained Leaves (B9) vations: er Present? Present? Y esent? Y	ine) nriverine) rine) Imagery (B7) es No es No	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct k Surface (plain in Re h (inches) h (inches)	odor (C1) eres along led Iron (C4 ion in Plow (C7) emarks)	ed Soils (C	Second	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
YDROLOG Wetland Hyd Primary Indic Surface V High Water Mandation Water Mandation Sedimen Drift Dep Surface Sedimen Unit Dep Surface Sedimen Vater-St Field Observ Surface Water Water Table I Saturation Pro	Irology Indicators: ators (any one indicators) Ators (any one indicators) Ators (A1) ter Table (A2) In (A3) arks (B1) (Nonriver It Deposits (B2) (Nonsits (B3) (Nonriver Soil Cracks (B6) In Visible on Aerial ained Leaves (B9) Attions: In Present? Present? Yesent? Yesent? Yesent? Yesent?	ine) nriverine) rine) Imagery (B7) es No es No	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduct k Surface (plain in Re h (inches) h (inches)	odor (C1) eres along led Iron (C4 ion in Plow (C7) emarks)	ed Soils (C	Second	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
YDROLOG Wetland Hyd Primary Indic Surface V High Water Mandation Water Mandation Water-St Field Observ Surface Water Table I Saturation Profitcudes cap	Irology Indicators: ators (any one indice Water (A1) ter Table (A2) in (A3) arks (B1) (Nonriver it Deposits (B2) (Nonriver Soil Cracks (B6) in Visible on Aerial ained Leaves (B9) vations: ar Present? Present? Yesent?	ine) nriverine) rine) Imagery (B7) Yes No	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex	ast (B12) nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct k Surface cplain in Re h (inches) h (inches) photos, p	edor (C1) eres along led Iron (C4 ion in Plow (C7) emarks)	wetla	Second	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)
YDROLOG Vetland Hyd Primary Indic Surface V High Water Sedimen Drift Dep Surface S Inundation Water-St Field Observ Surface Water Vater Table I Saturation Princludes cap	Irology Indicators: ators (any one indicators) Ators (any one indicators) Ators (A1) ter Table (A2) In (A3) arks (B1) (Nonriver It Deposits (B2) (Nonsits (B3) (Nonriver Soil Cracks (B6) In Visible on Aerial ained Leaves (B9) Attions: In Present? Present? Yesent? Yesent? Yesent? Yesent?	ine) nriverine) rine) Imagery (B7) Yes No	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc Other (Ex	ast (B12) nvertebrate n Sulfide O Rhizosphe of Reduct on Reduct k Surface cplain in Re h (inches) h (inches) photos, p	edor (C1) eres along led Iron (C4 ion in Plow (C7) emarks)	wetla	Second	lary Indicators (2 or more required) ater Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) in Muck Surface (C7) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 allow Aquitard (D3) C-Neutral Test (D5)

Applicant/Owner: City of Ukiah Applicant/Owner: Applicant/	Project/Site: Redwood Trail C	ity/County: Ukiah/Mendocino		Sampling Date: <u>Feb. 18, 2022</u>
Section, Township, Range: Section, Township, Range: Local relief (concave, convex, none): CIDICAL Slope (%): C. Z. John Millstope, terrace, etc.): Visillary Local relief (concave, convex, none): CIDICAL Slope (%): C. Z. Soli Map Unit Name: CID bash Levis 1994 Ave climated: hydrologic contitions on the site typical for this time of year? Visillary Long: 1793, 171 Datum: Local 1994 Ave climated: hydrologic contitions on the site typical for this time of year? Visillary Long: Soli Or Hydrology significantly disturbed? no Are "Normal Cicioumstances" present? Yes X No. Visillary Local 1994 Ave Vegetation Soli Or Hydrology naturally problematic? no (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrochytic Vegetation Present? Yes No. Weltund Hydrology Present? Yes No. Absolute Dominant Indicator Yes Salliva That Are Colle, FACW, or FAC. I Gues Care Local 2 Salliva That Are Colle, FACW, or FAC. I Gues Care Local 2 Salliva That Are Colle, FACW, or FAC. I Ruchellar American Salliva Salliva That Are Colle, FACW, or FAC. I Ruchellar American Salliva Salliva That Are Colle, FACW, or FAC. I Ruchellar American Salliva Salliva That Are Colle, FACW, or FAC. I Ruchellar American Salliva Salliva That Are Colle, FACW, or FAC. I Ruchellar American Salliva Salliva That Are Colle, FACW, or FAC. I Ruchellar American Salliva Salliva That Are Colle, FACW, or FAC. Woody Vine Stratum (Plot size: 5 A Tadius Salliva That Are Colle, FACW, or FAC. I Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Provalence Index: 53.0' Morphologican Adaptations (Provide supporting data in Remarks or on a separate sheet) I I Collegated That Are Collegated That Are Collegated That Provides and Provide Salliva That Indicators of Hydrophytic Vegetation (Explain) I Indicators of Hydric	Applicant/Owner: City of Ukiah		Stat	te: <u>CA</u> Sampling Point: <u>W</u> - 9
Absolute Pydrophytic Vegetation Present? Yes No Salling Chicate Pydrospy Species 2 Status (Plot size: 5) Absolute Pydrospy Species 2 Status (Plot size: 5) Total Cover Space Stratum (Plot size: 5) Total Cover Space Space Species 2 Providence Indicators: 50 Space Sp	nvestigator(s): Valerius . MecSma	Section, T	ownship, Range:	
Solid May Unit Name: When Land Will classification: Ave Vegetation Solid May Unit Name: We deperation Solid May Unit Name: We deperation Solid May Unit Name: We vegetation Solid May Unit Name: Solid May Unit Name: We vegetation Solid May Unit Name: Solid May Unit Name: We vegetation Solid May Unit Name: Solid May Unit Name: Solid May Unit Name: We vegetation Solid May Unit Name: Solid May Unit Name: Solid May Unit Name: We vegetation Solid May Unit Name: Solid May Unit Name: Solid May Unit Name: Solid May Unit Name: We vegetation Solid May Unit Name: Solid May Unit Name: Solid May Unit Name: Solid May Unit Name: Not We vegetation Solid May Unit Name: Not We vegetation Solid May Unit Name: Not We vegetation Press Vegetation Not Vegetation Press Vegetation Not Vegetation Press Name Not Wetland Hydrophytic Vegetation Not Morphophytic Vegetation Not Medicators Not Medicators of hydric soil and wetland hydrology must be present? Not Medicators of hydric soil and wetland hydrology must be present? Not Medicators of hydric soil and wetland hydrology must be present? Not Medicators of hydric soil and wetland hydrology must be present? Not Medicators of hydric soil and wetland hydrology must be present? Not Medicators of hydric soil and wetland hydrology must be present? Not Medicators of hydric soil and wetland hydrology must be present? Not Medicators of hydric soil and wetland hydrology must be present? Not Medicators of hydric soil and wetland hydrology must be present? Not Medicators of hydrologica	andform (hillslone terrace etc.): VA	llev Local relie	f (concave, conve	x, none): Concare Slope (%): 0- Z
Not classification. Port Learn Notice dimatic hydrologic conditions on the site typical for this time of year? Yes X No (if no, explain in Remarks.) re Vegetation Soil or Hydrology significantly disturbed? no Are 'Normal Circumstances' present? Yes X No (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 within a Westland? Yes No Westland Hydrology Present? Yes No within a Westland? Yes No Westland Hydrology Present? Yes No Westland Hydrology Present? Yes No	Coloradia (I DD) / / / / / / / / / / / / / / / / / /	Valleys 1st 39,119	۶フ Lon	a: -123.176 Datum: WGS 1984
re climatic / hydrologic conditions on the site typical for this time of year? Yes X No (fr. o, explain in Remarks) significantly disturbed? no Ane "Normal Circumstances" present? Yes X No we Vegetation Soil or Hydrology naturally problematic? no (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 No within a Westland? Yes No Westland Hydrology Present? Yes No No No Westland Hydrology Present? Yes No No No Westland Hydrology Present? Yes No	Subregion (LRR): Was to the Autor	tal.		NIMI classification: None
## vegetation	Soil Map Unit Name: Ut Dut Lav	the death of the distance of second	Voc V N	(If no explain in Pemarks)
Absolute Species Across All Stratum (Plot size: 5'				
### Sapling/Shrub Stratum (Plot size: 5 Sapling/Shrub Stratum (Plot size: 5 FAC species Total Cover FAC species X = Total Cover Hack Stratum (Plot size: 5 Stratus Sapling/Shrub Stratum (Plot size: 5 Stratus Str				
### Stratum (Plot size: 5 ft radius Sapling/Shrub Shrub Sh	Are Vegetation, Soil, o	r Hydrology naturally p	problematic? no	(If needed, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Work Wetland? Yes No Work Hydrology Present? Yes No Work Hydrology Must be present. Yes No Work Hydrology Must be present? Yes No Work Hydrology Must be present.				
Hydric Soil Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No No Within a Wetland? Yes No No Wetland Hydrology Present? Yes No	a the sale of the	/		
Remarks: Washland Phen C	. 5 . 프리크 : 1 1			
Remarks: Wastland Ahen C , Solls ene assumed - No color because the sell graces /EGETATION Tree Stratum (Plot size: 5'	[19] 하이크레스스 마리아스 기타 (within a wetian	nd? Yes No
### Declaration Solution Solu				
Absolute % Cover Species? Status Number of Dominant Species (A) 1. (Quencus Lobacte Supers)	Westland Area	- c , 507s	ene as bec	ans it was all grates
Tree Stratum (Plot size: 5	/EGETATION	The state of the s		- London - L
1. Gues aux lothate Suplary 2. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	Trac Streetum (Blet size: 57			
2.	1 (9 : 21 A : 25 A : 26	Scales 1		
Species Across All Strata: (B) Sapling/Shrub Stratum (Plot size: 5'				
Sapling/Shrub Stratum Plot size: 5 = Total Cover Percent of Dominant Species That Are OBL, FACW, or FAC: (A/I Section Are OBL, FACW, or FAC: SD (A/I Section Are OBL, FACW, or FAC:				The second of th
Sapling/Shrub Stratum (Plot size: 5 Factor Prevalence Index worksheet: Total % Cover of: Multiply by:	4			
Prevalence Index worksheet:	7-	= T	otal Cover	That Are OBL, FACW, or FAC: (A/B)
Total % Cover of:	Sapling/Shrub Stratum (Plot size:		V Car	
OBL species x1 =	1 Rubus armeniac	50_	7 HAC	
4				
5				
Herb Stratum (Plot size: 5 ft radius 500				
Herb Stratum (Plot size: 5 ft radius 1. Vest bascum blattera 5 N Upl Column Totals: (A) (B) Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Problematic Hydrophytic Vegetation¹ (Explain) Problematic Hydrophytic Vegetation functions of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation functions of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation functions functions of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation functions function	5		otal Cover	
1. Ver bascum blattera 5 M Opl 2. Cuperus enagrostit 5 M Grew 3. Phalanis acqueates 20 Y Gree Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 5 M Grew 3. Phalanis acqueates 20 Y Gree Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 5 M Gree Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 5 M Gree Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 5 M Gree Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 5 M Gree Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 5 M Gree Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 5 M Gree B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 5 M Gree B/A = Hydrophytic Vegetation Present? Ver bascum blattera 5 M Gree B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 5 M Gree B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 6 M Gree B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 6 M Gree B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 6 M Gree B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 6 M Gree B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 6 M Gree B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 6 M Gree B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 6 M Gree B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 6 M Gree B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 6 M Gree B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 6 M Gree B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 6 M Gree B/A = Hydrophytic Vegetation Indicators: Ver bascum blattera 6 M Gree B/A = Hydrophytic Vegetation Indicators 6 M Gree B/A = Hydrophytic Vegetation Indicators 6 M Gree B/A = Hydrophytic Vegetation Indicators 6 M Gree B/A = Hydrophytic Vegetation 1 M Gree B/A = Hydrophytic Vegetation 1 M Gree B/A =	Herb Stratum (Plot size: 5 ft radius			
Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Dominance Test is >50%	1. Verbascum blatten	a 5 1	4 Opl	Column Totals: (A) (B)
Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size:) Indicators of hydric soil and wetland hydrology must be present. ### Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation indicators: Indicators of hydric soil and wetland hydrology must be present. ###################################	2. Cyperus enagrostit	5 N		
4	3. Phalasis acquestie	20	Y PACU	
Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)	4			
Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size:	5			
data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size:) I Indicators of hydric soil and wetland hydrology must be present. The problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Present? Yes No				
8 Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size:) 1 *Indicators of hydric soil and wetland hydrology must be present. 2 = Total Cover				data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size: 'Indicators of hydric soil and wetland hydrology must be present. 2 = Total Cover	8	20		. [1] - B.
1	Moody Vino Stratum (Plot size)	-T	otal Cover	
2 = Total Cover				¹Indicators of hydric soil and wetland hydrology must
% Bare Ground in Herb Stratum % Cover of Biotic Crust Hydrophytic Vegetation Present? Yes No				be present.
% Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes V No No			otal Cover	
Remarks:	% Bare Ground in Herb Stratum	% Cover of Biotic Crust _		
T TO THE TOTAL THE TAIL THE THE TAIL TH	Remarks:			

Sampling Point: W-4

Depth Matrix (inches) Color (moist) %	Color (moist)	<u>Feature</u> %		Loc2	Texture	Remarks
0-						No soils-all
						gravel
	•		-			wy algal mattery
			=			in the second
Type: C=Concentration, D=Depletion, RI	M=Reduced Matrix, CS	=Covere	d or Coate	d Sand Gr		tion: PL=Pore Lining, M=Matrix.
Histosol (A1)	Sandy Redo					Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Ma					Muck (A10) (LRR B)
Black Histic (A3)	Loamy Much		al (F1)			ced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gley					Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Ma					(Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark		(F6)		77.7	Charles and American
Depleted Below Dark Surface (A11)	Depleted Da					
Thick Dark Surface (A12)	Redox Depr	essions ((F8)			of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools	s (F9)				drology must be present,
Sandy Gleyed Matrix (S4)					unless dis	turbed or problematic.
Restrictive Layer (if present): none						
Type:	41					± / \
Depth (inches):					Hydric Soi	Present? Yes 🔀 No
	bee to get	a So	nts c	dor-		rand wy alsol mothers
Remarks: Not a	bee to get	a so	nts c	der -		
	bee to get	a so	nts c	slor-	all g	mathry mothery
Not a		a so	nts c	slov-	Seco	mathry mathry
Not a YDROLOGY Wetland Hydrology Indicators:			nts c	der-	Second	mathry mathry
Primary Indicators (any one indicator is su	ufficient)	(B11)	nts c	dor-	Secondary	mathry modery Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
NOT a YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is su Surface Water (A1)	ufficient) Salt Crust Biotic Crus Aquatic Inv	(B11) st (B12) vertebrate	es (B13)	dor-	Secondary Secondary	mathry mathry mathry mathry mathry mathry mathry mathry Mater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is su Surface Water (A1) High Water Table (A2) Saturation (A3)	ufficient) Salt Crust Biotic Crus	(B11) st (B12) vertebrate	es (B13)	dor-	Secondary Secondary	mathry modery Indicators (2 or more required) Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is su Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	ufficient) Salt Crust Biotic Crus Aquatic Inv Hydrogen	(B11) st (B12) vertebrate Sulfide O	es (B13) odor (C1) eres along	Living Roo	Second 9	mathry Mater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is su Surface Water (A1) High Water Table (A2) Saturation (A3)	ufficient) Salt Crust Biotic Crus Aquatic Inv	(B11) st (B12) vertebrate Sulfide O	es (B13) odor (C1) eres along	Living Roo	Second 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	matkry matkry matkry matkry Mater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Primary Indicators (any one indicator is sue Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	ufficient) Salt Crust Biotic Crus Aquatic Inv Hydrogen	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduce	es (B13) odor (C1) eres along ed Iron (C4	Living Roo	Second Se	mothers modery Indicators (2 or more required) Mater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Primary Indicators (any one indicator is sue Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	ufficient) Salt Crust Biotic Crus Aquatic Int Hydrogen Oxidized R Presence of Recent Iro	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reduct	es (B13) dor (C1) eres along ed Iron (C4	Living Roo	Second Se	matkry matkry matkry matkry Mater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sue Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	ufficient) Salt Crust Biotic Crus Aquatic Int Hydrogen Oxidized R Presence of Recent Iro	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Surface	es (B13) dor (C1) eres along ed Iron (C4 tion in Plow (C7)	Living Roo	Second 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mothers modery Indicators (2 or more required) Mater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sue Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery	ufficient) Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Recent Iro (B7) Thin Muck	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Surface	es (B13) dor (C1) eres along ed Iron (C4 tion in Plow (C7)	Living Roo	Second 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mothery modary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indicators (any one indicator is sue Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Water-Stained Leaves (B9) Field Observations:	ufficient) Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence of Recent Iro (B7) Thin Muck	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Surface blain in Re	es (B13) dor (C1) eres along ed Iron (C4 tion in Plow (C7) emarks)	Living Roo	Second 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mothery modary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indicators (any one indicator is sue Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	ufficient) Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence companies Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Surface blain in Re	es (B13) odor (C1) eres along ed Iron (C4 tion in Plow (C7) emarks)	Living Roo 4) ved Soils (0	Second 1	mathry mathry mathry mathry mathry mathry Mater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (any one indicator is sue Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present?	### Salt Crust ### Salt Crust ### Biotic Crust ### Aquatic Inv ### Hydrogen ### Oxidized R ### Presence of ### Recent Iro ### Cother (Exp ### No Depth ### No Depth	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Surface blain in Re (inches):	es (B13) dor (C1) eres along ed Iron (C4) tion in Plow (C7) emarks)	Living Roo 4) ved Soils (0	Second 1	mothery modary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sue Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Water-Stained Leaves (B9)) Field Observations: Surface Water Present? Water Table Present?	### Salt Crust ### Salt Crust ### Biotic Crust ### Aquatic Inv ### Hydrogen Oxidized F Presence of Recent Iro Thin Muck Other (Exp No Depth No Depth	(B11) set (B12) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Surface blain in Re (inches): (inches)	es (B13) dor (C1) eres along ed Iron (C4 tion in Plow (C7) emarks)	Living Roo 4) ved Soils (0	Second Se	mothery modary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sue Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Water Table Present? Yes Wincludes capillary fringe) Describe Recorded Data (stream gauge, in the capillary fringe)	### Salt Crust ### Biotic Crust ### Aquatic Inv #### Aqu	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Surface blain in Re (inches): (inches)	es (B13) odor (C1) eres along ed Iron (C4) cion in Plow (C7) emarks)	Living Roo 4) yed Soils (0 Wetla	Secondary Second	mothry modary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (any one indicator is sue Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Water Table Present? Yes Water Table Present? (includes capillary fringe) Describe Recorded Data (stream gauge, includes capillary fringe)	### Salt Crust ### Biotic Crust ### Aquatic Inv #### Aqu	(B11) st (B12) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Surface blain in Re (inches): (inches)	es (B13) odor (C1) eres along ed Iron (C4) cion in Plow (C7) emarks)	Living Roo 4) yed Soils (0 Wetla	Secondary Second	mathry mathry mathry mathry mathry mathry Mater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Redwood Trail	City/County	: Ukiah/Mendoc	ino	Sampling Date: Feb. 18, 2022
Applicant/Owner: City of Ukia	h		Star	te: <u>CA</u> Sampling Point: <u>W-5</u>
nvestigator(s): Valerius, mer	smer	Section Section	on, Township, Range:	
andform (hillelone terrace etc.):	valley	Local	relief (concave, conve	x, none): Concerc Slope (%): 07
Subragion (I PR): Western Mb	ry + Valley 5	Lat: 39. 1	2084 Lon	g: -123, 197 Datum: WG3 1984
Sail Man Hait Name: Ut han	Land			NWI classification: _NDNC
Are climatic / hydrologic conditions of	on the cite typica	for this time of yes	ar? Yes X N	o (If no, explain in Remarks.)
Are climatic / nydrologic conditions t	on the site typica	are signif	icantly disturbed? no A	re "Normal Circumstances" present? Yes X No
Are Vegetation, Soil	, or Hydroid	gy signi	ally problematic?	(if peeded, explain any enswers in Remarks.)
Are Vegetation, Soil	, or Hydroid	gynatur	ally problematic? No	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS -	Attach site	map showing	sampling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes V	No	is the Sampled	Area
Hydric Soil Present?	Yes V	No		
Wetland Hydrology Present?	Yes /	_ No		
Remarks: Westland	ID		A 440	
/EGETATION				
Tree Stratum (Plot size:	1	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
1		-	A STATE OF THE PARTY OF THE PAR	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.				T-4-15) where of Deminant
3.				Total Number of Dominant Species Across All Strata: (B)
4.				
			= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size	e: <u>5</u>	_) (/>	U Gar	Prevalence Index worksheet:
1. Rubus as menico	cus	70	7	Total % Cover of: Multiply by:
2				OBL species x 1 =
3				FACW species x 2 =
4				FAC species x 3 =
5		40	= Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 5 ft)		UPL species x 5 =
1. Juneus xiphi	ordes	30	y obl	Column Totals: (A) (B)
				Prevalence Index = B/A =
3.				Hydrophytic Vegetation Indicators:
4				✓ Dominance Test is >50%
6.				Prevalence Index is ≤3.01
7.				Morphological Adaptations¹ (Provide supporting
8.				data in Remarks or on a separate sheet)
		30	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:		_		Indicators of hydric soil and wetland hydrology must
1				be present.
2				
% Bare Ground in Herb Stratum	30 ,	6 Cover of Biotic C	= Total Cover	Hydrophytic Vegetation Present? Yes No
Remarks:				

Sampling Point: W-5

nches) Color (moist) %	Redox Features Color (moist) % T	ype¹Loc²	Texture	Remarks
		Co.	CL	
1-12" joyn3/2 95	104R 4/6 5 0	<u> </u>		Clay Loam
ype: C=Concentration, D=Depletion, R /dric Soil Indicators: (Applicable to a Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): none	M=Reduced Matrix, CS=Covered or all LRRs, unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1 Loamy Gleyed Matrix (F2 Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F6) Redox Depressions (F8) Vernal Pools (F9)	1)	Indicators 1 cm M 2 cm M Reduct Red P Other Indicators wetland by	ion: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils³: Muck (A9) (LRR C) Muck (A10) (LRR B) ed Vertic (F18) arent Material (TF2) (Explain in Remarks) of hydrophytic vegetation and drology must be present, urbed or problematic.
이 없는 것이 없는 사람들이 없는 것이 없는 것이다.				
Type: Depth (inches):	-		Hydric Soil	Present? Yes No
/DROLOGY			- Cana	ndary Indicators (2 or more required)
/etland Hydrology Indicators:				Vater Marks (B1) (Riverine)
rimary Indicators (any one indicator is s		_		Sediment Deposits (B2) (Riverine)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9)	Presence of Reduced In Recent Iron Reduction in	(C1) along Living Roots on (C4) n Plowed Soils (C6	C C C C C C C	Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
ield Observations:	No Depth (inches):	4		
urface Water Present? Yes	No Depth (inches): No Depth (inches): monitoring well, aerial photos, previous	5-1-1 (4.2)		y Present? Yes No
Vater Table Present? Yes aturation Present? Yes ncludes capillary fringe)	No Depth (inches):	5-1-1 (4.2)		y Present? Yes No

pplicant/Owner: City of Ukiah		State	te: <u>CA</u> Sampling Point: <u>W~6</u>
vestigator(s): Valerius , Mecsman	Section	n, Township, Range:	D 2
andform (hillslope, terrace, etc.):valley	Local	relief (concave, conve	x, none): Loncave Slope (%):
ubregion (LRR): Western Mins Fraces	Lat: 5111	Lon	ig175.117 Daton.
oil Map Unit Name: Orban Land			NWI classification: NWI classification:
e climatic / hydrologic conditions on the site typical for	this time of yea	r? Yes X N	o (If no, explain in Remarks.)
re Vegetation, Soil, or Hydrology _	signifi	cantly disturbed? no A	re "Normal Circumstances" present? Yes X No
re Vegetation, Soil, or Hydrology _	natura	ally problematic? no	(If needed, explain any answers in Remarks.)
UMMARY OF FINDINGS – Attach site ma	p showing s	sampling point lo	ocations, transects, important features, etc
		Is the Sampled	l Area
7-11-1-11		within a Wetlar	
Wetland Hydrology Present? Yes No.			
Westland D			
EGETATION	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species? Status	Number of Dominant Species
1			That Are OBL, FACW, or FAC: (A
2			Total Number of Dominant
3			Species Across All Strata: (B
4		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A/
Sepling/Shrub Stratum (Plot size:			Prevalence Index worksheet:
2.			Total % Cover of: Multiply by:
3.			OBL species x 1 =
4			FACW species x 2 =
5			FAC species x 3 =
		= Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 5 ft radius		V 1221	UPL species x 5 =
1. Juneus xiphioides	30	y cor	Column Totals: (A) (B)
2. Vicca sadre	20	y fac	Prevalence Index = B/A =
3. Festuca peronnis	10	N FACU	Hydrophytic Vegetation Indicators:
4. Phaleris aquestica			Dominance Test is >50%
5			Prevalence Index is ≤3.01
6 7			Morphological Adaptations¹ (Provide supporting
8.			data in Remarks or on a separate sheet)
0	80	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)			¹ Indicators of hydric soil and wetland hydrology must
1			be present.
2		= Total Cover	Hydrophytic Vegetation Present? Yes No
N = - 11-11 - 01-1-1 11		uat	110001111
% Bare Ground in Herb Stratum 20 % Co	over or blotte of		-1

Sampling Point: W-6

Profile Description: (Describe to the depth needed to document the indicator or o			
Depth Matrix Redox Features inches) Color (moist) % Color (moist) % Type¹ L	OC2	Texture	Remarks
)-1 25422.5/1 /ce		CL	daylvan
111111 - 1-7		LL	
	n	CL	
2-12 14/13 90 75/R4/L 10 C			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated S	Sand Grain	s. ² Locat	ion: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators	for Problematic Hydric Solls3:
Histosol (A1) Sandy Redox (S5)			Auck (A9) (LRR C)
Histic Epipedon (A2) Stripped Matrix (S6)			fluck (A10) (LRR B)
Black Histic (A3) Loamy Mucky Mineral (F1)			ed Vertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)			arent Material (TF2)
Stratified Lavers (A5) (LRR C) Depleted Matrix (F3)		Other	(Explain in Remarks)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)			
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)			
Thick Dark Surface (A12) Redox Depressions (F8)			of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Vernal Pools (F9)			drology must be present,
Sandy Gleyed Matrix (S4)		unless dis	turbed or problematic.
Restrictive Layer (if present): none			
Туре:	1.	100000	Present? Yes No
Depth (inches):		Hydric Sol	Present? Yes No
Remarks:			
YDROLOGY			andary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators:			Water Marks (B1) (Riverine)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)			Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11)		=	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) SINCRUST (B11) Biotic Crust (B12)		==	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (A3) Wetland Hydrology Indicators: Satt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)		==	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sufficient) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	ving Roots	= =	Water Marks (B1) (RiverIne) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Wetland Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Line	ving Roots	(C3)	Water Marks (B1) (RiverIne) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)		(C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Wetland Hydrology Indicators: Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Line Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plower		(C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sufface Soil Cracks (C7)		(C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water (Explain in Remarks)		(C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Wetland Hydrologen (B11) Water Marks (B1) (Nonriverine) Presence of Reduced Iron (C4) Recent Iron Reduction in Piower Thin Muck Surface (C7) Other (Explain in Remarks) Field Observations:		(C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Depth (inches):		(C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Wes No Depth (inches):	d Soils (C6	(C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Pattems (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Water Stained Leaves (B9) Field Observations: Surface Water Present? Wetland Hydrology (B11) Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Line Oxidized Rhizospheres along Line Presence of Reduced Iron (C4) Recent Iron Reduction in Plower Thin Muck Surface (C7) Other (Explain in Remarks)	d Soils (C6	(C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Linguity Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plower Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	d Soils (C6	(C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Pattems (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Junction Depth (inches): Jun	d Soils (C6	(C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Ling Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Piower Iron Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Sincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections)	d Soils (C6	(C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	d Soils (C6	(C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Line Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plower Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Situration Present? Yes No Depth (inches): Situration Present? Yes No Depth (inches): Situration Present? Yes No Depth (inches):	d Soils (C6	(C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Pattems (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Project/Site: Redwood Trail								
Applicant/Owner: City of Ukiah		G		Stat	te: <u>CA</u> Sampling Po	oint: <u>Up</u>	-1	-
Investigator(s): Valerius Lieusma	e i	Section	on. Townsh	nip. Range:				
Landform (hillslope, terrace, etc.):	valley	Local	relief (con	cave, conve	x, none): Planar	Slope (%	6): 0 - 2	
Subregion (LRR): Western Lun	+ vellys	at: 39, 1	0574	Lon	g:-123 189	Datum:	WES 198	4
Soil Map Unit Name: Cale loam								
Are climatic / hydrologic conditions on t								
Are Vegetation, Soil							Yes X No	
Are Vegetation, Soil								4-
SUMMARY OF FINDINGS – At	tach site map	showing	sampiin	g point io	cations, transects,	importar	it leatures	s, etc.
	'es No <u>i</u>			ne Sampled	Area			
	es No <u>.</u>			nin a Wetlar	nd? Yes	No.	V	
Wetland Hydrology Present? Y Remarks:	es No 👱							
Area at sou Soil characteri		Jrail.	segne	A. 4L	is point potas	leshoo	opland	
VEGETATION		70.00						
Tree Stratum (Plot size:	X	Absolute % Cover		t Indicator Status	Dominance Test work			
1		1			Number of Dominant S That Are OBL, FACW,	pecies or FAC:	0	(A)
2.							-	- ""
3.					Total Number of Domin Species Across All Stra		3	(B)
4.								7
Sapling/Shrub Stratum (Plot size:			= Total C	over	Percent of Dominant S That Are OBL, FACW,		0	(A/B)
1,					Prevalence Index wor	ksheet:		
2.					Total % Cover of:		Multiply by:	
3.					OBL species	x1=	-	
4.					FACW species	x 2 =	=	_
5					FAC species	x3=	·	_
		-	= Total C	over	FACU species	x 4 =		_
Herb Stratum (Plot size: 5 ft radi	us)		V	Upl	UPL species			
1. Avena barbata		20	-	NL	Column Totals:	(A)		_ (B)
2. Bromus diandrus		20	-	FACU	Prevalence Index	= B/A =		
3. Bromus Lordaeceu		5		Upl	Hydrophytic Vegetation			_
5. Runey enspre		1	7	FAC	Dominance Test is		,,,,	
6. Lacture samuela		-1	17_	FACU	Prevalence Index			
7. BSCL Scholzia Co		41	N	NL	Morphological Ada	aptations¹ (P		
8	-		-	-	data in Remark	the Conference of the Sec.		
		85	= Total C	over	Problematic Hydro	phytic Vege	tation1 (Expla	ain)
Woody Vine Stratum (Plot size:)				ALL SECTION AS			50-53
1					¹ Indicators of hydric so be present.	il and wetlan	a hydrology i	must
2.								
0/ Base Craying in Hosts Stratum	% Cove	or of Biotic Cr	= Total C		Hydrophytic Vegetation Present? Yes		lo V	
and the state of t	% Cove	or blotte of	ust		, 1000//11 103_			
% Bare Ground in Herb Stratum/ Remarks:	% Cove	er of Biotic Cr	ust		Present? Yes	N	lo <u>V</u>	-

Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Straiffied Layers (A5) (LRR C) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Redox (S5) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Vernal Pools (F9) Wet Sandy Gleyed Matrix (S4) Restrictive Layer (if present); none Type:	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indi Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Depleted Indicators: (A3) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Redox Depressions (F8) Andy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Vernal Pools (F9) Wet Sandy Gleyed Matrix (S4) United Restrictive Layer (if present): none Type: Depth (inches): Hydrace (A12) Salt Crust (B11) Surface (A12) Salt Crust (B11) Surface (A12) Salt Crust (B11) Surface (A12) Salt Crust (B12) Salt Crust (B13) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3)	**Zecation: PL=Pore Lining, M=Matrix.cators for Problematic Hydric Soils*: 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) icators of hydrophytic vegetation and and hydrology must be present, ss disturbed or problematic.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Siripped Matrix (S6) Siripped Matrix (F2) Siripped Matrix (F2) Siripped Matrix (F3) Siripped	² Location: PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) icators of hydrophytic vegetation and and hydrology must be present, ss disturbed or problematic.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Siripped Matrix (S6) Siripped Sirip	cators for Problematic Hydric Solls ³ : 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) icators of hydrophytic vegetation and and hydrology must be present, ss disturbed or problematic.
Sandy Gleyed Matrix (S4) Restrictive Layer (if present): none Type: Depth (inches): Netranks: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3)	ss disturbed or problematic.
Restrictive Layer (if present): none Type: Depth (inches): Hyd Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3)	ic Soil Present? Yes No
Depth (inches):	ic Soil Present? Yes No
Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3)	ic Soil Present? Yes No
Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Metal Marks (Marks (Marks) (Nonriverine) Sediment Deposits (Marks) Water Marks (Marks) (Nonriverine) Sediment Deposits (Marks) Sufficient Marks (Marks) Salt Crust	
Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Primary Indicators (any one indicator is sufficient) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Secondary Indicators (2 or more required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Surface Water (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Water Marks (B1) (Riverine)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)	Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
(includes capillary fringe)	drology Present? YesNo
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if avail	able:
Remarks:	

Project/Site: Redwood Trail	City/County: U	kiah/Mendoc	ino	- Lander	Sampling Date: Feb	18, 2022		_
Applicant/Owner: City of Ukiah				Stat	e: <u>CA</u> Sampling Poir	nt: <u>Up -</u>	2	-
nvestigator(s): Valerius , Meism								
andform (hillslope, terrace, etc.):	vallev	Local	relief (cond	ave, conve	x, none): alanar	_ Slope (%)	0.2	
Subregion (LRR): Wooken Mins	+ Valles	Lat: 39. 1	0698	Lon	g: -123, 19	Datum:	CS-198	4
oil Map Unit Name: Cole Loan	dans	0-29	Stope	1	NWI classification:	HONE		
re climatic / hydrologic conditions on th								
re Vegetation, Soil							es X No	
re Vegetation, Soil	, or Hydrology	significant	ally problem	atic? no	(If needed, evolain any ar	swers in Re	marks.)	
re Vegetation, Soil	, or Hydrology	natura	ally problem	latic? 110	(II fleeded, explain any ar	iswers in rec	ilaino.	
SUMMARY OF FINDINGS - Att	ach site map	showing s	sampling	point lo	cations, transects, i	mportant	features	s, etc.
Hydrophytic Vegetation Present? Ye	esNo_	/	le th	e Sampled	Arna			
	esNo_		15 (1)		nd? Yes	No _	V	
	es No _		With	iii a vvetiai	105			1
Sample point								
LOCIATION		Absolute	Dominant	Indicator	Dominance Test works	heet:		
Tree Stratum (Plot size:		% Cover	Species?	Status	Number of Dominant Sp That Are OBL, FACW, o	ecies	0	(A)
1							-	- 10
3.					Total Number of Domina Species Across All Strati		3	(B)
4.								
			= Total Co	over	Percent of Dominant Spo That Are OBL, FACW, o	r FAC:	0	_ (A/B)
Sapling/Shrub Stratum (Plot size:					Prevalence Index work	sheet:		
2.					Total % Cover of:	Mt	ultiply by:	_
3					OBL species	x 1 =		ė.
4					FACW species			
5					FAC species			
Herb Stratum (Plot size: 5 ft radiu		-	= Total Co	over	FACU species			
Herb Stratum (Plot size: 5 ft radiu 1. Arena bantata		40	Y	UPL	UPL species			
2. Lectura serriola		5	H	PACU	Column Totals.	(^)		_ (D)
3. Bromus diandres		20	4	NL	Prevalence Index	= B/A =		۵.
4. Bromen hordre ce		20	У	PACU	Hydrophytic Vegetatio		:	
5. Vicia Sahra		5	1	Upi	Dominance Test is			
6. Rusey enspers		5	H	FAC	Prevalence Index is		ulda -	
7			-		Morphological Adam data in Remarks	or on a sepa	rate sheet)
8		0.0	-		Problematic Hydron			
Woody Vine Stratum (Plot size:)	95	= Total C	over				
1.					Indicators of hydric soil	and wetland	hydrology	must
2.					be present.			
			= Total C	over	Hydrophytic			
% Bare Ground in Herb Stratum	% Cove	er of Biotic Cr	rust		Vegetation Present? Yes	No	/	-
Remarks:								

Sampling Point: 0 - Z

Depth	Matrix			x Feature			21.3	
(inches) Colo	r (moist)	%	Color (moist)	%	_Type ¹ _	_Loc ² _	Texture	Remarks
0-2 1041	23/1	100						
2-12 1041	23/1	99	104R 5/8	1	C	m	L	mother very fact and
						-		few - at south and
								of mapped wellar
					\equiv			Treypea weres
							21	- Di-Daya Linian McMoteir
Type: C=Concentrate Hydric Soil Indicator	ion, D=Dep	etion, RM=	Reduced Matrix, C	S=Covered	or Coate	a Sana Gr	Indicator	ation: PL=Pore Lining, M=Matrix. rs for Problematic Hydric Soils ³ :
	rs: (Applica	able to all			eu.)			Muck (A9) (LRR C)
Histosol (A1)	A2)		Sandy Red Stripped M	the second second				Muck (A10) (LRR B)
Histic Epipedon (Black Histic (A3)	M2)		Loamy Muc		(F1)			uced Vertic (F18)
Hydrogen Sulfide	(A4)		Loamy Gle					Parent Material (TF2)
Stratified Layers		;)	Depleted N		17/10/1			er (Explain in Remarks)
1 cm Muck (A9) (Redox Dan		(F6)			
Depleted Below I		(A11)	Depleted D					
Thick Dark Surfa	ce (A12)		Redox Dep	ressions (F8)		3Indicato	rs of hydrophytic vegetation and
Sandy Mucky Mir			Vernal Poo	ls (F9)				nydrology must be present,
Sandy Gleyed Ma	atrix (S4)						unless di	sturbed or problematic.
Restrictive Layer (if	present): n	one						
Type:							D. Alexander	
Depth (inches): Remarks:							Hydric So	oil Present? Yes No
Remarks:							Hydric So	oil Present? YesNo
Depth (inches): Remarks: YDROLOGY Wetland Hydrology								ondary Indicators (2 or more required)
YDROLOGY	Indicators:	ator is suffi	cient)					ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Remarks: YDROLOGY Wetland Hydrology	Indicators: ny one indic	ator is suffi	cient) Salt Crusi	t (B11)				condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Remarks: YDROLOGY Wetland Hydrology Primary Indicators (at	Indicators: ny one indic	ator is suffi						ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
YDROLOGY Wetland Hydrology Primary Indicators (al Surface Water (A	Indicators: ny one indic	ator is suffi	Salt Crust		es (B13)			condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
YDROLOGY Wetland Hydrology Primary Indicators (all	Indicators: ny one indic (1) e (A2)		Salt Crust Biotic Cru Aquatic Ir	ıst (B12)				wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Primary Indicators (all Surface Water Table Saturation (A3) Water Marks (B1)	Indicators: ny one indic (1) e (A2)	ne)	Salt Crust Biotic Cru Aquatic Ir Hydrogen	ist (B12) ivertebrate	dor (C1)	Living Roc	Sec.	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Primary Indicators (at High Water Table Saturation (A3)	Indicators: ny one indic (1) e (A2)) (Nonriveri	ine) nriverine)	Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized	ist (B12) nvertebrate Sulfide O	dor (C1) eres along		Sec.	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Primary Indicators (and High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Indicators: ny one indic (1) e (A2)) (Nonriveri its (B2) (Nori	ine) nriverine)	Salt Crust Biotic Cru Aquatic Ir Hydrogen Oxidized Presence	ist (B12) nvertebrate Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C4	1)	Sec	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Primary Indicators (at High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B) Surface Soil Crace	Indicators: ny one indic (1) e (A2)) (Nonriverits (B2) (Noriverits) (Nonriverits) (Nonriverits) (Nonriverits) (Nonriverits) (B6)	ne) nriverine) rine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir	ist (B12) nvertebrate Sulfide O Rhizosphe of Reduce	dor (C1) eres along ed Iron (C4 ion in Plow	1)	Sec	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8)
Primary Indicators (and High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Indicators: ny one indicators (1) e (A2)) (Nonriverits (B2) (Nonriverits (B2) (Nonriverits (B6)) e on Aerial I	ne) nriverine) rine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir 7) Thin Muc	nst (B12) nvertebrate Sulfide O Rhizosphe of Reduce on Reduction	dor (C1) eres along ed Iron (C4 ion in Plow (C7)	1)	Sec	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Primary Indicators (and Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Surface Soil Crace Inundation Visible	Indicators: ny one indicators (A1) e (A2)) (Nonriverints (B2) (Nonriverints (B2) (Nonriverints (B6)) e on Aerial I eaves (B9)	ne) nriverine) rine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir 7) Thin Muc	nvertebrate a Sulfide O Rhizosphe of Reduction k Surface	dor (C1) eres along ed Iron (C4 ion in Plow (C7)	1)	Sec	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Primary Indicators (a) Surface Water (A) High Water Table Saturation (A3) Water Marks (B1) Sediment Depose Drift Deposits (B) Surface Soil Crac Inundation Visible Water-Stained Le	Indicators: ny one indic (1) e (A2)) (Nonriveri its (B2) (Noriveri cks (B6) e on Aerial I eaves (B9)	ne) nriverine) rine)	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir 7) Thin Muci	nvertebrate a Sulfide O Rhizosphe of Reduction k Surface	dor (C1) eres along ed Iron (C4 ion in Plow (C7) emarks)	1)	Sec	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
YDROLOGY Wetland Hydrology Primary Indicators (all Surface Water (A) High Water Table Saturation (A3) Water Marks (B1) Sediment Depos Drift Deposits (B3) Surface Soil Crace Inundation Visible Water-Stained Le Field Observations: Surface Water Preser	Indicators: ny one indicators (A1) e (A2) (Nonriverits (B2) (Nonriverits (B6) e on Aerial I eaves (B9) nt? Y	ne) nriverine) rine) magery (B:	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muc	ist (B12) invertebrate i Sulfide O Rhizosphe of Reduct on Reduct k Surface i plain in Re	dor (C1) eres along ed Iron (C4 ion in Plow (C7) emarks)	1)	Sec	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Proposits (B) Surface Soil Crac Inundation Visible Water Stained Le Field Observations: Surface Water Present Water Table Present	Indicators: ny one indicators: (A1) e (A2)) (Nonriverints (B2) (Nonriverints (B6) e on Aerial I eaves (B9) nt? Y	ne) nriverine) rine) magery (B:	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muci Other (Ex	ist (B12) invertebrate is Sulfide O Rhizosphe of Reduction Reducti	dor (C1) eres along ed Iron (C4 ion in Plow (C7) emarks)	(i) yed Soils (i	Sec ————————————————————————————————————	wondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Proposits (B) Surface Soil Crac Inundation Visible Water Table Surface Soil Crac Inundation Visible Water Stained Le Field Observations: Surface Water Present' Saturation Present?	Indicators: ny one indic (1) e (A2)) (Nonriveri its (B2) (Noriveri cks (B6) e on Aerial I eaves (B9) nt? Y	ne) nriverine) rine) magery (B:	Salt Crusi Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muci Other (Ex	ast (B12) avertebrate a Sulfide O Rhizosphe of Reduct on Reduct on Reduct k Surface aplain in Re th (inches):	dor (C1) eres along ed Iron (C4 ion in Plow (C7) emarks)	(i) yed Soils (i	Sec ————————————————————————————————————	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Proposits (B) Surface Soil Crac Inundation Visible Water Stained Le Field Observations: Surface Water Present Water Table Present	Indicators: ny one indicators: (A1) e (A2)) (Nonriverints (B2) (Nonriverints (B6)) e on Aerial I eaves (B9) nt? Y y nge)	ne) nriverine) rine) magery (B: eseseses	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muci Other (Ex No Depti No Depti	ist (B12) invertebrate is Sulfide O Rhizosphe of Reduction Reduction k Surface oplain in Refunction in (inches): h (inches):	dor (C1) eres along ed Iron (C4 ion in Plow (C7) emarks)	ved Soils (0	Secondary Second	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Proposition of the control of the co	Indicators: ny one indicators: (A1) e (A2)) (Nonriverints (B2) (Nonriverints (B6)) e on Aerial I eaves (B9) nt? Y y nge)	ne) nriverine) rine) magery (B: eseseses	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muci Other (Ex No Depti No Depti	ist (B12) invertebrate is Sulfide O Rhizosphe of Reduction Reduction k Surface oplain in Refunction in (inches): h (inches):	dor (C1) eres along ed Iron (C4 ion in Plow (C7) emarks)	ved Soils (0	Secondary Second	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Proposits (B) Surface Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B) Surface Soil Crac Inundation Visible Water-Stained Le Field Observations: Surface Water Present Water Table Present? (includes capillary frincludes cap	Indicators: ny one indicators: (A1) e (A2)) (Nonriverints (B2) (Nonriverints (B6)) e on Aerial I eaves (B9) nt? Y y nge)	ne) nriverine) rine) magery (B: eseseses	Salt Crus Biotic Cru Aquatic Ir Hydrogen Oxidized Presence Recent Ir Thin Muci Other (Ex No Depti No Depti	ist (B12) invertebrate is Sulfide O Rhizosphe of Reduction Reduction k Surface oplain in Refunction in (inches): h (inches):	dor (C1) eres along ed Iron (C4 ion in Plow (C7) emarks)	ved Soils (0	Secondary Second	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)

Section State CA Sampling Point Ca	Project/Site: Redwood Trail							
Local relief (concave, convex, none)								
Datum Work Datum								
New Journal Name: Cole Joan, Massac 0-240 Style red climatic I hydrologic conditions on the site typical for this time of year? Yes X. No. (If no. explain in Remarks.) see Vegetation, Soil or Hydrology significantly disturbed? no Are "Normal Circumstances" present? Yes X No reversely on the Vegetation, Soil or Hydrology naturally problematic? no (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, et Hydrophytic Vegetation Present? Yes No								
re climatic / hydrologic conditions on the site typical for this time of year? Yes X No (if no, explain in Remarks.) re Vegetation Soil or Hydrology significantly disturbed? no Are "Normal Circumstances" present? Yes X No re Vegetation Soil or Hydrology naturally problematic? no (if needed, explain any answers in Remarks.) RUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, et Hydrochytic Vegetation Present? Yes No								
re Vegetation Soil or Hydrology significantly disturbed? no Are "Normal Circumstances" present? Yes X No re Vegetation Soil or Hydrology naturally problematic? no (if needed, explain any answers in Remarks.) ### Prevalence Index worksheet: Total Number of Dominant Species That Are OBL, FACW, or FAC. All Species X 1 = FACW species X 2 = FACW species X 3 = FACW species X 4 = UPL species X 5 = Column Totals: (A) (B) Prevalence Index worksheet: Yes	oil Map Unit Name: <u>Cole Iva</u>	m, drawed,	0-290	Sty	u	NWI classificatio	11: NONE	
### Revertation	re climatic / hydrologic conditions o	n the site typical for th	is time of ye	ar?	Yes X N	o (If no, explain in	Remarks.)	
### Revigetation	re Vegetation, Soil	, or Hydrology	signif	icantly	disturbed? no A	re "Normal Circumsta	ances" present?	Yes <u>X</u> No
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, et Hydrophytic Vegetation Present? Yes No within a Wetland? Yes No within a Wetland? Yes No No within a Wetland hydrology must be present.								
Hydrophytic Vegetation Present? Yes No within a Wetland? Yes No within								
Wetland Hydrology Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Within a Wetland? Yes	SUMMARY OF FINDINGS -	Attach site map	showing	samp	ling point lo	cations, transec	ets, importa	nt features, et
Wetland Hydrology Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Within a Wetland? Yes	Hydrophytic Vegetation Present?	Yes No 1	/		s the Sampled	Area		
Sample path faker on "bank" area above dapapent to 2	19 개 : 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Yes No _	/	11.7			No	
Sample post taker in "bank" area above dajapmi b-2	Wetland Hydrology Present?	Yes No 1					/\\\	
Absolute		ost taken o	n ba	ME	area	stave doju		
Number of Dominant Species	EGETATION		Absolute	Domir	nant Indicator	Dominance Teet w	vorksheet.	
1.	Tree Stratum (Plot size:)						
Total Number of Dominant Species Across All Strata: 3 (B)								(A
Species Across All Strata: All All Across All Strata: All All Across All Strata: All Across All Strata: All All Across All Strata: All Across All Across All Across All Across All Across All Strata: All Across All Strata: All Across All Across All Across All Across All Across	2					Total Number of Do	ominant	2
Sapling/Shrub Stratum Plot size:	3							
Sapling/Shrub Stratum Plot size:	4,					Percent of Dominar	nt Species	0
Prevalence Index worksheet: Total % Cover of:	Sanling/Shruh Stratum (Plot size	1	-	= Tota	al Cover			(A/
Total % Cover of: Multiply by:	The state of the s					Prevalence Index	worksheet:	
OBL species x 1 =						Total % Cover	of:	Multiply by:
FACW species x 2 =	The state of the s					OBL species	x1	
FACU species						FACW species	x 2	=
Herb Stratum (Plot size: 5 ft radius 10	5		_			FAC species	x 3	=
Vicit Satre 10		- 16.2 X		= Tota	al Cover			
Prevalence Index = B/A =				*	Uni		- 1/2	
Prevalence Index = B/A =				7		Column Totals:	(A)	(B)
Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Problematic Hydrophytic Vegetation Hydrophytic Vegetation Problematic Hydrophytic Vegetation				4		Prevalence In	idex = B/A = _	
Dominance Test is >50% Prevalence Index is ≤3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) **Total Cover** **Junc = Total Cover** **Indicators of hydric soil and wetland hydrology must be present. **Hydrophytic Vegetation Present?* **Hydrophytic Vegetation Present?* **Yes No						Hydrophytic Vege	tation Indicato	rs:
Prevalence Index is ≤3.0¹						Dominance Te	est is >50%	
Moody Vine Stratum (Plot size: = Total Cover						Prevalence Inc	dex is ≤3.01	
8 = Total Cover	7.					Morphological	Adaptations ¹ (P	rovide supporting
Woody Vine Stratum (Plot size:) 1 = Total Cover 2 = Total Cover #ydrophytic vegetation Present? Yes No				_				A SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRES
1	Mondy Vine Strature /Diet circu	Α.	100	= Tota	al Cover	Froblematic H	yaropriyuc vege	ration (Explain)
be present.						¹Indicators of hydric	soil and wetlar	nd hydrology must
### Total Cover Hydrophytic Vegetation Present? Yes No No No No No No No N					-		ASST THE MANA	,
% Bare Ground in Herb Stratum % Cover of Biotic Crust Present? Yes No	<u>-</u> ,		*		al Cover	Hydrophytic		1
Remarks:	% Bare Ground in Herb Stratum	% Cove	r of Biotic Cr			Vegetation	s	10
	Remarks:		-					

Sampling Point: 4-3

Color (moist) 5, Color (moist) 7, Color (Depth Matrix		Feature	s			Section 10
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining, M=Matrix, Pydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1)	(inches) Color (moist) %	Color (moist)	%	Type ¹	_Loc²		Remarks
Histosol (A1)	0-12 104R 3/3 100			سست		Luan	
Sandy Gleyed Matrix (S4) cestrictive Layer (if present): none Type:	ydric Soil Indicators: (Applicable to all Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	LRRs, unless other Sandy Redo Stripped Ma Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depre	wise not x (S5) trix (S6) xy Minera ed Matrix atrix (F3) Surface ark Surface essions (red.) al (F1) c (F2) (F6) ce (F7)	d Sand Gr	Indicators for 1 cm Mu 2 cm Mu Reduced Red Pan Other (E	or Problematic Hydric Solls ³ : lck (A9) (LRR C) lck (A10) (LRR B) d Vertic (F18) ent Material (TF2) explain in Remarks) f hydrophytic vegetation and
Type:	Sandy Gleyed Matrix (S4)	vernal Pools	(La)				
Popth (inches):							
Pyprocess (Primary Indicators (2 or more required) Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Sufface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Riverine) Sufface Water (B1) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Primary Indicators (B1) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Riverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches):							
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) Water Marks (B1) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Other (Explain in Remarks) Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Type:						No. No.
Primary Indicators (any one indicator is sufficient) Surface Water (A1) Salt Crust (B11) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Thin Muck Surface (C7) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation previous inspections), if available: Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B3) (Riverine) Drift Deposits (B1) (Riverine) Drift Deposits (B1) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (B1) (Riverin	Depth (inches):					Hydric Soil P	resent? Yes No
Surface Water (A1)	Depth (inches):Remarks:						
Water Marks (B1) (Nonriverine)	Depth (inches):					Second	ary Indicators (2 or more required)
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Depth (inches):	ficient) Salt Crust Biotic Crus	t (B12)	no (P42)		<u>Second</u> Wa Sec Drif	ary Indicators (2 or more required) ster Marks (B1) (Riverine) diment Deposits (B2) (Riverine) ft Deposits (B3) (Riverine)
Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (E Water-Stained Leaves (B9)	ficient) Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron Thin Muck	t (B12) rertebrate Sulfide O chizosphe of Reduce n Reducti Surface	dor (C1) eres along ed Iron (C4 ion in Plow (C7)	1)	Second Wa	iary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) If Deposits (B3) (Riverine) Idinage Patterns (B10) Idinage Patterns (B10) Idinage Patterns (C2) In Muck Surface (C7) In Muck Surface (C7) In Muck Surface (C8) Interval Imagery (C9)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Depth (inches):	ficient) Salt Crust Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron Thin Muck Other (Exp	t (B12) rertebrate Sulfide O chizosphe of Reduce of Reduct Surface lain in Re	dor (C1) eres along ed Iron (C4 ion in Plow (C7) emarks)	1)	Second Wa	iary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) If Deposits (B3) (Riverine) Idinage Patterns (B10) Idinage Patterns (B10) Idinage Patterns (C2) In Muck Surface (C7) In Muck Surface (C7) In Muck Surface (C8) Interval Imagery (C9)
Remarks:	Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (E Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes	Ficient) Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence C Recent Iron Thin Muck Other (Exp	t (B12) rertebrate Sulfide O hizosphe of Reduct Surface lain in Re (inches):	dor (C1) eres along ed Iron (C4 ion in Plow (C7) emarks)	(i) yed Soils (i	Second	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Ift Deposits (B3) (Riverine) Idinage Patterns (B10) Idinage Patterns (B10) Idinage Patterns (C2) In Muck Surface (C7) In Muck Surface (C7) In Muck Surface (C8) Ituration Visible on Aerial Imagery (C9 Interior Imagery (C9 Inter
	Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient of the sufficient	Salt Crust Biotic Crust Aquatic Inv Hydrogen S Oxidized R Presence C Recent Iron Thin Muck Other (Exp	t (B12) rertebrate Sulfide O hizosphe of Reduct Reduct Surface lain in Re (inches): (inches):	dor (C1) eres along ed Iron (C4) ion in Plow (C7) emarks)	wed Soils (0	Second Wa Sec Drit Dra Dry ats (C3) Thi Cra C6) Sat Sha FA	lary Indicators (2 or more required) Inter Marks (B1) (Riverine) Idiment Deposits (B2) (Riverine) Idiment Deposits (B3) (Riverine) Idiment Deposits (B10) Idimen

Project/Site: Redwood Trail C	City/County: Ukiah/Mendoc	ino	Sampling Date: Feb. 18, 2022
Applicant/Owner: City of Ukiah		State	e: <u>CA</u> Sampling Point: <u>Up - 4/</u>
nvestigator(s): Valerius , Meis mon	Section	on, Township, Range: _	
andform (hillslone terrace etc.): Vi	alley Local	relief (concave, convex	(, none): <u>ConCa+</u> Slope (%): <u>0 - 2</u>
Subsection (IRBN) / Jos (ac. M/As t	Valley 5 1 at 39, 4	39.7 Long	:-123,193 Datum:45 1984
Subregion (LRR): Waster Care Do	Lat. St. 1		NWI classification: No No
Are climatic / hydrologic conditions on the	site typical for this time of year	ary Yes X No	(if no, explain in Remarks.)
Are Vegetation, Soil,	or Hydrology signifi	icantly disturbed? no Ar	e "Normal Circumstances" present? Yes X No
Are Vegetation, Soil,	or Hydrology natura	ally problematic? no	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Atta	ch site map showing	sampling point lo	cations, transects, important features, etc.
	No No	is the campion	
201 7 - 일 12 12 10 10 12 2 15 1 15 10 10 10 10 10 10 10 10 10 10 10 10 10	No /	within a Wetlan	d? YesNo
Sample	point in a s	slight Conca	re area
/EGETATION	Language Security (Security Security Se		
Tree Stratum (Plot size:		Dominant Indicator Species? Status	Dominance Test worksheet:
1.		Carried Control of the Control of th	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.			Total Number of Dominant
3.			Total Number of Dominant Species Across All Strata: (B)
4.			Percent of Dominant Species 6740
		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B)
Sapling/Shrub Stratum (Plot size:			Prevalence Index worksheet:
1			Total % Cover of: Multiply by:
2			OBL species x 1 =
3.			FACW species x 2 =
5.			FAC species x 3 =
5		= Total Cover	FACU species x 4 =
Herb Stratum (Plot size: 5 ft radius		20.5	UPL species x 5 =
1. Unknown grasses		y ?(mc)	Column Totals: (A) (B)
2. Festuca perennis		H FAC	Prevalence Index = B/A =
3. Avena barbata		Y Upil	Hydrophytic Vegetation Indicators:
4. Hordam murinus			Dominance Test is >50%
5			Prevalence Index is ≤3.0¹
6			Morphological Adaptations¹ (Provide supporting
7			data in Remarks or on a separate sheet)
8		= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:		- 10(a) 00V61	
1			Indicators of hydric soil and wetland hydrology must
2			be present.
	-	= Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum	% Cover of Biotic Cr	rust	Present? Yes No
Remarks:			
Assumed (unknown grase	ous are FAC	2
	0		

Sampling Point: Up - 4

Profile Description: (Describe to the depo	Redox Features			200-010-
(inches) Color (moist) %	Color (moist) % Type ¹	Loc ²	Texture	Remarks
0-6" No Color			1	ALL GRANT
				-no real soils
				Urban LAND
Type: C=Concentration, D=Depletion, RM= lydric Soil Indicators: (Applicable to all Histosol (A1)	LRRs, unless otherwise noted.) Sandy Redox (S5)	Sand Grai	Indicators 1 cm M	on: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils³: uck (A9) (LRR C) uck (A10) (LRR B)
Histic Epipedon (A2)	Stripped Matrix (S6)			ed Vertic (F18)
Black Histic (A3)	Loamy Mucky Mineral (F1)			rent Material (TF2)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)			Explain in Remarks)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3) Redox Dark Surface (F6)		00001	Explain III Northanks,
1 cm Muck (A9) (LRR D)	Depleted Dark Surface (F7)			
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Redox Depressions (F8)		3Indicators	of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)			Irology must be present,
Sandy Mucky Millerar (S1) Sandy Gleyed Matrix (S4)				irbed or problematic.
Restrictive Layer (if present): none				
Type:				
Depth (inches):			Hydric Soil	Present? Yes No
		- 1		
YDROLOGY			Secon	dary Indicators (2 or more required)
Remarks: YDROLOGY Wetland Hydrology Indicators:	cient)			dary Indicators (2 or more required) later Marks (B1) (Riverine)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffi			w	
Primary Indicators (any one indicator is suffice Surface Water (A1)	Salt Crust (B11)		w	ater Marks (B1) (Riverine)
Primary Indicators (any one indicator is sufficient Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)		w _ s	ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient of the surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13)		W _ s _ D _ D	rater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10)
Primary Indicators (any one indicator is suffi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	vina Roots	W so 0 0	rater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv	ving Roots	W Si D D D D D	rater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rin Muck Surface (C7)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient of the sufficien	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4)		W Si D D D D D Ti C	rater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rin Muck Surface (C7) rayfish Burrows (C8)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient of the surface water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed		W Si D D D D C C Si Si	later Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C
Primary Indicators (any one indicator is suffice Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Thin Muck Surface (C7)		W Si D D D D TI C Si Si	rater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C raallow Aquitard (D3)
Primary Indicators (any one indicator is sufficiently Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed		W Si D D D D TI C Si Si	later Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) nin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C
Primary Indicators (any one indicator is sufficient (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B) Water-Stained Leaves (B9) Field Observations:	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Thin Muck Surface (C7) Other (Explain in Remarks)		W Si D D D D TI C Si Si	rater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C raallow Aquitard (D3)
Primary Indicators (any one indicator is suffice Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Thin Muck Surface (C7) Other (Explain in Remarks)		W Si D D D D TI C Si Si	rater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C raallow Aquitard (D3)
Primary Indicators (any one indicator is suffigure Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Bit Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present?	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	d Soils (Co	W Si D D D TI C 6) Si Fi	rater Marks (B1) (Riverine) radiment Deposits (B2) (Riverine) raft Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rain Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (any one indicator is sufficiently Saturation (A3) Water Marks (B1) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Wes Saturation Present? Saturation Present? Ses Saturation Present?	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Thin Muck Surface (C7) Other (Explain in Remarks)	d Soils (Co	W Si D D D TI C 6) Si Fi	rater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) rift Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rin Muck Surface (C7) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C raallow Aquitard (D3)
Primary Indicators (any one indicator is suffi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B' Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? (includes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Wetlan		rater Marks (B1) (Riverine) radiment Deposits (B2) (Riverine) raft Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rain Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (any one indicator is sufficiently Saturation (A3) Water Marks (B1) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Wes Saturation Present? Saturation Present? Ses Saturation Present?	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Wetlan		rater Marks (B1) (Riverine) radiment Deposits (B2) (Riverine) raft Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rain Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (any one indicator is suffigure Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Bigure Water Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes [includes capillary fringe) Describe Recorded Data (stream gauge, more	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Wetlan		rater Marks (B1) (Riverine) radiment Deposits (B2) (Riverine) raft Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rain Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (any one indicator is suffi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B' Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? (includes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Wetlan		rater Marks (B1) (Riverine) radiment Deposits (B2) (Riverine) raft Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rain Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)
Primary Indicators (any one indicator is suffice Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B') Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Liv Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed 7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Wetlan		rater Marks (B1) (Riverine) radiment Deposits (B2) (Riverine) raft Deposits (B3) (Riverine) rainage Patterns (B10) ry-Season Water Table (C2) rain Muck Surface (C7) rayfish Burrows (C8) raturation Visible on Aerial Imagery (Canallow Aquitard (D3) AC-Neutral Test (D5)

Project/Site: Redwood Trail	City/County:	kiah/Mendocin	10		Sampling Date: Feb. 18, 2022
Applicant/Owner: City of Ukiah			Astron	State	e: _CA_ Sampling Point: Up -5
Investigator(s): Valerius Meco	nan	Section	, Township,	Range: _	
andform (hillslone terrace etc.):	vallev	Local re	elief (concav	e, convex	none): Cencere Slope (%): 0-2
Subregion (IRR): Wasters Lich	no + Willeys	Lat: 39-11	873	Long	: 123,19 Datum: 65 1787
Soil Man Unit Name: Urban	Land				NWI classification: XoNE
Are climatic / hydrologic conditions on	the site typical for th	is time of year	? Yes	X No	(If no, explain in Remarks.)
Are Vegetation Soil	or Hydrology	signific	antiv disturbe	ed? no Ar	e "Normal Circumstances" present? Yes X No
Are Vegetation, Coil	or Hydrology	natural	ly problemati	ic? no	(If needed, explain any answers in Remarks.)
Are vegetation, Soil	, or rigardingly	naturor	iy problema		, , , , , , , , , , , , , , , , , , , ,
SUMMARY OF FINDINGS - A	Attach site map	showing s	ampling p	oint lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No		le the S	Sampled	Area
				a Wetland	
Wetland Hydrology Present?	Yes No _	/			
4		Sec. Sec.			
VEGETATION					
To State (District			Dominant In		Dominance Test worksheet:
Tree Stratum (Plot size:				-	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
1					
3.				1	Total Number of Dominant Species Across All Strata: (B)
4					
**	<i>y</i> -1		= Total Cove	r	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:			V	79C	Prevalence Index worksheet:
1. Rubus armenia	cus			NL	Total % Cover of: Multiply by:
2. Baccharos pilula				142	OBL species x 1 =
3.					FACW species x 2 =
4					FAC species x 3 =
5		20	= Total Cove	r	FACU species x 4 =
Herb Stratum (Plot size: 5 ft ra	dius)			art o	UPL species x 5 =
1. Phalasis agu	afrea	30		ACU	Column Totals: (A) (B)
2				1	Prevalence Index = B/A =
3					Hydrophytic Vegetation Indicators:
4					Dominance Test is >50%
5.					Prevalence Index is ≤3.0¹
6				-	Morphological Adaptations ¹ (Provide supporting
7					data in Remarks or on a separate sheet)
8		- 30	= Total Cove	er	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: _)				
1					'Indicators of hydric soil and wetland hydrology must be present.
2					
% Bare Ground in Herb Stratum	0 % Cov		= Total Cove	1	Hydrophytic Vegetation Present? Yes No
Remarks:			9.34856		

Sampling Point: Up-5

Depth Matrix		Features			40.000		H-200	W.2
111011001	6 Color (moist)	%	Type ¹	_Loc ²	Texture	-	Rema	rks
0-4" No Color 10	<u>n</u>			-	GAN			-
							able t	o geh
						ac	stor	
						-		
						_		*****
Type: C=Concentration, D=Depletion	, RM=Reduced Matrix, CS=	Covered of	or Coate	d Sand Gra			Pore Lining,	
Hydric Soil Indicators: (Applicable	to all LRRs, unless otherv	vise noted	1.)		110000000000000000000000000000000000000		_	dric Solls³:
Histosol (A1)	Sandy Redox					Muck (A9)		
Histic Epipedon (A2)	Stripped Mat) (LRR B)	
Black Histic (A3)	Loamy Muck					ced Vertic		
Hydrogen Sulfide (A4)	Loamy Gleye		F2)				erial (TF2) n Remarks)	
Stratified Layers (A5) (LRR C)	Depleted Ma		(C)		01161	(Explain)	ii itemans/	
1 cm Muck (A9) (LRR D)	Redox Dark							
Depleted Below Dark Surface (A1	1) Depleted Dar Redox Depre				3Indicator	s of hydror	hytic veget	ation and
Thick Dark Surface (A12)	Vernal Pools		,				nust be pres	
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Vental Pools	(10)					problematic	
Restrictive Layer (if present): none			-					
보기 집에 열심 시민 그렇게 되었다. "하다 16명 회 " "() (^^)								
Type:					- C - C - C - C - C - C - C - C - C - C		2 Voc	No t
					Hydric So	II Procont		
Depth (inches):Remarks:					Hydric So	II Present	, 165	
Remarks:					Hydric So	I Present	7 165	
Remarks:								more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators:	s sufficient)				Seco	ondary Indi		more required)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator in		B11)			Seco	ondary Indi Water Mar	icators (2 or	more required)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator in Surface Water (A1)	Salt Crust (Seco	ondary Indi Water Mar Sediment	icators (2 or	more required) verine) 2) (Riverine)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2)	Salt Crust ((B12)	(B13)		Seco	ondary Indi Water Mar Sediment Drift Depo:	icators (2 or ks (B1) (Riv Deposits (B sits (B3) (Ri	more required) verine) 2) (Riverine) iverine)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator in the surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (Biotic Crust Aquatic Invo	(B12) ertebrates			Seco	ondary Indi Water Mar Sediment Drift Depo	icators (2 or ks (B1) (Riv Deposits (B sits (B3) (Ri Patterns (B1	more required) verine) 2) (Riverine) iverine)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S	(B12) ertebrates Sulfide Odd	or (C1)	Living Roo	Seco	ondary Indi Water Mar Sediment Drift Depo: Drainage F Dry-Seaso	icators (2 or ks (B1) (Riv Deposits (B sits (B3) (Riv Patterns (B1 on Water Ta	more required) verine) 2) (Riverine) verine) 0) ble (C2)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonrive	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S rine) Oxidized Ri	(B12) ertebrates Sulfide Odd hizosphere	or (C1) es along		Seco	ondary Indi Water Mar Sediment I Drift Depo Drainage F Dry-Seaso Thin Muck	icators (2 or ks (B1) (Riv Deposits (B sits (B3) (Riv Patterns (B1 on Water Ta Surface (C	more required) verine) 2) (Riverine) iverine) 0) ble (C2)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crust (Biotic Crust Aquatic Invo Hydrogen S rine) Oxidized RI Presence o	(B12) ertebrates Sulfide Odd hizosphere f Reduced	or (C1) es along I Iron (C4	1)	Seco	ondary Indi Water Mar Sediment I Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B	icators (2 or ks (B1) (Riv Deposits (B sits (B3) (Riv Patterns (B1 on Water Ta Surface (C surrows (C8)	more required) verine) 2) (Riverine) (verine) 0) ble (C2)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator in the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S erine) Oxidized Ri Presence o Recent Iron	(B12) ertebrates Sulfide Odd hizosphere f Reduced Reduction	or (C1) es along I Iron (C4 n in Plow	1)	Secondary (C3)	ondary Indi Water Mar Sediment Drift Depo Drainage f Dry-Seaso Thin Muck Crayfish B Saturation	icators (2 or rks (B1) (Riv Deposits (B sits (B3) (Ri Patterns (B1 on Water Ta Surface (C urrows (C8) Visible on A	more required) verine) 2) (Riverine) (verine) 0) ble (C2) 7) Aerial Imagery (C9
Primary Indicators (any one indicator in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image	Salt Crust (Biotic Crust Aquatic Inv. Hydrogen S Crine) Oxidized RI Presence o Recent Iron ery (B7) Thin Muck	(B12) ertebrates Sulfide Odd hizosphere f Reduced Reduction Surface (C	or (C1) es along I Iron (C4 n in Plow (7)	1)	Secondary (C3)	ondary Indi Water Mar Sediment I Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ar	icators (2 or ks (B1) (Riv Deposits (B sits (B3) (Ri Patterns (B1 on Water Ta Surface (C urrows (C8) Visible on A quitard (D3)	more required) verine) 2) (Riverine) verine) 0) ble (C2) 7) Aerial Imagery (C9)
Primary Indicators (any one indicator in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9)	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S erine) Oxidized Ri Presence o Recent Iron	(B12) ertebrates Sulfide Odd hizosphere f Reduced Reduction Surface (C	or (C1) es along I Iron (C4 n in Plow (7)	1)	Secondary (C3)	ondary Indi Water Mar Sediment I Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ar	icators (2 or rks (B1) (Riv Deposits (B sits (B3) (Ri Patterns (B1 on Water Ta Surface (C urrows (C8) Visible on A	more required) verine) 2) (Riverine) verine) 0) ble (C2) 7) Aerial Imagery (C9)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations:	Salt Crust (Biotic Crust Aquatic Inv. Hydrogen S Oxidized Ri Presence o Recent Iron Thin Muck S Other (Expl	(B12) ertebrates Sulfide Odd hizosphere f Reduced i Reduction Surface (C	or (C1) es along I Iron (C4 n in Plow (7) narks)	1)	Secondary (C3)	ondary Indi Water Mar Sediment I Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ar	icators (2 or ks (B1) (Riv Deposits (B sits (B3) (Ri Patterns (B1 on Water Ta Surface (C urrows (C8) Visible on A quitard (D3)	more required) verine) 2) (Riverine) verine) 0) ble (C2) 7) Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (any one indicator in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Salt Crust (Biotic Crust Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Other (Expl	ertebrates Sulfide Odd hizosphere f Reduced a Reduction Surface (C ain in Rem	or (C1) es along I Iron (C4 n in Plow (7) narks)	1)	Secondary (C3)	ondary Indi Water Mar Sediment I Drift Depos Drainage F Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ar	icators (2 or ks (B1) (Riv Deposits (B sits (B3) (Ri Patterns (B1 on Water Ta Surface (C urrows (C8) Visible on A quitard (D3)	more required) verine) 2) (Riverine) verine) 0) ble (C2) 7) Aerial Imagery (C9
Wetland Hydrology Indicators: Primary Indicators (any one indicator in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Salt Crust (Biotic Crust Aquatic Involution Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck Other (Expl	(B12) ertebrates Sulfide Odd hizosphere f Reduced Reduction Surface (Cain in Rem (inches): (inches):	or (C1) es along I Iron (C4 n in Plow (7) narks)	I) ved Soils (0	Secondary (C3)	ondary Indi Water Mar Sediment I Drift Depos Drainage R Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ar FAC-Neut	icators (2 or ks (B1) (Riv Deposits (B sits (B3) (Ri Patterns (B1 on Water Ta Surface (C urrows (C8) Visible on A quitard (D3) ral Test (D5	more required) verine) 2) (Riverine) (0) ble (C2) 7) Aerial Imagery (C9
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Salt Crust (Biotic Crust Aquatic Involution Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Other (Expl	ertebrates Sulfide Odd hizosphere f Reduced a Reduction Surface (C ain in Rem	or (C1) es along I Iron (C4 n in Plow (7) narks)	I) ved Soils (0	Secondary (C3)	ondary Indi Water Mar Sediment I Drift Depos Drainage R Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ar FAC-Neut	icators (2 or ks (B1) (Riv Deposits (B sits (B3) (Ri Patterns (B1 on Water Ta Surface (C urrows (C8) Visible on A quitard (D3) ral Test (D5	more required) verine) 2) (Riverine) verine) 0) ble (C2) 7) Aerial Imagery (C9
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Salt Crust (Biotic Crust Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck Other (Expl	(B12) ertebrates Sulfide Odo hizosphere f Reduced Reduction Surface (Cain in Ren (inches): (inches): (inches):	or (C1) es along I Iron (C4 n in Plow (7) narks)	t) ved Soils (0	secondary description of the secondary descri	ondary Indi Water Mar Sediment I Drift Depos Drainage R Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ar FAC-Neut	icators (2 or ks (B1) (Riv Deposits (B sits (B3) (Ri Patterns (B1 on Water Ta Surface (C urrows (C8) Visible on A quitard (D3) ral Test (D5	more required) verine) 2) (Riverine) (0) ble (C2) 7) Aerial Imagery (C9)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Salt Crust (Biotic Crust Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck Other (Expl	(B12) ertebrates Sulfide Odo hizosphere f Reduced Reduction Surface (Cain in Ren (inches): (inches): (inches):	or (C1) es along I Iron (C4 n in Plow (7) narks)	t) ved Soils (0	secondary description of the secondary descri	ondary Indi Water Mar Sediment I Drift Depos Drainage R Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ar FAC-Neut	icators (2 or ks (B1) (Riv Deposits (B sits (B3) (Ri Patterns (B1 on Water Ta Surface (C urrows (C8) Visible on A quitard (D3) ral Test (D5	more required) verine) 2) (Riverine) (0) ble (C2) 7) Aerial Imagery (C9
Wetland Hydrology Indicators: Primary Indicators (any one indicator in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge)	Salt Crust (Biotic Crust Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck Other (Expl	(B12) ertebrates Sulfide Odo hizosphere f Reduced Reduction Surface (Cain in Ren (inches): (inches): (inches):	or (C1) es along I Iron (C4 n in Plow (7) narks)	t) ved Soils (0	secondary description of the secondary descri	ondary Indi Water Mar Sediment I Drift Depos Drainage R Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ar FAC-Neut	icators (2 or ks (B1) (Riv Deposits (B sits (B3) (Ri Patterns (B1 on Water Ta Surface (C urrows (C8) Visible on A quitard (D3) ral Test (D5	more required) verine) 2) (Riverine) (0) ble (C2) 7) Aerial Imagery (C9)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Salt Crust (Biotic Crust Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck Other (Expl	(B12) ertebrates Sulfide Odo hizosphere f Reduced Reduction Surface (Cain in Ren (inches): (inches): (inches):	or (C1) es along I Iron (C4 n in Plow (7) narks)	t) ved Soils (0	secondary description of the secondary descri	ondary Indi Water Mar Sediment I Drift Depos Drainage R Dry-Seaso Thin Muck Crayfish B Saturation Shallow Ar FAC-Neut	icators (2 or ks (B1) (Riv Deposits (B sits (B3) (Ri Patterns (B1 on Water Ta Surface (C urrows (C8) Visible on A quitard (D3) ral Test (D5	more required) verine) 2) (Riverine) (0) ble (C2) 7) Aerial Imagery (C9)

A		Conti	on To	whethin Dange:	te: <u>CA</u> Sampling Point:	
ivestigator(s): Valerius Mei 3n	ne L	Section	on, ro	winship, Kange.		Slone (94): 0-2073
andform (hillslope, terrace, etc.):	valley	Local	relief	(concave, conve	x, none): pearace	Solution (16-5 (884)
ubregion (IRR): 4 / Maden - Mh	ns + Valleys	Lat: 37, 4	7.7	Lon	g: 175,170	Jatum. Wes
oil Map Unit Name: Orban L	AND			-	NWI classification:	70,02
re climatic / hydrologic conditions on	the site typical for the	nis time of yea	ar?	Yes X N	o (If no, explain in Remark	s.)
re Vegetation, Soil	, or Hydrology	signif	icantly	disturbed? no A	re "Normal Circumstances" pe	resent? Yes X No
re Vegetation, Soil	, or Hydrology	natur	ally pr	oblematic? no	(If needed, explain any answ	ers in Remarks.)
UMMARY OF FINDINGS - A	ttach site map	snowing	sam	pling point lo	cations, transects, in	portant reatures, es
	Yes No .		. 1	is the Sampled	Area	4
Hydric Soil Present?	Yes No			within a Wetlar	nd? Yes	No
Wetland Hydrology Present?	Yes No	/				
EGETATION						
		Absolute		ninant Indicator	Dominance Test workshe	et:
Tree Stratum (Plot size:				cies? Status	Number of Dominant Speci	
1					That Are OBL, FACW, or FA	AC:(A
2					Total Number of Dominant	/
3			-		Species Across All Strata:	(B)
4			= To	otal Cover	Percent of Dominant Species That Are OBL, FACW, or Fa	
Sapling/Shrub Stratum (Plot size:		(
1			-		Prevalence Index workship Total % Cover of:	
2.						
					ORI species	x 1 =
3.					OBL species	
3 4	- invest	_			FACW species	_ x 2 =
3 4	- invest	_	_		FACW species	_ x 2 =
3 4 5	- invest		_	otal Cover	FACW species	_ x2= _ x3= _ x4=
3	dius)	50	_	otal Cover	FACW species FAC species	x 2 = x 3 = x 4 = x 5 =
3	dius)	50 20	_	otal Cover VPI VPI	FACW species FAC species FACU species UPL species Column Totals:	_ x 2 = _ x 3 = _ x 4 = _ x 5 = _ (A)(B)
3	dius)	50 20 10	= To	otal Cover H UPI UPI FACU	FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = E	_ x 2 = _ x 3 = _ x 4 = _ x 5 = _ (A)(B)
3	dius)	50 20 10 10	= To	otal Cover Upl Upl Fue N.L.	FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = E Hydrophytic Vegetation In	_ x 2 = _ x 3 = _ x 4 = _ x 5 = _ (A)(B) 3/A =
3	dius)	50 20 10 10	= To	otal Cover VPI VPI FMC V N. L.	FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = E Hydrophytic Vegetation II Dominance Test is >50	_ x 2 = _ x 3 = _ x 4 = _ x 5 = _ (A)(B) 3/A = ndicators:
3. 4. 5. Herb Stratum (Plot size: 5 ft race) 1. Vicia Satva 2. Avena barbate 3. Pholans aquaba 4. Featuca avendina 5. 6.	dius)	50 20 10 10	= To	otal Cover Upl Upl Fuc V N. L.	FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = E Hydrophytic Vegetation II Dominance Test is >50 Prevalence Index is ≤30	_ x 2 = _ x 3 = _ x 4 = _ x 5 = _ (A)(B) 3/A = ndicators:
3	dius)	50 20 10 10	= To	otal Cover Upl Upl Fuc V N. L.	FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = E Hydrophytic Vegetation In Dominance Test is >50 Prevalence Index is ≤3 Morphological Adaptat	_ x 2 = _ x 3 = _ x 4 = _ x 5 = _ (A)(B) 3/A = ndicators:
3	dius)	50 20 10 10	= To	otal Cover VPI VPI Frac V N. L.	FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = E Hydrophytic Vegetation In Dominance Test is >50 Prevalence Index is <30 Morphological Adaptat data in Remarks or	x 2 = x 3 = x 4 = x 5 = (A)(B) 3/A = ndicators: 10% 1.01 ions1 (Provide supporting on a separate sheet)
3	dius)	50 20 10 10	= To	otal Cover Upl Upl Fuc V N. L.	FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = E Hydrophytic Vegetation In Dominance Test is >50 Prevalence Index is ≤3 Morphological Adaptat	x 2 = x 3 = x 4 = x 5 = (A)(B) 3/A = ndicators: 10% 1.01 ions1 (Provide supporting on a separate sheet)
3	dius)	50 20 10 10	= To	otal Cover Opt Opt	FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = E Hydrophytic Vegetation In Dominance Test is >50 Prevalence Index is <30 Morphological Adaptat data in Remarks or Problematic Hydrophy Indicators of hydric soil and	x 2 = x 3 = x 4 = x 5 = (A)(B) 3/A = ndicators: 1.01 ions ¹ (Provide supporting on a separate sheet) tic Vegetation ¹ (Explain)
3	dius)	50 20 10 10	= To	otal Cover Opt Opt	FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = E Hydrophytic Vegetation II Dominance Test is >50 Prevalence Index is <30 Morphological Adaptat data in Remarks or Problematic Hydrophy	x 2 = x 3 = x 4 = x 5 = (A)(B) 3/A = ndicators: 1.01 ions ¹ (Provide supporting on a separate sheet) tic Vegetation ¹ (Explain)
3	dius)	50 20 10 10	= To	otal Cover Opt Opt	FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = E Hydrophytic Vegetation In Dominance Test is >50 Prevalence Index is ≤3 Morphological Adaptat data in Remarks or Problematic Hydrophy 'Indicators of hydric soil and be present. Hydrophytic	x 2 = x 3 = x 4 = x 5 = (A)(B) 3/A = ndicators: 1.01 ions ¹ (Provide supporting on a separate sheet) tic Vegetation ¹ (Explain)
3	dius)	50 20 10 10	= To	otal Cover Upl Upl Fuc U N. L.	FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = E Hydrophytic Vegetation II Dominance Test is >50 Prevalence Index is <3 Morphological Adaptat data in Remarks or Problematic Hydrophy 'Indicators of hydric soil and be present. Hydrophytic Vegetation	x 2 = x 3 = x 4 = x 5 = (A)(B) 3/A = ndicators: 1.01 ions ¹ (Provide supporting on a separate sheet) tic Vegetation ¹ (Explain)
3	dius)	50 20 10 10	= To	otal Cover Upl Upl Fuc U N. L.	FACW species FAC species FACU species UPL species Column Totals: Prevalence Index = E Hydrophytic Vegetation II Dominance Test is >50 Prevalence Index is <3 Morphological Adaptat data in Remarks or Problematic Hydrophy 'Indicators of hydric soil and be present. Hydrophytic Vegetation	x 2 =

Sampling Point: Up - 6

Depth Matrix		Features	247		the absence of	
(inches) Color (moist) %	Color (moist)		ype1	Loc ²	Texture	Remarks
6-12" loyn3/2 100			_			
Fype: C=Concentration, D=Depletion, RM ydric Soil Indicators: (Applicable to all Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	=Reduced Matrix, CS= I LRRs, unless otherw Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleye Depleted Matrix Redox Dark Sign	vise noted., (S5) (x (S6) y Mineral (F d Matrix (F2) trix (F3) Surface (F6) k Surface (I	1) 2)) F7)	I Sand Gr	Indicators for 1 cm Muc 2 cm Muc Reduced Red Pare Other (Ex	PL=Pore Lining, M=Matrix. Problematic Hydric Soils³: k (A9) (LRR C) k (A10) (LRR B) Vertic (F18) nt Material (TF2) plain in Remarks)
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	Vernal Pools				wetland hydro	logy must be present, ed or problematic.
Restrictive Layer (if present): none						
Туре:					Valle Character	
Depth (inches):					Hydric Soil Pr	esent? Yes No
YDROLOGY					Secondo	ry Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suf	ficient)					
THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		1000				er Marks (B1) (Riverine)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (E Water-Stained Leaves (B9)	Presence of Recent Iron	(B12) ertebrates (I ulfide Odor nizospheres f Reduced I Reduction Surface (C7	(C1) along L ron (C4) in Plowe))	Sedi Drift Dry- ots (C3) Thin Cray C6) Satu Shai	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) Deposits (B3) (Riverine) Dage Patterns (B10) Season Water Table (C2) Muck Surface (C7) Ifish Burrows (C8) ration Visible on Aerial Imagery (C9) Iow Aquitard (D3) -Neutral Test (D5)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (E Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron Thin Muck S Other (Expl	(B12) ertebrates (I ulfide Odor nizospheres f Reduced I Reduction Surface (C7 ain in Rema inches): inches): inches):	(C1) along L ron (C4) in Plowe) urks)) ed Soils ((Sedi Drift Dry- ots (C3) Thin Cray C6) Satu Shai FAC	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (E Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes Saturation Present?	Biotic Crust Aquatic Inve Hydrogen S Oxidized Ri Presence of Recent Iron Thin Muck S Other (Expl	(B12) ertebrates (I ulfide Odor nizospheres f Reduced I Reduction Surface (C7 ain in Rema inches): inches): inches):	(C1) along L ron (C4) in Plowe) urks)) ed Soils ((Sedi Drift Dry- ots (C3) Thin Cray C6) Satu Shai FAC	ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) nage Patterns (B10) Season Water Table (C2) Muck Surface (C7) fish Burrows (C8) ration Visible on Aerial Imagery (C9) low Aquitard (D3) -Neutral Test (D5)

Project/Site: Redwood Trail City/C	county: Ukiah/Mendoo	cino	Sampling Date: Feb. 18, 2022
Applicant/Owner: City of Ukiah		Stat	te: <u>CA</u> Sampling Point: <u>Up - 7</u>
nvestigator(s): Valerius , Meismer	Secti	on, Township, Range:	
andform (hillslone terrace etc.): valley	Local	relief (concave, conve	x, none): Planar Slope (%): 0-7
subregion (LRR): Wesler & Miles + Va	Muys Lat: 39.1	1979 Lon	ig: _123.17C Datum: WGS 1707
oil Map Unit Name: Urban Lang			NWI classification: None
re climatic / hydrologic conditions on the site t			
re Vegetation, Soil, or Hy	drologysignif	ficantly disturbed? no A	re "Normal Circumstances" present? Yes X No
are Vegetation, Soil, or Hy	drologynatur	rally problematic? no	(If needed, explain any answers in Remarks.)
			ocations, transects, important features, etc
Hydrophytic Vegetation Present? Yes	No. I	1120 0000	146
Hydric Soil Present? Yes	No No	Is the Sampled within a Wetlar	
Wetland Hydrology Present? Yes	No V	- Withitt a Wetai	165 170
/EGETATION			
rege (Atton	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1.	-	Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant Species Across All Strata: 2 (B)
3			Species Across All Strata: (B)
4Sapling/Shrub Stratum (Plot size:		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapring/Shrub Stratum (Plot size.			Prevalence Index worksheet:
2.			Total % Cover of: Multiply by:
3.			OBL species x 1 =
4.			FACW species x 2 = FAC species x 3 =
5		= Total Cover	FACU species x4 =
Herb Stratum (Plot size: 5 ft radius		Total Cover	UPL species x 5 =
1. Vicia school	50	Y Upl	Column Totals: (A) (B)
2. Cypodon dactylon		Y FACU	Prevalence Index = B/A =
3. Festuce perennis		N PAC	Hydrophytic Vegetation Indicators:
4. Juneus xiphindes		7- UIS L	Dominance Test is >50%
5			Prevalence Index is ≤3.01
7			Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
8			Problematic Hydrophytic Vegetation¹ (Explain)
Mandy Vine Stratum (Olet size)	85	_ = Total Cover	1 topomato i ijaioprijao i againti (_ipaini)
Woody Vine Stratum (Plot size:			¹Indicators of hydric soil and wetland hydrology must
2			be present.
% Bare Ground in Herb Stratum	% Cover of Biotic C	_ = Total Cover	Hydrophytic Vegetation Present? Yes No
Remarks:		- Ledy for a second	L

Sampling Point: <u>0</u> - 7

Profile Description: (Describe to the dep Depth Matrix	Redox Features			
inches) Color (moist) %	Color (moist) % Type1	_Loc²	Texture	Remarks
5-12" 104R3/2 100				
ype: C=Concentration, D=Depletion, RM: ydric Soil Indicators: (Applicable to all Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): none Type:	LRRs, unless otherwise noted.) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Vernal Pools (F9)		Indicators for P 1 cm Muck (2 cm Muck (Reduced Ve Red Parent Other (Expla	Material (TF2) ain in Remarks) drophytic vegetation and and are more problematic.
Type:		1.	Hydric Soil Pres	ent? Yes No
Death (inches)		- 0.0	HVORIC SOIL Pres	ent tes NO F
Depth (inches):Remarks:			nyune com rec	
YDROLOGY				
YDROLOGY Netland Hydrology Indicators:			Secondary	Indicators (2 or more required)
Remarks: YDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suff			Secondary Water	Indicators (2 or more required) Marks (B1) (Riverine)
Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C) Recent Iron Reduction in Plo	g Living Roots C4)	Secondary Water Sedime Drift De Draina Dry-Se (C3) Thin M Crayfis Satura	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) ason Water Table (C2) uck Surface (C7) th Burrows (C8)
Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? (includes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (Care Recent Iron Reduction in Pictor) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Depth (inches):	g Living Roots C4) wed Soils (C6)	Secondary Water Sedime Drift De Draina Dry-Se (C3) Thin M Crayfis Satura Shalloe FAC-N	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) euck Surface (C7) eh Burrows (C8) tion Visible on Aerial Imagery (C9 ev Aquitard (D3) eutral Test (D5)
Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (Care Recent Iron Reduction in Pictor) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Depth (inches):	g Living Roots C4) wed Soils (C6)	Secondary Water Sedime Drift De Draina Dry-Se (C3) Thin M Crayfis Satura Shalloe FAC-N	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) euck Surface (C7) eh Burrows (C8) tion Visible on Aerial Imagery (C9 ev Aquitard (D3) eutral Test (D5)
Primary Indicators (any one indicator is suffernation (A3) Water Marks (B1) (Nonriverine) Surface Water (B2) Saturation (B3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Bay Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes Saturation Present?	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (Care Recent Iron Reduction in Pictor) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches): Depth (inches):	g Living Roots C4) wed Soils (C6)	Secondary Water Sedime Drift De Draina Dry-Se (C3) Thin M Crayfis Satura Shalloe FAC-N	Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) (Riverine) ge Patterns (B10) eason Water Table (C2) euck Surface (C7) eh Burrows (C8) tion Visible on Aerial Imagery (C9) ov Aquitard (D3) eutral Test (D5)

Project/Site: Redwood Trail	City/County:U	kiah/Mendoc	ino		Sampling Date: Feb. 18, 2022
Applicant/Owner: City of Ukia	h			Stat	te: <u>CA</u> Sampling Point: <u>Up - 8</u>
Investigatorial Valorius Marte	00 -0 1	Section	n Townsh	in Range	
Landform (hillslope, terrace, etc.); _	valley	Local	relief (cond	cave, conve	x, none): planar Slope (%): 0-2
Subregion (LRR): (Lastern M	was flowing	at: 37, 1	2001	Lon	g: -125 C/4 Datum. ws 5 7 70 7
Soil Map Unit Name: Urban	Land				NWI classification:
Are climatic / hydrologic conditions of	on the site typical for th	is time of yea	ar?	es X No	o (If no, explain in Remarks.)
					re "Normal Circumstances" present? Yes X No
					(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS -	Attach site map	showing	sampling	point lo	ocations, transects, important features, etc
Hydrophytic Vegetation Present?	Yes No 1	/	ls th	e Sampled	Area
Hydric Soil Present?	Yes No 🛂				nd? YesNo
Wetland Hydrology Present?	Yes No _				
VEGETATION					
VEGETATION .		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1,					That Are OBL, FACW, or FAC: (A)
2					Total Number of Dominant
3.				_	Species Across All Strata: (B)
4	-1		= Total C	over	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/E
Sapling/Shrub Stratum (Plot size	e:)	-		Car	Prevalence Index worksheet:
1. TUXICIAERAERE C	ecres sic sic-			1.10	Total % Cover of: Multiply by:
2					OBL species x 1 =
3					FACW species x 2 =
5					FAC species x 3 =
,			= Total C	over	FACU species x 4 =
	radius)		M	10	UPL species x 5 =
1. Vicia satire		80		UPL	Column Totals: (A) (B)
2. Phalasis a quad	hic		N	FAC U	Prevalence Index = B/A =
3.					Hydrophytic Vegetation Indicators:
4					Dominance Test is >50%
	ř				Prevalence Index is ≤3.0¹
6					Morphological Adaptations ¹ (Provide supporting
7 8					data in Remarks or on a separate sheet)
		90	= Total C	over	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:					¹Indicators of hydric soil and wetland hydrology must
1,				-	be present.
2					Undendado
% Bare Ground in Herb Stratum _	5 % Cove	er of Biotic C	_ = Total C rust	(e.g.an.)	Hydrophytic Vegetation Present? Yes No
Remarks:					

Sampling Point: Up 8

Profile Description: (Describe to the dep Depth Matrix		Feature				
(inches) Color (moist) %	Color (moist)	%		Loc2	Texture	Remarks
2-12" 104R3/2 100						
Type: C=Concentration, D=Depletion, RM: ydrlc Soll Indicators: (Applicable to all	=Reduced Matrix, CS	-Covered	d or Coate	d Sand G		ion: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils³:
경기들은 [17] 이 경기를 가득하는 것으로 하는 것이 되었다.	Sandy Redo					fluck (A9) (LRR C)
Histosol (A1) Histic Epipedon (A2)	Stripped Mat					Muck (A10) (LRR B)
Black Histic (A3)	Loamy Muck		(F1)			ed Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleye				Red P	arent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Ma				Other	(Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark	Surface	(F6)			
Depleted Below Dark Surface (A11)	Depleted Da	rk Surfac	e (F7)			and the second second second
Thick Dark Surface (A12)	Redox Depre		F8)			of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools	(F9)				drology must be present,
Sandy Gleyed Matrix (S4)					unless dist	urbed or problematic.
Restrictive Layer (if present): none						
Туре:					Hydric Soll	Present? Yes No
Depth (inches):					Hydric Soil	Presentr les
					Sam	ndeny Indicators (2 or more required)
Wetland Hydrology Indicators:						ndary Indicators (2 or more required)
Wetland Hydrology Indicators:						Vater Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suff Surface Water (A1)	Salt Crust				v	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators; Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2)	Salt Crust (t (B12)			v	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
Wetland Hydrology Indicators; Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (Biotic Crus Aquatic Inv	t (B12) vertebrate				Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust of Biotic Crus Aquatic Inv	t (B12) rertebrate Sulfide O	dor (C1)			Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	Salt Crust of Biotic Crus Aquatic Inv Hydrogen S Oxidized R	t (B12) rertebrate Sulfide O thizosphe	dor (C1) eres along		V S C C C ots (C3) 1	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crust (Biotic Crust (Aquatic Inv Hydrogen (Oxidized R Presence (t (B12) vertebrate Sulfide O thizosphe of Reduce	dor (C1) eres along ed Iron (C	4)	V E C C ots (C3) T	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Orayfish Burrows (C8)
Wetland Hydrology Indicators; Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron	t (B12) vertebrate Sulfide O thizosphe of Reduct	dor (C1) eres along ed Iron (Co ion in Ploy	4)	V E C C ots (C3) T C	Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B	Salt Crust of Biotic Crus Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron Thin Muck	t (B12) rertebrate Sulfide O thizosphe of Reduct n Reduct Surface	dor (C1) eres along ed Iron (C- ion in Plov (C7)	4)	V E C C C C C C C C C C C C C C C C C	Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron	t (B12) rertebrate Sulfide O thizosphe of Reduct n Reduct Surface	dor (C1) eres along ed Iron (C- ion in Plov (C7)	4)	V E C C C C C C C C C C C C C C C C C	Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9)	Salt Crust (Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iron Thin Muck Other (Exp	t (B12) vertebrate Sulfide O thizosphe of Reduce n Reduct Surface clain in Re	dor (C1) eres along ed Iron (C- ion in Plov (C7) emarks)	4)	V E C C C C C C C C C C C C C C C C C	Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Salt Crust of Biotic Crus Biotic Crus Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron Thin Muck Other (Exp	t (B12) rertebrate Sulfide O thizosphe of Reduct n Reduct Surface lain in Re (inches):	dor (C1) eres along ed Iron (C- ion in Plov (C7) emarks)	4)	V E C C C C C C C C C C C C C C C C S	Nater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Orayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present?	Salt Crust of Biotic Crust of Presence of Recent Iron Thin Muck Other (Exp. No Depth No Depth	t (B12) rertebrate Sulfide O chizosphe of Reduct Reduct Surface clain in Re (inches):	dor (C1) eres along ed Iron (C- ion in Plov (C7) emarks)	4) ved Soils (Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Oratinage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) EAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficed water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Bayater-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes Saturation Present?	Salt Crust of Biotic Crust of Presence of Recent Iron Thin Muck Other (Exp. No Depth No Depth	t (B12) rertebrate Sulfide O thizosphe of Reduct n Reduct Surface lain in Re (inches):	dor (C1) eres along ed Iron (C- ion in Plov (C7) emarks)	4) ved Soils (V E C C C C C C C C C C C C C C C C S	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Oratinage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) EAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is suff Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Salt Crust of Biotic Crust of Aquatic Involved of Presence of Recent Iron Thin Muck of Cother (Exp. No Depth No Depth No Depth Depth	t (B12) rertebrate Sulfide O chizosphe of Reduct Reduct Surface clain in Re (inches): (inches):	dor (C1) eres along ed Iron (C- ion in Plov (C7) emarks)	4) ved Soils (ots (C3) 5 (C6) 5 1	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Oratinage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) EAC-Neutral Test (D5)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (E Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Yes	Salt Crust of Biotic Crust of Aquatic Involved of Presence of Recent Iron Thin Muck of Cother (Exp. No Depth No Depth No Depth Depth	t (B12) rertebrate Sulfide O chizosphe of Reduct Reduct Surface clain in Re (inches): (inches):	dor (C1) eres along ed Iron (C- ion in Plov (C7) emarks)	4) ved Soils (ots (C3) 5 (C6) 5 1	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Oratinage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) EAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficed by Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Bacterial Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mage)	Salt Crust of Biotic Crust of Aquatic Involved of Presence of Recent Iron Thin Muck of Cother (Exp. No Depth No Depth No Depth Depth	t (B12) rertebrate Sulfide O chizosphe of Reduct Reduct Surface clain in Re (inches): (inches):	dor (C1) eres along ed Iron (C- ion in Plov (C7) emarks)	4) ved Soils (ots (C3) 5 (C6) 5 1	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Oratinage Patterns (B10) Ory-Season Water Table (C2) Thin Muck Surface (C7) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) EAC-Neutral Test (D5)

Project/Site: Redwood Trail	City/County:L	Jkiah/Mendoc	ino		Sampling Date: Feb. 18, 2022
Applicant/Owner: City of Ukial	h			Stat	te: <u>CA</u> Sampling Point: <u>UPI-9</u>
aveetigator(e): Valerius		Section	on. Townsh	ip, Range:	
andform (hillslone terrace etc.):	valley	Local	relief (cond	ave, conve	x, none); plater Slope (%): 6-2
Subregion (I RR): Western the	ms + Ukalans	Lat: 37. 1	2152	Lon	g: -123 197 Datum: WG-S 1984
oil Man Unit Name: Urban	Land				NWI classification: None
are climatic / hydrologic conditions of	on the site typical for th	nis time of ver	ar? Y	es X N	o (If no, explain in Remarks.)
To Vocatation Soil	or Hydrology	signif	icantly distu	rbed? no A	re "Normal Circumstances" present? Yes X No
Vegetation, Soil	or Hydrology	natur	ally problem	natic? no	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS -	Attach site map	showing	sampling	point lo	cations, transects, important features, etc.
14 describition (Association Proposity)	YesNo	/			
Hydrophytic Vegetation Present? Hydric Soil Present?	YesNo			e Sampled	nd? Yes No
Wetland Hydrology Present?	YesNo		With	in a vveuar	idr iesio
Remarks:					
/EGETATION					
			Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:			Species?		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1.					
2					Total Number of Dominant Species Across All Strata: (B)
3					
4	_/		= Total Co	over	Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size	e: <u>5</u>	-	0.14245.06		
1. Bacchans pilus	lens	5	<u>H</u>	COL	Prevalence Index worksheet: Total % Cover of: Multiply by:
2. Rubus asmoni			10	FAC	
3.	A1-0				FACW species x 2 =
4					FAC species x 3 =
5		10	= Total Co	over	FACU species x 4 =
	radius)			1.	UPL species x 5 =
1. Viaix sature		50	<u> </u>	Upl	Column Totals: (A) (B)
2. Cyposuns eche			14	FACU	Prevalence Index = B/A =
3. Phalasis agreet	ica	10	10	FACU	Hydrophytic Vegetation Indicators:
4. Juncus xiptin			<u>n</u>	OBL	Dominance Test is >50%
5					Prevalence Index is ≤3.0¹
6					Morphological Adaptations ¹ (Provide supporting
7					data in Remarks or on a separate sheet)
8		75	= Total C	over	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:				20.00	
1					'Indicators of hydric soil and wetland hydrology must be present.
2					
% Bare Ground in Herb Stratum _	1593 % COV	er of Biotic C	= Total C		Hydrophytic Vegetation Present? Yes No
Remarks:					
Normania.					
	*				

Sampling Point: Up-9

Depth Matrix	0/		x Feature		Loc ²	Texture	Remarks	
inches) Color (moist)	%	Color (moist)	%	Type	LOC	Texture	Nelliains	
0-12 10424/3	100							
Type: C=Concentration, D=De	pletion, RM=R	educed Matrix, CS	=Covered	d or Coate	d Sand Gr	ains. ² Location:	PL=Pore Lining, M=Matrix.	
lydric Soil Indicators: (Appli	cable to all Li			ed.)			Problematic Hydric Soils ³ :	
Histosol (A1)		Sandy Redo					(A9) (LRR C)	
Histic Epipedon (A2)		Stripped Ma		1.754		Reduced V	(A10) (LRR B)	
Black Histic (A3)		Loamy Muc Loamy Gley					t Material (TF2)	
Hydrogen Sulfide (A4)	C)	Depleted M		(12)			lain in Remarks)	
Stratified Layers (A5) (LRR 1 cm Muck (A9) (LRR D)	C)	Redox Dark		(F6)		0	,	
Depleted Below Dark Surfa	ce (A11)	Depleted Da						
Thick Dark Surface (A12)	00 (////)	Redox Depi				3Indicators of hy	ydrophytic vegetation and	
Sandy Mucky Mineral (S1)		Vernal Pool				wetland hydrolo	ogy must be present,	
Sandy Gleyed Matrix (S4)						unless disturbed	d or problematic.	
Restrictive Layer (if present):	none							
Туре:						January C.	S. S. San San Jan	
Depth (inches):							Hydric Soll Present? Yes No	
						riyunc 3011 Fies		
Remarks:								
Remarks: YDROLOGY Wetland Hydrology Indicators	1		-1			Secondary	/ Indicators (2 or more required)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind	1					Secondary Water	/ Indicators (2 or more required) • Marks (B1) (Riverine)	
Remarks: YDROLOGY Wetland Hydrology Indicators	1	Salt Crust				Secondary Water Sedim	/ Indicators (2 or more required) Marks (B1) (Riverine) nent Deposits (B2) (Riverine)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind Surface Water (A1) High Water Table (A2)	1	Salt Crust Biotic Crus	st (B12)			Secondary Water Sedim	/ Indicators (2 or more required) Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) (Riverine)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind. Surface Water (A1) High Water Table (A2) Saturation (A3)	s: icator is suffici	Salt Crust Biotic Crus Aquatic In	st (B12) vertebrate			Secondary Secondary Water Sedim Drift D	/ Indicators (2 or more required) Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive	s: icator is suffici erine)	Salt Crust Biotic Crus Aquatic In Hydrogen	st (B12) vertebrate Sulfide O	dor (C1)		Secondary Water Sedire Drift D Draina Dry-S	y Indicators (2 or more required) Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (N	erine) onriverine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F	st (B12) vertebrate Sulfide O Rhizosphe	dor (C1) eres along		Secondary Water Sedim Drift D Draina Dry-S ts (C3) Thin M	/ Indicators (2 or more required) Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Muck Surface (C7)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Drift Deposits (B3) (Nonrive	erine) onriverine)	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized F	st (B12) vertebrate Sulfide O Rhizosphe of Reduce	dor (C1) res along ed Iron (C	4)	Secondary Water Sedim Drift D Draina Dry-S ts (C3) Thin M	/ Indicators (2 or more required) Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Muck Surface (C7) ish Burrows (C8)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Drift Deposits (B3) (Nonrive Surface Soil Cracks (B6)	s: icator is suffici erine) onriverine) erine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrate Sulfide O Rhizosphe of Reduction Reduction	dor (C1) res along ed Iron (Co ion in Ploy		Secondary Water Sedim Drift D Drains Dry-S	y Indicators (2 or more required) Marks (B1) (Riverine) Ment Deposits (B2) (Riverine) Meposits (B3) (Riverine) Mage Patterns (B10) Muck Surface (C7) Muck Surface (C7) Much Surface (C8) Mation Visible on Aerial Imagery (C9)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind. Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria	cator is sufficience) conriverine) erine) erine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Surface	dor (C1) eres along ed Iron (C- ion in Plov (C7)	4)	Secondary Water Sedim Drift D Drains Dry-S ts (C3) Thin N Crayfi Sature	y Indicators (2 or more required) Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Muck Surface (C7) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (N Drift Deposits (B3) (Nonriv Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9)	cator is sufficience) conriverine) erine) erine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	st (B12) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Surface	dor (C1) eres along ed Iron (C- ion in Plov (C7)	4)	Secondary Water Sedim Drift D Drains Dry-S ts (C3) Thin N Crayfi Sature	y Indicators (2 or more required) Marks (B1) (Riverine) Ment Deposits (B2) (Riverine) Meposits (B3) (Riverine) Mage Patterns (B10) Muck Surface (C7) Muck Surface (C7) Much Surface (C8) Mation Visible on Aerial Imagery (C9)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nomity of the Deposits (B3) (Nonrive of the Deposits (B4) (Non	s: icator is suffici erine) onriverine) erine)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reduct Surface blain in Re	dor (C1) eres along ed Iron (C- ion in Plov (C7) emarks)	4)	Secondary Water Sedim Drift D Drains Dry-S ts (C3) Thin N Crayfi Sature	y Indicators (2 or more required) Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Muck Surface (C7) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Noorly Drift Deposits (B3) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present?	s: icator is suffici erine) onriverine) erine) I Imagery (B7)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reduct Surface blain in Re	dor (C1) res along ed Iron (C- ion in Plov (C7) emarks)	4)	Secondary Water Sedim Drift D Drains Dry-S ts (C3) Thin N Crayfi Sature	y Indicators (2 or more required) Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) (Riverine) age Patterns (B10) eason Water Table (C2) Muck Surface (C7) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present?	erine) contiverine) erine) limagery (B7) Yes N	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reduct Surface blain in Re (inches): (inches):	dor (C1) res along ed Iron (C- ion in Plov (C7) emarks)	‡) ved Soils ((Secondary Water Sedim Drift D Draina Dry-S ts (C3) Thin N Crayfi Satura Shallo	Indicators (2 or more required) Marks (B1) (Riverine) Ment Deposits (B2) (Riverine) Marks (B3) (Riverine) Marks (B3) (Riverine) Mage Patterns (B10) Mage Patterns (B10) Mage Patterns (B10) Mack Surface (C7) Mack Surface (C7) Mack Surface (C8) Mation Visible on Aerial Imagery (C9) Mation Visible on Aerial Imagery (C9) Mation Visible (D3) Meutral Test (D5)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nonrive Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present?	erine) contiverine) erine) limagery (B7) Yes N	Salt Crust Biotic Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrate Sulfide O Rhizosphe of Reduce n Reduct Surface blain in Re	dor (C1) res along ed Iron (C- ion in Plov (C7) emarks)	‡) ved Soils (d	Secondary Water Sedim Drift D Drains Dry-S ts (C3) Thin N Crayfi Sature	Indicators (2 or more required) Marks (B1) (Riverine) Ment Deposits (B2) (Riverine) Marks (B3) (Riverine) Marks (B3) (Riverine) Mage Patterns (B10) Mage Patterns (B10) Mage Patterns (B10) Mack Surface (C7) Mack Surface (C7) Mack Surface (C8) Mation Visible on Aerial Imagery (C9) Mation Visible on Aerial Imagery (C9) Mation Visible (D3) Meutral Test (D5)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nourive Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? (includes capillary fringe)	erine) contiverine) erine) limagery (B7) Yes N Yes N	Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Surface clain in Re (inches): (inches):	dor (C1) eres along ed Iron (C- ion in Plov (C7) emarks)	4) ved Soils (0	Secondary Water Sedin Drift E Draina Dry-S ts (C3) Thin N Crayfi Shallo FAC-I	Indicators (2 or more required) Marks (B1) (Riverine) Ment Deposits (B2) (Riverine) Marks (B3) (Riverine) Marks (B3) (Riverine) Mage Patterns (B10) Mage Patterns (B10) Mage Patterns (B10) Mack Surface (C7) Mack Surface (C7) Mack Surface (C8) Mation Visible on Aerial Imagery (C9) Mation Visible on Aerial Imagery (C9) Mation Visible (D3) Meutral Test (D5)	
Primary Indicators (any one indicators (any on	erine) contiverine) erine) limagery (B7) Yes N Yes N	Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Surface clain in Re (inches): (inches):	dor (C1) eres along ed Iron (C- ion in Plov (C7) emarks)	4) ved Soils (0	Secondary Water Sedin Drift E Draina Dry-S ts (C3) Thin N Crayfi Shallo FAC-I	Indicators (2 or more required) Marks (B1) (Riverine) Ment Deposits (B2) (Riverine) Marks (B3) (Riverine) Marks (B3) (Riverine) Mage Patterns (B10) Mage Patterns (B10) Mage Patterns (B10) Mack Surface (C7) Mack Surface (C7) Mack Surface (C8) Mation Visible on Aerial Imagery (C9) Mation Visible on Aerial Imagery (C9) Mation Visible (D3) Meutral Test (D5)	
YDROLOGY Wetland Hydrology Indicators Primary Indicators (any one ind Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonrive Sediment Deposits (B2) (Nourive Surface Soil Cracks (B6) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? (includes capillary fringe)	erine) contiverine) erine) limagery (B7) Yes N Yes N	Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	st (B12) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Surface clain in Re (inches): (inches):	dor (C1) eres along ed Iron (C- ion in Plov (C7) emarks)	4) ved Soils (0	Secondary Water Sedin Drift E Draina Dry-S ts (C3) Thin N Crayfi Shallo FAC-I	Indicators (2 or more required) Marks (B1) (Riverine) Ment Deposits (B2) (Riverine) Marks (B3) (Riverine) Marks (B3) (Riverine) Mage Patterns (B10) Mage Patterns (B10) Mage Patterns (B10) Mack Surface (C7) Mack Surface (C7) Mack Surface (C8) Mation Visible on Aerial Imagery (C9) Mation Visible on Aerial Imagery (C9) Mation Visible (D3) Meutral Test (D5)	

Appendix B -Soils Maps



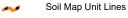
MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Candfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

→ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

OLIND

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Δ

Streams and Canals

Transportation

HH Rails

Interstate Highways

~

US Routes
Major Roads

Local Roads

Background

The same

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Mendocino County, Eastern Part and Southwestern Part of Trinity County, California Survey Area Data: Version 16, Sep 6, 2021

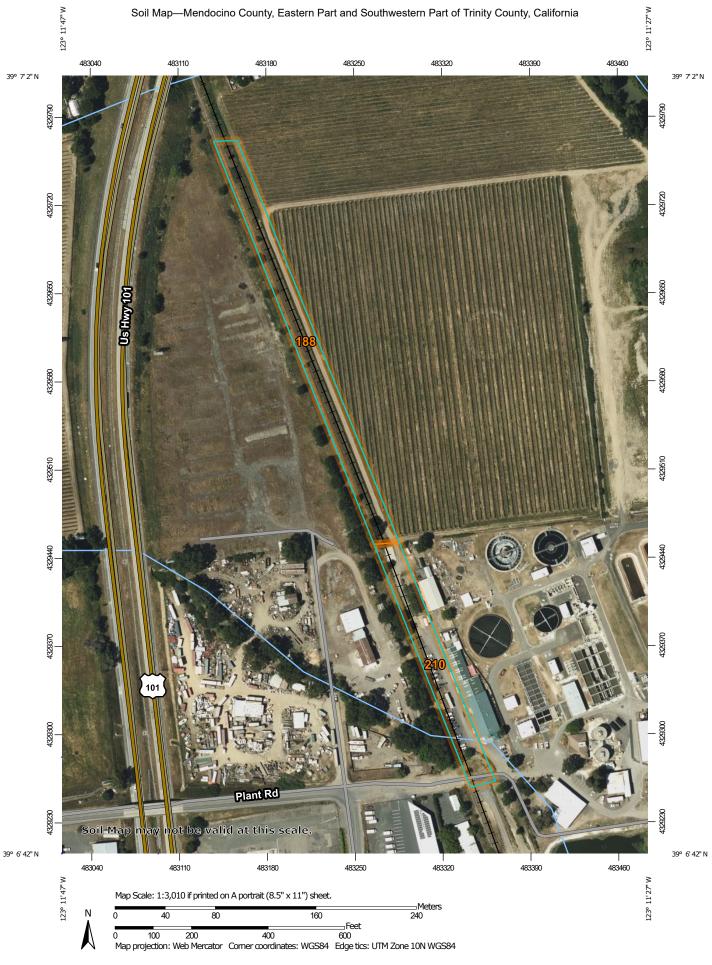
Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: May 5, 2019—Jun 3, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI		
113	Cole loam, drained, 0 to 2 percent slopes, MLRA 14	3.4	73.2%		
210	Urban land	1.2	26.8%		
Totals for Area of Interest		4.7	100.0%		



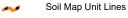
MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Candfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

→ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

OLIND

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Δ

Streams and Canals

Transportation

HH Rails

Interstate Highways

~

US Routes
Major Roads

Local Roads

Background

The same

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Mendocino County, Eastern Part and Southwestern Part of Trinity County, California Survey Area Data: Version 16, Sep 6, 2021

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: May 5, 2019—Jun 3, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
188	Russian loam, 0 to 2 percent slopes	1.6	61.1%
210	Urban land	1.0	38.9%
Totals for Area of Interest		2.6	100.0%



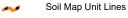
MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Candfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

→ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

OLIND

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Δ

Streams and Canals

Transportation

HH Rails

Interstate Highways

~

US Routes
Major Roads

Local Roads

Background

The same

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Mendocino County, Eastern Part and Southwestern Part of Trinity County, California Survey Area Data: Version 16, Sep 6, 2021

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: May 5, 2019—Jun 3, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
188	Russian loam, 0 to 2 percent slopes	1.3	25.5%
210	Urban land	3.7	74.5%
Totals for Area of Interest	•	5.0	100.0%



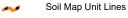
MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Candfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

→ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

OLIND

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Δ

Streams and Canals

Transportation

HH Rails

Interstate Highways

~

US Routes
Major Roads

Local Roads

Background

The same

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Mendocino County, Eastern Part and Southwestern Part of Trinity County, California Survey Area Data: Version 16, Sep 6, 2021

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: May 5, 2019—Jun 3, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
210	Urban land	4.7	100.0%
Totals for Area of Interest		4.7	100.0%

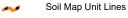
MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Candfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

→ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

OLIND

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Δ

Streams and Canals

Transportation

HH Rails

Interstate Highways

~

US Routes
Major Roads

Local Roads

Background

The same

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Mendocino County, Eastern Part and Southwestern Part of Trinity County, California Survey Area Data: Version 16, Sep 6, 2021

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: May 5, 2019—Jun 3, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
210	Urban land	6.9	100.0%
Totals for Area of Interest		6.9	100.0%

Appendix C - Site Photographs



Photo 1: Wetland Area A at south end with blackberries. Photo looking north.

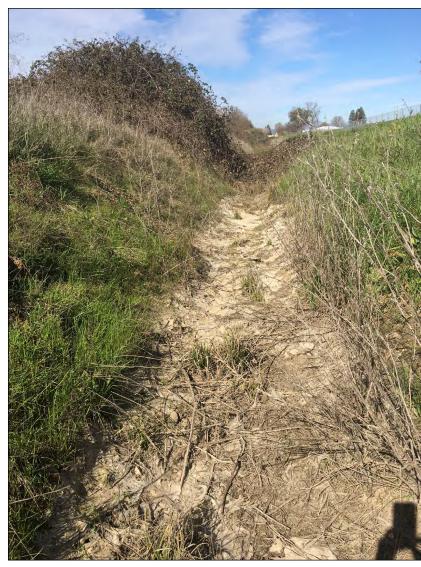


Photo 2: Wetland Area A at north end with algal matting. Photo looking north

.

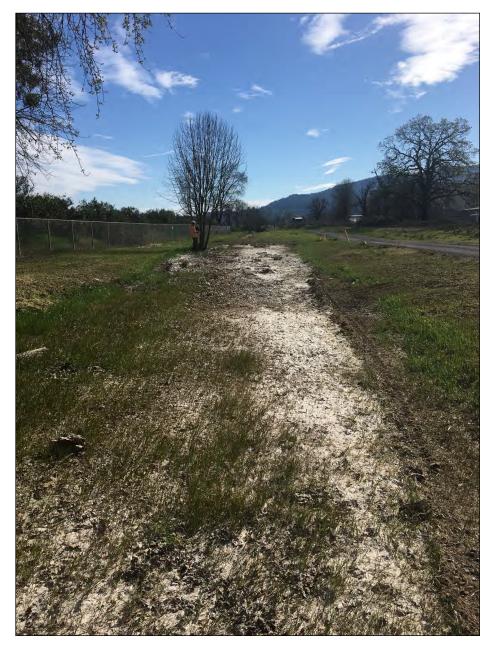


Photo 3: Drainage D1 with algal matting. Photo looking north

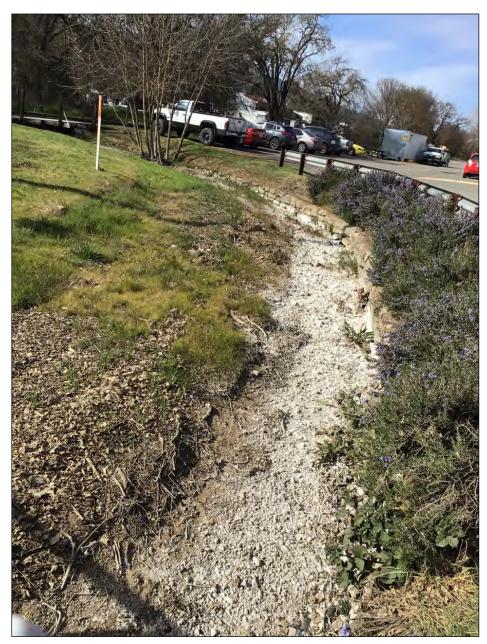


Photo 4: Drainage D1 looking west

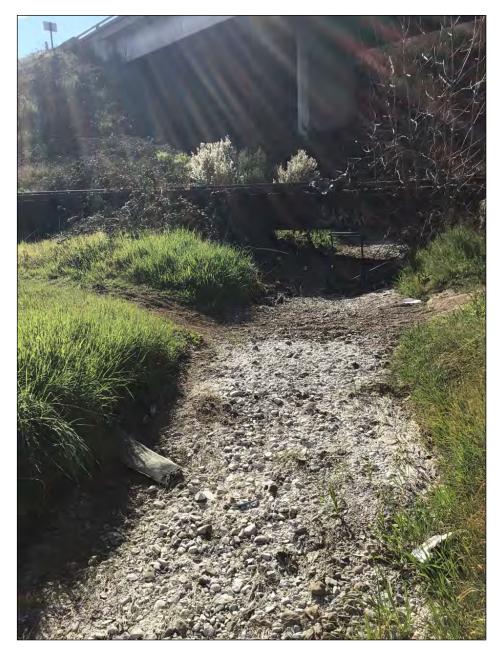


Photo 5: Drainage D-2 near Highway 101. Photo looking west.



Photo 6: Wetland Area B



Photo 7: Wetland Area C

Photo 8: Wetland Area D looking north

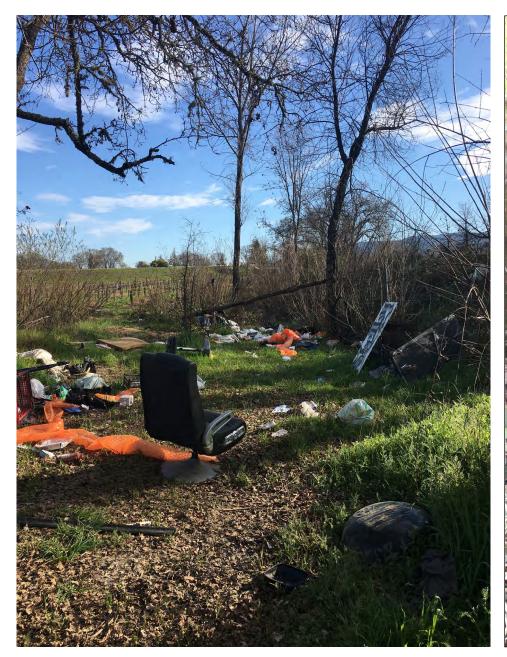


Photo 9 Wetland Area D showing trash.



Photo 10: Drainage D-4



Photo 11: Drainage D5 looking east.