

CARLSBAD FRESNO IRVINE LOS ANGELES PALM SPRINGS POINT RICHMOND RIVERSIDE ROSEVILLE SAN LUIS OBISPO

October 17, 2018

Holly Costa North Branch Chief U.S. Army Corps of Engineers 1455 Market Street, 16th Floor San Francisco, CA 94103-1398

Subject:Request for Verification of a Jurisdictional Delineation of the West County Trail
Extension Study Site, City of Forestville, Sonoma County, California

Dear Holly:

On behalf of Sonoma County Regional Parks Department, LSA is requesting verification of the extent of U.S. Army Corps of Engineers (Corps) jurisdiction under Section 404 of the Clean Water Act on the West County Trail Extension Study Site.

STUDY SITE DESCRIPTION

The approximately 4.26-acre study site comprises of Sonoma County Assessor's Parcel Numbers 083-270-001 and 083-270-002. The study site is located adjacent to the southern side of Front Street (State Hwy 116) just west of Second Street and a block east of Mirabel Road in downtown Forestville, approximately 6 miles west-northwest of downtown Sebastopol (Figures 1 and 2; all figures attached at end of report).

The study site is located in the northwest quarter of Section 7, T7N, R9W, located on the Camp Meeker, California, 7.5-minute series USGS quadrangle, and centered at approximately 122.893° West and 38.472° North. The study site is vegetated with a mix of ruderal grassland, trees, and riparian forest. The northern portion of the study site is maintained parkland, and the southern portion of the site has an informal trail and dense blackberry riparian forest. No structures are present on the study site. The study site elevations range from approximately 150 to 165 feet above mean sea level. The western portion of the study site slopes moderately to the southeast toward a south draining swale which leads off site toward a tributary of Green Valley Creek.

Surrounding land uses are ruderal grassland and vineyard to the west and south, commercial to the east, and urban commercial to the north. The study site is accessed from the public park parking lot along the southern side of Front Street.

Vegetation

The northern half of the study site contains mostly mature valley oaks (*Quercus lobata*) surrounded by mowed ruderal grasses or thick wood chips. The southern half of the study site has similar trees and un-mowed grasses on the slope to the west and a Himalayan blackberry/willow/valley oak wooded riparian area along a shallow swale to the east. Grasses along the slope include wild oats (*Avena* sp.), Italian rye (*Festuca perennis*), soft chess (*Bromus hordeaceus*), and velvet grass (*Holcus lanatus*). Forbs include vetch (*Vicia villosa*) and bur clover (*Medicago polymorpha*). Riparian area species include Himalayan blackberry (*Rubus armeniacus*), poison oak (*Toxicodendron* diversalobum), California rose (Rosa californica), white-root sedge (Carex barbarae), arroyo willow (Salix lasiolepis), California bay laurel (Umbellularia californica), and valley oak.

Soils

Study site soils are mapped as Goldridge fine sandy loam, 2 to 9 percent slopes (Web Soil Survey, <u>https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx</u>, accessed May 24, 2018). The undisturbed surface soil horizons observed did match those described for the Goldridge soil. Road base gravels observed on portions of the site may be associated with former roadways or a former railroad grade. The Goldridge series description only lists any mottling below a depth of 28 inches.

Hydrology

The western portion of the study site generally drains southeastward to a south-draining swale in the eastern portion of the site. In March 2018, albeit immediately after a rainstorm, surface water was observed running southward along this swale. Ephemeral runoff was likely a dominant source, but a secondary source may be seasonal seepage surfacing through the porous soil along the swale.

A roadway along the eastern edge of the site drains southward in a constructed ditch which leads into a blackberry thicket. Surveyor mapping shows an underground storm drain leading from Front Street to an outlet in the blackberry thicket into a channel that drains south-southeastward off the study site.

Drainage from the site's swale and channel flows southwestward for approximately ¼ mile to an unnamed blue-line tributary that joins Green Valley Creek approximately 3/5 mile southwest of the study site. Green Valley Creek flows northward to the Russian River, a traditional navigable water of the United States, approximately 2-1/3 miles north-northwest of the study site.

REGULATORY BACKGROUND

Clean Water Act Jurisdiction

The Corps is responsible under Section 404 of the Clean Water Act (CWA) to regulate the discharge of fill material into waters of the United States. Waters of the United States and their lateral limits are defined in 33 CFR Part 328.3 (a) and include streams that are tributaries to navigable waters and their adjacent wetlands. The lateral limits of jurisdiction for a non-tidal stream are measured at the line of the Ordinary High Water Mark (OHWM) or the limit of adjacent wetlands. Any permanent extension of the limits of an existing water of the United States, whether natural or manmade, results in a similar extension of Corps jurisdiction.

Waters of the United States fall into two categories: wetlands and non-wetland waters. Wetlands include marshes, meadows, seep areas, floodplains, basins, and other areas experiencing extended seasonal soil saturation and dominated by wetland plant cover. Non-wetland waters include water bodies and watercourses such as rivers, streams, lakes, springs, ponds, coastal waters, and estuaries.

Waters and wetlands that cannot trace a continuous hydrological connection to a navigable water of the United States are not tributary to waters of the United States. These are termed "isolated

wetlands." Isolated wetlands are jurisdictional when their destruction or degradation can affect interstate or foreign commerce.

In general, a Corps permit must be obtained before placing fill in wetlands or other waters of the United States. The type of permit depends on the acreage involved and the purpose of the proposed fill.

METHODS

The field investigations of potentially jurisdictional wetlands occurring on the study site were conducted using the routine determination method given in the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the revised procedures in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (Arid West Supplement) (U.S. Army Corps of Engineers 2008). This methodology entails examination of specific sample points within potential wetlands for hydrophytic vegetation, hydric soils, and wetland hydrology. By the federal definition, all three parameters must be present for an area to be considered a wetland.

Hydrophytic plant species are listed by *The National Wetland Plant List*: 2016 wetland ratings (Phytoneuron 2016-30: 1-17, published April 28, 2016). The *National List* identifies five categories of plants according to their frequency of occurrence in wetlands. The categories are:

Obligate wetland plants (OBL)	Plants that occur almost always in wetlands
Facultative wetland plants (FACW)	Plants that usually occur in wetlands
Facultative plants (FAC)	Plants that are equally likely to occur in wetlands or non-wetlands
Facultative upland plants (FACU)	Plants that usually occur in uplands
Obligate upland plants (UPL)	Plants that occur almost always in non-wetlands

An area is generally considered to have hydrophytic vegetation when more than 50 percent of the dominant species in each stratum (tree, shrub, and herb) are in the obligate wetland, facultative wetland, or facultative categories.

Hydric soils are defined by criteria set forth by the National Technical Committee for Hydric Soils (NTCHS). These criteria are given in the *Wetlands Delineation Manual* and are based on depth and duration of soil saturation. Hydric soils are commonly identified in the field by using indirect indicators of saturated soil, technically known as redoximorphic features. These features are caused by anaerobic, reduced soil conditions that are brought about by prolonged soil saturation. The most common redoximorphic features are distinguished by soil color, which is strongly influenced by the frequency and duration of soil saturation. Hydric soils tend to have dark (low chroma) colors which are often accompanied by reddish mottles (iron mottles), reddish stains on root channels (oxidized rhizospheres), or gray colors (gleying). The Arid West Supplement contains descriptions of numerous federally recognized hydric soil indicators.

Under natural conditions, development of hydrophytic vegetation and hydric soils are dependent on a third characteristic, wetland hydrology. This criterion is met if the area experiences inundation or soil saturation to the surface for a period equal to at least 5 percent of the growing season (about 14 days in the region of the study site) in a year of median rainfall. In most cases, this criterion can only be measured directly by monitoring of the site through an entire wet season. In practice, the hydrological status of a particular area is usually evaluated using indirect indicators. Some of the indicators that are commonly used to identify wetland hydrology include biotic crusts and oxidized rhizospheres around roots. The Arid West Supplement gives thorough descriptions of numerous federally recognized indicators of wetland hydrology.

Field Methods

LSA senior soil scientist Chip Bouril investigated the study site on June 7, 2018. The last significant rainfall prior to the site visit occurred the previous April.

Potential jurisdictional boundaries were mapped using a global positioning system (GPS) receiver with sub-meter accuracy. Boundaries were determined by following a combination of the limits of hydrophytic vegetation, the limits of observed redoximorphic mottling and wetland hydrology indicators, and topographic breaks. LSA established 11 wetland Sample Points on the study site. All data from the 11 Sample Points were recorded on standard wetland determination data forms (all forms are attached at the end of this report).

OBSERVATIONS

Potential jurisdictional features are shown on Figure 3.

Wetlands

A south-draining swale containing hydrophytic vegetation is located in the eastern portion of the study site. Surface water was observed in the swale area shortly after a rainfall event in March 2018. The northern portion of the study site and swale is a mowed "lawn" portion of the public park. The southern portion of the swale is a mature riparian tree canopy with a mostly impenetrable thicket of Himalayan blackberry understory. An informal mowed trail leads around the western edge of the riparian area, and the trail cuts through the riparian area near the southern end of the study area.

Sample Points 1, 2, 3, and 4 were placed in a transect across the southern end of the riparian swale, with Sample Point 2 located near the topographic center of the swale. Sample Point 1 has a predominant canopy of arroyo willow (FAC) and predominant understory of Himalayan blackberry (FAC) and California rose (FAC), meeting jurisdictional vegetation criteria. The soil contains abundant redoximorphic mottling. No surface evidence of standing water was observed, but the soil was damp during the June site investigation. Understory vegetation at Sample Point 2 included strongly hydrophytic hyssop loosestrife (*Lythrum hyssopifolia*, OBL) and pennyroyal (*Mentha pulegium*, OBL) under a canopy of valley oak. The soil contained strong redoximorphic mottling to the surface and surface matting from seasonally ponded water. Sample Point 3 supported a mix of mostly hydrophytic vegetation species, had abundant redoximorphic soil mottling, and had surface evidence of wetland hydrology. Sample Point 4, placed farther upslope from the swale, contained a mix of hydrophytic and non-hydrophytic vegetation, minimal mottling that did not meet hydric soil

criteria, and no surface evidence of wetland hydrology, thus failing to meet jurisdictional wetland criteria. Sample Points 1, 2, and 3 meet jurisdictional wetland criteria.

Sample Points 5 and 6 were placed along the edge of the swale farther to the north. Sample Point 5 had vegetation meeting hydrophytic vegetation criteria, soil with redoximorphic mottling, and evidence of wetland hydrology, while Sample Point 6 failed to meet any of the three jurisdictional criteria. These sample points therefore straddle the jurisdictional wetland boundary.

Sample Points 7 and 8 were placed in and adjacent to the swale near the southern end of the mowed lawn area. Sample Point 7, within the swale, contained strongly hydrophytic vegetation including hyssop loosestrife and pennyroyal, redoximorphic mottling, and surface evidence of wetland hydrology. Sample Point 8, slightly upslope to the west, did contain redoximorphic soil mottling, but had vegetation that failed to meet hydrophytic vegetation criteria and no evidence of wetland hydrology.

Sample Point 9 was placed in the northern portion of the swale which was covered in deep wood chips which have suppressed most of the understory vegetation. Some understory vegetation cover was present, though, and most of these species were hydrophytic. The soil underneath the wood chips contained abundant redoximorphic mottling up to the mineral soil surface. Thus, accounting for the disturbance of the artificially suppressed vegetation, Sample Point 9 meets jurisdictional wetland criteria.

The hydrophytic vegetation in the northern portion of the swale is limited to a relatively narrow area within the study site boundary, while the southern and riparian forest portion of the swale is much wider and extends to and slightly beyond the eastern edge of the study area. This eastern edge is difficult to access because of the blackberry thicket. This wetland feature is mapped as Seasonal Wetland A, with a potential jurisdictional area of 44,435 square feet (1.020 acres).

Sample Point 10 was placed north of Seasonal Wetland A in a separate patch of strongly hydrophytic vegetation and strong hydric soil indicators that was surrounded by non-hydrophytic vegetation as partially illustrated by Sample Point 11. This feature is separately mapped as Seasonal Wetland B, with a potential jurisdictional area of 380 square feet (0.008 acres).

Other Waters of the United States

An engineer-surveyed underground storm drain runs underneath a graveled roadway from Front Street south to an outlet inside the Seasonal Wetland A riparian forest and feeds a channel that is within the study site for a distance of approximately 135 linear feet before exiting the study site boundary. (This feature roughly parallels the eastern side of the study site to its southern tip.) The likely excavated channel has an un-vegetated bed, a steep cut bank, and shows evidence of scour and sediment transport. Most of the channel is inaccessible because of the blackberry thicket, but accessed portions have a 4-foot wide Ordinary High Water Mark. The channel bed was damp where observed. This feature is mapped as Channel 1, with a potentially jurisdictional length of 135 feet and potentially jurisdictional area of 540 square feet (0.012 acre) within the study site. Channel 1 is completely within the mapped area of Seasonal Wetland A.

Other Areas Investigated

The underground storm drain appears to have been constructed in uplands, conveys non-jurisdictional urban storm runoff, and is therefore determined to be non-jurisdictional.

An excavated ditch runs southward along the edge of the graveled road within the eastern portion of the northern study site and disappears into the blackberry thicket. This ditch contains sediment deposits eroded from the gravel road. This ditch is interpreted as being non-jurisdictional because it appears to have been constructed in uplands, appears to be ephemeral, and has no wetland characteristics. This ditch may supply some of the sediments observed in Channel 1.

CONCLUSION

LSA has determined that the potential Section 404 waters of the United States on the West County Trail Extension Study Site are two seasonal wetland polygons with a total area of 1.028 acres and an Other Waters of the United States channel with an area of 0.012 acre, for a total potential jurisdictional area of 1.040 acres. These potential jurisdictional features and study site boundaries are mapped on Figure 3, which is attached.

The findings and conclusions presented in this report, including the location and extent of wetlands and other waters subject to regulatory jurisdiction, represent the professional opinion of LSA. These findings and conclusions should be considered preliminary until verified by the Corps.

Please contact Dan Sidle at (510) 236-6810 or email at Dan.Sidle@lsa.net to schedule a verification visit.

Sincerely,

LSA Associates, Inc.

CHIP BOURN

Chip Bouril Senior Soil Scientist

- Attachments: Figure 1: Regional Location Figure 2: Project Vicinity Figure 3: Potential Waters of the United States Data Sheets 1 through 11
- cc: Kenneth Tam, Park Planner II, Sonoma County Regional Parks Department 2300 County Center Drive, Suite 120A, Santa Rosa, CA, 95403 Dan Sidle, LSA



LSA



SOURCE: ESRI World Basemap, Google Streets.

West County Trail Extension Project Forestville, Sonoma County, California Regional Location

I:\SOG1402\GIS\Maps\Delineation\Figure 1_Regional Location.mxd (8/9/2018)



SOURCE: 7.5-minute Quads: Camp Meeker, Calif. (1971), Sebastopol, Calif. (1980)

I:\SOG1402\GIS\Maps\Delineation\Figure 2_Site Location.mxd (8/9/2018)



- Non-wetland Sample Point 0
- Non-jurisdictional Ditch _ _

Other Waters

Channel

West County Trail Expansion Project

Potential Waters of the United States

SOURCE: Sonoma County Regional Parks (04/208); Esri World Imagery.

1 INCH = 70 FEET

70

35

FEET

I:\SOG1402\GIS\Maps\Delineation\Figure 3_Potential Waters of the US.mxd (8/9/2018)

Project Site: West County Trail Expansion Project	City/Cour	ity: For	estville /Sor	noma Sampling Date: 7 June 2018
Applicant/Owner: Sonoma County Parks and Recreation				State: CA Sampling Point:
Investigator(s): C. Bouril			Section, T	Township, Range:Section 7, T7N, R9W, Camp Meeker Quad
Landform (hillslope, terrace, etc.):		Local re	elief (concav	e, convex, none): Slope (%):
Subregion (LRR): LRR C La	t:			Long: Datum:
Soil Map Unit Name: Goldridge fine sandy loam, 2-9 percent a	nd 9-15 pe	rcent slope	s	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time	e of year?	Yes	N	No (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology	Significa	ntly distur	oed? Are	"Normal Circumstances" present? Yes No
Are Vegetation Soil or Hydrology	Naturally	problema	tic? (If n	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS — Attach site map showing	g samplin	g point lo	cations, tr	ansects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No			1.0.	Is the Sampled Area within a Wetland? Yes No
Remarks:)		w and w
		58-1		5P-2 5P-3
com -i O	2	<		X
VEGETATION	74	BNG		AIHWDY
Tree Starture (Distaire	Absolute	Dominant	Indicator	Dominance Test worksheet:
Incestratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1. PALLY CASIDLERIS	100	X	FACE	That Are OBL, FACW, or FAC: (A)
2. DINBELIOLARIA CALIFORNICA	10		TAC.	Total Number of Dominant
3. QUERCUS LODAIA	40	X	TACU	Species Across All Strata: (B)
4.	120			Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)	190	-		That Are OBL, FACW, or FAC:(A/B)
1.				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species x1 =
4.				FACW species $x 2 = $
5.				FAC species x 3 = FACU species x 4 =
Total Cover:				UPL species $x_5 = $
Herb Stratum (Plot size: 25 D)		-		
1. RUBUS ARMENIACUS	60	X	FA-C	Prevalence Index = B/A =
2. HOLCUS LANGTUS	5		FAC	Hydrophytic Vegetation Indicators:
3. SAREX BORBERAE	5		F&C	- Dominance Test is $>50\%$ - Prevalence Index is $<3.0^{1}$
4. KOSA COLIFORMICK	40	X	FAC	- Morphological Adaptations1 (Provide supporting data in
5. TOXICODENDRON DINARSALOPHUM	2		UPL	Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation ¹ (Explain)
6.				Indianteen of budgie and unstand budget around the
7				present, unless disturbed or problematic.
8.				
Total Cover:	112		-	
Woody Vine Stratum (Plot size:)			T	Hydrophytic Vegetation
2.			-	Present? Yes <u>No</u> .
Total Cover-		1	1	
% Bare Ground in Herb Stratum % Cover of Biot	ic Crust	-		
Remarks:				le

C	0	T	г.
0	U	L.	L

Depth	Matrix		Redox I	Features					
(inches)	Color (moist) %	Color (mo	oist) %	Type ¹	Loc ²	Texture	Remarks		
0-3	104R3/2					45			
3-7	LL (10 YR	313 47	· C-	W/Pr	FSI ?			
2-12	1(540	8/1-10		DEIDA	IEC 2			
C 15			44-10	C					
							-3		
Type: C=Co	ncentration, D=Depletion, F	M=Reduced Matr	ix, CS=Covered or	Coated Sand	Grains. ² Location	n: PL=Pore Lining, M	=Matrix.		
Ivdric Soil I	ndicators: (Applicable to a	ll LRRs. unless o	therwise noted.)			Indicators for Pre	blematic Hydric Soils ³		
Histos	al (Al)	an Dicto, anicos o	Sandy Red	ov (\$5)		Lom Muck (AO) (I PD C)		
Histic	Eninedon (A2)		Stripped N	latrix (S6)		2 cm Muck (A(0) (LRR R)		
Black I	Histic (A3)	-	Loamy Mi	icky Mineral (FI)	2 cm whick (tic (F18)		
Hvdros	zen Sulfide (A4)	-	Loamy Gle	eved Matrix F	2)	Red Parent N	(aterial (TF2)		
Stratifi	ed Layers (A5) (LRR C)		Depleted N	Aatrix (F3)	·	Other (Expla	in in Remarks)		
1 cm N	luck (A9) (LRR D)	-	Redox Dar	k Surface (F6)	environment			
Deplete	ed Below Dark Surface (All) –	Depleted I	Dark Surface (, F7)				
Thick I	Dark Surface (A12)	·	Redox Det	pressions (F8)		³ Indicators of hyd	rophytic vegetation and		
Sandy	Mucky Mineral (SI)	-	Vemal Poo	ols (F9)		wetland hydrology	must be present, unless		
Sandy	Gleyed Matrix (S4)	_				disturbed or proble	disturbed or problematic.		
lestrictive La	ayer (if present):								
	Type:								
Depth	(inches):			Hud	ria Cail Procont?	Vac	Ne		
Dopti	(mones).		1		ine Son i resent.				
Remarks:									
	ADJ. T	O PATH							
IYDROLO	GY								
Vetland Hyd	rology Indicators:		1			Secondary Indicate	ors (2 or more required)		
rimary Indica	ators (any one indicator is su	(fficient)							
Surface	e Water (Al)		Salt Crust (B11)			Water Ma	rks (Bl) (Riverine)		
High W	ater Table (A2)		Biotic Crust (B1	2)		Sediment	Deposits (B2) (Riverine)		
Saturat	ion (A3)		_ Aquatic Invertet	orates (B13)		Drift Dep	osits (B3) (Riverine)		
Water I	Marks (B1) (Nonriverine)		Hydrogen Sulfic	le Odor (Cl)		Drainage	Patterns (B10)		
Sedime	ent Deposits (B2) (Nonriver	ine)	Oxidized Rhizos	spheres along	Living Roots (C3)	Dry-Seaso	on Water Table (C2)		
Drift D	eposits (B3) (Nonriverine)		Presence of Red	uced Iron (C4)	Crayfish H	Burrows (C8)		
Surface	e Soil Cracks (B6)		Recent Iron Red	uction in Ploy	ved Soils (CS)	Saturation	Visible on Aerial Imagery (C		
Inundat	tion Visible on Aerial Image	ery (B7)	Thin Muck Surf	ace (C7)		Shallow A	Aquitard (D3)		
Water-	Stained Leaves (B9)		△ Other (Explain i	n Remarks)		FAC-Neu	tral Test (D5)		
ield Observa	ations:								
urface Water	Present? Yes	No y	Depth (inches):						
Water Table P	resent? Yes	No X	Depth (inches):						
Saturation Pres	sent? Yes lary fringe)	No	_ Depth (inches):		Wetland Hydrolo	gy Present? Yes	No		
Describe Reco	rded Data (stream gauge, m	onitoring well, aer	ial photos, previous	s inspections).	if available:		· · · · · · · · · · · · · · · · · · ·		
emarke									
Cillarks:		120	TE. IN	DICAT	ers. L	USE STRE	ong soil		
	RED	OX AS	INTROPTE	ROF	HTDROL	06Y.			

Project Site: West County Trail Expansion Project	City/Cou	nty: For	estville /Sor	noma Sampling Date: 7 June 2018
Applicant/Owner: Sonoma County Parks and Recreation				State: CA Sampling Point: 2_
Investigator(s): C. Bouril			Section, T	Township, Range:Section 7, T7N, R9W, Camp Meeker Quad
Landform (hillslope, terrace, etc.):		Local re	lief (concav	re, convex, none): Slope (%):
Subregion (LRR): LRR C	Lat:			Long: Datum:
Soil Map Unit Name:Goldridge fine sandy loam, 2-9 percent	t and 9-15 pe	rcent slope	s	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time	me of year?	Yes	N	No (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology	Significa	ntly distur	bed? Are	"Normal Circumstances" present? Yes No
Are Vegetation Soil or Hydrology	Naturally	y problemat	tic? (If n	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS — Attach site map showi	ng samplin	g point lo	cations, tr	ansects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No		-		Is the Sampled Area within a Wetland? Yes <u>No</u> No
Remarks:				
VECETATION	*			
VEGETATION	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1. QUERCOS LOBATA	100	X	FACU	That Are OBL, FACW, or FAC: 5 (A)
2.				Total Number of Dominant
3.	-			Species Across All Strata: (B)
4				Percent of Dominant Species
Sanling/Shrub Stratum (Plot size:		-		That Are OBL, FACW, or FAC: 2 (A/B)
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by
3.				
4.				FACW species x1 = x 2 =
5.				FAC species x 3 =
Total Cover	:		1	UPL species x 5 =
Herb Stratum (Plot size:)				Column Totals:(A)(B)
1. LITHROTU HYSSOPIFALIA	15	X	OBL	Prevalence Index = B/A =
2. JUNCUS PATERIS	5		Facu	Hydrophytic Vegetation Indicators:
3. MEXTILL PULEGIUM	15	X	OBL	- Dominance Test is $>50\%$
4. JUNCUS BUFORNUS	5		EACW	- Morphological Adaptations1 (Provide supporting data in
5. HOLLUS HANATUS	15	X	FAC	Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation ¹ (Explain)
6. ROMER CRISPUS	5		FAC	Lation - Charles - The day of the test
7. CARLY DENSA	20	X	OBL	present, unless disturbed or problematic.
8. UKCERASS POANNUZ?	10			
Total Cover	: 90			
Woody Vine Stratum (Plot size:)	20	X	DI	Hydrophytic Vegetation
2.		1	LAL	Present? Yes <u>No</u> .
Total Cover	:	1	1	
% Bare Ground in Herb Stratum % Cover of Bi Remarks:	otic Crust			

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Depth	Matrix			Redox Feat	tures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	10423/2		7.54R46	20	<u> </u>	PEPL	FSL	
2-6	10423/1		54R3/4	10	C	PF	11	
0-10	5644		u	2	CIN	REDI		
0 10				600		- rer pre	/	
					_			
Type: C=Co	oncentration, D=Deple	etion, RM=Re	educed Matrix, CS=Co	vered or Coa	ated Sand Gra	ains. ² Location	: PL=Pore Lining, N	M=Matrix.
lydric Soil I	Indicators: (Applical	ble to all LR	Rs, unless otherwise n	oted.)		-0	Indicators for P	roblematic Hydric Soils ³ :
Histos	ol (Al)		S	andy Redox	(\$5)		1 cm Muck	(A9) (LRR C)
Histic	Epipedon (A2)		S	tripped Matr	ix (S6)		2 cm Muck	(AIO) (LRR B)
Black	Histic (A3)		L	oamy Mucky	y Mineral (Fl	l)	Reduced V	ertic (F18)
Hydro	gen Sulfide (A4)		L	oamy Gleye	d Matrix F2)		Red Parent	Material (TF2)
Stratifi	ied Layers (A5) (LRF	R C)	D	epleted Mati	rix (F3)		Other (Exp	lain in Remarks)
1 cm N	Muck (A9) (LRR D)	(1 21)	R	edox Dark S	Surface (F6)			
Deplet	Derk Surface (A12)	ice (All)	D	epleted Dark	k Surface (F7	7)	³ Indicators of h	drophutic vecetation and
Sandy	Mucky Mineral (SI)		K	ernal Pools ((F0)		wetland hydrolog	gy must be present, unless
Sandy	Gleved Matrix (S4)			cillar i oois ((19)		disturbed or prob	blematic.
Restrictive L	ayer (if present):							
	Туре:							
Depth	Type: (inches):				Hydric	soil Present?	Yes	No
Depth Remarks:	Type: (inches):				Hydric	e Soil Present?	Yes	No
Depth Remarks:	Type: (inches):				Hydric	e Soil Present?	Yes	No
Depth Remarks:	Type:				Hydric	e Soil Present?	Yes	No
Depth Remarks:	Type:				Hydric	e Soil Present?	Yes	No
Depth Remarks:	Type:				Hydric	e Soil Present?	Yes	No
Depth Remarks: HYDROLO Vetland Hyd	Type:				Hydric	e Soil Present?	Yes	No
Depth Remarks: HYDROLO Vetland Hyd rimary Indic:	Type:	tor is sufficier	<u>rt)</u>		Hydric	e Soil Present?	YesSecondary Indica	No
Depth Remarks: IYDROLO Vetland Hyd rimary Indic: Surfac.	Type:	tor is sufficier	<u>it)</u> Salt Cr	ust (B11)	Hydric	e Soil Present?	YesSecondary Indica	No ators (2 or more required) larks (Bl) (Riverine)
Depth Remarks: IYDROLO Vetland Hyd rimary Indic: Surface High V	Type: (inches): OGY Irology Indicators: ators (any one indicat e Water (Al) Water Table (A2)	tor is sufficier	<u>nt)</u> Salt Cn Biotic (ust (B11) Crust (B12)	Hydric	e Soil Present?	Yes Secondary Indica Water M Sedimer	No ators (2 or more required) farks (BI) (Riverine) at Deposits (B2) (Riverine)
Depth Remarks: IYDROLO Vetland Hyd rimary Indic: Surface High V Saturat Water	Type:	tor is sufficier	<u>nt)</u> Salt Cr Biotic (Aquatic	ust (B11) Crust (B12) c Invertebrat	Hydric es (B13)	e Soil Present?	Yes	No ators (2 or more required) larks (Bl) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine)
Depth Remarks: HYDROLO Vetland Hyd rimary Indic: Surface High V Saturat Water Sedime	Type:	tor is sufficier erine)	nt) Salt Crr Biotic (Aquatic Hydrog Ovidize	ust (B11) Crust (B12) c Invertebrat gen Sulfide C	Hydric es (B13) Odor (Cl) eres along Li	e Soil Present?	Yes	No ators (2 or more required) larks (Bl) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2)
Depth Remarks: HYDROLO Vetland Hyd 'rimary Indic: Surfac High V Saturat Saturat Sedime Drift D	Type:	tor is sufficier erine) pariverine) /erine)	tt) Salt Cr Biotic (Aquatic Hydrog Oxidize Presence	ust (B11) Crust (B12) c Invertebrati gen Sulfide C ed Rhizospho ce of Reduce	Hydric es (B13) Ddor (Cl) eres along Li ed Iron (C4)	e Soil Present?	Yes	No ators (2 or more required) larks (Bl) (Riverine) tt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) Burnows (C8)
Depth Remarks: HYDROLO Vetland Hyd Primary Indic: Surface High V Saturat Water Sedime Drift D Surface	Type:	tor is sufficier erine) onriverine) /erine)	nt) Salt Cm Biotic G Aquatic Hydrog Oxidize Presenc Recent	ust (B11) Crust (B12) crust (B12) c Invertebration en Sulfide C ed Rhizospho ce of Reduce Iron Reduct	Hydric es (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plower	ving Roots (C3)	Yes Secondary Indica Water M Sedimer Drift De Dry-Sea Dry-Sea Crayfish Saturatio	No
Depth Remarks: HYDROLO Wetland Hyd Primary Indic: Surface High V Saturat Water Sedime Drift D Surface Inunda	Type:	tor is sufficier erine) onriverine) verine) 1 Imagery (B7	nt) Salt Crr Biotic G Aquatic Hydrog Oxidize Presenc Recent 7) Thin M	ust (B11) Crust (B12) c Invertebrat gen Sulfide C ed Rhizospho ce of Reduce Iron Reduct uck Surface	Hydric es (B13) Odor (C1) eres along Li ed Iron (C4) ion in Plowed (C7)	ving Roots (C3) d Soils (CS)	Yes Secondary Indica Water M Sedimer Drift De Drainage Dry-Sea Crayfish Saturatio Shallow	No
Depth Remarks: HYDROLO Vetland Hyd rimary Indic: Surface High V Saturat Water Sedime Drift D Surface Inunda Water-	Type: (inches): (inches): DGY Irology Indicators: ators (any one indicat e Water (Al) Water Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No Deposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9)	tor is sufficier erine) onriverine) verine) 1 Imagery (B7	nt) Salt Crr Biotic (Aquation Hydrog Oxidized Presence Recent 7) Thin M Other (ust (B11) Crust (B12) c Invertebrati gen Sulfide C ed Rhizospha ce of Reduce Iron Reduct fuck Surface Explain in R	Hydric es (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plower (C7) cemarks)	e Soil Present?	Yes	No
Depth Remarks: HYDROLO Wetland Hyd Primary Indica Surface High V Saturat Water Sedime Drift D Surface Inunda Water-	Type: (inches): OGY Irology Indicators: ators (any one indicators: ators (any one indicators: ators (any one indicators) e Water (Al) Water Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No Deposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) ations:	tor is sufficier erine) pariverine) /erine) l Imagery (B7	nt) Salt Crr Biotic (Aquatic Hydrog Oxidize Presence Recent 7)Thin M Other (ust (B11) Crust (B12) c Invertebrati gen Sulfide C ed Rhizospho ce of Reduce Iron Reduct luck Surface Explain in R	Hydric es (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plowed (C7) emarks)	ving Roots (C3) d Soils (CS)	Yes Secondary Indica Water M Sedimer Drift De Drift De Dry-Sea Crayfish Saturatio Shallow FAC-No	No ators (2 or more required) farks (Bl) (Riverine) tt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) b Burrows (C8) on Visible on Aerial Imagery (C Aquitard (D3) sutral Test (D5)
Depth Remarks: HYDROLO Wetland Hyd Yrimary Indica Surface High V Saturat Water Sedime Drift D Surface Inunda Water- Vield Observa	Type: (inches): DGY Irology Indicators: ators (any one indicat e Water (Al) Water Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No Deposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) ations:	erine) ponriverine) verine) 1 Imagery (B7	nt) Salt Crr Biotic (Aquatic Hydrog Oxidize Presence Recent 7)Thin M Other (S	ust (B11) Crust (B12) c Invertebrati en Sulfide C ed Rhizospho ce of Reduce Iron Reduct fuck Surface Explain in R	Hydric es (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plowed (C7) emarks)	ving Roots (C3) d Soils (CS)	Yes Secondary Indica Water M Sedimer Drift De Drainage Dry-Sea Dry-Sea Dry-Sea Crayfish Shallow FAC-Nee	No
Depth Remarks: HYDROLO Wetland Hyd Primary Indica Surface High V Saturat Water Sedime Drift D Surface Inunda Water- Field Observa	Type: (inches): DGY Irology Indicators: ators (any one indicat e Water (Al) Water Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No Deposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) ations: Present? Yes	tor is sufficier erine) pariverine) /erine) 1 Imagery (B7	nt) Salt Crr Biotic (Aquatic Hydrog Oxidize Presence Recent 7) Thin M X Other (Depth (ust (B11) Crust (B12) c Invertebrat gen Sulfide C ed Rhizospho ce of Reduce Iron Reduct luck Surface Explain in R	Hydric es (B13) Odor (Cl) eres along Li od Iron (C4) ion in Plowed (C7) Remarks)	ving Roots (C3) d Soils (CS)	Yes Secondary Indica Water M Sedimer Drift De Drainaga Dry-Sea Dry-Sea Crayfish Saturatio Shallow FAC-Ne	No
Depth Remarks: HYDROLO Wetland Hyd Primary Indic: Surface High V Saturat Water Sedime Drift D Surface Inunda Water- Field Observa Surface Water	Type:	tor is sufficier erine) pariverine) /erine) 1 Imagery (B7	nt) Salt Crr Biotic (Aquation Aquation Hydrog Oxidize Presence Recent 7) Thin M Other (Depth (ust (B11) Crust (B12) c Invertebrati en Sulfide C ed Rhizosphe e of Reduce Iron Reduct luck Surface Explain in R Constant inches):	Hydric es (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plower (C7) temarks)	e Soil Present? ving Roots (C3) d Soils (CS)	Yes Secondary Indica Water M Sedimer Drift De Drainage Dry-Sea Dry-Sea Crayfish Shallow FAC-Ne	No
Depth Remarks: HYDROLO Wetland Hyd Primary Indic: Surface High V Saturat Water Drift D Sedime Drift D Surface Inunda Water- Vield Observa urface Water Vater Table P aturation Pre	Type:	tor is sufficier erine) pariverine) /erine) 1 Imagery (B7	$\begin{array}{c} \underline{\mathbf{nt}} \\ \underline{\mathbf{nt}} \\ \underline{\mathbf{mt}} \\ \mathbf{$	ust (B11) Crust (B12) c Invertebrat gen Sulfide C ed Rhizospho ce of Reduce Iron Reduct (uck Surface Explain in R (uck Surface Explain in R (uck Surface Explain in R (uck Surface) (uck Surface) (uck Surface) (uck Surface)	Hydric es (B13) Odor (Cl) eres along Li dd Iron (C4) ion in Plowed (C7) Remarks)	ving Roots (C3) d Soils (CS)	Yes Secondary Indica Water M Sedimer Drift De Drainaga Dry-Sea Dry-Sea Dry-Sea Crayfish Saturatio Shallow FAC-Nea	No
Depth Remarks: HYDROLO Vetland Hyd 'rimary Indic: Surface High V Saturat Water Sedime Drift D Surface Drift D Surface Uniface Water ield Observa urface Water 7ater Table P aturation Pre ncludes capil escribe Reco	Type:	tor is sufficier erine) pariverine) /erine) 1 Imagery (B7	nt) Salt Cr Biotic (Aquation Hydrog Oxidized Presence Recent T) N N D D C D D D D D D D D D D	ust (B11) Crust (B12) c Invertebrat gen Sulfide C ed Rhizosphe e of Reduce Iron Reduct luck Surface Explain in R (inches): inches): previous ins	Hydric es (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plowed (C7) temarks) C7 temarks)	e Soil Present? ving Roots (C3) d Soils (CS) Vetland Hydrolog	Yes Secondary Indica Water M Sedimer Drift De Drainage Dry-Sea Dry-Sea Dry-Sea Crayfish Saturatio Shallow FAC-Nea y Present? Ye	No
Depth Remarks: IYDROLO Vetland Hyd Yrimary Indica Surface High V Saturat Water Sedime Drift D Surface Unift D Surface Inunda Water- Vater Table P aturation Pre ncludes capil Vescribe Reco	Type:	erine) pariverine) /erine) 1 Imagery (B' No No No No No No uge, monitori	nt) Salt Cr Biotic G Aquatic Hydrog Oxidize Oxidize Presence Thin M Recent Thin M Other (Ob K Depth (Do K Depth (ust (B11) Crust (B12) : Invertebrati ten Sulfide C ed Rhizospho te of Reduce Iron Reduct uck Surface Explain in R Construction in R	Hydric es (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plower (C7) Eemarks)	e Soil Present? ving Roots (C3) d Soils (CS) Vetland Hydrolog available:	Yes Secondary Indica Water M Drift De Drift De Dry-Sea Dry-Sea Crayfish Shallow FAC-Ne y Present? Ye	No
Depth Remarks: IYDROLO Vetland Hyd rimary Indic: Surface High V Saturat Water Sedime Drift D Surface Unift D Surface Unift D Surface Vater- ield Observa unface Water /ater Table P aturation Pre ncludes capil escribe Reco	Type: (inches): DGY Irology Indicators: ators (any one indicat e Water (Al) Water Table (A2) tion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No Deposits (B3) (Nonrive e Soil Cracks (B6) tion Visible on Aeria Stained Leaves (B9) ations: Present? Yes bresent? Yes sent? Yes llary fringe) orded Data (stream ga	erine) ponriverine) verine) 1 Imagery (B7 No No No No No No No No No No	nt) Salt Cr Biotic Q Aquatic Hydrog Oxidize Oxidize Presence Thin M Conter (Y Thin M Y Depth (Do X Depth (ust (B11) Crust (B12) : Invertebrati en Sulfide C ed Rhizospho te of Reduce Iron Reduct (uck Surface Explain in R (CD) S (inches):	Hydric es (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plowed (C7) emarks) v spections), if	ving Roots (C3) d Soils (CS) Vetland Hydrolog	Yes Secondary Indica Water M Sedimer Drift De Drainage Dry-Sea Dry-Sea Dry-Sea Crayfish Saturatio Shallow FAC-Ne	No

Project Site: West County Trail Expansion Project	City/Cou	nty: For	estville /Sor	noma Sampling Date: 7 June 2018
Applicant/Owner: Sonoma County Parks and Recreation				State: CA Sampling Point: 3
Investigator(s): C. Bouril			Section, T	Township, Range: Section 7, T7N, R9W, Camp Meeker Quad
Landform (hillslope, terrace, etc.):		Local re	lief (concav	re, convex, none): Slope (%):
Subregion (LRR): LRR C L	.at:			Long: Datum:
Soil Map Unit Name: Goldridge fine sandy loam, 2-9 percent	and 9-15 pe	rcent slopes	5	NWI classification:
Are climatic / hydrologic conditions on the site typical for this tin	ne of year?	Yes	1	No (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology	Significa	ntly disturb	ed? Are	"Normal Circumstances" present? Yes No
Are Vegetation Soil or Hydrology	Naturall	problemat	ic? (If n	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS — Attach site map showin	ng samplin	g point lo	cations, tr	ansects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No No		-		Is the Sampled Area within a Wetland? Yes <u>No</u>
Remarks:				
VEGETATION				
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
I. QUERCUS LOBATA	(40)	X	FOCU	That Are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant
3.	-			Species Across All Strata: (B)
4.				Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)		-		That Are OBL, FACW, or FAC: (A/B)
1.				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species v1 -
4.				FACW species x 2 =
5.				FAC species x 3 = FACU species x 4 =
Total Cover:				UPL species $x 5 = $
Herb Stratum (Plot size:)	1	_	1	(A)(B)
1. FEITUCA PERENNIS	40	X	AC	Prevalence Index = B/A =
2. GALLIUM APERINE	20	x	FACU	Hydrophytic Vegetation Indicators:
3. HOLCUS LANATUS	20	X	FAC	- Dominance Test is $>50\%$
4. AVERIA SPI	4		UPL	Morphological Adaptations1 (Provide supporting data in
5. VICIA SATIVA	10		FBOU	Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation ¹ (Explain)
6. GERAXIUM DISSECTLIM	10		UPL	Indicators of hudin coll - 1 - 1 - 1
7.				present, unless disturbed or problematic.
8.				
Total Cover:		_		
Woody Vine Stratum (Plot size:)	75	V	Ela	Hydrophytic Vegetation
2.	- cu	A	The	Present? Yes <u>X</u> No
Total Cover:	1	L	L	
% Bare Ground in Herb Stratum % Cover of Bio	tic Crust	-		
Remarks:				
				1

Sampling Point:

3

Depth	Matrix			Redox Feature	ires			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2	104R3/2						SL	
2-10	10+RB/2	6	7.5 1R3/4	8-20	C	PL	61	
4			-4- 11-7/-1					· · · · · · · · · · · · · · · · · · ·
	-			·				
			-					
¹ Type: C=Co	ncentration, D=Deple	etion, RM=H	Reduced Matrix, CS=Co	overed or Coat	ed Sand G	rains. ² Locatio	on: PL=Pore Lining, N	1=Matrix.
Hydric Soil I	ndicators: (Applical	ble to all LI	RRs. unless otherwise	noted.)	· · · · · · · · ·		Indicators for P	coblematic Hydric Soils ³
Histos	ol (Al)			andy Redox ((52)		L cm Muck	(A0) (IRP C)
Histic	Epipedon (A2)			tripped Matrix	s (S6)		2 cm Muck	(AIO) (LRR B)
Black	Histic (A3)		I	.oamy Mucky	Mineral (H	71)	Reduced Ve	rtic (F18)
Hydro	gen Sulfide (A4)		I	oainy Gleyed	Matrix F2)	Red Parent	Material (TF2)
Stratif	ied Layers (A5) (LRF	R C)	I	Depleted Matri	x (F3)		Other (Expl	ain in Remarks)
1 cm N	Muck (A9) (LRR D)		F	edox Dark Su	rface (F6)			
Deplet	ed Below Dark Surfa	ce (All)	I	Depleted Dark	Surface (F	7)	2	
Thick	Dark Surface (A12)		F	tedox Depress	ions (F8)		³ Indicators of hy-	drophytic vegetation and
Sandy	Mucky Mmeral (SI)			ernal Pools (F	F9)		disturbed or prob	lematic.
Sandy	Gleyed Matrix (54)							
Restrictive L	ayer (if present):							
	Туре:							
Depth	(inches):				Hydri	ic Soil Present?	Ves X	No
							100 1	
HYDROLO	OGY							
Wetland Hyd	tors (any one indicat	or is suffici	ent)				Secondary Indica	tors (2 or more required)
Surfac	e Water (A1)	OI IS SUITION	Salt C	aust (P11)			Watan M	arden (D1) (D:
High V	Water Table (A2)		Biotic	Crust (B12)			Sedimen	t Deposits (P2) (Biverine)
Saturat	tion (A3)		Aquati	c Invertebrates	s (B13)		Drift Der	nosits (B3) (Riverine)
Water	Marks (B1) (Nonrive	erine)	Hydro	gen Sulfide Od	for (Cl)		Drainage	Patterns (B10)
Sedimo	ent Deposits (B2) (No	onriverine)	Oxidiz	ed Rhizospher	res along L	iving Roots (C3)	Dry-Seas	son Water Table (C2)
Drift E	Peposits (B3) (Nonriv	verine)	Presen	ce of Reduced	Iron (C4)		Crayfish	Burrows (C8)
Surfac	e Soil Cracks (B6)		Recent	Iron Reduction	on in Plow	ed Soils (CS)	Saturatio	n Visible on Aerial Imagery (C9
Inunda	tion Visible on Aeria	l Imagery (E	37) Thin M	luck Surface (C7)		Shallow	Aquitard (D3)
Water-	Stained Leaves (B9)		Other	Explain in Re	marks)	STC	FAC-Ne	utral Test (D5)
Field Observa	ations:		ADVE	Allice	SKOC	212		
Surface Water	Present? Yes	1	No X Depth	(inches):				
Water Table P	resent? Yes		No X Denth	(inches):				
Cotumation Day	cont ⁰ Voc		lo X Dopth	(inches).			D (0)	
(includes capi	llary fringe)	r	Depth	(menes):		wettand Hydrok	bgy Present? Yes	6 <u>X</u> No
Describe Reco	orded Data (stream ga	uge, monito	ring well, aerial photos	, previous insp	pections), i	f available:		
Remarks:								
			Can a second					

Project Site: West County Trail Expansion Project	City/Cour	ty: For	estville /Sor	oma Sampling Date: 7 June	2018
Applicant/Owper: Sonoma County Parks and Recreation				State: CA Sampling Point:	4
Investigator(s): C. Bouril			Section, T	ownship, Range:Section 7, T7N, R9W, Camp	Meeker Quad
Landform (hillslope, terrace, etc.):		Local rel	ief (concav	c, convex, none): Slope	(%): 5
Subregion (LRR): LRR C La	t:			Long: Datum	:
Soil Map Unit Name: Goldridge fine sandy loam, 2-9 percent a	nd 9-15 per	rcent slopes		NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time	e of year?	Yes	1	o (If no, explain in Remarks.)	
Are Vegetation Soil or Hydrology	Significa	ntly disturb	ed? Are	Normal Circumstances" present? Yes	No
Are Vegetation Soil or Hydrology	Naturally	problemat	ic? (If n	eded, explain any answers in Remarks.)	
SUMMARY OF FINDINGS — Attach site map showing	g samplin	g point lo	cations, tr	ansects, important features, etc.	
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	x X	-		Is the Sampled Area within a Wetland? Yes No	_X
Remarks:				h	
E 58-3			5	5P-4 4)
X			2		
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.				Percent of Dominant Species	-
Sapling/Shrub Stratum (Plot size:)		-		That Are OBL, FACW, or FAC:	(A/B)
1.		-		Prevalence Index worksheet:	
2.				Total % Cover of: Multi	ply by:
3.				OBL species x1 =	
4.				FACW species x 2 =	
5.				FACU species x 3 =	·
Total Cover:				UPL species x 5 =	
Herb Stratum (Plot size:)		-			
I. FESTU CA REREAVINIS	20	8	FAC	Prevalence Index = B/A =	
2. HOLEUS LANATUS	20	<u> X </u>	FAC	riyerophytic vegetation indicators;	
3. AVENA SP.	30	X	UPL	 Dominance Test is >50% Prevalence Index is <3.0¹ 	
4. VICIA VILLOSA	10		OPL	- Morphological Adaptations1 (Provide suppo	rting data in
5. BROWUS DIENDRUS	10		UPL	 — Problematic Hydrophytic Vegetation¹ (Expla 	in)
6. CARDUUS PYCHOCEPALUS	1		UPL	Indicators of hydric soil and wetland hydrology	must be
7. MEDICAGO POLYMORPAL	1		ACU	present, unless disturbed or problematic.	must UC
8. RAPHANUS SATIVUS	5		UPL		
Woody Vine Stratum (Plot size:		-		Hydrophytic	
1.		-		Vegetation	
2.				Present? Yes X No	·
Total Cover:	L				
% Bare Ground in Herb Stratum % Cover of Biot: Remarks:	ic Crust	·			

0	0	m.
-	6 3 1	
S	U.	

4

Depth	Matrix		Redox Fea	atures			
(inches)	Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	6423/2						
4-9	107R3/2	109R3/3	4	C	PF/W	FSL	FRINT
9-11	104R3/2	(1	~ 5	C .	PF/III		FACILIT
1							(W CIAL
							······································
Type: C=Co	ncentration, D=Depletion, RM=	Reduced Matrix, CS=	Covered or Co	oated Sand C	Grains. ² Location	n: PL=Pore Linin	g, M=Matrix.
lydric Soil I	ndicators: (Applicable to all L	RRs, unless otherwis	e noted.)			Indicators fo	or Problematic Hydric Soils ³ :
Histos	ol (Al)		Sandy Redox	x (S5)		l cm M	uck (A9) (LRR C)
Histic	Epipedon (A2)		Stripped Mat	rix (S6)		2 cm M	uck (AIO) (LRR B)
Black I	Histic (A3)		Loamy Much	cy Mineral (Fl)	Reduce	d Vertic (F18)
Hydrog	gen Sulfide (A4)		Loamy Gleye	ed Matrix F2	2)	Red Par	rent Material (TF2)
Stratifi	ed Layers (A5) (LRR C)		Depleted Ma	trix (F3)		Other ()	Explain in Remarks)
1 cm N	fuck (A9) (LRR D)		Redox Dark	Surface (F6))		
Deplete	ed Below Dark Surface (All)		Depleted Dar	rk Surface (I	F7)	3	
I hick I	Dark Surface (A12)		Redox Depre	ssions (F8)		wetland hydr	hydrophytic vegetation and
Sandy	Mucky Mineral (SI)		Vernal Pools	(F9)		disturbed or p	problematic.
Sanuy	Gleyeu Maurix (54)						
estrictive La	ayer (if present):						
	Туре:						
Depth	(inches):			Hydr	ic Soil Present?	Ves	No
IYDROLO	GY						
Vetland Hyd	rology Indicators:					Secondary In	dicators (2 or more required)
rimary Indica	tors (any one indicator is suffici	ent)					
Surface	Water (Al)	Salt	Crust (B11)			Wate	r Marks (Bl) (Riverine)
High W	/ater Table (A2)	Biot	c Crust (B12)			Sedin	nent Deposits (B2) (Riverine)
Saturat	ion (A3)	Aqua	atic Invertebra	tes (B13)		Drift	Deposits (B3) (Riverine)
Water M	Marks (B1) (Nonriverine)	Hydi	ogen Sulfide	Odor (Cl)		Drain	nage Patterns (B10)
Sedime	nt Deposits (B2) (Nonriverine)	Oxid	ized Rhizosph	neres along l	Living Roots (C3)	Dry-	Season Water Table (C2)
Dritt D	eposits (B3) (Nonriverine)	Prese	ence of Reduc	ed Iron (C4))	Cray	fish Burrows (C8)
Surface	Soll Cracks (B6)	Rece	nt Iron Reduc	tion in Plow	red Soils (CS)	Satu	ation Visible on Aerial Imagery (
Inundat	Steined Leaves (PO)	B/) Ihin	Muck Surface	e(C7)		Shall	ow Aquitard (D3)
Water-3	Stattieu Leaves (B9)	Othe	r (Explain in I	(Keinarks)		FAC	-Neutral Test (D5)
ield Observa	tions:						
urface Water	Present? Yes	No <u>X</u> Dept	h (inches):				
Vater Table Pr	resent? Yes	No 🖌 Dept	h (inches):				
aturation Pres	ent? Yes	No <u>X</u> Dept	h (inches):		Wetland Hydrolog	gy Present?	Yes No X
ncludes capil	lary fringe)						
escribe Recoi	rueu Data (stream gauge, monito	ming well, aerial phot	os, previous ir	spections),	if available:		
					-		
emarks:		NO SFC	IND(C	ATOR	-S		
		,					
					-		

J

WETLAND DETERM	MINATI	ON DAT	'A FORM	I — Arid West	Region	
Project Site:West County Trail Expansion Project	City/Cou	nty: For	estville /Sor	noma	Sampling Date:	7 June 2018
Applicant/Owner: Sonoma County Parks and Recreation				State: CA	Sampling Point:	2
Investigator(s): C. Bouril			Section, T	Fownship, Range:	Section 7, T7N, R9V	V, Camp Meeker Quad
Landform (hillslope, terrace, etc.):		Local re	lief (concav	e, convex, none):		Slope (%):5
Subregion (LRR): LRR C La	at:			Long:		Datum:
Soil Map Unit Name:Goldridge fine sandy loam, 2-9 percent a	and 9-15 pe	rcent slopes	8	NWI classifica	tion:	
Are climatic / hydrologic conditions on the site typical for this time	e of year?	Yes	N	No	(If no, explain in Rea	narks.)
Are Vegetation Soil or Hydrology	Significa	antly disturb	oed? Are	"Normal Circumstar	nces" present? Yes	No
Are Vegetation Soil or Hydrology	Naturally	y problemat	ic? (If n	eeded, explain any a	nswers in Remarks.)	
SUMMARY OF FINDINGS — Attach site map showing	g samplin	g point lo	cations, tr	ansects, importa	nt features, etc.	
Hydrophytic Vegetation Present? Yes <u>X</u> No		_		Is the Sampled A	Area	
Wetland Hydrology Present? Yes <u>No</u> No			5	within a Wetland	d? Yes <u>K</u>	No
Remarks: (a)			6 (03)	Valo		
51-6		(2		E
			X		C	OKL
		-				
VEGETATION	Absolute	Dominant	Indiastor	Dominanaa Taata	we when he of the	
Tree Stratum (Plot size:)	<u>% Cover</u>	Species?	Status	Dominance Test	worksneet:	
1. QUERCUS LOBATA	10	X	FBQU	Number of Domin	ant Species	3
2.				That the ODD, Th		(A)
3.				Total Number of I Species Across Al	Dominant 1 Strata	4 (B)
4.						(D)
Total Cover:				Percent of Domina That Are OBL, FA	ant Species ACW, or FAC:	75 (A/B)
Sapling/Shrub Stratum (Plot size:)		_				
1.				Prevalence Index	worksheet:	
2.				Total % Cover of:		Multiply by:
3.	_			OBL species		x1 =
4.		0		FACW species		x 2 =
5.				FACU species		x =
Total Cover:				UPL species	<u> </u>	x 5 =
Herb Stratum (Plot size:)	0.0			Continuit Founds.	·	(A)(B)
1. HOLEUS LANGTUS	50	X	FAC	Prevalence	Index = $B/A =$	
2. CTPERUS ERAGROSTIS	20	X	EXCW	Hydrophytic veg	etation Indicators:	
3. HYPERICULU PERFORATUM	4		Eacu	- Dominance Tes	st is $>50\%$	
4. LYTHRUM AYSSOPIFOUA	T		OB	— Morphological	Adaptations1 (Provid	le supporting data in
5.				Remarks or or — Problematic Hy	n a separate sheet)	(Explain)
6.				i i obieniacio i i j	arophytic regetation	(Explain)
7.				Indicators of hydropresent, unless dis	ric soil and wetland h turbed or problematic	ydrology must be
8.						
Total Cover:	54					
Woody Vine Stratum (Plot size:)				Hydrophytic		
1. KUBUS AKWERYLCUS	50	X	PAC	Present?	Yes X	No
2. Tuti 0	I					
% Bare Ground in Herb Stratum % Cover of Biot	ic Crust	-				

Remarks:

Depth	Matrix		Redox Fe	atures			
inches)	Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
5-3	10 R/2					TSC.	
3-8	10 CR3/2	107RA/A	7			1	
	L	10 PRGIM	41				
		MYD 3/11	E	-	DI		
1		10 IK/A			- TL		
5-12	- 10TR3/2	1.STR 19	5	C	Th, 17		
Type: C=Cc	oncentration, D=Depletion, RM=	=Reduced Matrix, CS=0	Covered or Co	oated Sand Gr	rains. ² Location	n: PL=Pore Lining,	M=Matrix.
ydric Soil I	Indicators: (Applicable to all I	LRRs, unless otherwise	e noted.)			Indicators for H	roblematic Hydric Soils ³ :
Histos	sol (Al)		Sandy Redox	x (S5)		1 cm Muck	(A9) (LRR C)
Histic	Epipedon (A2)		Stripped Mar	trix (S6)		2 cm Mucl	(AlO) (LRR B)
Black	Histic (A3)		Loamy Mucl	ky Mineral (F	1)	Reduced V	ertic (F18)
Hydro	gen Sulfide (A4)		Loamy Gley	ed Matrix F2)		Red Parent	Material (TF2)
Stratif	ted Layers (A5) (LRR C)		Depleted Ma	itrix (F3)		Other (Exp	lam in Remarks)
I Cm I	VIUCK (AY) (LKK D)		Deploted D-	Surface (F6)	7)		
Depici Thick	Dark Surface (A12)		Redox Depre	rk Surface (F)	()	³ Indicators of hy	dronhytic vegetation and
Sandy	Mucky Mineral (SI)		Vernal Pools	(F9)		wetland hydrolo	gy must be present, unless
Sandy	Gleyed Matrix (S4)		· cinui i cone	((1))		disturbed or prol	plematic.
Depth	(inches):			Hydrie	c Soil Present?	Yes <u>×</u>	No
Depth emarks:	(inches):			Hydrie	c Soil Present?	Yes <u>×</u>	No
Depth emarks: YDROLO	(inches):			Hydrid	c Soil Present?	Yes <u>×</u>	No
Depth emarks: YDROLC	(inches):			Hydrie	c Soil Present?	Yes	No
Depth emarks: YDROLO fetland Hyo imary Indic	(inches):	cient)		Hydrie	c Soil Present?	Yes	No
Depth emarks: YDROLC fetland Hyd imary Indic Surfac Uich X	(inches): DGY Irology Indicators: ators (any one indicator is suffic e Water (Al) Water Tabla (A2)	cient)	Crust (B11)	Hydrid	c Soil Present?	Yes	No ators (2 or more required) farks (Bl) (Riverine)
Depth emarks: YDROLC etland Hyd imary Indic Surfac High V Satura	(inches): OGY Irology Indicators: ators (any one indicator is suffic e Water (A1) Water Table (A2) tion (A3)	cient) Salt (Bioti	Crust (B11) c Crust (B12) tic Invertebra	Hydrid	c Soil Present?	Yes	No ators (2 or more required) farks (B1) (Riverine) at Deposits (B2) (Riverine) monite (B2) (Diverine)
Depth emarks: YDROLC (etland Hyd imary Indic Surfac High V Satura Water	(inches): OGY Irology Indicators: ators (any one indicator is suffic e Water (Al) Water Table (A2) tion (A3) Marks (B1) (Nonriverine)	cient) Salt (Bioti Aqua Hvdr	Crust (B11) c Crust (B12) tic Invertebra open Sulfide	Hydrid) ntes (B13) Odor (C1)	c Soil Present?	Yes	No ators (2 or more required) farks (Bl) (Riverine) at Deposits (B2) (Riverine) posits (B3) (Riverine) e Pattems (B10)
Depth emarks: YDROLCO (etland Hyo imary Indic Surfac High V Satural Water Sedimy	(inches): OGY Irology Indicators: ators (any one indicator is suffice e Water (A1) Water Table (A2) tion (A3) Marks (B1) (Nonriverine) ent Deposits (B2) (Nonriverine)	cient) Salt (Biotic Aqua Hydr	Crust (B11) c Crust (B12) tic Invertebrz ogen Sulfide ized Rhizospl	Hydrid) ntes (B13) Odor (Cl) heres along Li	c Soil Present?	Yes	No ators (2 or more required) farks (Bl) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2)
Depth emarks: YDROLC retland Hyd imary Indic Surfac High V Satura Water Sedimo Drift D	(inches): OGY Irology Indicators: ators (any one indicator is suffic e Water (AI) Water Table (A2) tion (A3) Marks (B1) (Nonriverine) ent Deposits (B2) (Nonriverine) Deposits (B3) (Nonriverine)	cient) Salt (Bioti Aqua Hydrr c) Oxid: Prese	Crust (B11) c Crust (B12) tic Invertebra ogen Sulfide ized Rhizospl nce of Reduc	Hydrid) ntes (B13) Odor (Cl) heres along Li red Iron (C4)	c Soil Present?	Yes	No
Depth emarks: YDROLC /etland Hyd imary Indic Surfac High V Satura Water Sedim Drift E Surfac	(inches): OGY Irology Indicators: ators (any one indicator is suffic e Water (Al) Water Table (A2) tion (A3) Marks (B1) (Nonriverine) ent Deposits (B2) (Nonriverine) Deposits (B3) (Nonriverine) e Soil Cracks (B6)	cient) Salt (Biotic Aqua Hydr) Oxid: Prese Recei	Crust (B11) c Crust (B12) tic Invertebra ogen Sulfide ized Rhizospl nce of Reduc nt Iron Reduc	Hydrid) ntes (B13) Odor (Cl) heres along Li :ed Iron (C4) ction in Plowe	c Soil Present?	Yes	No ators (2 or more required) farks (B1) (Riverine) at Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (1)
Depth emarks: YDROLC /etland Hyd imary Indic Surfac High V Satural Water Sedim Drift E Surfac Inunda	(inches): OGY Irology Indicators: ators (any one indicator is suffice e Water (Al) Water Table (A2) tion (A3) Marks (B1) (Nonriverine) ent Deposits (B2) (Nonriverine) e Soil Cracks (B6) tion Visible on Aerial Imagery	cient) Salt (Bioti Aqua Hydr Oxid: Prese Recen (B7) Thin	Crust (B11) c Crust (B12) tic Invertebra ogen Sulfide ized Rhizospi nce of Reduc nt Iron Reduc Muck Surfac	Hydrid) ntes (B13) Odor (Cl) heres along Li ced Iron (C4) ttion in Plowe e (C7)	c Soil Present?	Yes	No ators (2 or more required) farks (Bl) (Riverine) at Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) b Burrows (C8) on Visible on Aerial Imagery (Aquitard (D3)
Depth emarks: YDROLC etland Hyd imary Indic Surfac High V Satura Water Sedim Drift I Surfac Inunda Water	(inches): OGY Irology Indicators: ators (any one indicator is suffice e Water (A1) Water Table (A2) tion (A3) Marks (B1) (Nonriverine) ent Deposits (B2) (Nonriverine) ent Deposits (B3) (Nonriverine) e Soil Cracks (B6) tion Visible on Aerial Imagery Stained Leaves (B9)	cient)	Crust (B11) c Crust (B12) tic Invertebra ogen Sulfide ized Rhizospl nce of Reduc nt Iron Reduc Muck Surfac : (Explain in	Hydrid hydrid htes (B13) Odor (Cl) heres along Li ced Iron (C4) ction in Plowe e (C7) Remarks)	c Soil Present?	Yes	No ators (2 or more required) farks (Bl) (Riverine) mt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) t Burrows (C8) on Visible on Aerial Imagery (Aquitard (D3) cutral Test (D5)
Depth emarks: YDROLC fetland Hyd imary Indic Surfac High V Satura Water Sedim Drift I Surfac Inunda Water- eld Observ.	(inches): OGY Irology Indicators: ators (any one indicator is suffic e Water (Al) Water Table (A2) tion (A3) Marks (B1) (Nonriverine) ent Deposits (B2) (Nonriverine) eposits (B3) (Nonriverine) e Soil Cracks (B6) ation Visible on Aerial Imagery Stained Leaves (B9) ations:	cient) Salt (Biotic Aqua Hydr c) Oxid: Prese Recee (B7) Thin Other Other	Crust (B11) c Crust (B12) tic Invertebra ogen Sulfide ized Rhizospl nce of Reduc nt Iron Reduc Muck Surfac : (Explain in MUCK Surfac	Hydrid https (B13) Odor (Cl) heres along Li ced Iron (C4) ction in Plowe e (C7) Remarks)	c Soil Present?	Yes	No
Depth emarks: YDROLO /etland Hyd imary Indic Surfac High V Satural Water Sedim Drift E Surfac Inunda Water- eld Observa	(inches): OGY Irology Indicators: ators (any one indicator is suffic e Water (Al) Water Table (A2) tion (A3) Marks (B1) (Nonriverine) ent Deposits (B2) (Nonriverine) e Soil Cracks (B6) tion Visible on Aerial Imagery Stained Leaves (B9) ations: Present? Yes	cient) Salt (BiotiAquaHydr c)Oxid:PreseRecen (B7)ThinOtherSOPP	Crust (B11) c Crust (B12) tic Invertebra ogen Sulfide ized Rhizospl nce of Reduc nt Iron Reduc Muck Surfac (Explain in Wick Surfac	Hydrid htes (B13) Odor (Cl) heres along Li ced Iron (C4) tion in Plowe e (C7) Remarks)	c Soil Present?	Yes	No ators (2 or more required) farks (Bl) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C Aquitard (D3) putral Test (D5)
Depth emarks: IYDROLC Vetland Hyd rimary Indic Surfac High V Satura Water Sedim Sedim Surfac Inunda Water- ield Observa urface Water	(inches): OGY Irology Indicators: ators (any one indicator is suffice e Water (A1) Water Table (A2) tion (A3) Marks (B1) (Nonriverine) ent Deposits (B2) (Nonriverine) e Soil Cracks (B6) tion Visible on Aerial Imagery Stained Leaves (B9) ations: Present? Yes	$\frac{\text{cient}}{} \qquad \qquad$	Crust (B11) c Crust (B12) tic Invertebra ogen Sulfide ized Rhizospl nce of Reduc muck Surfac (Explain in Muck Surfac (Explain in Muck Surfac) (inches):	Hydrid htes (B13) Odor (Cl) heres along Li ced Iron (C4) ction in Plowe e (C7) Remarks)	c Soil Present?	Yes	No ators (2 or more required) farks (B1) (Riverine) mt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) t Burrows (C8) on Visible on Aerial Imagery (C Aquitard (D3) putral Test (D5)
Depth emarks: IYDROLC Vetland Hyd rimary Indic Surfac High V Satura Water Sedim Drift I Surfac Inunda Water- ield Observa vater Table P	(inches):	cient) Salt (Biotic Biotic $$ Biotic $$ Aqua $$ Prese (B7) Thin $$ Other $$ SUPP No \cancel Dept No \cancel Dept	Crust (B11) c Crust (B12) tic Invertebra ogen Sulfide ized Rhizospl nce of Reduct Muck Surfac (Explain in WWCSUT n (inches): n (inches):	Hydrid http: (B13) Odor (Cl) heres along Li ced Iron (C4) tion in Plowe e (C7) Remarks)	t Soil Present?	Yes	No ators (2 or more required) farks (Bl) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) n Burrows (C8) on Visible on Aerial Imagery (C Aquitard (D3) eutral Test (D5)
Depth emarks: IYDROLC Vetland Hyd rimary Indic Surfac High V Satura Water Sedim Drift E Surfac Inunda Water- ield Observa urface Water vater Table P aturation Pre	(inches):	cient) Salt 0	Crust (B11) c Crust (B12) tic Invertebra ogen Sulfide ized Rhizospl nce of Reduc nt Iron Reduc Muck Surfac (Explain in Muck Surfac (Explain in (inches): a (inches): a (inches):	Hydrid htes (B13) Odor (Cl) heres along Li ced Iron (C4) ction in Plowe e (C7) Remarks)	c Soil Present? iving Roots (C3) d Soils (CS)	Yes	No
Depth emarks: IYDROLC Vetland Hyd rimary Indic Surfac High V Satural Water Sedim Drift E Surfac Inunda Water- ield Observator vater Table P aturation Pre ncludes capi escribe Recc	(inches):	cient) Salt 0 Biotic Aqua	Crust (B11) c Crust (B12) tic Invertebra ogen Sulfide ized Rhizospi nce of Reduc nt Iron Reduc Muck Surfac (Explain in Muck Surfac (Explain in Muck Surfac (inches): n (inches): n (inches):	Hydrid htes (B13) Odor (Cl) heres along Li ced Iron (C4) tion in Plowe e (C7) Remarks) Mag	c Soil Present? iving Roots (C3) id Soils (CS) Wetland Hydrolog	Yes	No
Depth emarks: YDROLO Yetland Hyd rimary Indic Surfac High V Satural Water Sedim Drift E Surfac Inunda Water- ield Observa arface Water Yater Table P aturation Pre- neludes capi escribe Reco	(inches):	cient) Salt C Bioti Aqua	Crust (B11) c Crust (B12) tic Invertebra ogen Sulfide ized Rhizospl nce of Reduc nt Iron Reduc Muck Surfac (Explain in Muck Surfac (Explain in Muck Surfac (inches): n (inches): n (inches): n (inches):	Hydrid https: (B13) Odor (Cl) heres along Li ced Iron (C4) tion in Plowe e (C7) Remarks) Magnetic Notest Statest Stat	c Soil Present? iving Roots (C3) d Soils (CS) Wetland Hydrolog f available:	Yes	No ators (2 or more required) farks (Bl) (Riverine) nt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (1 Aquitard (D3) cutral Test (D5)
Depth emarks: (YDROLC) /etland Hyd imary Indic Surfac High V Satura Satura Water Sedim Drift E Surfac Inunda Water- ield Observa arface Water ater Table P turation Pre includes capi escribe Reco	(inches):	cient) Salt (Biotic Aqua Hydr Oxid: Prese Receiver (B7) Thin No Deptil No Deptil No Deptil toring well, aerial photo	Crust (B11) c Crust (B12) tic Invertebra ogen Sulfide ized Rhizospl nce of Reduc Muck Surfac (Explain in Muck Surfac (Explain in Muck Surfac (inches): a (inches): a (inches): bs, previous in	Hydrid) ates (B13) Odor (Cl) heres along Li ced Iron (C4) ction in Plowe e (C7) Remarks) Market N N N N N N N N N N N N N	c Soil Present? iving Roots (C3) d Soils (CS) Vetland Hydrolog f available:	Yes	No ators (2 or more required) farks (Bl) (Riverine) mt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) the Burrows (C8) on Visible on Aerial Imagery (C Aquitard (D3) putral Test (D5)
Depth emarks: YDROLCO fetland Hyo imary Indic Surfac High V Satura Water Sedim Drift E Surfac Unuda Water- eld Observa rface Water ater Table P turation Pre coludes capi scribe Reco marks:	(inches):	cient) Cient) Salt C Biotic Aqua Hydr Oxid: Prese (B7) Cient No Conten SUPP No	Crust (B11) c Crust (B12) tic Invertebra ogen Sulfide ized Rhizospl nce of Reduc Muck Surfac (Explain in Muck Surfac (Explain in Muck Surfac (inches): a (inches): a (inches):	Hydrid http: (B13) Odor (Cl) heres along Li ced Iron (C4) ction in Plowe e (C7) Remarks) Remarks)	c Soil Present? iving Roots (C3) d Soils (CS) Vetland Hydrolog f available:	Yes	No

Project Site: West County Trail Expansion Project	City/Cou	nty: Fore	estville /Son	ioma	Sampling Date:	7 June 2018	
Applicant/Owner: Sonoma County Parks and Recreation				State: CA	Sampling Point:	4	õ
Investigator(s): C. Bouril			Section, T	ownship, Range:	Section 7, T7N, R9V	, Camp Meeker Qua	d
Landform (hillslope, terrace, etc.):		Local rel	ief (concav	e, convex, none):		Slope (%): ~ [5
Subregion (LRR): LRR C	Lat:			Long:		Datum:	
Soil Map Unit Name: Goldridge fine sandy loam, 2-9 pe	rcent and 9-15 pe	rcent slopes		NWI classific	ation:		
Are climatic / hydrologic conditions on the site typical for the	is time of year?	Yes	N	lo	(If no, explain in Ren	narks.)	
Are Vegetation Soil or Hydrology _	Significa	ntly disturb	ed? Are	"Normal Circumsta	nces" present? Yes	No	
Are Vegetation Soil or Hydrology	Naturally	y problemati	c? (If n	eeded, explain any	answers in Remarks.)		
SUMMARY OF FINDINGS — Attach site map sh	owing samplin	g point loo	cations, tr	ansects, importa	ant features, etc.		
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No <u>X</u> No <u>X</u> No <u>X</u>	-		Is the Sampled within a Wetlar	Area nd? Yes	No	
Remarks:							
VECETATION				1			
VEGETATION	Absolute	Dominant	Indicator	Dominance Test	worksheet:	•	
Tree Stratum (Plot size:)	% Cover	Species?	Status				
1,				That Are OBL, F.	ACW, or FAC:	(A)	
2.			_	Total Number of	Dominant		
3				Species Across A	Il Strata:	<u> </u>	
4.				Percent of Domin	ant Species		
Sapling/Shrub Stratum (Plot size:)	over:	-		That Are OBL, F.	ACW, or FAC:	50 (A/)	B)
1.				Prevalence Inde	x worksheet:		
2.				Total % Cover of	•	Multiply by:	
3.				OBL species		x 1 =	
4.				FACW species		x 2 =	
5.				FACU species	35	$x_{4} = 180$	
Total C Herb Stratum (Plot size:)	over:	-		UPL species Column Totals:	4	x 5 = 20 (A) <u>785.</u> (B))
1. HOLCOS LANGTUS	60	X	FAC	Prevalence	Index $= B/A =$	3,83	
2. BROWDS HORDELCEUS	10		FACU	Hydrophytic Ve	getation Indicators:		
3. ANEXIX SP.	2		UPL	— Dominance Te	est is >50%		
4. RULLEX ACETOCELS	25	X	FACU	 Prevalence Inc Morphologica 	lex is ≤3.0' l Adaptations1 (Provid	le supporting data in	
5. DAUCUS COROTA	2		UPL	Remarks or o	on a separate sheet)	Les 1 : .	
6.				- Problematic H	iyorophytic vegetatior	(Explain)	
7.	×			Indicators of hyd	tric soil and wetland h	ydrology must be	
8.				present, unless ul	stated of problematic		-
Total C	over:	1					
Woody Vine Stratum (Plot size:)		-		Hydrophytic			
1. KUBUS ARMENIKUS			FAC	vegetation Present?	Yes	No X.	
2.							
Total Co	over:	-					
% Bare Ground in Herb Stratum % Cover of Remarks:	f Biotic Crust	<u> </u>					_

Sampling Point: 🦉

Depth	Matrix	-	Redux rea	tur s			
inches)	Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
2-4	104RA/2						
11	INPR 4/2	1.00.11	2 3 5		121		
[]	1011572	LOTRA/	2 0-2	<u> </u>	<u></u>		MOST ON MURICES
							SEACHS
vne: C=Cor	centration D=Depletion RM	=Reduced Matrix C	S=Covered or Co	ated Sand Gr	ains ² Locatio	. PI =Pore Lin	ning M=Matrix
spe. c-coi	Remation, D Depiction, Riv	- Reduced Matrix, C	-covered of con	attu Sanu Or	ams. Locatio		
dric Soil II	idicators: (Applicable to all	LRRs, unless other	wise noted.)			Indicators	for Problematic Hydric Soils ³ :
Histoso	ol (Al)		Sandy Redox	(S5)		1 cm	Muck (A9) (LRR C)
Histic I	Epipedon (A2)		Stripped Matr	rix (S6)		2 cm	Muck (AlO) (LRR B)
Black I	Histic (A3)		Loamy Muck	y Mineral (Fl	1)	Redu	ced Vertic (F18)
Hydrog	en Sulfide (A4)		Loamy Gleye	d Matrix F2)		Red	Parent Material (TF2)
Stratifi	ed Layers (A5) (LRR C)		Depleted Mat	rix (F3)		Othe	(Explain in Remarks)
1 cm M	luck (A9) (LRR D)		Redox Dark S	Surface (F6)			
Deplete	ed Below Dark Surface (All)		Depleted Darl	k Surface (F7	7)		
Thick I	Dark Surface (A12)		Redox Depres	ssions (F8)		³ Indicators	of hydrophytic vegetation and
Sandy I	Mucky Mineral (SI)		Vernal Pools	(F9)		wetland hy	drology must be present, unless
Sandy	Gleyed Matrix (S4)					disturbed c	r problematic.
	(10) ····································						
strictive La	yer (if present):						
strictive La	yer (if present): Type:						
Depth of marks:	y er (if present): Type:			Hydrid	e Soil Present?	Yes	No
Depth (marks: YDROLO	yer (if present): Type: (inches):			Hydrid	e Soil Present?	Yes	No
estrictive La Depth (emarks: YDROLO etland Hydi	yer (if present): Type: (inches): GY GY rology Indicators:			Hydrid	e Soil Present?	Yes Secondary	No
Depth (marks: YDROLO etland Hydr mary Indica	yer (if present): Type: (inches): GY rology Indicators: tors (any one indicator is suffi	icient)		Hydrid	e Soil Present?	Yes Secondary	No
strictive La Depth (marks: (DROLO etland Hydr mary Indica Surface	yer (if present): Type: (inches): GY GY tors (any one indicator is suffi	icient)	alt Crust (B11)	Hydrid	e Soil Present?	Yes Secondary W	No Indicators (2 or more required) ater Marks (Bl) (Riverine)
Depth of narks: //DROLO tland Hydo mary Indica Surface High W	yer (if present): Type: (inches): GY GY tors (any one indicator is suffit Water (Al) (ater Table (A2)	<u>icient)</u>	alt Crust (B11) Biotic Crust (B12)	Hydrie	e Soil Present?	Yes Secondary W Se	No
strictive La Depth (marks: //DROLO etland Hydr mary Indica Surface High W Saturati	yer (if present): Type:	icient) S B	alt Crust (B11) Biotic Crust (B12)	Hydrid 	e Soil Present?	Yes Secondary W Se	No
strictive La Depth (marks: (DROLO etland Hydr mary Indica Surface High W Saturati Water N	yer (if present): Type: (inches): GY rology Indicators: tors (any one indicator is suffi Water (Al) 'ater Table (A2) on (A3) Marks (B1) (Nonriverine)	i <u>cient)</u> S S A A	alt Crust (B11) Siotic Crust (B12) Aquatic Invertebrat	Hydrid ees (B13) Ddor (Cl)	e Soil Present?	Yes Secondary W W Se Dr Dr	No
strictive La Depth (marks: /DROLO tiland Hydi mary Indica 	yer (if present): Type: (inches): GY rology Indicators: tors (any one indicator is suffi Water (Al) /ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverin	i <u>cient)</u> S B A H e) O	alt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat Lydrogen Sulfide (Dxidized Rhizosph	Hydrid ees (B13) Ddor (Cl) eres along Li	ving Roots (C3)	Yes Secondary W W Se Dr Dr Dr	No Indicators (2 or more required) ater Marks (Bl) (Riverine) diment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2)
strictive La Depth (marks: //DROLO etland Hydi mary Indica Surface High W Saturati Water M Sedime Drift D	yer (if present): Type: (inches): GY rology Indicators: tors (any one indicator is suffi Water (A1) (vater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine)	e) P	alt Crust (B11) biotic Crust (B12) quatic Invertebrat lydrogen Sulfide (Dxidized Rhizosph resence of Reduce	Hydrid tes (B13) Ddor (Cl) eres along Li ed Iron (C4)	ving Roots (C3)	Yes Secondary W W Se Dr Dr Dr Dr Dr	No
Estrictive La Depth (marks: YDROLO etland Hydi mary Indica Surface High W Saturati Water N Sedime Drift D Surface	GY GY GY GY Cology Indicators: tors (any one indicator is suffi Water (Al) (ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) Soil Cracks (B6)	i <u>cient)</u> S B A H e) O P R	alt Crust (B11) Biotic Crust (B12) Quatic Invertebrat lydrogen Sulfide C Dxidized Rhizosph resence of Reduce ecent Iron Reduct	Hydrid tes (B13) Ddor (Cl) eres along Li ed Iron (C4) ion in Plowe	ving Roots (C3)	Yes Secondary W W Se Dr Dr Dr Dr Dr Sa	No Indicators (2 or more required) ater Marks (BI) (Riverine) diment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9)
strictive La Depth (marks: //DROLO tland Hydi mary Indica 	gyer (if present): Type: (inches): GY rology Indicators: tors (any one indicator is suffi Water (Al) (Vater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine) Soil Cracks (B6) ion Visible on Aerial Imagery	icient) S B A H e)C P R R	alt Crust (B11) Biotic Crust (B12) quatic Invertebrat lydrogen Sulfide C Dxidized Rhizosph resence of Reduce tecent Iron Reduct hin Muck Surface	Hydrid ees (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plowe e(C7)	ving Roots (C3)	Yes Secondary W W Dr Dr Dr Dr Dr Sa Sa	No Indicators (2 or more required) ater Marks (Bl) (Riverine) diment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3)
strictive La Depth (marks: //DROLO tland Hydu mary Indica Surface High W Saturati Saturati Sedime Drift D Surface Inundat Surface Inundat	GY GY GY GY Cology Indicators: tors (any one indicator is suffit Water (Al) Vater Table (A2) on (A3) Aarks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) cosits (B3) (Nonriverine) Soil Cracks (B6) ion Visible on Aerial Imagery Stained Leaves (B9)	icient) S B A A H e)O P R (B7)T	alt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat lydrogen Sulfide C Dxidized Rhizosph resence of Reduce ecent Iron Reduct hin Muck Surface Dther (Explain in R	Hydrid ees (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plowe e(C7) Remarks)	ving Roots (C3)	Yes Secondary W W Se Dr Dr Dr Dr Cr Sa Sh F4	No Indicators (2 or more required) ater Marks (Bl) (Riverine) diment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3) AC-Neutral Test (D5)
strictive La Depth (marks: //DROLO etland Hydr mary Indica Surface High W Saturati Saturati Saturati Urift D Surface Inundat Water-S	yer (if present): Type: (inches): GY rology Indicators: tors (any one indicator is suffi Water (Al) Vater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) posits (B3) (Nonriverine) Soil Cracks (B6) ion Visible on Aerial Imagery Stained Leaves (B9)	icient) S B A B A A H e) C (B7) C C C C C C C C C C C C C	alt Crust (B11) Stotic Crust (B12) Aquatic Invertebrat lydrogen Sulfide (Dxidized Rhizosph resence of Reduce ecent Iron Reduct hin Muck Surface Other (Explain in R	Hydrid ees (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plowe c(C7) Remarks)	ving Roots (C3)	Yes Secondary W W Dr Dr Dr Dr Dr Cr Sa Sh F4	No
estrictive La Depth (marks: YDROLO etland Hydi mary Indica Surface High W Saturati Water N Sedime Drift D Surface Inundat Water-S eld Observa	yer (if present): Type: (inches): GY GY rology Indicators: tors (any one indicator is suffi Water (Al) 'ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) mt Deposits (B3) (Nonriverine) Soil Cracks (B6) ion Visible on Aerial Imagery Stained Leaves (B9) tions:	icient) S B A e) (B7) C S C C C C C C C C C C C C C	alt Crust (B11) biotic Crust (B12) quatic Invertebrat lydrogen Sulfide (Dxidized Rhizosph resence of Reduce ecent Iron Reduct hin Muck Surface Dther (Explain in R	Hydrid tes (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plowe c(C7) Remarks)	ving Roots (C3) d Soils (CS)	Yes Secondary W W Se Dr Dr Dr Dr Cr Sa Sh F4	No
Estrictive La Depth (marks: YDROLO etland Hydi mary Indica Surface High W Saturati Water M Sedime Drift D Surface Inundat Water-S etld Observa	yer (if present): Type:	icient) S B A e) (B7) No No Mo M C	alt Crust (B11) Biotic Crust (B12) Quatic Invertebrat lydrogen Sulfide (Dividized Rhizosph resence of Reduce tecent Iron Reduct hin Muck Surface other (Explain in R	Hydrid ees (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plowe e(C7) &emarks)	ving Roots (C3)	Yes Secondary W W Se Dr Dr Dr Dr Cr Sa Sh F4	No Indicators (2 or more required) ater Marks (BI) (Riverine) diment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) allow Aquitard (D3) aC-Neutral Test (D5)
estrictive La Depth of marks: YDROLO etland Hydr mary Indica Surface High W Saturati Water N Sedime Drift D Surface Inundat Water-S eld Observa rface Water ater Table Pr	gyer (if present): Type: Type: (inches): GY rology Indicators: tors (any one indicator is suffigure Water (Al) Yater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) soil Cracks (B6) ion Visible on Aerial Imagery Stained Leaves (B9) tions: Present? Yes essent? Yes	icient) (ci	alt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat lydrogen Sulfide (Dxidized Rhizosph resence of Reduce the Reduce ther (Explain in R Depth (inches): Depth (inches):	Hydrid ees (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plowe e(C7) Remarks)	ving Roots (C3) d Soils (CS)	Yes Secondary W W W Se Dr Dr Dr Dr Dr Sa Sh F4	No
estrictive La Depth emarks: YDROLO emarks: YDROLO fetland Hydi imary Indica Surface High W Saturati Water N Sedime Drift D Surface Inundat Water-S eld Observa ater Table Pr turation Press cludes canill	gyer (if present): Type: Type: (inches): GY rology Indicators: tors (any one indicator is suffiled) Water (Al) Yater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) Soil Cracks (B6) ion Visible on Aerial Imagery Stained Leaves (B9) tions: Present? Yes ent? Yes arv fringe)	icient) (B7) No X D No X D No X D	alt Crust (B11) Biotic Crust (B12) quatic Invertebrat lydrogen Sulfide C Dividized Rhizosph resence of Reduce tecent Iron Reduct hin Muck Surface other (Explain in R Depth (inches): Depth (inches): Depth (inches):	Hydrid ees (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plowe c(C7) eemarks)	ving Roots (C3) d Soils (CS)	Yes Secondary W W Dr Dr Dr Dr Dr F4 Sa Sh F4	No
estrictive La Depth (emarks: YDROLO etland Hydr imary Indica Surface High W Saturati Water N Sedime Drift D Surface Inundat Water-S eld Observa rface Water ater Table Pr turation Pres cludes capill escribe Record	aver (if present): Type: Type: (inches): GY Golgy Indicators: tors (any one indicator is suffight Water (Al) Yater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) soil Cracks (B6) ion Visible on Aerial Imagery Stained Leaves (B9) tions: Present? Yes ent? Yes ary fringe) ded Data (stream gauge, mon	icient) (b) (B7) No No No No No No No N	alt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat lydrogen Sulfide (Dxidized Rhizosph resence of Reduce the Reduce ther (Explain in R Depth (inches): Depth (inches): Depth (inches): hotos, previous in	Hydrid ees (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plowe e(C7) Remarks) Spections), if	ving Roots (C3) d Soils (CS) Vetland Hydrolo	Yes Secondary W W Se Dr Dr Dr Dr Cr Sa Sh F4	No
estrictive La Depth emarks: YDROLO etland Hydr imary Indica Surface High W Saturati Saturati Surface Inundat Unift D Surface Inundat High Water-S eld Observa rface Water turation Pres cludes capill scribe Record	aver (if present): Type: Type: (inches): GY rology Indicators: tors (any one indicator is suffigure Water (Al) 'ater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) soil Cracks (B6) ion Visible on Aerial Imagery Stained Leaves (B9) tions: Present? Yes ent? Yes ary fringe) Types ded Data (stream gauge, mon	icient) icient) S B A e) (B7) No X D No X D No X D No X D itoring well, aerial p	alt Crust (B11) Biotic Crust (B12) Aquatic Invertebrat lydrogen Sulfide C Dxidized Rhizosph resence of Reduce tecent Iron Reduct hin Muck Surface Dther (Explain in R Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches):	Hydrid ees (B13) Odor (Cl) eres along Li eres (C7) Remarks) Remarks)	e Soil Present?	Yes	No
estrictive La Depth (emarks: YDROLO etland Hydi imary Indica Surface High W Saturati Water N Sedime Drift D Surface Inundat Hundat eld Observa rface Water ater Table Pr turation Pres cludes capill scribe Record marks:	yer (if present): Type: Type: (inches): GY GY rology Indicators: tors (any one indicator is suffi Water (Al) Vater Table (A2) on (A3) Marks (B1) (Nonriverine) nt Deposits (B2) (Nonriverine) nt Deposits (B2) (Nonriverine) Soil Cracks (B6) ion Visible on Aerial Imagery Stained Leaves (B9) tions: Present? Yes esent? Yes ent? Yes ent? Yes ary fringe) rded Data (stream gauge, mon	icient) S B A e) (B7) No X D No X D No X D No X D itoring well, aerial p	alt Crust (B11) Biotic Crust (B12) Quatic Invertebrat lydrogen Sulfide C Dxidized Rhizosph resence of Reduce ecent Iron Reduct hin Muck Surface Dther (Explain in R Depth (inches): Depth (inches): Depth (inches): hotos, previous in	Hydrid ees (B13) Odor (Cl) eres along Li ed Iron (C4) ion in Plowe (C7) Remarks)	ving Roots (C3) d Soils (CS) Vetland Hydrolo	Yes	No

Project Site: West County Trail Expansion Project	City/Cour	nty: For	estville /Sor	noma Sampling Date: _7 June 2018
Applicant/Owner: Sonoma County Parks and Recreation				State: CA Sampling Point: 7
Investigator(s): C. Bouril			Section, T	Township, Range: Section 7, T7N, R9W, Camp Meeker Quad
Landform (hillslope, terrace, etc.):		Local rel	ief (concav	ve, convex, none): Slope (%):
Subregion (LRR): LRR C La	ıt:			Long: Datum:
Soil Map Unit Name: Goldridge fine sandy loam, 2-9 percent a	nd 9-15 pe	rcent slopes		NWI classification:
Are climatic / hydrologic conditions on the site typical for this time	e of year?	Yes	NN	No (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology	Significa	ntly disturb	ed? Are	"Normal Circumstances" present? Yes No
Are Vegetation Soil or Hydrology	Naturally	problemati	ic? (If n	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS — Attach site map showing	g samplin	g point lo	cations, tr	ansects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No		-		Is the Sampled Area within a Wetland? Yes No
Remarks: 6 SP-1	8		10 -	E
X			31	Part
			X	TOOD
VEGETATION	-		-	
Tree Strotum (Dist size	Absolute	Dominant	Indicator	Dominance Test worksheet:
I COLVERCISS (DD)	% Cover	Species?	Status tex ci S	Number of Dominant Species
1. POLICOS OBBALA	100	X	FACO	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3.				Species Across All Strata: (B)
4. Total Course				Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)		-		
1.				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species x1 =
4.				FACW species x 2 =
5.				FAC species x 3 = FACU species x 4 =
Total Cover:				UPL species $x 5 =$
Herb Stratum (Plot size:)		-		Column Totals(A)(B)
1. LYTHRUW HYSSOPIFOLIA	15	X	OBL	Prevalence Index = B/A =
2. WENTHA PULEGIUM	25	X	OBL	Hydrophytic Vegetation Indicators:
3. CYPERUS ERAGROSTIS	15	X	FACW	- Dominance Test is $>50\%$
4. FESTUGA PERENNIS	5		FAC	Morphological Adaptations1 (Provide supporting data in
5. JUNICUS BUFONIUS	5		Fare	Remarks or on a separate sheet) — Problematic Hydrophytic Vegetation ¹ (Explain)
6.			-	la la constante de la constante (Enfrance)
7.				present, unless disturbed or problematic.
8.				
Total Cover:	65	_		
Woody Vine Stratum (Plot size:)		1		Hydrophytic Vegetation
2.				Present? Yes <u>No</u> .
Total Cover			1	
% Bare Ground in Herb Stratum % Cover of Biot	ic Crust	-		
Remarks:				
IN WOULD L	AW	Rf		
		1		

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Э	U	4	L

Depth Main: Reclax Facares (mbbs) (der (moid)) % Type' Lee' Texture Remarks 22 (der (moid)) % Type' Lee' F31 F31 22 (der (moid)) % Type' Lee' F31 F31 22 (der (moid)) % Type' C F31 F31 22 (der (moid)) % Type' C F31 F31 <td< th=""><th>Inchable Matrix Recox Forance Inchable Color (motor) % Type Texure Remarks 22 Color (motor) % Type Texure Remarks 22 Color (motor) % Type Type Type 22 Color (motor) % Type Typ</th><th>Profile Desc</th><th>ription: (Desc</th><th>ribe to</th><th>the depth r</th><th>eeded to docu</th><th>ment the ind</th><th>icator or co</th><th>onfirm th</th><th>e absence of ind</th><th>icators.)</th><th></th></td<>	Inchable Matrix Recox Forance Inchable Color (motor) % Type Texure Remarks 22 Color (motor) % Type Texure Remarks 22 Color (motor) % Type Type Type 22 Color (motor) % Type Typ	Profile Desc	ription: (Desc	ribe to	the depth r	eeded to docu	ment the ind	icator or co	onfirm th	e absence of ind	icators.)	
(inclus) Color (moin) S Type' Lec' Texture Remarks 2-2 (Inclus) S Type' Etc. Etc. <td< td=""><td>(index) Color (motion) % Type Loc² Texture Remarks 22. (i) 7.5 T25/A 5-15 C PL PL PL 22. (i) 7.5 T25/A 5-15 C PL PL PL 22. (i) 7.5 T25/A 5-15 C PL PL PL 22. (i) 7.5 T25/A 5-15 C PL P</td><td>Depth</td><td>Ν</td><td>Aatrix</td><td></td><td></td><td>Rec</td><td>lox Feature</td><td>S</td><td></td><td></td><td></td></td<>	(index) Color (motion) % Type Loc ² Texture Remarks 22. (i) 7.5 T25/A 5-15 C PL PL PL 22. (i) 7.5 T25/A 5-15 C PL PL PL 22. (i) 7.5 T25/A 5-15 C PL PL PL 22. (i) 7.5 T25/A 5-15 C PL P	Depth	Ν	Aatrix			Rec	lox Feature	S			
Q-2 0.4 7.57K2/4 S-15 C FS1 Z=2 0.4 2.57K2/4 S-15 C FS1 Z=2 0.4 2.57K2/4 S-15 C FS1 Z=2 0.4 2.57K2/4 S-15 C FS1 FS1 Z=2 0.4 2.57K2/4 S1 FS1 FS1 FS1 Histic Exponder (A2) Sandy Roby (S1 Launy Orgee Matrix (S5) 1 Indicators for Potechinis (F18) FS1	C	(inches)	Color (mo	ist)	%	Color (moi	st) %	1	Гуре ¹	Loc ²	Texture	Remarks
2	ZR 4.' T.STR2/4 S=15 C PL FEL Et Ext Ext T.STR2/4 S=15 C PL **Type: Or Concentration, D=Depletion, RM=Reduced Matrix, CS=Conveed or Coated Sand Grains. **Location: PL-Proc Lining, M=Matrix, Histicstors: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solit?: Histic Explored (A2) Stripped Matrix (S5) 1 cm Matrix (A0) (LRR D) Black Histic (A3) Lanny Micky Mineral (P) Rodeed Twefric (P18) Black Histic (A3) Lanny Micky Mineral (P) Rodeed Watrix (S7) Other (Explain in Remarks) 1 cm Matrix (A0) (LRR D) Restor Expressions (R8) *Indicators of hydrophysic vegetation and wethind hydrology must be pretent; unless distorted or problematic. Sandy Musky Mineral (S1) Restor Expressions (R8) *Indicators (Car more required) Thick Dark Surface (A1) Depleted Bark Surface (P7) *Indicators (R4) Restrictive Layer (If present): Type: Ne Restrictive Layer (If present): Type: Type: Ne Medicators (Car more required) Safe (P8) Weitund Hydrology Indicators (R4) Safe Creat (B11) Water Marks (B1) (Riverine) Ne Sardiace Water (0-2	LOGRE	12					_		FSL	
24 Rest Rest 1 ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coaled Stad Grains. 1 ¹ Location: PL=Fore Lining, M=Matrix, Hydric Soil Indicators (Applicable to all LRRs, nuless otherwise noted.) Indicators for Photomatic Hydric Soils?: Histosoil (A) Sandy Redox (S5) I com Mack (A0) (LRR B) Block Histic (A3) Loamy Gleyed Matrix (S6) 2 cm Mack (A0) (LRR B) Block Histic (A4) Loamy Gleyed Matrix (S7) Rold Parent Material (TP2) Standig Holes Dark Surface (A1) Depleted Matrix (S7) Rold Parent Material (TP2) Displate Block Histic (A3) Loamy Gleyed Matrix (S7) Other (Esplain in Resunts.) Indicators of Independence of the state (A1) Depleted Dark Surface (Ff6) Other (Esplain in Resunts.) Indicators of Independence of the state (A1) Depleted Dark Surface (Ff7) Thick Dark Surface (A1) Depleted Dark Surface (Ff7) Thick Dark Surface (A2) Relox Dark Surface (F7) Thick Dark Surface (A2) No Idiatators of photophysic segnation and well and hydrology must be present, unless disturbed or problematic. Sandy Gleyel Matrix (S4) Restrictive Layer (If present): Type: No No Sandy Gleyel Matrix (B1) Satt Crust (B11) Water Marks (B1) (Riverine) Satt Crust	E4 Deskt Rect **Type: C=Concentration, D=Depletion, RM=Reduced Mutrix, CS=Covered or Coated Stard Giralis. **Location: PL=Pore Lining, M=Matrix. **Type: C=Concentration, D=Depletion, RM=Reduced Mutrix, CS=Covered or Coated Stard Giralis. **Location: PL=Pore Lining, M=Matrix. **Type: C=Concentration, D=Depletion, RM=Reduced Mutrix, CS=Covered or Coated Stard Giralis. **Location: PL=Pore Lining, M=Matrix. **Histored (A) Sandy Reduce (S5) 1 cm Mack (A0) (LRR B) Black. Hists: Epipedia Atta: (A3) Loruny Mucky Mineral (D1) Reduced Vertic (F16) Stardie Layers (A5) (LRR C) Depleted Matrix (F3) Other (Esplain in Remarks) In Mack (A0) (LRR D) Relation KS straftic (F0) Other (Esplain in Remarks) Sandy Mucky Mineral (S1) Vernal Pools (F9) *** *** No *** No Restrictive Layer (f) present): Type: No *** Popht (inches): Hydric Soil Present? Yes No *** Remarks: *** No Secondary Indicators (C) Prophytics vegetarion and wether (A1) Sait Crust (B11) Water Mark (B1) (Revertine) Philip Mater Table (A2) Sait Crust (B11) Water Mark (B1) (Revertine) *** No *** </td <td>2-8</td> <td>a</td> <td></td> <td></td> <td>7.516</td> <td>3/4 5</td> <td>-15</td> <td>C</td> <td>PL</td> <td>FSL</td> <td></td>	2-8	a			7.516	3/4 5	-15	C	PL	FSL	
'Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed Sand Grains. '1 Leastion: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: (Applicable to all LRRs, unless otherwise noted.) Hists Epigedon (A2) Sstriped Matrix (S0) 2 cm Musk (A9) (LRR 0) Hydre Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydre Soils': Hydre Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydre Soils': Hydre Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydre Soils': Hydre Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Redox Dark Sariface (F0) Other (Explain in Remarks) I cm Mack (A9) (LRR 0) Redox Dark Sariface (F0) Dipleted Boark Sufface (A12) Redox Dark Sariface (F0) Sandy Muscy Muean (S1) Querted Cripticable Criptic	*Type: C=Concentration, D=Depletion, RM=Rolaced Matrix, CS=Covered or Could Sand Grains. **Location: PL=Pore Lining, M=Matrix, I *Type: C=Concentration, D=Depletion, RM=Rolaced Matrix, CS=Covered or Could Sand Grains. **Location: PL=Pore Lining, M=Matrix, I Histic Epipelob (22) Stripped Matrix (53) I cm Matrix (40) (LRR D) Black Hasis (A3) Lowny Macky Mineral (FI) Reduced Vero: (F18) Hydrog Salfde (A4) Lowny Macky Mineral (FI) Reduced Vero: (F18) Phylogen Salfde (A4) Lowny Macky Mineral (F2) Other (Explain in Remarks) 1 cm Matrix (A4) (LRR C) Depleted Matrix (57) Other (Explain in Remarks) 1 cm Matrix Safrae (A1) Pepleted Dats Safrae (F5) *Iodicators of hydrophytic vegetation and wetland hydrology must be present, unless distarted or problematic. Sandy Macky Mineral (S1) Vernal Pools (F9) *Iodicators of hydrophytic vegetation and wetland hydrology must be present, unless distarted or problematic. Restrictive Layer (I) present): Type: Type: No Type: Depth (inches): Hydrox (S1) Water Marks (S1) (KNerrine) HyDROLOGY Water Matrix (S1) Saft Crust (B11) Water Marks (S1) (KNerrine) Hydrox (S3) (Manverine) Postale Crust (B12) Define Depals (G3) (KNervine) Saftare Water (A1) <t< td=""><td>8+</td><td>PORT</td><td>Ro</td><td>et</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	8+	PORT	Ro	et							
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ¹ Location: PL=Pore Lining, M=Matrix. Hydric Soll Indicators: (Applicable to all LRBs, unless otherwise noted.) Indicators: (Applicable to all LRBs, unless otherwise noted.) Indicators: (Applicable to all LRBs, Unless otherwise noted.) Historo (A) Sandy Relox (S5) 1 cm Mack (AD) (LRB C) Black Risite (A3) Learny Mucky Mineral (F) Reduced Vertic (F18) Hydrogen Sulfde (A4) Learny Mucky Mineral (F) Reduced Vertic (F18) Depleted Bolow Dark Surface (A1) Depleted Matrix (F2) Reduced Vertic (F18) Depleted Bolow Dark Surface (A1) Depleted Dark Surface (F7) Thick Dark Surface (A1) Depleted Dark Surface (F7) Thick Dark Surface (A1) Depleted Dark Surface (F7) ************************************	**Type: C=Concentration, D=Dapletion, RM=Reduced Matrix, CS=Covered or Costed Sand Gmins. * Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Startly Redox (S5) 1 cm Mack (A9) (LRR C) 2 cm Mack (A9) (LRR D) Black Histic (A3) Lonny Wock Mineral (PT) Reduced Vertix (F18) Startlife Layer (A5) (LRR C) Dapleted Matrix (F3) Rel Perent Material (T2) Displeted Bear (A12) Relation Rest Surface (F0) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Varial Posits (F9) wethind hydrology must be perturbed and hydrology must be pertent, its wastarbad and hydrology must be perturbed is udf.[starbad											
"Type: C=Cancentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soile?; Histic Epideon (A2) Stripped Matrix (S6) _2 cm Muck (A0) (LRR C) Black Histic (A3) Laamy Mucky Mineral (F) Reduce Veric (F18) Hydrogen Sulfade (A4) Laamy Mucky Mineral (F) Reduce Veric (F18) Depleted Matrix (C9) Depleted Matrix (C9) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Surface (F2) Depleted Matrix (C9) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Surface (F2) Depleted Matrix (S1) Peleted Redow Dark Surface (F2) *Indicators of hydrophytic vegetation and wetland Hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Vernal Pools (F9) *Indicators of hydrophytic vegetation and wetland Hydrology findicators: Trink: Marks (B1) Sand Terus (B11) Water Marks (B1) (Roverine) Sandy Glazed Matrix (B1) Surface Water (A1) Sand Terus (B12) Secondary Indicators: Secondary Indicators: Think: Dake (B1) (Morriverine) Biotic Crass (B12) Secondary Indicators: No Suraface Site (B1) (Morriverine) <	'Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains. 'Location: PL-Pore Lining, M-Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solk': Histic Epipedon (A2) Stripped Matrix (S6)		-									
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix, Hydric Soil Indicators: (Appletable to all LRs, unless otherwise noted.) Indicators for Problematic Hydric Soils': Histosol (AD) Sandy Redox (SS) 1 cm Mack (AD) (LR C) Black Histic (A2) Loamy Macky Mineral (F) Reduced Vertic (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (S6) 2 cm Muck (AD) (LR R D) Stratified Layses (A5) (LR C) Depleted Matrix (F2) Red Parent Material (TP2) Stratified Hellow Dark Surface (A1) Depleted Matrix (F3) Other Explain in Remarks) Depleted Hellow Dark Surface (A12) Rediox Depressions (F8) * Indicators of hydrophylic suggestion and welland hydrohogy must be present, unless disturbed or problematic. Sandy Micky Minneral (S1) Vernal Pools (F9) * Mydric Soil Present? Yes No Pupth (inchers): Type: No Sand Sufface (C1) Sand Crast (B11) Water Marks (B) (Riverine) Sandy Micky SD1 (G2) (Monriverine) Sand Crast (B11) Water Marks (B) (Riverine) Sand Crast (B12) Sediment Deposits (B2) (Riverine) Pupth (inchers): Sand Crast (B11) Water Marks (B) (Riverine) Aquatic Invertebrats (B13) Drinit Deposits (B3) (Riverine)<	'Type: C=Consentation, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 'Location: PL=Pore Lining, M=Matrix. Hydre Soil Indicators: (Applicable to all LRBs, unless otherwise mode) Indicators for Problematic Hydric Soils': Histocol (A1) Saripped Matrix (65) 1 cm Musck (A9) (LRR C) Black Hist (A3) Learny Machy Mineral (F) Reduced Vertic (F18) Hydrogen Sulfide (A4) Learny Gleged Matrix (F2) Roder Present Material (TF2) Strainfield Hydrogen Sulfide (A4) Depleted Matrix (F3) Other (Explain in Remarks) I cm Musck (A9) (LRR D) Redux Dark Surface (F0) Thick tarks Surface (A12) Redux Dark Surface (F0) Thick Dark Surface (A12) Relox Dark Surface (F0) 'Indicators of hydrohydric vegetation and water Material (S13) 'Vernal Pools (F9) Sandy Muscy Mineral (S1) Vernal Pools (F9) 'Indicators of hydrohydric vegetation and water Minerski (S4) Restrictive Layer (If present): Type: Type: No Type: Type: No Secondary Indicators (2 or more required) Hydrohology indicators: Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Reverine) Hydrogen Suffice Code (C2) Doptin (Explain in Remarks) Port Roposi											
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ¹ Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ¹ : Histic Epideoin (A2) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Black Histic (A3) Loamy Mucky Mineral (FI) Reduced Versic (PIS) Hydric Soil Indicators (S1) Depleted Matrix (F3) Other (Explain in Remarks) 1 on Muck (A9) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 on Muck (A9) (LRR C) Redox Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depletesions (F8) "Indicators of bydrophytic vagetation and wetland bydrology unait be present, unless disturbed or problematic. Sandy Gleyel Matrix (C4) Vernal Pools (F9) Sudcators (2 or more required) Primery Indicators (any one indicator is sufficient) Sand Vernal Pools (F9) Secondary Indicators (2 or more required) Primery Indicators (any one indicator is sufficient) Sand Crost (B11) Water Marks (B1) (Roterine) Surface Water (A) Baiutic Oart (B11) Water Marks (B1) (Roterine) Surface Water (A) Baiutic Coart (B12) Sediment Deposits (B2) (Roterine)	'Type: C-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. * Location: PL=Pore Lining, M=Matrix. 'Type: C-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. * Location: PL=Pore Lining, M=Matrix. 'Type: C-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. * Location: PL=Pore Lining, M=Matrix. 'Histor (A) Sandy Redux (S3)				·							
¹ Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains. ¹ Lesation: PL=Pare Lining, M=Matrix. Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Bydric Soils?: Histic Epipedion (A2) Sindy Redox (S5) I and Mack (A9) (LRR C) Histic Epipedion (A2) Depleted Matrix (S6) 2 cm Mack (A0) (LRR D) Hydrogen Suffice Layes (A5) (LRR C) Depleted Matrix (T3) Other (Epipein (A2) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F0) Depleted Matrix (S1) Depleted Bolow Dark Surface (A12) Redox Depressions (F8) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mecky Mineral (S1) Vernal Pools (F9) ³ Indicators (2 or more required) Restrictive Layer (If present): Type: Type: No Type: Depleted Matrix (S1) Salt Crust (B11) Water Marks (B1) (Riverine) Surface Water (A3) Salt Crust (B12) Soltine Crust (B13) Drini Deposits (B3) (Riverine) Surface Surface (B6) Recent from Reduction in Remarks) Secondary Indicators (2 or more required) Primary Indicator is sufficient Solitic Crust (B13) Drini Deposits (B3) (Riverine) Surface So	¹ Type: C-Concentration, D-Depletion, EM-Reduced Matrix, CS-Covered or Coated Sand Grains. ¹ Location: PL-Pore Lining, M-Matrix, High C Soil Indicators: (Applicable to all LERs, unless otherwise noted.) Indicators for Problematic Hydric Soil?: High Explored (A) Stripped Matrix (S)											
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining, M=Matrix, Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ² : Histosol (A) Loamy Redox (S5) L or Muck (A0) (LRR B) Black Histic (A3) Loamy Mucky Mineral (FI) Redox (A0) (LRR B) Black Histic (A3) Loamy Mucky Mineral (FI) Redox Dark Surface (Fo) Depleted Matrix (F2) Depleted Matrix (F2) Diter (Explain in Remarks) Diter (Explain in Remarks) L on Muck (A9) (LRR D) Redox Dark Surface (Fo) Depleted Below Dark Surface (A1) Depleted Matrix (F2) Other (Explain in Remarks) Standified Layers (A5) (LRR C) Redox Dark Surface (Fo) Depleted Below Dark Surface (A1) Depleted Dark Surface (Fo) Depleted Matrix (S4) Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetation and welland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If present): Type: Depth (inches):	¹ Type: C = Concentration. PL-Pore Laing. M=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL-Pore Laing. M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless othervise nated.) Indicators: (Applicable to all LRs, unless othervise nated.) I can Mack (Al0) (LRR C) Histos (A) Sandy Redox (S5) I can Mack (Al0) (LRR B) Black Histic (A) Loamy Macky Mineral (PI) Redoxel Verice (FR) Hydrogen Suffice (A4) Loamy Macky Mineral (PI) Redoxel Verice (FR) Depicted Decore Matrix (C4) Redox Dark Sarface (FR) Redoxel Verice (FR) Depicted Decore Matrix (C4) Redox Dark Sarface (FR) Sandy Mocky Mineral (S1) Vernal Pools (F9) Sandy Mocky Mineral (S1) Vernal Pools (F9) Vernal Pools (F9) ³ Indicators (2 or more required) Restrictive Layer (If present): Type: Pype: Ne Metrix (B1) (Mervine) Sandy Mocky Mineral (S1) Salt Crust (B11) Water Marks (B1) (Mervine) Metrix (B1) Sarface Water (A1) Salt Crust (B11) Water Marks (B1) (Mervine) Metrix (B1) Sarface Water (A1) Salt Crust (B11) Water Marks (B1) (Mervine) Metrix (B1) Sarface Water (A2) Biot											
Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solls ¹ : Hissos (A)	Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Solls ¹ : Histis Epipedion (A2) Single Matrix (S6) 1 cm Mack (A9) (LRR C) Black Histic (A3) Loamy Mucky Mineral (FI) Reduced Vertic (FIS) Hydrogen Sufface (A4) Loamy Mucky Mineral (FI) Red Parent Matterial (TF2) Statified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Mack (A9) (LRR C) Depleted Dark Surface (F6) Other (Explain in Remarks) Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators of hydrophytic vegetinic and wetland hydrology must be present; unless disturbed or problematic. Sandy Mucky Mineral (S1) Vernal Pools (F9) ³ Indicators (2 or more required) Pdpt (inches): Type: Type: No Depth (inches): No Sandr Mucks (B1) (Nerverine) Sald Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biolic Crust (B11) Sald Crust (B11) Sediment Depoisit (B2) (Riverine) Marks (B1) (Nonriverine) Oxidrate Natros (B13) Drint Depoisit (B2) (Riverine) Drint Depoisit (B2) (Riverine) Statuation (A3) Aquutic Invertentias (B13) Drint Depoisit (B3) (Riverine) Drint Depoisit (B3) (Riverine)	¹ Type: C=Co	oncentration, D	=Deple	tion, RM=F	educed Matrix	k, CS=Covered	d or Coated	Sand Gra	nins. ² Location	h: PL=Pore Lining	, M=Matrix.
Histos (A) Sandy Redox (S5) I cm Musk (A9) (LR C) Histos (A3) Loamy Musky Mineral (F) Reduced Vertic (F18) Black Histic (A3) Loamy Gleged Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Red Parent Material (TF2) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Red Parent Material (TF2) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) I cm Musk (A9) (LRR C) Sandy Mokey Mineral (S1) Uvernal Pools (F9) I diators of hydrophyric vegetation and weland hydrology most be present, unless disturbed or problematic. Sandy Micky Mineral (S1) Vernal Pools (F9) I diators of nydrophyric vegetation and weland hydrology most be present, unless disturbed or problematic. Restrictive Layer (If present): Type:	Histor (Al) Sandy Redox (S) I om Muck (A) (LRR C) Histor (A3) Lamy Muck (Miceal (FI) Reduced Verific (F18) Black Histic (A3) Lamy Muck (Miceal (FI) Reduced Verific (F18) Hydrogen Sulfide (A) Lamy Muck (Miceal (FI) Reduced Verific (F18) L om Muck (A9) (LRR D) Depleted Matrix (F3) Other (Explain in Remarks) L om Muck (A9) (LRR D) Redox Dark Surface (F0) Depleted Bark Surface (F12) Thick Dark Surface (A12) Redox Derressions (F8) * Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Muck (S0) Vernal Pools (F9) * Mydric Soil Present? Yes No Type:	Hydric Soil I	Indicators: (A	pplicab	le to all LF	Rs, unless oth	nerwise noted	.)			Indicators for	Problematic Hydric Soils3:
Hitic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A0) (LR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfde (A4) Loamy Mucky Mineral (F2) Other (Explain in Remarks) 1 cm Muck (A9) (LR B) Depleted Matrix (F2) Other (Explain in Remarks) 1 cm Muck (A9) (LR B) Depleted Matrix (F2) Other (Explain in Remarks) 1 cm Muck (A9) (LR B) Depleted Dark Surface (A1) Depleted Dark Surface (A1) 1 cm Muck (A9) (LR B) Redox Depressions (F8) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Vernal Pools (F9) disturbed or problematic. Restrictive Layer (if present): Type:	Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (AD) (LRR B) Black Histic (A3) Loamy Mucky Minern (Ft) Reduced Veric (FtB) Hydrogen Sulfide (A4) Loamy Mucky Minern (Ft) Reduced Veric (FtB) Stratified Layes (A5) (LRR D) Depicted Matrix (F2) Other (Explain in Remarks) 1 cm Muck (A3) (LRR D) Depicted Matrix (F2) Other (Explain in Remarks) 1 cm Muck (A3) (LRR D) Depicted Dark Surface (F7) "Indicators of hydrophytic vegetation and weland hydrology must be present, unless disturbed or problematic." Sandy Mucky Mineral (S1) Vernal Pools (F9) "Indicators (F2) Sandy Gleyed Matrix (S4) Hydric Soil Present? Yes Type:	Histos	sol (Al)				Sandy	Redox (S5))		1 cm Mu	ck (A9) (LRR C)
Black Histic (A3) Loamy Gleyed Matrix F2) Red neared Material (TF2) Hydrogen Sulfide (A4) Leamy Gleyed Matrix (F3) Other (Explain in Remarks) I ern Mack (A9) (LRR D) Redox Dark Surface (F6) Depleted Matrix (F3) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Bepleted Dark Surface (A12) Thick Dark Surface (A12) Redox Depressions (F8) "alidicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Vernal Pools (F9) "statused or problematic. Restrictive Layer (if present): Type:	Black Hidic (A3) Lamy Mucky Mineral (FI) Reduced Vertic (F18) Hydrogen Sulfide (A4) Lamy Mucky Mineral (FI) Reduced Vertic (F18) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Other (Explain in Remarks) Depleted Bedow Dark Surface (A11) Depleted Dark Surface (A12) Redox Depressions (F8) ³ Indicators of hydrophytic vegetation and welland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Vernal Pools (F9) Veral Pools (F9) Thick Dark Surface (A12) Redox Depressions (F8) ³ Indicators of hydrophytic vegetation and welland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Veral Pools (F9) Veral Pools (F9) Remarks: Hydric Soil Present? Yes No Metand Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Salt Crust (B12) Sectioned Deposits (B2) (Riverine) Startace Material (LA2) Biotic Crust (B12) Sectioned Deposits (B2) (Riverine) Startace (A3) Hydrogen Suffice Odor (C1) Dorit Deposits (B2) (Riverine) Startace (A3) Hydrogen Suffice Odor (C1) Dorit Deposits (B3) (Nenriverine)	Histic	Epipedon (A2)			Stripp	ed Matrix (S	S6)		2 cm Mu	ck (AlO) (LRR B)
Hydrogen Sullide (A4)	Injudices Statisfied Layers (A5) (LRR C) Depleted Matrix (F2) Ref Parent Material (TF2) 1 cm Musk (A9) (LRR D) Redox Dark Surface (F6) Other (Explain in Remarks) Popleted Below Dark Surface (A12) Redox Dark Surface (F7) *Indicators of polytophytic vegetation and welnahicators (F9) Sandy Gleved Matrix (S4) Vernal Pools (F9) *Indicators of polytophytic vegetation and welnahicators: Type:	Black	Histic (A3)				Loamy	Mucky M	ineral (FI)	Reduced	Vertic (F18)
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□ Print Nature (10) □ Depleted Dark Surface (AI) □ Depleted Dark Surface (AI) □ Thick Dark Surface (AI2) □ Redox Depressions (F8) ** Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. □ Sandy Mucky Mineral (SI) □ Vernal Pools (F9) ** Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): □ Type: □ □ Depth (inches): □ Hydric Soil Present? Yes No Remarks: □ Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) □ Secondary Indicators (2 or more required) □ Hydro (AI) Salt Crust (B11) □ Water Marks (B) (Riverine) □ Surface Water (AI) Salt Crust (B12) Sediment Deposits (B2) (Riverine) □ Surface Vater Table (A2) □ Biotic Crust (B13) □ Drift Deposits (B3) (Riverine) □ Water Marks (B1) (Nonriverine) □ Presence of Rolucid Iron Reduction in Plowed Soils (C3) □ Drift Deposits (B3) (Nonriverine) □ Surface Soil Crusk (B6) □ Recent Iron Reduction in Plowed Soils (CS) □ Saturation Visible on Acrial Imagery (C9) □ Inundation Visible on Acrial Imagery (B7) □ Thin Muck Surface (C7) □ Shallow Aquitard (D3) <td>Normation Note Surface (AII) Note Surface (F7) Thick Dark Surface (AII) Relox Depressions (F8) ** Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Muedy Mineral (S1) Vernal Pools (F9) ** Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: No Depth (inches): Hydric Soil Present? Yes Remarks: No Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Saturation (A3) Saturation (B1) Surface Water (AI) Saturation (C1) Water Marks (B1) (Riverine) Starlace Water (A) Biotic Crust (B12) Sectioned Deposits (B2) (Riverine) Starlace Site (B1) Hydrosogn Sufface Odor (C1) Drift Deposits (B3) (Norriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Surface Site Check (B6) Recent Ron Reduction in Plowed Soils (CS) Saturation Visible on Aerial Imagery (C9) Inindation Visible on Aerial Imagery (B7) Thin Mack Surface (C7) Shallow Aquitard (D3) Water Stained Leaves (B9) V Other (Explain in Remarks)</td> <td>1 cm M</td> <td>Muck (A9) (LR</td> <td>R D)</td> <td>()</td> <td></td> <td> Depier</td> <td>Dark Surfa</td> <td>r3)</td> <td></td> <td> Other (E:</td> <td>(plain in Remarks)</td>	Normation Note Surface (AII) Note Surface (F7) Thick Dark Surface (AII) Relox Depressions (F8) ** Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Muedy Mineral (S1) Vernal Pools (F9) ** Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: No Depth (inches): Hydric Soil Present? Yes Remarks: No Secondary Indicators (2 or more required) Primary Indicators (any one indicator is sufficient) Saturation (A3) Saturation (B1) Surface Water (AI) Saturation (C1) Water Marks (B1) (Riverine) Starlace Water (A) Biotic Crust (B12) Sectioned Deposits (B2) (Riverine) Starlace Site (B1) Hydrosogn Sufface Odor (C1) Drift Deposits (B3) (Norriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Surface Site Check (B6) Recent Ron Reduction in Plowed Soils (CS) Saturation Visible on Aerial Imagery (C9) Inindation Visible on Aerial Imagery (B7) Thin Mack Surface (C7) Shallow Aquitard (D3) Water Stained Leaves (B9) V Other (Explain in Remarks)	1 cm M	Muck (A9) (LR	R D)	()		Depier	Dark Surfa	r3)		Other (E:	(plain in Remarks)
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Surface Soft Clacks (B0)	Surface Soft Clacks (B0)	Drift L Surfac	e Soil Cracks (Nonriv B6)	erine)		Presence of	Reduced In	on (C4)	Colla (CC)	Crayfi	sh Burrows (C8)
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Saturation Present? Yes No Wetland Hydrology Present? Yes No (includes capillary fringe)	Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe)	Water Table P	resent?	Yes	N	lo <u>K</u>	Depth (inch-	es):				
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Remarks:	Remarks: WLATTED SUPFLEE, SUPPRESPED VEG	(includes capi Describe Reco	llary tringe) orded Data (stre	am oai	ige, monitor	ring well aeris	l photos pres	ious increa	tions) if	available		
Remarks:	Remarks: WLASTIED SUPERIE, SUPPRESSED VEG		and sound (off)	But	-e-, monto		- photos, prev	moper		a anuolo.		
	WLATTED SUPFLICE, SUPPRESSED VEG	Remarks				1.1	-1		-			
WATTED SUFFLICE, SUPPRESTED VEC		ALVIIIGI KO.			1	MASTE	ED SUP	FLO	E,S	STAPPAR	STED VE	=4
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Project Site: West County Trail Expansion Project	City/Cou	nty: For	estville /Son	oma	Sampling Date:	7 June 2018
Applicant/Owner: Sonoma County Parks and Recreation	-			State: CA	Sampling Point:	8
Investigator(s): C. Bouril			Section, T	ownship, Range:	Section 7, T7N, R9W	. Camp Meeker Ouad
Landform (hillslope, terrace, etc.):		Local re	lief (concave	e, convex, none):		Slope (%):
Subregion (LRR): LRR C L	at:	_		Long:		Datum:
Soil Map Unit Name: Goldridge fine sandy loam, 2-9 percent	and 9-15 pe	ercent slopes		NWI classific	ation:	
Are climatic / hydrologic conditions on the site typical for this tim	ne of year?	Yes	N	lo	(If no, explain in Rer	narks.)
Are Vegetation Soil or Hydrology	Significa	antly disturb	ed? Are	Normal Circumsta	ances" present? Yes	No
Are Vegetation Soil or Hydrology	Naturall	y problemat	ic? (If no	eeded, explain any	answers in Remarks.)	
SUMMARY OF FINDINGS — Attach site map showin	ig samplin	g point lo	cations, tr	ansects, importa	ant features, etc.	
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No	X	-		Is the Sampled within a Wetlan	Area nd? Yes	No
VECETATION						
VEGETATION	Absolute	Dominant	Indicator	Dominance Test	worksheet:	
Tree Stratum (Plot size:)	<u>% Cover</u>	Species?	Status			
1. QUERCUS LOBATA	100	8	FACU	That Are OBL, F	ACW, or FAC:	(A)
2.				Total Number of	Dominant	0
3.				Species Across A	Il Strata:	(B)
4. '				Percent of Domin	ant Species	00
Sapling/Shrub Stratum (Plot size:)		-		That Are OBL, F	ACW, or FAC:	99 (A/B)
1.				Prevalence Inde	x worksheet:	
2.				Total % Cover of	<u>.</u>	Multiply by:
3.				OBL species		×1 -
4.				FACW species	5	x 2 =
5.				FAC species FACU species	125	x 3 =
Horb Stratum (Plat size:		_		UPL species Column Totals:		x 5 = (A)(B)
	60	V	En	Prevalence	Index = $B/A =$	53
2 HUPPOLILIEDIC PADICATA	75	X	Excil	Hydrophytic Ve	getation Indicators:	
3 JONICIS BUFANIUS	5	X	FROW	- Dominance Te	est is $\geq 50\%$	

 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic			
Vegetation			
Present?	Yes	No	X.

— Prevalence Index is $\leq 3.0^{1}$

% Bare Ground in Herb Stratum Remarks:

Woody Vine Stratum (Plot size:

4.

5.

6.

7.

8.

1.

2.

Total Cover:

Total Cover:

% Cover of Biotic Crust

Denth Matrix Redox Features			
(inches) Color (moist) % Color (moist) % Type ¹	Loc ²	Texture	Remarks
0-2 104R4/2 -		TSI	
2-10 10 TR4/2 75183/4 15 5.	PC	FS	
	1		
			· · · · · · · · · · · · · · · · · · ·
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Gr	rains. ² Locatio	on: PL=Pore Lining, N	M=Matrix.
Ivdric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for P	roblematic Hydric Soils ³
Histosol (Al) Sandy Redox (S5)		1 cm Muck	(AQ) (I PP C)
Histic Epipedon (A2) Stripped Matrix (S6)		2 cm Muck	(A9)(LRR B)
Black Histic (A3)	1)	Reduced V	ertic (F18)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix F2))	Red Parent	Material (TF2)
Stratified Layers (A5) (LRR C) Depleted Matrix (F3)		Other (Exp	lain in Remarks)
1 cm Muck (A9) (LRR D) Redox Dark Surface (F6)			
Depleted Below Dark Surface (All) Depleted Dark Surface (F7	7)	2	
Thick Dark Surface (A12) Redox Depressions (F8)		' Indicators of hy	drophytic vegetation and
Sandy Mucky Mineral (SI) Vernal Pools (F9)		disturbed or prob	lematic.
Sandy Gleyed Matrix (S4)			
Restrictive Layer (if present):			
Туре:			
Type:	c Soil Present?	Ves	No
Type: Depth (inches): Hydrid Remarks:	c Soil Present?	Yes X	No
Type: Hydrid	c Soil Present?	Yes X	No
Type: Hydrid	c Soil Present?	Yes X	No
Type: Depth (inches): Hydrid Remarks: HYDROLOGY Vetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)	c Soil Present?	Yes	No
Type:	c Soil Present?	Yes	No
Type:	c Soil Present?	Yes Secondary Indica Water M Sedimer	No attors (2 or more required) larks (Bl) (Riverine) th Deposits (B2) (Riverine)
Type:	c Soil Present?	Yes Secondary Indica Water M Sedimen Drift De	No ators (2 or more required) larks (Bl) (Riverine) t Deposits (B2) (Riverine) posits (B3) (Riverine)
Type: Hydrid Depth (inches): Hydrid Remarks: Hydrid HYDROLOGY Hydrology Indicators: Wetland Hydrology Indicators: Salt Crust (B11) Surface Water (Al) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (Cl)	c Soil Present?	Yes X	No attors (2 or more required) larks (Bl) (Riverine) tt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10)
Type: Hydrid Depth (inches): Hydrid Remarks: Hydrology Indicators: Attack Hydrology Indicators: brimary Indicators (any one indicator is sufficient) Salt Crust (B11) Surface Water (Al) Salt Crust (B12) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (Cl) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Li	c Soil Present?	Yes	No
Type: Hydrid Depth (inches): Hydrid Remarks: Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Salt Crust (B11) Surface Water (Al) Salt Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (Cl) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Li Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)	c Soil Present?	Yes	No attors (2 or more required) larks (Bl) (Riverine) th Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8)
Type: Hydrid Depth (inches): Hydrid Remarks: Hydrid HYDROLOGY Hydrid Vetland Hydrology Indicators: Ymmary Indicators (any one indicator is sufficient)	c Soil Present?	Yes	No ttors (2 or more required) larks (Bl) (Riverine) tt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C
Type: Hydrid Depth (inches): Hydrid Remarks: Hydrid HYDROLOGY Hydrid Wetland Hydrology Indicators: Finary Indicators (any one indicator is sufficient) Surface Water (Al) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (Cl) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Li Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowe Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water Strained Leaver (RD) Othera (Eventicia in Remercian)	c Soil Present?	Yes	No
Type: Hydrid Depth (inches): Hydrid Remarks: Hydrid HYDROLOGY Salt Crust (B11) Minary Indicators (any one indicator is sufficient) Salt Crust (B11) Surface Water (Al) Salt Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (Cl) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Li Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowe Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)	c Soil Present?	Yes Secondary Indica Water M Sedimen Drift De Dry-Sea Dry-Sea Crayfish Saturatio Shallow FAC-Ne	No
Type: Hydrid Depth (inches): Hydrid Remarks: Hydrid HYDROLOGY Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Salt Crust (B11) Surface Water (Al) Salt Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (Cl) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Li Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowe Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)	c Soil Present?	Yes Secondary Indica Water M Sedimer Drift De Drainage Dry-Sea Dry-Sea Crayfish Saturatio Shallow FAC-Ne	No ttors (2 or more required) larks (Bl) (Riverine) tt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C Aquitard (D3) ntral Test (D5)
Type: Hydrid Depth (inches): Hydrid Remarks: HYDROLOGY Attack Salt Crust (B11) Surface Water (Al) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (Cl) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Li Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowe Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Tield Observations: Yes No Depth (inches):	c Soil Present?	Yes Secondary Indica Water M Sedimer Drift De Drainaga Dry-Sea Dry-Sea Crayfish Saturatio Shallow FAC-Ne	No ttors (2 or more required) larks (Bl) (Riverine) t Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C Aquitard (D3) ntral Test (D5)
Type: Hydrid Depth (inches): Hydrid Remarks: Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Salt Crust (B11) Surface Water (Al) Salt Crust (B12) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (Cl) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Li Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowe Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches):	e Soil Present?	Yes X	No ators (2 or more required) larks (Bl) (Riverine) t Deposits (B2) (Riverine) posits (B3) (Riverine) = Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C Aquitard (D3) ntral Test (D5)
Type: Hydrid Depth (inches): Hydrid Remarks: Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Salt Crust (B11) Surface Water (Al) Salt Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (Cl) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Li Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowe Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Tield Observations: Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Yes	c Soil Present? iving Roots (C3) ed Soils (CS)	Yes	No
Type: Hydrid Depth (inches): Hydrid Remarks: HyDROLOGY Wetland Hydrology Indicators: Yrimary Indicators (any one indicator is sufficient) Surface Water (Al) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (Cl) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Li Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowe Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Field Observations: No Depth (inches): water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): W Water Table Present? Yes No Depth (inches): W Saturation Present? Yes No Depth (inches): W Securice Recorded Data (stream gauge, monitoring well, aerial photos, mervious insprestions) H<	e Soil Present? iving Roots (C3) ed Soils (CS)	Yes	No ators (2 or more required) larks (Bl) (Riverine) t Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C Aquitard (D3) ntral Test (D5) sNo
Type: Hydro Depth (inches): Hydro Remarks: Hydrology Indicators: Primary Indicators (any one indicator is sufficient) Salt Crust (B11) Surface Water (Al) Salt Crust (B12) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Oxidized Rhizospheres along Li Drift Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Li Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowe Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Prield Observations: Water Table Present? Yes Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Water Table Present? Yes No Depth (inches): Water Table Present? Water Table Present? Yes Water Capillary fringe) Depth (inches): Water Table Present? Yes No Depth (i	c Soil Present? iving Roots (C3) ed Soils (CS) Wetland Hydrold f available:	Yes	No ttors (2 or more required) larks (Bl) (Riverine) tt Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C Aquitard (D3) ntral Test (D5) s No
Type:	e Soil Present?	Yes	No ttors (2 or more required) larks (Bl) (Riverine) th Deposits (B2) (Riverine) posits (B3) (Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C Aquitard (D3) ntral Test (D5) sNo
Type:	e Soil Present?	Yes	No attors (2 or more required) larks (Bl) (Riverine) t Deposits (B2) (Riverine) posits (B3) (Riverine) = Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C Aquitard (D3) ntral Test (D5) sNo

	WETLAND	DETERMINATION	DATA FORM — Arid	West Region
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Project Site: West County Trail Expansion Project	City/Cour	nty: For	estville /Son	oma	Sampling Date:	7 June 2018
Applicant/Owner: Sonoma County Parks and Recreation				State: CA	Sampling Point:	9
Investigator(s): C. Bouril			Section, T	ownship, Range:	Section 7, T7N, R9W	, Camp Meeker Quad
Landform (hillslope, terrace, etc.):	_	Local re	lief (concav	e, convex, none):		Slope (%): 8
Subregion (LRR): LRR C La	.t:		でし	Long: 7		Datum:
Soil Map Unit Name: Goldridge fine sandy loam, 2-9 percent a	ind 9-15 per	rcent slopes	5	NWI classifica	ation:	
Are climatic / hydrologic conditions on the site typical for this time	e of year?	Yes	N	lo	(If no, explain in Rer	narks.)
Are Vegetation X Soil X or Hydrology	Significa	ntly disturb	ed? Are	"Normal Circumsta	nces" present? Yes	No
Are Vegetation Soil or Hydrology	Naturally	problemat	ic? (If n	eeded, explain any a	answers in Remarks.)	
SUMMARY OF FINDINGS — Attach site map showing	g samplin	g point lo	cations, tr	ansects, importa	nt features, etc.	
Hydrophytic Vegetation Present? Yes No _ Hydric Soil Present? Yes No _ Wetland Hydrology Present? Yes No _		-	1//	Is the Sampled A within a Wetlan	Area id? Yes	No
Remarks:			Ń	C.P. a	¥/	E
N SP-10				X		Rott
X SP-9		5				
VEGETATION						
Tree Stratum (Plot eizer	Absolute	Dominant Species?	Indicator	Dominance Test	worksheet:	
1 CONTRACTOR (PIOUSIZE)	% Cover	Species?	Status	Number of Domin	ant Species	-
2	100		FACO	That Are OBL, FA	ACW, or FAC:	<u> </u>
3				Total Number of I	Dominant	2
<u>.</u>				Species Across Al	II Strata:	(B)
Total Cover			1	Percent of Domina	ant Species	67 (4/12)
Sapling/Shrub Stratum (Plot size:)				That Ale ODE, 17		(A/B)
1.				Prevalence Index	worksheet:	
2.				Total % Cover of:		Multiply by:
3.				OBL species		x I =
4.				FACW species		x 2 =
5.				FACU species		x 4 =
Herb Stratum (Plot size: 200) Total Cover:		-		UPL species Column Totals:		x 5 =(B)
1. LYTHRUTLE HYSSOPIFOLIA	3	X	OBL	Prevalence	Index $= B/A =$	<u> </u>
2. CYPERUS ERSEROSTIS	1		FACE	Hydrophytic Veg	getation Indicators:	
3. RUMEX CRISPUS	1		FAC	— Dominance Te	st is >50%	
4. WEDICAGED POLYWORPHA	1.		FRAU	- Morphological	Adaptations1 (Provid	e supporting data in
5. HYPOCHAERIS RADICATA	1		FRCU	Remarks or o	on a separate sheet) vdrophytic Vegetation	(Explain)
6. MENTHA POLEGIUM	2	X	OBL	I tobienaue II	Jarophytic Vegetation	(Explain)
7.				Indicators of hyd present, unless dis	ric soil and wetland hy sturbed or problematic	/drology must be
8.						
Total Cover:	9 %	2				
Woody Vine Stratum (Plot size:)	1	-		Hydrophytic Vegetation		
2.				Present?	Yes X	No
Total Cover:	I					
% Bare Ground in Herb Stratum % Cover of Biot	ic Crust		_			
Remarks: 311 SOUL COLORE OF LAS	900	11100	ILX C	DODECI		
· sere court of the		HIPS	4705	SUTFICE S	they vege	A A LORL,

Sampling Point:

9

Profile Description: (Describe to the dept	n needed to document t	he indicator or	confirm tl	ne absence of inc	dicators.)	
Depth Matrix		Redox Featu	ures			
(inches) Color (moist) %	Color (moist)	%	Туре	Loc ²	Texture	Remarks
$0 - 2 \rightarrow$						WOOD CHIPS
3-12 104R4/2	7.57R4/4	5-30	C	P1_		
L	+57R4/6					
	· (-(-					
				-		
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=0	Covered or Coat	ed Sand Gr	ains. ² Locatio	on: PL=Pore Li	ning, M=Matrix.
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise	e noted.)			Indicators	for Problematic Hydric Soils ³
Histosol (Al)		Sandy Paday ((5)		1	Much (AO) (I DD C)
Histosof (AI)		Stripped Matrix	33) v (S6)		1 cm	Muck (A9) (LKK C)
Black Histic (A3)		Loamy Mucky	Mineral (F	h	Z cili Redu	used Vertic (F18)
Hydrogen Sulfide (A4)		Loamy Gleved	Matrix F2)	()	Red	Parent Material (TE2)
Stratified Layers (A5) (LRR C)		Depleted Matri	v (F3)		Othe	r (Explain in Remarka)
1 cm Muck (A9) (LRR D)		Redox Dark Su	rface (F6)			(Explain in itematks)
Depleted Below Dark Surface (All)		Depleted Dark	Surface (F)	')		
Thick Dark Surface (A12)		Redox Depress	ions (F8)	,	³ Indicator:	s of hydrophytic vegetation and
Sandy Mucky Mineral (SI)		Vernal Pools (I	F9)		wetland hy	drology must be present, unless
Sandy Gleyed Matrix (S4)					disturbed of	or problematic.
Destriction I grow (if growth)						
Restrictive Layer (if present):						
Туре:						
Depth (inches):			Hydrid	Soil Present?	Yes	No
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one indicator is suffi	cient)				Secondary	Indicators (2 or more required)
Surface Water (Al)	Salt (Trust (B11)			33/	ater Marke (Pl) (Pinening)
High Water Table (A2)	Bioti	c Crust (B12)			Se	diment Denosits (B2) (Riverine)
Saturation (A3)	Aqua	tic Invertebrate	s (B13)		D	rift Deposits (B3) (Riverine)
Water Marks (B1) (Nonriverine)	Hydr	ogen Sulfide Od	dor (CI)		D1	rainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine	e) Oxid	ized Rhizospher	res along Li	ving Roots (C3)	D	ry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine)	Prese	nce of Reduced	Iron (C4)		Ci	ayfish Burrows (C8)
Surface Soil Cracks (B6)	Rece	nt Iron Reductio	on in Plowe	d Soils (CS)	Sa	turation Visible on Aerial Imagery (C9
Inundation Visible on Aerial Imagery	(B7) Thin	Muck Surface (C7)		Sh	allow Aquitard (D3)
Water-Stained Leaves (B9)	Other	r (Explain in Re	marks)		F/	AC-Neutral Test (D5)
Field Observations:						
Surface Water Present? Yes	No X Dept	1 (inches):				
Water Table Present? Yes	No X Denti	(inches):				
Saturation Descent? Van	No X Dept	- (inches)			D	
(includes capillary fringe)	No <u></u> Depu	I (menes):	V	vetland Hydrold	ogy Present?	Yes No
Describe Recorded Data (stream gauge, moni	toring well, aerial photo	os, previous insp	pections), if	available:		
Remarks: Dibida	HULP F D.	-nav	- u.	NI-01-	1 .	
FIGEL	modo K	abox 1	OWC	NEKEL	70(L	SFC,

Project Site: West County Trail Expansion Project	_ City/Cour	nty: For	restville /Son	юта	Sampling Date:	7 June 2018
Applicant/Owner: Sonoma County Parks and Recreation				State: CA	Sampling Point:	10
Investigator(s): C. Bouril			_ Section, T	ownship, Range:	Section 7, T7N, R9V	, Camp Meeker Quad
Landform (hillslope, terrace, etc.):		Local re	elief (concav	e, convex, none):		Slope (%): 9
Subregion (LRR): LRR C	.at:		EW	Long:		Datum:
Soil Map Unit Name:Goldridge fine sandy loam, 2-9 percent	and 9-15 pe	rcent slope:	S	NWI classific	ation:	
Are climatic / hydrologic conditions on the site typical for this tin	ne of year?	Yes	N	ło	(If no, explain in Re	narks.)
Are Vegetation X Soil or Hydrology	Significa	ntly disturt	bed? Are	"Normal Circumsta	nces" present? Yes	No
Are Vegetation Soil or Hydrology	Naturally	problemat	tic? (If n	eeded, explain any	answers in Remarks.)	
SUMMARY OF FINDINGS — Attach site map showin	ng samplin	g point lo	ocations, tr	ansects, importa	int features, etc.	
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No		-		Is the Sampled within a Wetlar	Area nd? Yes <u>X</u>	No
Remarks:						
VEGETATION	Absolute	Dominant	Indicator	Dominance Test	worksheet:	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Domi	nant Species	
1.	-			That Are OBL, F.	ACW, or FAC:	<u>Z</u> (A)
2.				Total Number of	Dominant	0
3.				Species Across A	ll Strata:	フ (B)
4.				Percent of Domin	ant Species	1-7
Sarling/Shash Stratum (Blot size)		-		That Are OBL, F.	ACW, or FAC:	(A/B)
	1		1	Prevalence Inde	x worksheet:	
2			17	Total % Cover of		Multinly by
3					·	<u>Matupiy by:</u>
A				OBL species FACW species	<u> </u>	x =
τ. ε	-		-	FAC species		x 3 =
5.	1		1	UPL species	·	x 4 = x 5 =
Herb Stratum (Plot size:)		-		Column Totals:	<u> </u>	(A)(B)
1. LYTHPUTLE HYSSOPIFOLIX	15	X	OBL	Prevalence	Index $= B/A =$	
2. CTHODON DECTYLON	15	X	FACU	Hydrophytic Ve	getation Indicators:	
3. JUNCUS BUTERNIUS	20	X	FAILe	— Dominance Te	est is >50%	
4. HYPOCHAERIS RADICATA	4		FACU	— Prevalence Inc — Morphologica	tex is $\leq 3.0^1$	e supporting data in
5. FESTUCA PERENNIS	2		FAC	Remarks or o	on a separate sheet)	supporting data in
6. POA &NNUÁ	3		FAC	Problematic H	lydrophytic Vegetation	i' (Explain)
7				Indicators of hyd	Iric soil and wetland h	ydrology must be
8				present, unless un	sturbed of problematic	
Total Cover: <u>Woody Vine Stratum</u> (Plot size:)	59	-		Hydrophytic		
1.				Vegetation Present?	Ves X	No
				II COCHE:	100 //	
2.						
2. Total Cover:		-				

Depth	Matrix		Redox Fe	atures			
(inches)	Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1	10/24/2						where offices
1-6	104R4/2	7.5723/4	- 7	C	PL	FSL	
		102 01 1121	-6				
		-				<u></u>	
		-					
	<u> </u>						
		· · · · · · · · · · · · · · · · · · ·					
Type: C=Co	oncentration, D=Depletion, RM	=Reduced Matrix, CS=	Covered or C	pated Sand Gr	ains. ² Locatio	on: PL=Pore Lini	ng, M=Matrix.
Hydric Soil	Indicators: (Applicable to all	LRRs, unless otherwi	se noted.)			Indicators f	or Problematic Hydric Soils ³ :
Histos	sol (Al)		Sandy Redo	k (S5)		1 cm N	Auck (A9) (LRR C)
Histic	Epipedon (A2)		Stripped Ma	trix (S6)		2 cm N	Auck (AIO) (LRR B)
Black	Histic (A3)		Loamy Muc	ky Mineral (F)	Reduc	ed Vertic (F18)
Hydro	ogen Sulfide (A4)		Loamy Gley	ed Matrix F2)		Red Pa	arent Material (TF2)
Stratit	fied Layers (A5) (LRR C)		Depleted Ma	trix (F3)		Other	(Explain in Remarks)
I CIII I	MUCK (A9) (LKK D)		Deplated De	Surface (F6)			
Depic	Dark Surface (A12)		Redox Depr	rk Surface (FR))	³ Indicators	of hydrophytic vegetation and
Sandy	Mucky Mineral (SI)		Vernal Pools	(F9)		wetland hyd	rology must be present, unless
Sandy	Gleyed Matrix (S4)			(1)		disturbed or	problematic.
Restrictive L	ayer (if present):						
	Туре:						
Depth	(inches):			Hydrie	Soil Present?	Yes /	<u> No</u>
HYDROLC	DGY drology Indicators:					Secondary I	ndicators (2 or more required)
Primary Indic	ators (any one indicator is suffi	icient)				Secondary	indicators (2 or more required)
Surfac	e Water (Al)	Salt	Crust (B11)			Wat	ter Marks (BI) (Divarine)
High	Water Table (A2)	Bio	tic Crust (B12))		Sed	iment Deposits (B2) (Riverine)
Satura	tion (A3)	Aqu	atic Invertebra	ates (B13)		Drit	ft Deposits (B3) (Riverine)
Water	Marks (B1) (Nonriverine)	Hyd	lrogen Sulfide	Odor (Cl)		Dra	inage Patterns (B10)
Sedim	ent Deposits (B2) (Nonriverine	e) Oxi	dized Rhizosp	heres along Li	ving Roots (C3)	Dry	-Season Water Table (C2)
Drift I	Deposits (B3) (Nonriverine)	Pres	sence of Reduc	ed Iron (C4)		Cra	yfish Burrows (C8)
Surfac	e Soil Cracks (B6)	Rec	ent Iron Reduc	ction in Plowe	d Soils (CS)	Satu	uration Visible on Aerial Imagery (C9
Inunda	ation Visible on Aerial Imagery	(B7) This	n Muck Surfac	e (C7)		Sha	llow Aquitard (D3)
X Water	-Stained Leaves (B9)	Oth	er (Explain in	Remarks)		FA0	C-Neutral Test (D5)
Field Observ	ations:						
Surface Wate	r Present? Yes	No X Dep	th (inches):				
Water Table F	Present? Yes	No X Den	th (inches):				
Saturation Pre	esent? Ves	No X Dep	th (inches).		Votland Hydrold	my Procont?	Vac X Na
(includes capi	illary fringe)	Dep	(mones).		tonanu nyurok	By a rescalt:	1 V3 // INU
Describe Reco	orded Data (stream gauge, mon	itoring well, aerial pho	tos, previous i	nspections), if	available:		
Remarks:		USESTR	SNGL Y	- HAF	ROPILY	410 N/#	Lo+ REDOX
		NOTLIN	11 to	10141	in til		PERS N
			T I I	MINE	13-10-St	01620	intact of
			DICAT	OC.			

Local re percent slope Yes cantly disturt Ily problemation ing point lo	Section, 7 Elief (concav Ew s f bed? Are tic? (If n	State: CA Sampling Point: [] Fownship, Range: Section 7, T7N, R9W, Camp Meeker Quad //e, convex, none): Slope (%):]
Local re percent slope Yes cantly disturt Ily problemation ing point lo	_ Section, 7 Elief (concav E ∽ s 1 bed? Are tic? (If n	Fownship, Range: Section 7, T7N, R9W, Camp Meeker Quad /e, convex, none): Slope (%): Long: Datum: NWI classification: NWI classification: No (If no, explain in Remarks.) "Normal Circumstances" present? Yes
Local re percent slope Yes cantly disturt Ily problemation ing point lo	elief (concav Ew s bed? Are tic? (If n	ve, convex, none): Slope (%): Image: Convext of the second s
Yes Yes cantly disturt lly problemation ing point lo	bed? Are	Long: Datum: NWI classification:
Yes	bed? Are	NWI classification: No
Yes cantly disturt lly problemant ing point lo	bed? Are tic? (If n	No (If no, explain in Remarks.) "Normal Circumstances" present? Yes No
cantly disturi lly problema i ng point lo	bed? Are tic? (If n	"Normal Circumstances" present? Yes No
lly problemating point lo	tic? (If n	
ing point lo		eeded, explain any answers in Remarks.)
	ocations, tr	ransects, important features, etc.
_		Is the Sampled Area within a Wetland? Yes No
-		
e Dominant	Indicator	Dominance Test worksheet:
Species?	Status	Number of Dominant Species
X	FACU	That Are OBL, FACW, or FAC: (A)
		Total Number of Dominant
_		Species Across All Strata: (B)
		Percent of Dominant Species
_		That Are OBL, FACW, or FAC: (A/B)
1		Prevalence Index worksheet:
		Total % Cover of Multiply by
		Multiply by.
		OBL species $x1 =$ FACW species $x2 =$
		FAC species x 3 =
		PACU species x 4 = UPL species x 5 =
_		Column Totals: (A) (B)
X	FACU	Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		— Dominance Test is >50%
		— Prevalence Index is ≤3.0 ¹ — Morphological Adaptations I (Provide currenting data in the second seco
		Remarks or on a separate sheet)
		- Problematic Hydrophytic Vegetation ¹ (Explain)
		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
-	1	Hydrophytic Vegetation
	-	Present? Yes No
·		I

	Motor			Data P				
(inches) Color (n	matrix noist) %	6 C	olor (moist)	Redox Fe	Type ¹	Loc ²	Texture	Remarks
0-7 1091	20/2							L. D-O-LICR (
7-6 .00	is Ela		TRA	× 2			TEL	mandarte
2-6 101	RATIC	3	DINAY.	7	<u> </u>	M	T>L	
	`						· · · · · ·	
			-					
Type: C=Concentration	D=Depletion	RM=Reduc	ed Matrix	S=Covered or C	oated Sand G	rains ² Locatio	n. PI =Pore Li	ning M=Matrix
Hydrie Soil Indicators: ((Applicable to		unloss other	aviso noted)	ouros suno o		Indiastory	for Decklose 4 Hand 1 C 1 3
Historol (Al)	(Applicable it	o an LKKS, t	intess other	Sandy Dada	(SE)		Indicators	for Problematic Hydric Soils":
Histic Epipedon (A	42)			Sandy Redo	x(53)		1 cm	Muck (A9) (LKR C)
Black Histic (A3)	2)			Loamy Muc	kv Mineral (F	T	Redu	ced Vertic (F18)
Hydrogen Sulfide	(A4)			Loamy Gley	ed Matrix F2)	Red	Parent Material (TF2)
Stratified Layers (.	A5) (LRR C)			Depleted Ma	atrix (F3)		Othe	r (Explain in Remarks)
1 cm Muck (A9) (LRR D)			Redox Dark	Surface (F6)			
Depleted Below D	ark Surface (A	A11)		Depleted Da	ark Surface (F	7)	3 1 1	C1
Thick Dark Surfac	e (A12)			Redox Depr	essions (F8)		wetland hy	of hydrophylic vegetation and drology must be present unless
Sandy Mucky Min	trix $(S4)$			vemai Pool	s (F9)		disturbed of	r problematic.
Sundy Greyou Mu	um (01)							
Depth (inches):					Hydri	c Soil Present?	Yes	No
Depth (inches):					Hydri	c Soil Present?	Yes	No
Depth (inches):					Hydri	c Soil Present?	Yes	No
Depth (inches):	icators:				Hydri	c Soil Present?	Yes Secondary	No
Depth (inches):	icators: ne indicator is	sufficient)			Hydri	c Soil Present?	Yes Secondary	No
Depth (inches):	icators: ne indicator is	sufficient)		Salt Crust (B11)	Hydri	c Soil Present?	Yes Secondary	No Indicators (2 or more required) ater Marks (Bl) (Riverine)
Depth (inches): temarks: HYDROLOGY Vetland Hydrology Indi rimary Indicators (any or Surface Water (AI) High Water Table	icators: ne indicator is) (A2)	sufficient)		Salt Crust (B11) Biotic Crust (B12	Hydri	c Soil Present?	Yes Secondary W Se	No
Depth (inches): Remarks: HYDROLOGY Vetland Hydrology Indi 'rimary Indicators (any or Surface Water (AI) High Water Table Saturation (A3)	icators: ne indicator is) (A2)	sufficient)	:	Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr	Hydri	c Soil Present?	Yes Secondary W Se	No
Depth (inches): Remarks: HYDROLOGY Vetland Hydrology Indi rimary Indicators (any or Surface Water (AI) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposite	icators: ne indicator is) (A2) (Nonriverine	sufficient)		Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide Dvidized Phizore	Hydri) ates (B13) : Odor (Cl)	c Soil Present?	Yes Secondary W Se Dr Dr	No
Depth (inches): Cemarks: HYDROLOGY Vetland Hydrology Indi 'rimary Indicators (any or Surface Water (AI) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3)	icators: ne indicator is) (A2) (Nonriverine 5 (B2) (Nonriv	sufficient) ;) ;erine) e)		Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide Dxidized Rhizosp Presence of Redu	Hydri Hydri) ates (B13) e Odor (Cl) bheres along L ceed Iron (C4)	c Soil Present?	Yes Secondary W Se Dr Dr Dr Dr	No
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indi Primary Indicators (any or Surface Water (AI) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3 Surface Soil Crack	icators: ne indicator is) (A2) (Nonriverine ; (B2) (Nonriv) (Nonriverin ; (B6)	sufficient) ;) ;erine) ;e)		Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide Dxidized Rhizosp Presence of Redu Recent Iron Redu	Hydri Hydri () ates (B13) codor (Cl) oheres along L ced Iron (C4) ction in Plowe	c Soil Present?	Yes Secondary W Se Dr Dr Dr Dr Dr Sa	No
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indi Primary Indicators (any or Surface Water (AI) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3 Surface Soil Crack Inundation Visible	icators: ne indicator is) (A2) (Nonriverine ; (B2) (Nonriv) (Nonriverin ; (B6) ; on Aerial Ima	sufficient) e) e) agery (B7)		Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Fhin Muck Surfac	Hydri Hydri Hydri (1) ates (B13) codor (Cl) oheres along L ced Iron (C4) ction in Plowa ce (C7)	c Soil Present?	Yes	No
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indi Primary Indicators (any or Surface Water (AI) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3 Surface Soil Crack Inundation Visible Water-Stained Lea	icators: ne indicator is) (A2) (Nonriverine 5 (B2) (Nonriv) (Nonriverin 55 (B6) on Aerial Ima ves (B9)	sufficient)) /erine) e) agery (B7)		Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide Dxidized Rhizosp Presence of Redu Recent Iron Redu Ihin Muck Surfac Other (Explain in	Hydri Hydri (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	c Soil Present?	Yes	No
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indi Primary Indicators (any or Surface Water (Al) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3 Surface Soil Crack Inundation Visible Water-Stained Lea	icators: ne indicator is) (A2) (Nonriverine ; (B2) (Nonriv) (Nonriverin ; (B6) ; on Aerial Ima ves (B9)	sufficient) e) e) agery (B7)		Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Fhin Muck Surfac Other (Explain in	Hydri Hydri Hydri (1) ates (B13) Odor (Cl) oheres along L ced Iron (C4) ction in Plowa ce (C7) Remarks)	c Soil Present?	Yes	No
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indi Primary Indicators (any or Surface Water (AI) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3 Drift Deposits (B3 Surface Soil Crack Inundation Visible Water-Stained Lea Field Observations: Surface Water Present?	icators: ne indicator is) (A2) (Nonriverine ; (B2) (Nonriv) (Nonriverin ; (B6) : on Aerial Ima ves (B9) Yes	sufficient) (verine) (e) agery (B7) No		Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Dxidized Rhizosp Presence of Redu Recent Iron Redu Chin Muck Surfac Other (Explain in	Hydri Hydri ates (B13) e Odor (Cl) oheres along L ced Iron (C4) ction in Plowo ce (C7) Remarks)	c Soil Present?	Yes	No
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indi Primary Indicators (any or Surface Water (AI) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3 Surface Soil Crack Inundation Visible Water-Stained Lea Field Observations: Surface Water Present? Water Table Present?	icators: ne indicator is) (A2) (Nonriverine s (B2) (Nonriverin ss (B6) on Aerial Ima ves (B9) Yes Yes	sufficient) (verine) (e) agery (B7) (B7) No No		Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide Dxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in Depth (inches): Depth (inches):	Hydri Hydri () ates (B13) codor (Cl) oheres along L ced Iron (C4) ction in Plowe ce (C7) Remarks)	c Soil Present?	Yes	No
Depth (inches): Remarks: Remarks: HYDROLOGY Wetland Hydrology Indi Primary Indicators (any or Surface Water (AI) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Surface Soil Crack Inundation Visible Water-Stained Lea Field Observations: Surface Water Present? Water Table Present?	icators: ne indicator is) (A2) (Nonriverine ; (B2) (Nonriv) (Nonriverin ; (B6) ; on Aerial Ima ves (B9) Yes Yes Yes	sufficient) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide Dxidized Rhizosp Presence of Redu Recent Iron Redu Chin Muck Surfac Other (Explain in Depth (inches): Depth (inches):	Hydri Hydri Hydri (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	c Soil Present?	Yes	No
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indi Primary Indicators (any or Surface Water (Al?) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Surface Soil Crack Inundation Visible Water-Stained Lea Vield Observations: aurface Water Present? Vater Table Present? aturation Present?	icators: ne indicator is) (A2) (Nonriverine ; (B2) (Nonriv) (Nonriverin ;s (B6) ; on Aerial Ima ves (B9) Yes Yes Yes	sufficient) (e) (e) (B7) (B7) No No No No		Salt Crust (B11) Biotic Crust (B12 Aquatic Invertebr Hydrogen Sulfide Dxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in Depth (inches): Depth (inches):	Hydri Hydri Hydri ates (B13) e Odor (Cl) oheres along L ced Iron (C4) ction in Plowa ce (C7) Remarks)	c Soil Present? iving Roots (C3) ed Soils (CS)	Yes Secondary W Secondary W Secondary W Secondary Secondary Secondary Da Da Da Da Da Da Da Da Da Da Da Da Da	No
Depth (inches): Remarks: ATYDROLOGY Vetland Hydrology Indi Primary Indicators (any or Surface Water (AI) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Surface Soil Crack Inundation Visible Water-Stained Lea Vield Observations: urface Water Present? Vater Table Present? aturation Present? aturation Present? neludes capillary fringe) Vescribe Recorded Data (st	icators: ne indicator is) (A2) (Nonriverine 5 (B2) (Nonriv) (Nonriverin 55 (B6) on Aerial Ima ves (B9) Yes Yes Yes Yes Stream gauge,	sufficient) () (/erine) (e) agery (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B7)		Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebr Hydrogen Sulfide Dxidized Rhizosp Presence of Redu Recent Iron Redu Thin Muck Surfac Other (Explain in Depth (inches): Depth (inches): Depth (inches):	Hydri Hydri ates (B13) e Odor (Cl) oheres along L ced Iron (C4) ction in Plowe ce (C7) Remarks)	c Soil Present? iving Roots (C3) ed Soils (CS) Wetland Hydrold f available:	Yes Secondary W Se Dr Se	No