APPENDIX C: WETLAND DETERMINATION FORMS

ESA Adolfson Appendix C June 2011

Project/Site: DESCHUTES LWI			City/County:	WILD RIVE	R/DESCHUTES	Sampling Date	e: 03-May-10)
Applicant/Owner: DESCHUTES COUN	TY		-		State: OR	Sampling P	oint:	SP 1
Investigator(s): ALISON SIGLER, SAR			Section, To	wnship, R	ange: \$ 23 T 2		-	
Landform (hillslope, terrace, etc.):	Floodplain		Local relief	(concave,	convex, none): concave	Slop		6 / 0.0 °
Subregion (LRR): LRR B		 Lat.: 43			Long.: -121.6076		Datum: NA	
		Lat43	0.7434				Datum. N	10 00
ioil Map Unit Name: Not available			. V	• No (NWI classif			
e climatic/hydrologic conditions on	<i>-</i>	•					- (A) N-	\cap
Are Vegetation, Soil	, or Hydrology	significantly	disturbed?	Are "N	lormal Circumstances" pi	resent? Ye	es 💿 No	0
Are Vegetation, Soil	, or Hydrology	naturally pro			eded, explain any answe			a ata
Summary of Findings - At	<u> </u>	nowing sai	inpling po	iiii ioca	ations, transects,	ппрог сапт	. reature	S, etc.
Hydrophytic Vegetation Present?	Yes ● No ○ Yes ● No ○		Is the	Sampled A	Area			
Hydric Soil Present?		within	a Wetland	d? Yes ● No ○				
Wetland Hydrology Present?	Yes ● No ○							
Remarks:								
ONSITE AT WILD RIVER								
VEGETATION - Use scier	itific names of pla	ints.	DominantSpecies? _					
Tree Stratum (Plot size:	\ \	Absolute % Cover		Indicator Status	Dominance Test works	sheet:		
· · · · · · · · · · · · · · · · · · ·	/			Status	Number of Dominant Spe	cies	2	(4)
1 2.			0.0%		That are OBL, FACW, or I	-AC:	3	(A)
2			0.0%		Total Number of Domina		2	(D)
3 4.			0.0%		Species Across All Strata:		3	(B)
			= Total Cove		Percent of dominant S	pecies	400.00/	
Sapling/Shrub Stratum (Plot size:	:)		= Total Cove	•	That Are OBL, FACW,	or FAC:	100.0%	_ (A/B)
1. Spiraea douglasii		15	100.0%	FACW	Prevalence Index work	sheet:		
2		0	0.0%		Total % Cover o	f: Multip	ly by:	_
3		0	0.0%		OBL speci es	10 x 1 =	10	
4		0	0.0%		FACW species	55 x 2 =	110	_
5		0	0.0%		FAC speciles	40 x 3 =	120	_
		15	= Total Cove	r	FACU speci es	10 x 4 =	40	_
Herb Stratum (Plot size:)				UPL speci es	0 x 5 =	0	_
1 Juncus effusus		35	35.0%	FACU	Column Totals:1	115 (A)	280	(B)
2. Taraxacum officinale3. Veronica americana			10.0%	_FACU OBL	Prevalence Index	– R/Δ –	2.435	
J			✓ 25.0%	FAC			2.400	
E Callinger			5.0%	FACW	Hydrophytic Vegetation Dominance Test is			
6. Agrostis sp.			15.0%	FAC	✓ Prevalence Index			
7			0.0%		Morphological Ad		massida assess	
8			0.0%		data in Remarks of	or on a separat	roviae supp te sheet)	orting
9		0	0.0%		Problematic Hydro	ophytic Vegeta	ation 1 (¹ (p	lain)
10			0.0%				•	
11			0.0%		1 Indicators of hydric	soil and wotla	nd hydrolog	ny muet
 		100	= Total Cove	r	be present, unless dist			jy iliust
Woody Vine Stratum (Plot size:)							
1			0.0%					
2			0.0%		Hydrophytic Vegetation	a		
		0	= Total Cove	r	Present? Yes	No		
% Bare Ground in Herb Stratum	n: 0 %	Cover of Bioti	ic Crust ()					
Remarks:							·	·
Remarks: Salix sp. assumed FACW. Salix sp.	. and Agrostis sp. assu	med FAC.						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth _	Matrix		eeded to document Red	dox Feat				•
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-3	10YR 3/2	100%					Sand	80% SAND WITH 20% SILT
3-6	10YR 3/2	70%					Silt Loam	30% SAND
J.	•		ced Matrix, CS=Covere			nins ² Loca	tion: PL=Pore Lining	j. M=Matrix
_		ole to all LR	Rs, unless otherwis)		Indicators for	Problematic Hydric Soils:3
Histosol (A1)			Sandy Redox				1 cm Muck	(A9) (LRR C)
Histic EpipedBlack Histic			Stripped Matri	` '			2 cm Muck	(A10) (LRR B)
Hydrogen Su			Loamy Mucky				Reduced Ve	rtic (F18)
_ ` `	yers (A5) (LRR C)		Loamy Gleyed		2)			Material (TF2)
1 cm Muck (Depleted Matr				✓ Other (Expla	nin in Remarks)
	low Dark Surface (A1	1)	Redox Dark S					
·	Surface (A12)	• • •	Depleted Dark		F7)			
Sandy Muck	• •		Redox depres				3 Indicators of h	ydrophytic vegetation and
	d Matrix (S4)			F9)			wetland hydr	ology must be present.
	er (if present):							
-	er (ii present):							
	DUCK							
Type: BED							Hydric Soil Prese	ent? Yes No
Depth (inches		ERSISTENT	SATURATION				Hydric Soil Prese	ent? Yes No
Depth (inches Remarks: DILS ARE HYD	s): <u>6</u>	ERSISTENT	SATURATION				Hydric Soil Prese	ent? Yes No
Depth (inches Remarks: OILS ARE HYD	s):_6 DRIC BASED ON PI	ERSISTENT	SATURATION				Hydric Soil Prese	ent? Yes No
Depth (inchest Remarks: OILS ARE HYD	s):_6 PRIC BASED ON PI			ngh A				
Depth (inches Remarks: OILS ARE HYD Lydrology Vetland Hydro Primary Indica	s):_6 PRIC BASED ON PI logy Indicators: tors (minimum of		ed; check all that ap				Secondar	y Indicators (2 or more required)
Depth (inches Remarks: OILS ARE HYD Dydrology Vetland Hydro Primary Indica Surface Wat	oric Based on Place B		rd; check all that ap	311)			Secondar	y Indicators (2 or more required) Marks (B1) (Riverine)
Depth (inches Remarks: OILS ARE HYD Iydrology Vetland Hydro Primary Indica Surface Wat High Water	or ic		ed; check all that ap Salt Crust (E	B11) (B12)	(0.10)		Secondar Water	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine)
Depth (inches Remarks: OILS ARE HYD Iydrology Vetland Hydro Primary Indica Surface Wat High Water Saturation (logy Indicators: tors (minimum of er (A1) Table (A2)		ed; check all that ap Salt Crust (E Biotic Crust	311) (B12) ertebrates			Secondar Water Sedim Drift D	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine)
Depth (inches Remarks: OILS ARE HYD Iydrology Vetland Hydro Primary Indica Surface Wat High Water Saturation (i) Water Marks	logy Indicators: tors (minimum of er (A1) Table (A2) A3) 6 (B1) (Nonriverine)	one require	cd; check all that ap Salt Crust (E Biotic Crust Aquatic Inve	311) (B12) ertebrates ulfide Odo	r (C1)	g Poots (C2)	Secondar Water Sedim Drift D	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10)
Depth (inches Remarks: OILS ARE HYD Iydrology Vetland Hydro Primary Indica Surface Wat High Water Saturation (i) Water Marks Sediment De	logy Indicators: tors (minimum of er (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonrive	one require	cd; check all that ap Salt Crust (E Biotic Crust Aquatic Inve	311) (B12) ertebrates ulfide Odo izospheres	r (C1) s along Livin	g Roots (C3	Secondar Water Sedim Drift D Draina	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2)
Depth (inches Remarks: OILS ARE HYD Dydrology Vetland Hydro Primary Indica Surface Wat High Water Saturation (i) Water Marks Sediment De Drift deposit	logy Indicators: tors (minimum of er (A1) Table (A2) A3) 6 (B1) (Nonriverine) eposits (B2) (Nonrives s (B3) (Noneriverine)	one require	ed; check all that ap Salt Crust (E Biotic Crust Aquatic Inve	311) (B12) ertebrates ulfide Odo izospheres Reduced	r (C1) s along Livin Iron (C4)		Secondar Water Sedim Drift D Draina Dry Se	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2)
Depth (inches Remarks: OILS ARE HYD Iydrology Vetland Hydro Primary Indica Surface Wat High Water Saturation (i) Water Marks Sediment De Drift deposit Surface Soil	logy Indicators: tors (minimum of er (A1) Table (A2) A3) 6 (B1) (Nonriverine) eposits (B2) (Nonrive s (B3) (Noneriverine) Cracks (B6)	one require	ed; check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior	r (C1) s along Living Iron (C4) n in Plowed S		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9)
Depth (inches Remarks: DILS ARE HYD Dydrology Vetland Hydro Primary Indica Surface Wat High Water Saturation (Water Marks Sediment De Drift deposit Surface Soil Inundation (logy Indicators: tors (minimum of er (A1) Table (A2) A3) (B1) (Nonriverine) eposits (B2) (Nonrive s (B3) (Noneriverine) Cracks (B6) //isible on Aerial Imag	one require	Salt Crust (E Salt Crust (E Biotic Crust Aquatic Inve	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reduction Surface (C	r (C1) s along Living Iron (C4) n in Plowed S		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3)
Depth (inches Remarks: OILS ARE HYD Iydrology Vetland Hydro Primary Indica Surface Wat High Water Saturation (Water Marks Sediment De Drift deposit Surface Soil Inundation (Water-Staine	logy Indicators: tors (minimum of er (A1) Table (A2) A3) 6 (B1) (Nonriverine) eposits (B2) (Nonrive s (B3) (Noneriverine) Cracks (B6) /isible on Aerial Imaged Leaves (B9)	one require	ed; check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reduction Surface (C	r (C1) s along Living Iron (C4) n in Plowed S		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9)
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Depth (inches Remarks: OILS ARE HYD Dydrology Vetland Hydro Primary Indica Surface Wat High Water Sediment De Drift deposit Surface Soil Inundation V Water-Staine Field Observation	logy Indicators: tors (minimum of er (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonrive is (B3) (Noneriverine) Cracks (B6) //isible on Aerial Imaged Leaves (B9) ions: esent? Yes	one require	d; check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	(B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (Ci	r (C1) s along Living Iron (C4) n in Plowed \$ 7) parks)		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3)
Depth (inches Remarks: OILS ARE HYD Iydrology Vetland Hydro Primary Indica Surface Water Y Saturation (i) Water Marks Sediment De Drift deposit Surface Soil Inundation (i) Water-Staine Field Observati Surface Water Pres Water Table Pres	logy Indicators: tors (minimum of er (A1) Table (A2) A3) s (B1) (Nonriverine) eposits (B2) (Nonrives (B3) (Noneriverine) Cracks (B6) //isible on Aerial Imaged Leaves (B9) lions: esent? Yes	one require rine)) gery (B7) No (No (d; check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	(B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (Ci	r (C1) s along Living Iron (C4) n in Plowed S	Soils (C6)	Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallor	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) eutral Test (D5)
Depth (inches Remarks: OILS ARE HYD Dydrology Vetland Hydro Primary Indica Surface Wat High Water Sediment De Drift deposit Surface Soil Inundation V Water-Staine Field Observation Surface Water Pr Vater Table Prese Saturation Preser includes capillar	logy Indicators: tors (minimum of er (A1) Table (A2) A3) (B1) (Nonriverine) eposits (B2) (Nonriverine) eposits (B3) (Noneriverine) Cracks (B6) //isible on Aerial Imaged Leaves (B9) lons: esent? yes esent? Yes esent? yes yfringe)	one require rine) pery (B7) No (No (No (ed; check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (Ci ain in Rem whes):	r (C1) s along Living Iron (C4) n in Plowed \$ 7) arks)	Soils (C6)	Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallov FAC-no	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) eutral Test (D5)
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Depth (inches Remarks: OILS ARE HYD Dydrology Vetland Hydro Primary Indica Surface Wat High Water Sediment De Drift deposit Surface Soil Inundation V Water-Staine Field Observation Surface Water Pr Vater Table Prese Saturation Preser includes capillar	logy Indicators: tors (minimum of er (A1) Table (A2) A3) (B1) (Nonriverine) eposits (B2) (Nonriverine) eposits (B3) (Noneriverine) Cracks (B6) //isible on Aerial Imaged Leaves (B9) lons: esent? yes esent? Yes esent? yes yfringe)	one require rine) pery (B7) No (No (No (ed; check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (Ci ain in Rem whes):	r (C1) s along Living Iron (C4) n in Plowed \$ 7) arks)	Soils (C6)	Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallov FAC-no	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) eutral Test (D5)
Depth (inches Remarks: DILS ARE HYD Dydrology Vetland Hydro Primary Indica Surface Wat High Water Marks Sediment De Drift deposit Surface Soil Inundation V Water-Staine Field Observation Gurface Water Presentation Presentat	logy Indicators: tors (minimum of er (A1) Table (A2) A3) (B1) (Nonriverine) eposits (B2) (Nonriverine) eposits (B3) (Noneriverine) Cracks (B6) //isible on Aerial Imaged Leaves (B9) lons: esent? yes esent? Yes esent? yes	one require rine) pery (B7) No (No (No (ed; check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (Ci ain in Rem whes):	r (C1) s along Living Iron (C4) n in Plowed \$ 7) arks)	Soils (C6)	Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallov FAC-no	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) eutral Test (D5)

Project/Site: DESCHUTES LWI	City/County: SUNRIVE	R/DESCHUTES Sampling Date: 21-Jun-10				
Applicant/Owner: DESCHUTES COUNTY		State: OR Sampling Point: SP 01A				
Investigator(s): ALISON SIGLER, SARAH HARTUNG	Section, Township,	Range: S 18 T 21 S R 11 E				
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave	Local relief (concave, convex, none): CONCAVE Slope: 2.0% / 1				
Subregion (LRR): LRR A	Lat.: 43.7543	Long.: -121.4672 Datum: NAD83				
oil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 per		NWI classification: PEMA				
e climatic/hydrologic conditions on the site typical for this		_				
	-	"Normal Circumstances" present? Yes No				
		needed, explain any answers in Remarks.)				
	•	ocations, transects, important features, et				
Hydrophytic Vegetation Present? Yes No						
Hydric Soil Present? Yes No	Is the Sampleo					
	within a Wetla	and? Yes No				
Wetland Hydrology Present? Yes No C						
OFF-SITE DETERMINATION						
on one perenantan						
VEGETATION - Use scientific names of plan	nts. Dominant					
·	Species?Species?Species?	or Dominance Test worksheet:				
Tree Stratum (Plot size:	% Cover Cover Status	Number of Dominant Species				
1,		That are OBL, FACW, or FAC:1(A)				
2		Total Number of Dominant				
3		Species Across All Strata: 1 (B)				
4	0	Percent of dominant Species				
Sapling/Shrub Stratum (Plot size:	0 = Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)				
1,	0	Prevalence Index worksheet:				
2	0	Total % Cover of: Multiply by:				
3	0	OBL speci es x 1 = 2				
4	0	FACW species 98 x 2 = 196				
5	0	- FAC specifies				
Horb Stratum (Blot size:	0 = Total Cover	FACU species $0 \times 4 = 0$				
Herb Stratum (Plot size:	10 T 10 00/ FACW	UPL species $0 \times 5 = 0$				
1 Carex sp.	10	Column Totals: 100 (A) 198 (B)				
2 Juncus balticus 3 Typha latifolia		Prevalence Index = B/A = 1.980				
4.		Hydrophytic Vegetation Indicators:				
5		✓ Dominance Test is > 50%				
6		✓ Prevalence Index is ≤3.0 ¹				
7	0 0.0%	Morphological Adaptations ¹ (Provide supporting				
8.		data in Remarks or on a separate sheet)				
9		─				
10.————————————————————————————————————		Problematic Hydrophytic Vegetation ¹ (Explain)				
11.————————————————————————————————————		¹ Indicators of hydric soil and wetland hydrology must				
Manda Mina Charles (District	100 = Total Cover	be present, unless disturbed or problematic.				
Woody Vine Stratum (Plot size:	0					
1		Hydrophytic				
2.		Hydrophytic Vegetation Present? Yes No				
	0 = Total Cover	Present? Yes Vo V				
% Bare Ground in Herb Stratum: ()						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: SP 01A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth Color (moist) Loc2 Color (moist) % Texture Remarks (inches) Type 1 ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ✓ Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No O **Hydric Soil Present?** Depth (inches): Remarks: Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) High Water Table (A2) 4A, and 4B) ✓ Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) ☐ Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) ✓ Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) U Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: No 💿 Depth (inches): Surface Water Present? Yes O No 💿 Water Table Present? Depth (inches): Yes 💿 No 🔾 Wetland Hydrology Present? Saturation Present? Yes No O Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Aerial photo Remarks:

Project/Site: DESCHUTES LWI		City/County:	Sunriver/De	eschutes	Samplin	g Date: 03	-May-10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Samp	oling Point:	SP 2
Investigator(s): ALISON SIGLER, SARAH HARTUNG		Section, To	wnship, R	ange: \$ 31	T 20 S	R 10 E	
Landform (hillslope, terrace, etc.): Valley bottom		Local relief	(concave,	convex, none): CON	cave	Slope:	0.0% /
Subregion (LRR): LRR B	 Lat.: 43			Long.: -121.5722		 Datı	 um: NAD 83
· · · · · · · · · · · · · · · · · · ·					assification:		
ioil Map Unit Name: 115A: Shanahan loamy coarse sand, 0 e climatic/hydrologic conditions on the site typical for this			● No ('		
	significantly			lormal Circumstance		Yes 💿	No O
					•		110 0
	naturally pro			eded, explain any ar			
Summary of Findings - Attach site map sh	owing sa	mpling po	int loca	ations, transed	ts, impoi	rtant rea	atures, etc
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	Area			
Hydric Soil Present? Yes No		within	a Wetland	d? Yes ● No (\subset		
Wetland Hydrology Present? Yes No							
Remarks:							
VECTATION . He scientific names of plan		Dominant					
VEGETATION - Use scientific names of plan		Species?		<u> </u>			
Tree Stratum (Plot size:	Absolute % Cover		Indicator Status				
1. Salix sp.	20	1 00.0%	FACW	Number of Dominar That are OBL, FACW		2	2 (A)
2	0	0.0%				-	
3		0.0%		Total Number of Do Species Across All S		2	2 (B)
4	0	0.0%					
0.11.40.1.01.1.40.1.4	20	= Total Cove	er	Percent of domination That Are OBL, FA		100	.0% (A/B)
Sapling/Shrub Stratum (Plot size:	0	0.000		-			
1 2.		0.0%		Prevalence Index		Multiply by	
3.		0.0%		Total % Cov		Multiply by x 1 =	85
4.		0.0%		FACW species		^ ' - x 2 =	40
5.	0	0.0%		FAC species		x 3 =	0
	0	= Total Cove	er	FACU species		x 4 =	0
Herb Stratum (Plot size:		_		UPL species		x5 = _	0
1_Carex aquatilis	85	100.0%	OBL	Column Totals:			125 (B)
2,		0.0%				_	
3	_	0.0%		Prevalence Ir			190
4		0.0%		Hydrophytic Veget			
56		0.0%		✓ Dominance T ✓ Prevalence II			
7		0.0%					la aure
8		0.0%		Morphologica data in Rema	ii Adaptatior irks or on a s	is T , rovid eparate she	e supporting eet)
9	0	0.0%		Problematic	Hydrophytic	Vegetation	1 (¹ (plain)
10		0.0%			J . J	•	,
11,		0.0%		1 Indicators of hy	dric soil and	wetland by	vdrology must
Moody Vine Stratum / Diet size:	85	= Total Cove	er	be present, unless	s disturbed o	r problema	tic.
Woody Vine Stratum (Plot size:)	0	0.00/					
1,	0	0.0%		Hydrophytic			
		0.076		Vometetien			
2	^	- Total Cove	r		'AC (●) NIA	. ()	
2	0 Cover of Biot	= Total Cove	er	Present?	'es 💿 No	. ()	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desc	ription: (De	scribe to	the depth ne	eded to document	the indic	cator or cor	nfirm the a	absence of indicators.)	
Depth		Matrix			dox Featu	ıres			
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-3	10YR	3/2	95%	10YR 4/6	5%	C	PL	Loamy Sand	
3-20	10YR	4/1	100%					Loam	
					-				
-	-								
	-	-							
1 Type: C=Co	ncentration. [D=Depletio	n. RM=Reduc	ed Matrix, CS=Cover	ed or Coat	ed Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=N	 Matrix
71		•		Rs, unless otherwis					ematic Hydric Soils: ³
Histosol ((ppou.		Sandy Redox		•		1 cm Muck (A9) (L	•
	ipedon (A2)			Stripped Matri				2 cm Muck (A10)	·
Black His	tic (A3)			Loamy Mucky		-1)		Reduced Vertic (F	•
✓ Hydroger	n Sulfide (A4)			Loamy Gleyed				Red Parent Materi	· ·
Stratified	Layers (A5)	(LRR C)		Depleted Matr		_,			
1 cm Mud	ck (A9) (LRR	D)		Redox Dark S)		U Other (Explain in F	Remarks)
☐ Depleted	Below Dark S	Surface (A1	1)	Depleted Dark	•	•			
Thick Dar	rk Surface (A1	2)		Redox depres		. , ,		_	
Sandy Mu	uck Mineral (S	51)		Vernal Pools (3 Indicators of hydropl	
Sandy Gl	eyed Matrix (54)		verriar roots (. ,,			wetland hydrology	must be present.
Restrictive L	ayer (if pres	sent):							
Type:									
Depth (inc	ches):							Hydric Soil Present?	Yes No
Hydrolog	у								
Wetland Hyd	drology Indi	cators:							
Primary Ind	icators (min	imum of	one required	d; check all that ap	(ylg			Secondary Indi	icators (2 or more required)
Surface V	Water (A1)			Salt Crust (E	311)			Water Marks	(B1) (Riverine)
✓ High Wat	ter Table (A2)			☐ Biotic Crust	(B12)			Sediment De	posits (B2) (Riverine)
✓ Saturatio	n (A3)			Aquatic Inve	ertebrates	(B13)		Drift Deposit	s (B3) Riverine)
Water Ma	arks (B1) (Noi	nriverine)		Hydrogen Si	ulfide Odo	r (C1)		☐ Drainage Pat	terns (B10)
Sediment	t Deposits (B2) (Nonrive	rine)	Oxidized Rh	izospheres	s along Living	g Roots (C3	B) Dry Season \	Nater Table (C2)
Drift depo	osits (B3) (No	neriverine))	Presence of	Reduced	Iron (C4)		Crayfish Burn	rows (C8)
Surface S	Soil Cracks (Be	5)		Recent Iron	Reduction	n in Plowed S	Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
Inundatio	on Visible on A	Aerial Imag	gery (B7)	Thin Muck S	Surface (C7	7)		Shallow Aqui	tard (D3)
Water-Sta	ained Leaves	(B9)		Other (Expla	ain in Rem	arks)		FAC-neutral	Test (D5)
Field Observ	/ations:								
Surface Water	r Present?	Yes	O No 🖲	Depth (inc	hes):				
Water Table F	Present?	Yes	● No C	Depth (inc	hos):	5	-]		
Saturation Pre				-1	. –		Wetla	and Hydrology Present?	Yes No
(includes capi		Yes	● No ○	Depth (inc	hes):	0			
Describe Re	corded Data	(stream	gauge, mor	itor well, aerial ph	otos, pre	evious inspe	ections), it	f available:	
Remarks:						-			

Project/Site: DESCHUTES LWI	City/County: SUNRIVER/	/DESCHUTES Sampling Date: 21-Jun-10
Applicant/Owner: DESCHUTES COUNTY		State: OR Sampling Point: SP 2A
Investigator(s): ALISON SIGLER, SARAH HARTUNG	Section, Township, R	tange: S 18
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave,	convex, none): concave Slope: 0.0% / 0.0
Subregion (LRR): LRR A	Lat.: 43.7543	Long.: -121.4665 Datum: NAD83
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes		NWI classification: PEMA
re climatic/hydrologic conditions on the site typical for this	0 (
Are Vegetation, Soil, or Hydrology		Normal Circumstances" present? Yes No No
Are Vegetation, Soil, or Hydrology		eded, explain any answers in Remarks.)
-	•	
Summary of Findings - Attach site map sh	nowing sampling point loc	ations, transects, important features, et
Hydrophytic Vegetation Present? Yes No	Is the Sampled A	Area
Hydric Soil Present? Yes No	within a Wetland	d? Yes No
Wetland Hydrology Present? Yes No		
Remarks:		
OFF-SITE DETERMINATION		
VEGETATION - Use scientific names of plan	nts Dominant	
VESTIATION - OSC SCIENTING HAMES OF PILI	Species? Absolute Rel.Strat. Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	% Cover Cover Status	Number of Dominant Species
1		That are OBL, FACW, or FAC: (A)
2	0	Total Number of Dominant
3		Species Across All Strata: 2 (B)
4		Percent of dominant Species
Sapling/Shrub Stratum (Plot size:	0 = Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
1,	0 0.0%	Prevalence Index worksheet:
2	0	Total % Cover of: Multiply by:
3	0	0BL speci es
4		FACW species x 2 = 200
5	0	FAC speci es x 3 = 0
Herb Stratum (Plot size:	0 = Total Cover	FACU speciles $0 \times 4 = 0$
1 Carex sp.	20 🗹 20.0% FACW	UPL species $\frac{0}{}$ x 5 = $\frac{0}{}$
2 Juncus balticus	80 2 80.0% FACW	Col umn Total s: (A) (B)
3		Prevalence Index = B/A = 2.000
4	0	Hydrophytic Vegetation Indicators:
5	0 0.0%	✓ Dominance Test is > 50%
6		✓ Prevalence Index is ≤3.0 ¹
7		☐ Morphological Adaptations ¹ (Provide supporting
8		data in Remarks or on a separate sheet)
9		Wetland Non-Vascular Plants ¹ ☐
11		☐ Problematic Hydrophytic Vegetation ¹ (Explain)
	100 = Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:		be present, unless distarbed of presidentatio.
1,		
2	0 0.0%	Hydrophytic Vegetation
	0 = Total Cover	Present? Yes No
% Bare Ground in Herb Stratum: 0	= Total Cover	Present? 165 0 NU 0
	0 = Total Cover	Present? 165 0 NU 0

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: SP 2A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth Loc2 Color (moist) Color (moist) % Texture Remarks (inches) Type 1 ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 2 cm Muck (A10) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ☐ Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) ☐ Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No O **Hydric Soil Present?** Yes Depth (inches): Remarks: SOILS ASSUMED HYDRIC BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) ✓ Saturation (A3) Salt Crust (B11) ■ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) ✓ Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) U Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes O No 💿 Depth (inches): Surface Water Present? Yes \bigcirc No 💿 Water Table Present? Depth (inches): Yes

No Wetland Hydrology Present? Saturation Present? Yes No O Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Aerial photo Remarks:

Project/Site: DESCHUTES LWI	с	City/County: SUNRIVER/DESCHUTES Sampling Date: 21-Jun-10					
Applicant/Owner: DESCHUTES COUNTY		State: OR Sampling Point: SP 3A					
Investigator(s): ALISON SIGLER, SARAH HARTUNG		Section, Township, Range: S 13 T 21 S R 10 E					
Landform (hillslope, terrace, etc.): Shoreline		Local relief	(concave,	convex, none): concave	Slope:	0.0% / 0.0	
Subregion (LRR): LRR A	Lat.: 43.	7550		Long.: -121.4862	Datu	m: NAD83	
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent s	lopes			NWI classif	fication:		
are climatic/hydrologic conditions on the site typical fo	or this time of year?	Yes	● No ((If no, explain in	Remarks.)		
Are Vegetation . , Soil . , or Hydrology	significantly of	listurbed?	Are "N	lormal Circumstances" p	resent? Yes	No 🔾	
Are Vegetation , Soil , or Hydrology	naturally prob	olematic?	(If nee	eded, explain any answe	ers in Remarks.)		
Summary of Findings - Attach site ma	p showing sai	mpling po	oint loc	ations, transects,	, important fea	atures, et	
Hydrophytic Vegetation Present? Yes • No		Is the	Sampled A	Area			
Hydric Soil Present? Yes No			a Wetland	Vac (No (
Wetland Hydrology Present? Yes No)	VVICIIII	a wetiand	•			
VEGETATION - Use scientific names of	plants.	Dominant Species?					
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test works	sheet:		
1		0.0%		Number of Dominant Spe That are OBL, FACW, or	•	(A)	
2,		0.0%					
3	•	0.0%		Total Number of Domina Species Across All Strata:	•	(B)	
4		0.0%		Dorsont of dominant (Encelos		
Sapling/Shrub Stratum (Plot size:		= Total Cove	r	Percent of dominant S That Are OBL, FACW,		0% (A/B)	
1, Salix exigua		100.0%	OBL	Prevalence Index work	ksheet:		
2		0.0%		Total % Cover of			
3 4.		0.0%		· —		70	
4. 5.		0.0%			^	90	
		= Total Cove		The species	^ ^ 3	0	
Herb Stratum (Plot size:		_ 10tui 00V	•	FACU species —— UPL species ——	0 x 4 = 0 x 5 =	0	
1 Carex nebrascensis		52.6%	OBL	•		160 (B)	
2. Juncus nevadensis		31.6%	FACW	Corumn rotars.	(A)		
3 Rumex occidentalis 4 Potentilla sp.			FACW FACW	Prevalence Index		<u>'1</u>	
5		0.0%		Hydrophytic Vegetatio Dominance Test is			
6	_	0.0%		✓ Prevalence Index	_		
7	0	0.0%			aptations 1 (Provide	supporting	
8.		0.0%			or on a separate she		
9.		0.0%		Wetland Non-Vas	cular Plants ¹		
10. 11.		0.0%		Problematic Hydr	ophytic Vegetation ¹	(Explain)	
		= Total Cove	r	¹ Indicators of hydric s be present, unless dis			
Woody Vine Stratum (Plot size:)	0	0.0%					
1, 2.		0.0%		Hydrophytic			
		= Total Cove		Vegetation Present? Yes	● No ○		
% Bare Ground in Herb Stratum: 5				riesent:	- '		
Remarks:							
Potentilla sp. assumed FACW.							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Depth (inches) 0-12 12-14	Ma Color (mois	-						
(inches) 0-12	Color (mois	turi				rm the a	bsence of indicator	s.)
0-12				dox Feature		2	Tand	D- '
			Color (moist)		-	_0C ²	Texture	Remarks
12-14	2.5YR 3	3/1 95%	10YR 4/4			M .	Silt Loam	5% small rocks; dense roots
	2.5YR 3	3/1 90%				M .	Sandy Clay Loam	w/silts and gravel
•		·	uced Matrix, CS=Cove		Sand Grains	²Locat	ion: PL=Pore Lining.	
Histosol (Histic Epi Black His Hydroger	(A1) ipedon (A2)		RRs, unless otherwing Sandy Redox Stripped Mat Loamy Mucky Loamy Gleye Depleted Mai	(S5) rix (S6) Mineral (F1) d Matrix (F2)	(except in M	ILRA 1)	2 cm Muck (A1 Red Parent Ma Other (Explain	terial (TF2)
Thick Dai Sandy Mu Sandy Gl	rk Surface (A12) uck Mineral (S1) leyed Matrix (S4)		Redox Dark S	Surface (F6) k Surface (F7))			ohytic vegetation and y must be present, or problematic.
	Layer (if present	-						
Depth (inc	xtreme saturatio	лі					Hydric Soil Present	? Yes • No O
drolog	l y drology Indicato	ors:						
-			red; check all that a	oply)			Secondary I	ndicators (minimum of two requi
imary Ind	Water (A1)		Water-Stair	ned Leaves (B	(a) (avcant M			
Surface \	iter Table (A2)		., =,,	nd 4B)	(except iv	LRA	Water-Sta 4A, and 4	ained Leaves (B9) (MLRA 1, 2,
Surface \			Salt Crust (•	(except iv	LRA	4A, and 4	ained Leaves (B9) (MLRA 1, 2,
Surface V High Wa Saturatio Water M	on (A3) larks (B1)			B11)		LRA	4A, and 4	ained Leaves (B9) (MLRA 1, 2, B)
Surface V High Wa Saturation Water M Sedimen	on (A3) larks (B1) nt Deposits (B2)		Salt Crust (Aquatic Inv	B11) ertebrates (B ² Sulfide Odor (G	13) C1)		4A, and 4 Drainage Dry Seaso Saturation	pained Leaves (B9) (MLRA 1, 2, B) Patterns (B10) On Water Table (C2) In Visible on Aerial Imagery (C9)
Surface V High Wa Saturatio Water M Sedimen Drift dep	on (A3) larks (B1) nt Deposits (B2) posits (B3)		Salt Crust (Aquatic Inv Hydrogen S Oxidized RI	B11) ertebrates (B' Gulfide Odor (Conizospheres or	13) C1) n Living Root		4A, and 4 Drainage Dry Seaso Saturation Geomorp	pained Leaves (B9) (MLRA 1, 2, B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9) hic Position (D2)
Surface Management Saturation Water M Sedimen Drift dep Algal Ma	on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)		Salt Crust (Aquatic Inv Hydrogen S Oxidized RI Presence o	B11) ertebrates (B' Sulfide Odor (G nizospheres or F Reduced Iron	13) C1) n Living Root n (C4)	s (C3)	4A, and 4 Drainage Dry Seaso Saturation Geomorp Shallow A	pained Leaves (B9) (MLRA 1, 2, B) Patterns (B10) on Water Table (C2) on Visible on Aerial Imagery (C9) hic Position (D2) quitard (D3)
Surface V High Wa Saturatic Water M Sedimen Drift dep Algal Ma Iron Dep	on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)		Salt Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence o	B11) ertebrates (Biguifide Odor (Control of the Indiana Parket Ind	13) C1) n Living Root n (C4) n Tilled Soils	s (C3) (C6)	4A, and 4 Drainage Dry Sease Saturation Geomorp Shallow A FAC-neut	pained Leaves (B9) (MLRA 1, 2, B) Patterns (B10) on Water Table (C2) on Visible on Aerial Imagery (C9) hic Position (D2) equitard (D3) ral Test (D5)
Surface V High Wa Saturatio Water M Sedimen Drift dep Algal Ma Iron Dep Surface S	on (A3) larks (B1) nt Deposits (B2) posits (B3) nt or Crust (B4) posits (B5) Soil Cracks (B6)	al Imagery (B7)	Salt Crust (Aquatic Inv Hydrogen S Oxidized RI Presence o Recent Iror Stunted or	B11) ertebrates (Bi culfide Odor (Conizospheres or FReduced Iron Reduction in Stressed Plan	13) C1) n Living Root n (C4) n Tilled Soils ts (D1) (LRR	s (C3) (C6)	4A, and 4 Drainage Dry Sease Saturation Geomorp Shallow A FAC-neut Raised Ar	pained Leaves (B9) (MLRA 1, 2, B) Patterns (B10) Don Water Table (C2) In Visible on Aerial Imagery (C9) In Position (D2) Inquitard (D3) Inal Test (D5) Int Mounds (D6) (LRR A)
Surface Manufacture Manufacture Mater Mate	on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)		Salt Crust (Aquatic Inv Hydrogen S Oxidized RI Presence o Recent Iror Stunted or	B11) ertebrates (Biguifide Odor (Control of the Indiana Parket Ind	13) C1) n Living Root n (C4) n Tilled Soils ts (D1) (LRR	s (C3) (C6)	4A, and 4 Drainage Dry Sease Saturation Geomorp Shallow A FAC-neut Raised Ar	pained Leaves (B9) (MLRA 1, 2, B) Patterns (B10) on Water Table (C2) on Visible on Aerial Imagery (C9) hic Position (D2) equitard (D3) ral Test (D5)
Surface V High Wa Saturatio Water M Sedimen Drift dep Algal Ma Iron Dep Surface S Inundati Sparsely	on (A3) larks (B1) nt Deposits (B2) posits (B3) nt or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria v Vegetated Conca		Salt Crust (Aquatic Inv Hydrogen S Oxidized RI Presence o Recent Iror Stunted or	B11) ertebrates (Bi culfide Odor (Conizospheres or FReduced Iron Reduction in Stressed Plan	13) C1) n Living Root n (C4) n Tilled Soils ts (D1) (LRR	s (C3) (C6)	4A, and 4 Drainage Dry Sease Saturation Geomorp Shallow A FAC-neut Raised Ar	pained Leaves (B9) (MLRA 1, 2, B) Patterns (B10) Don Water Table (C2) In Visible on Aerial Imagery (C9) In Position (D2) Inquitard (D3) In Test (D5) In Mounds (D6) (LRR A)
Surface Manufacture Manufacture Mater Mate	on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria v Vegetated Conca		Salt Crust (Aquatic Inv Hydrogen S Oxidized RI Presence o Recent Iror Stunted or Other (Exp	B11) ertebrates (B' Gulfide Odor (C nizospheres or Reduced Iron Reduction in Stressed Plan ain in Remark	13) C1) n Living Root n (C4) n Tilled Soils ts (D1) (LRR	s (C3) (C6)	4A, and 4 Drainage Dry Sease Saturation Geomorp Shallow A FAC-neut Raised Ar	pained Leaves (B9) (MLRA 1, 2, B) Patterns (B10) Don Water Table (C2) In Visible on Aerial Imagery (C9) In Position (D2) Inquitard (D3) Inal Test (D5) Int Mounds (D6) (LRR A)
Surface V High Wa Saturatic Water M Sedimen Drift dep Algal Ma Iron Dep Surface S Inundati Sparsely	on (A3) larks (B1) nt Deposits (B2) posits (B3) nt or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria v Vegetated Conca vations:	ve Surface (B8) Yes No	Salt Crust (Aquatic Inv Hydrogen S Oxidized RI Presence o Recent Iror Stunted or Other (Exp	B11) ertebrates (B' sulfide Odor (G' nizospheres or Reduced Iron Reduction in Stressed Plan ain in Remark	13) C1) n Living Root n (C4) n Tilled Soils ts (D1) (LRR (ss)	s (C3) (C6)	4A, and 4 Drainage Dry Sease Saturation Geomorp Shallow A FAC-neut Raised Ar	pained Leaves (B9) (MLRA 1, 2, B) Patterns (B10) On Water Table (C2) In Visible on Aerial Imagery (C9) Inic Position (D2) Inic Position (D3) Inic Test (D5) Inic Mounds (D6) (LRR A) Inic Hummocks (D7)
Surface V High Wa Saturatic Water M Sedimen Drift dep Algal Ma Iron Dep Surface S Inundati Sparsely	on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria v Vegetated Conca vations: er Present? Present?	Yes No	Salt Crust (Aquatic Inv Hydrogen S Oxidized RI Presence o Recent Iror Stunted or Other (Exp Depth (in	B11) ertebrates (B' sulfide Odor (Conizospheres or Reduced Iron Reduction in Stressed Plan ain in Remark ches):	13) C1) n Living Root n (C4) n Tilled Soils ts (D1) (LRR cs)	s (C3) (C6) A)	4A, and 4 Drainage Dry Sease Saturation Geomorp Shallow A FAC-neut Raised Ar	pained Leaves (B9) (MLRA 1, 2, B) Patterns (B10) On Water Table (C2) In Visible on Aerial Imagery (C9) Inic Position (D2) Inquitard (D3) Inal Test (D5) Int Mounds (D6) (LRR A) Inve Hummocks (D7)
Surface V High Wa Saturatic Water M Sedimen Drift dep Algal Ma Iron Dep Surface S Inundati Sparsely eld Observator Table Featuration Precided Saping	on (A3) larks (B1) nt Deposits (B2) posits (B3) nt or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria v Vegetated Conca vations: er Present? Present? esent?	Yes No Yes No Yes No	Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iror Stunted or Other (Exp Depth (in Depth (in	B11) ertebrates (B' sulfide Odor ((nizospheres or Reduced Iron Reduction in Stressed Plan ain in Remark ches): ches):	13) C1) In Living Root In (C4) In Tilled Soils Its (D1) (LRR Its) Its	s (C3) (C6) A) Wetlan	4A, and 4 Drainage Dry Seaso Saturation Geomorp Shallow A FAC-neut Raised Ar Frost Hea	pained Leaves (B9) (MLRA 1, 2, B) Patterns (B10) On Water Table (C2) In Visible on Aerial Imagery (C9) Inic Position (D2) Inquitard (D3) Inal Test (D5) Int Mounds (D6) (LRR A) Inve Hummocks (D7)
Surface V High Wa Saturatic Water M Sedimen Drift dep Algal Ma Iron Dep Surface S Inundati Sparsely eld Observator Table Featuration Precided Saping	on (A3) larks (B1) nt Deposits (B2) posits (B3) nt or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria v Vegetated Conca vations: er Present? Present? esent?	Yes No Yes No Yes No	Salt Crust (Aquatic Inv Hydrogen S Oxidized RI Presence o Recent Iror Stunted or Other (Exp Depth (in	B11) ertebrates (B' sulfide Odor ((nizospheres or Reduced Iron Reduction in Stressed Plan ain in Remark ches): ches):	13) C1) In Living Root In (C4) In Tilled Soils Its (D1) (LRR Its) Its	s (C3) (C6) A) Wetlan	4A, and 4 Drainage Dry Seaso Saturation Geomorp Shallow A FAC-neut Raised Ar Frost Hea	pained Leaves (B9) (MLRA 1, 2, B) Patterns (B10) On Water Table (C2) In Visible on Aerial Imagery (C9) Inic Position (D2) Inquitard (D3) Inal Test (D5) Int Mounds (D6) (LRR A) Inve Hummocks (D7)
Surface Male Male Male Male Male Male Male Mal	on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aeria v Vegetated Conca vations: ar Present? Present? esent? illary fringe) corded Data (str	Yes No Yes No Yes No Yes No Yes Ro	Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iror Stunted or Other (Exp Depth (in Depth (in	B11) ertebrates (B' sulfide Odor (C nizospheres or f Reduced Iron n Reduction in Stressed Plan ain in Remark ches): ches): ches): ches):	13) C1) In Living Root In (C4) In Tilled Soils Its (D1) (LRR Ks) 1 5 0 Dus inspecti	s (C3) (C6) A) Wetlan	4A, and 4 Drainage Dry Seaso Saturation Geomorp Shallow A FAC-neut Raised Ar Frost Hea	pained Leaves (B9) (MLRA 1, 2, B) Patterns (B10) On Water Table (C2) In Visible on Aerial Imagery (C9) Inic Position (D2) Inquitard (D3) Inal Test (D5) Int Mounds (D6) (LRR A) Inve Hummocks (D7)

Project/Site: DESCHUTES LWI			City/County:	Sunriver/De	eschutes	Sampling Date	e: 03-May-10)
Applicant/Owner: DESCHUTES COUN	ITY				State: OR	Sampling P	oint:	SP 4
Investigator(s): ALISON SIGLER, ROS	SEMARY BAKER		Section, To	wnship, R	ange: S 31 T 2	0 S R 10	0 E	
Landform (hillslope, terrace, etc.)	: Valley bottom		Local relief	(concave,	convex, none): concave	Slop	pe: 0.0%	6 / 0.0 °
Subregion (LRR): LRR B		 Lat.: 43			Long.: -121.5856		Datum: NA	AD 83
						fication.	Datam	
oil Map Unit Name: 114C: Shanah				• No	NWI classif			
re climatic/hydrologic conditions or		-					es • No	\bigcirc
Are Vegetation, Soil	, or Hydrology	significantly		Are "N	lormal Circumstances" p	resent?	s o No	
Are Vegetation $\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;$ Soil $\;\;\;\;\;\;\;\;\;\;\;\;\;$ Summary of Findings - Af	, or Hydrology L	naturally pro			eded, explain any answe			e etc
Hydrophytic Vegetation Present?	Yes O No O	lowing sai				importam	Teature	
Hydric Soil Present?		Is the	Sampled A					
Wetland Hydrology Present?		within	a Wetland	_{d?} Yes • No •				
Remarks:	Yes • No O							
Romania.								
VEGETATION - Use scien	ntific names of pla	nts.	Dominant					
	<u>'</u>	Absolute	Species? . Rel.Strat.	Indicator	Dominance Test works	sheet:		
Tree Stratum (Plot size:)	% Cover		Status	Number of Dominant Spe			
1,		0	0.0%		That are OBL, FACW, or	FAC:	2	(A)
2		0	0.0%		Total Number of Domina	nt		
3		0	0.0%		Species Across All Strata:		2	(B)
4			0.0%		Demonstrat demoissant (
Sapling/Shrub Stratum (Plot size	:: [0	= Total Cove	er	Percent of dominant S That Are OBL, FACW,	•	100.0%	_ (A/B)
1		0	0.0%		Prevalence Index work	ksheet:		
2		0	0.0%		Total % Cover o	f: Multip	ly by:	
3		0	0.0%		OBL speci es	70 x 1 =	- 70	-
4			0.0%		FACW species	20 x 2 =	40	-
5		0	0.0%		FAC speciles	8 x 3 =	24	-
Herb Stratum (Plot size:	\ \	0	= Total Cove	er	FACU speci es	2 x 4 =	8	-
4. Canada and a title	,	70	70.0%	ODI	UPL speci es	0 x 5 =	0	-
Carex aquatilis Salix sp.			✓ 70.0% ✓ 20.0%	FACW	Column Totals:	100 (A)	142	(B)
2, Saily sp. 3 Poa sp.			8.0%	FAC	Prevalence Index	= B/A =	1.420	
. F			2.0%	FACU	Hydrophytic Vegetatio			
5			0.0%		✓ Dominance Test i			
6			0.0%		✓ Prevalence Index			
7			0.0%		☐ Morphological Ad		rovide supp	orting
8			0.0%		data in Remarks	or on a separa	te sheet)	orting
9			0.0%		Problematic Hydr	ophytic Vegeta	ation 1 (¹ ເp	lain)
10			0.0%					
11,			0.0%		1 Indicators of hydric	soil and wetla	and hydrolog	ny must
Wanda Vina Oraci (Olace)	· ·	100	= Total Cove	er	be present, unless dis			,, u s.
Woody Vine Stratum (Plot size:)	2						
1			0.0%		Hydrophytic			
2			0.0%		Vegetation	a O		
		0	= Total Cove	er	Present? Yes	No		
% Bare Ground in Herb Stratun	m: () %	Cover of Bioti	ic Crust ()					
Remarks:								
Salix sp. assumed FACW. Poa sp.	assumed FAC.							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desc	ription: (De	scribe to	the depth ne	eded to document	the indi	cator or co	nfirm the a	absence of indicator	s.)
Depth		Matrix			dox Feat	ures			
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-6	10YR	2/2	100%					Sandy Loam	DENSE ROOTS
6-18	10YR	2/2	100%					Sandy Loam	WI TH GRAVEL, SATURATED
	-							-	
1 Type: C=Co	ncentration. [=Depletio	n. RM=Reduce	ed Matrix, CS=Cover	ed or Coa	ted Sand Gra	ains ² Loca	ation: PL=Pore Lining.	M=Matrix
Hydric Soil	Indicators:	(Applicat	ole to all LRR	s, unless otherwis	e noted.)		Indicators for P	roblematic Hydric Soils:3
Histosol				Sandy Redox				1 cm Muck (A	(19) (LRR C)
	ipedon (A2)			Stripped Matri	x (S6)			2 cm Muck (A	110) (LRR B)
Black His				Loamy Mucky	Mineral (I	F1)		Reduced Vert	ic (F18)
	n Sulfide (A4)			Loamy Gleyed	l Matrix (F	2)		Red Parent M	laterial (TF2)
	Layers (A5)			Depleted Matr	ix (F3)			✓ Other (Explai	• •
1 cm Mu	ck (A9) (LRR	D)		Redox Dark S)		Other (Explai	Till Remarks)
Depleted	Below Dark S	Surface (A1	11)	Depleted Dark	•	•			
Thick Da	rk Surface (A1	2)		Redox depres					
Sandy Mi	uck Mineral (S	51)		☐ Vernal Pools (³ Indicators of hy	drophytic vegetation and
Sandy Gl	eyed Matrix (S4)		verrial roots (1 7)			wetland hydro	logy must be present.
Restrictive L	ayer (if pres	sent):							
Type:								Ukadaia Cail Bassasa	nt? Yes • No O
Depth (inc	ches):							Hydric Soil Presei	nt? Yes • No ·
SOILS HYDR	10 11 3/110	in the following							
Hydrolog	У								
Wetland Hyd	drology Indi	cators:							
Primary Ind	icators (min	imum of	one required	; check all that ap	(yla			Secondary	Indicators (2 or more required)
Surface V	Water (A1)			Salt Crust (E	311)			Water N	Marks (B1) (Riverine)
✓ High Wat	ter Table (A2)			☐ Biotic Crust	(B12)			Sedime	nt Deposits (B2) (Riverine)
✓ Saturatio	n (A3)			Aquatic Inve	ertebrates	(B13)			posits (B3) Riverine)
Water Ma	arks (B1) (Noi	nriverine)		Hydrogen S	ulfide Odo	or (C1)			e Patterns (B10)
	t Deposits (B2		rine)			s along Livin	a Roots (C3		son Water Table (C2)
	osits (B3) (No			Presence of	•	-	9 (Burrows (C8)
	Soil Cracks (Be		,			n in Plowed S	Soils (CA)	_	on Visible on Aerial Imagery (C9)
			*om/ (D7)				ouis (Co)		0 3 . ,
	on Visible on A		jery (B7)	Thin Muck S	•	•			Aquitard (D3)
	ained Leaves	(69)		U Other (Expla	am in ken	iai KS)		FAC-net	utral Test (D5)
Field Observ Surface Water		Yes	O No •	Depth (inc	hes).				
Water Table F		Yes				5	 		
Saturation Pre		Yes		-1			Wetla	and Hydrology Prese	ent? Yes • No O
(includes capi	llary fringe)					0	ootless "	F ovellekter	
Describe Re	corded Data	ı (stream	gauge, mon	itor well, aerial ph	otos, pre	evious insp	ections), II	avaliable:	
Remarks:									

Project/Site: DESCHUTES LWI	City/County: SUNRIVER	DESCHUTES Sampling Date: 21-Jun-10
Applicant/Owner: DESCHUTES COUNTY		State: OR Sampling Point: SP 4A
Investigator(s): ALISON SIGLER, SARAH HARTUNG	Section, Township, R	ange: S 14 T 21 S R 10 E
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave,	convex, none): concave Slope: 0.0% / 0.0
Subregion (LRR): LRR A	Lat.: 43.7606	Long.: -121.4890 Datum: NAD83
coil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slope	<u> </u>	NWI classification: PEMA
re climatic/hydrologic conditions on the site typical for thi	0 (
Are Vegetation ☐ , Soil ✓ , or Hydrology ☐		Jormal Circumstances" present? Yes ● No ○
Are Vegetation, Soil, or Hydrology		eded, explain any answers in Remarks.)
	•	eations, transects, important features, et
Hydrophytic Vegetation Present? Yes No		·
Hydric Soil Present? Yes ● No ○	Is the Sampled	Vac (Na (
Wetland Hydrology Present? Yes ● No ○	within a Wetland	d? Tes © NO C
Remarks:		
WETLAND WITH PROBLEM SOILS. FILL MATERIAL WITH GRAZED AND TRAMPLED BY HORSES	HIN WETLAND IN SEVERAL POCKETS	. SOILS COLOR VARIABLE THROUGHOUT IT, HEAVILY
VEGETATION - Use scientific names of pla	nts. Dominant	
Tree Stratum (Plot size:	Species? Absolute Rel.Strat. Indicator % Cover Cover Status	
1.	0 0.0%	Number of Dominant Species That are OBL, FACW, or FAC:2 (A)
2,		
3	0 0.0%	Total Number of Dominant Species Across All Strata: 2 (B)
4	0	
Sapling/Shrub Stratum (Plot size:	0 = Total Cover	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
1,	0	Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3		0BL species0 x 1 =0
4		FACW species $70 \times 2 = 140$
5	0	FAC species $30 \times 3 = 90$
Herb Stratum (Plot size:	= Total Cover	FACU species 0 x 4 = 0
1. Potentilla sp.	10	UPL species x 5 =
2. Poa sp.	25 2 5.0% FAC	Col umn Total s: (A) (B)
3 Trifolium repens	5 <u>5.0%</u> FAC	Prevalence Index = B/A = 2.300
4. Carex sp.	60	Hydrophytic Vegetation Indicators:
5		✓ Dominance Test is > 50%
6		✓ Prevalence Index is ≤3.0 ¹
7	0 0000	Morphological Adaptations ¹ (Provide supporting
9		data in Remarks or on a separate sheet)
10		Wetland Non-Vascular Plants ¹
11.		☐ Problematic Hydrophytic Vegetation ¹ (Explain)
	100 = Total Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:		so prosent, unioss disturbed of problematic.
1,		
2		Hydrophytic
	0 = Total Cover	Vegetation Present? Yes ● No ○
% Bare Ground in Herb Stratum: 0		
% Bare Ground in Herb Stratum: 0 Remarks:]

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil										Sampling Point: 4A
Profile Descr	ription: (Des	scribe to	the depth ne	eded to do	cument	the indi	cator or c	onfirm the	absence of indicator	rs.)
Depth		Matrix			Redo	x Featu	res		_	
(inches)	Color (r	noist)		Color (mo	ist)	%	Type ¹	Loc2	Texture	Remarks
0-7	10YR	2/1	100%						Sandy silt loam	DENSE ROOTS, VERY MOIS
7-16	10YR	5/2	95%	10YR	4/6	5%	C	PL_	Sand	
Type: C=Con		•						rains ² Loc	ation: PL=Pore Lining.	M=Matrix oblematic Hydric Soils:3
Black Hist	pedon (A2)	Surface (A	11)	Strippe Loamy	-	(S6) Mineral (F Matrix (F2		in MLRA 1)	2 cm Muck (A Red Parent M Other (Explain	aterial (TF2)
Thick Dar Sandy Mu Sandy Gle	k Surface (A1 uck Mineral (S eyed Matrix (S	12) 51) 54)		Deplet		face (F6) Surface (ons (F8)				ophytic vegetation and gy must be present, or problematic.
Restrictive L Type:	ayer (II pres	sent):								
Depth (inc	has).								Hydric Soil Presen	t? Yes No
L										
Hydrology Wetland Hyd	-	ootors.								
Primary Indi	33		one required	l· chack all t	that ann	dv)			Secondary	Indicators (minimum of two re
Surface V	Water (A1) ter Table (A2)		one requirec	☐ Wate		d Leaves	(B9) (exce	pt MLRA		tained Leaves (B9) (MLRA 1, 2,
✓ Saturatio	, ,	•			Crust (B1				☐ Drainage	Patterns (B10)
Water Ma	arks (B1)			Aqua	atic Inver	tebrates	(B13)		☐ Dry Seas	son Water Table (C2)
	t Deposits (B2	2)		′	5	fide Odo	` '		Saturation	on Visible on Aerial Imagery (C9)
☐ Drift dep						•	•	Roots (C3)		phic Position (D2)
	t or Crust (B4)				Reduced I				Aquitard (D3)
	osits (B5)	()					in Tilled S	. ,		tral Test (D5)
\equiv	Soil Cracks (Bo on Visible on A	•	gory (D7)				ants (D1)	(LRR A)		int Mounds (D6) (LRR A)
$\overline{}$	Vegetated Co		5 , , ,	□ Otne	er (Explaii	n in Rema	arks)		□ Frost He	ave Hummocks (D7)
Field Observ	ations:							_		
Surface Water	Present?	Yes			pth (inch	es):		_		
Water Table P	resent?	Yes	O No	De	pth (inch	es):	15			nt? Yes • No •
Saturation Pre (includes capil Describe Rec	llary fringe)	Yes			pth (inch		11		and Hydrology Prese	nt? Yes S NO C
- Joseph Rec	Jaca Data	Strouin	gaage, mon	won, ac	ar prio	.55, pic			. avanabio.	
Remarks:										
comunts.										

Applicant/Owners DESCHUTES COUNTY Supplied Point SP Supplied Sp Supplied Sp Supplied Sp Sp Sp Sp Sp Sp Sp S	roject/Site: DESCHUTES LWI		City/County:	Sunriver/De	escnutes	Sampli	ng Date: _0	3-May-10	
Local relief (concave, convex, none):	pplicant/Owner: DESCHUTES COUNTY				State: OR	Sam	pling Poin	t:\$	SP 5
Late: 43,8312	nvestigator(s): ALISON SIGLER, ROSEMARY BAKER		Section, To	wnship, R	ange: S 24	T 20 S	R 10 E		
Second	Landform (hillslope, terrace, etc.): Floodplain		Local relief	(concave,	convex, none): CONC	ave	Slope:	0.0%	6 / 0.0
Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc. Hydrology Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc. Hydrology Prevalence Index worksheet: Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc. Hydrology Present? Yes	ubregion (I RR): I RR R	 Lat.: 43				-	Da	ıtum: NA	– ——— .D 83
Command	• • •		.0312		-	ecification			
Percentage Process P				· O No			-		
re Vegetation		-			,		(• No	\bigcirc
Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?						-		- 110	0
Sappling/Shrub Stratum Plot size:								atura	c oto
Second Present? Yes No No Wetland Hydrology Present? Yes No No Within a Wetland? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No Wetland? Yes No No No No No No No N	<u> </u>	lowing sai	inpling po	JIIIL IOCA	ations, transec	is, impu	n tarit re	atures	3, 616.
### Wes ● No ○ within a Wetland? Yes ● No ○ within a Wetland hydrology must be present. where within a Wetland hydrology must be present. where within a Wetland? Yes ● No ○ within a Wetland hydrology must be present. where within a Wetland hydrology must be within a Wetland hydrology must be present. where within a Wetland hydrology must be within a Wetland hydrology must be present. where within a Wetland hydrology must be within a Wetland hydrology must be within a Wetland hydrology must be within a Wetland hydrology wast be wit			Is the	Sampled A	Area				
Absolute Species Statum (Plot size:) Absolute Statum Species Statum Statum Species Statum Spec			within	a Wetland	_{i?} Yes 💿 No 🤇				
Absolute Absolute Species? Species? Absolute Species? Species.									
Species Species Species Species Species Species Species Species Species Statum Chlor size Species Sp	Remarks:								
Species Species Species Species Species Species Species Species Species Statum Chlor size Species Sp									
Species Status	VECETATION Lise scientific names of pla	ntc	Dominant						
Number of Dominant Species Number of Dominant Species That are OBL, FACW, or FAC: 2	PEGETATION - Ose scientific flames of pla		Species?		·				
1.	Tree Stratum (Plot size:								
2	1.	0	0.0%					2	(A)
3.			0.0%						
4. 0 0 0.0% Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 1. 0 0 0.0% Prevalence Index worksheet: 2. 0 0.0% OBL species 50 x 1 = 50 Prevalence Index worksheet: 5. 0 0.0% FACW species 0 x 2 = 0 FACW species 0 x 4 = 0 ORA Species 0 x 4 = 0 ORA Species 0 ORA			0.0%					2	(B)
That Are OBL, FACW, or FAC: 100.0% (A/B) 1.	4	0	0.0%						
1.	Sanling/Shruh Stratum (Dlot size)	0	= Total Cove	er			:10	0.0%	(A/B)
2.	,	Λ	0.0%						
3.							Multiply h	w.	
4.	2								_
5.					-				
Nerb Stratum (Plot size:)	5.	0	0.0%		•	25			
Normal		0	= Total Cove	er	•	0		0	
1. Carex aquatilis 2. Equisetum arvense 2.						0		0	
25	<u> </u>				-	75	(A)	125	(B)
4.	<u> </u>			FAC					. •
5								.001	
6									
7			0.0%						
8. O 0.0% data in Remarks or on a separate sheet) 9. O 0.0% Problematic Hydrophytic Vegetation 1 (1 splain) 10. O 0.0% 11. O 0.0% 75 = Total Cover Woody Vine Stratum (Plot size:) 1. O 0.0% 2. O 0.0% 0 0.0% Hydrophytic Vegetation 1 (1 splain) Hydrophytic vegetation 1 (1 splain) Hydrophytic Vegetation Present? Yes No No			0.0%					ide sunn	ortina
10	8	0			data in Remai	ks or on a	separate s	heet)	wig
11. O O.0% 75 = Total Cover Woody Vine Stratum (Plot size:) 1. O O.0% 2. O O.0% O O.0% O O.0% Thydrophytic Vegetation Present? Yes No O					Problematic F	lydrophytic	Vegetatio	n 1 (¹ ւթl	lain)
Woody Vine Stratum (Plot size:) 1									
Woody Vine Stratum (Plot size:) 1.	11,			 er	1 Indicators of hyd	dric soil and	d wetland	hydrolog	y must
1. 0 0.0% Hydrophytic 2. 0 0.0% Vegetation Present? Yes ● No ○	Woody Vine Stratum (Plot size:		. 5.0. 000		be present, unless	disturbed	or problem	atic.	
2		0	0.0%						
= Total Cover	2								
			= Total Cove	er		es 💿 N	0 🔾		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desc	ription: (De:	scribe to	the depth n	eeded to do	cument t	the indic	ator or co	nfirm the a	absence of indicators.)	
Depth		Matrix				ox Featu				
(inches)	Color (ı	moist)		Color (m	oist)	%	Type 1	Loc2	Texture	Remarks
0-3	10YR	2/2	100%						Loam	DENSE ROOTS
3-20	10YR	4/2	85%	7.5YR	4/6	15%	С	M	Silty Clay Loam	
	-									
	-									
										<u> </u>
1 Type: C=Co	ncentration. [=Depletio	n. RM=Reduc	ed Matrix, C	S=Covere	d or Coat	ed Sand Gra	ains ² Loca	ation: PL=Pore Lining. M	=Matrix
Hydric Soil	Indicators:	(Applicat	ole to all LR	Rs, unless o	otherwise	noted.)			Indicators for Pro	blematic Hydric Soils: ³
Histosol (y Redox (S				1 cm Muck (A9)	•
	pedon (A2)				ped Matrix				2 cm Muck (A10	, ,
Black His	tic (A3)				ny Mucky N		1)		Reduced Vertic	• • •
Hydroger	n Sulfide (A4)				ny Gleyed I	•	•		Red Parent Mate	
Stratified	Layers (A5) ((LRR C)			eted Matrix		•		Other (Explain in	• •
l	ck (A9) (LRR I	•			x Dark Su)		Other (Explain ii	i Kenaray
	Below Dark S	•	1)	Deple	eted Dark	Surface (F7)			
Thick Dai	rk Surface (A1	2)		_	x depressi		,		2	
	uck Mineral (S				al Pools (F					ophytic vegetation and ly must be present.
Sandy Gl	eyed Matrix (S	54)							wetiand hydrolog	y must be present.
Restrictive L	ayer (if pres	sent):								
Type:										
Depth (inc	ches):								Hydric Soil Present?	Yes No O
Hydrolog	у									
Wetland Hyd	drology Indi	cators:								
Primary Ind	icators (min	imum of	one require	d; check all	I that app	oly)			Secondary Ir	ndicators (2 or more required)
Surface V	Water (A1)			Sal	t Crust (B1	11)			Water Mar	ks (B1) (Riverine)
✓ High Wat	er Table (A2)			Bio	tic Crust (I	B12)			Sediment	Deposits (B2) (Riverine)
✓ Saturatio	n (A3)			Aqı	uatic Inver	tebrates	(B13)		Drift Depo	sits (B3) Riverine)
Water Ma	arks (B1) (Nor	nriverine)		□ Нус	drogen Sul	lfide Odor	r (C1)		☐ Drainage F	Patterns (B10)
Sediment	t Deposits (B2) (Nonrive	rine)	Oxi	idized Rhiz	ospheres	along Livin	g Roots (C3	3) Dry Seaso	n Water Table (C2)
Drift depo	osits (B3) (No	neriverine))	Pre	sence of F	Reduced I	ron (C4)		Crayfish B	urrows (C8)
Surface S	Soil Cracks (Bé	5)		Red	cent Iron F	Reduction	in Plowed S	Soils (C6)	Saturation	Visible on Aerial Imagery (C9)
Inundation	on Visible on A	Aerial Imag	jery (B7)	Thi	n Muck Su	ırface (C7	')		Shallow Ad	quitard (D3)
☐ Water-Sta	ained Leaves	(B9)		U Oth	ner (Explai	n in Rem	arks)		FAC-neutr	al Test (D5)
Field Observ	ations:									
Surface Water	r Present?	Yes	O No 🖲) D	epth (inch	nes):				
Water Table F	Present?	Yes	No C)	epth (inch	nes).	12	1		
Saturation Pre					•			Wetla	and Hydrology Present	.? Yes ● No ○
(includes capi	llary fringe)	Yes			epth (inch	- 1	0			
Describe Re	corded Data	(stream	gauge, moi	nitor well, a	erial pho	otos, pre	vious insp	ections), if	f available:	
Remarks:					_		_			

Project/Site: DESCHUTES LWI			City/County:	SUNRIVER/	DESCHUTES S	ampling Date: 21-J	un-10
Applicant/Owner: DESCHUTES COUNTY	Y				State: OR	Sampling Point:	SP 5A
Investigator(s):_ALISON SIGLER, SARA	H HARTUNG		Section, To	wnship, R	ange: S 14 T 21	S R 10 E	
Landform (hillslope, terrace, etc.):	Valley bottom		Local relief	(concave,	convex, none): concave	Slope:	0.0% / 0.0 °
Subregion (LRR): LRR A		Lat.: 43			Long.: -121.4962	Datur	m: NAD83
Soil Map Unit Name: 144A: Sunriver s	candy loam 0 to 2		7.7020		NWI classific		
Are climatic/hydrologic conditions on			2 Yes	• No (
	, or Hydrology	significantly			lormal Circumstances" pre		No O
	. , ,	_			•		140 =
Are Vegetation	, or Hydrology L				eded, explain any answers		itures et
	Yes • No		ппрппу р		ations, transcots,	important red	
Hydrophytic Vegetation Present?	Yes O No O		Is the	Sampled A			
Hydric Soil Present?	Yes O No •		within	a Wetland	_{d?} Yes \bigcirc No $lacktrian$		
Wetland Hydrology Present?	res Uno G						
Remarks:							
On-site determination.							
VEGETATION - Use scient	ific names of r	alants	Dominant				
VEGETATION - OSE SCIENT	inc names of p		Species?		12		
Tree Stratum (Plot size:)	Absolute % Cover		Indicator Status	Dominance Test worksh		
4.8:		5	1 00.0%	FAC	Number of Dominant Spec That are OBL, FACW, or FA	•	(A)
2		0	0.0%		T. I.N. I. (D.)		
3		_	0.0%		Total Number of Dominant Species Across All Strata:	t 2	(B)
4			0.0%				
Sapling/Shrub Stratum (Plot size:)	5	= Total Cove	er	Percent of dominant Sp That Are OBL, FACW, o)% (A/B)
1			0.0%		Prevalence Index works	sheet:	
2			0.0%		Total % Cover of:	Multiply by:	
3			0.0%		OBL species	x 1 =	0
4			0.0%		FACW specifes7		140
5			0.0%		FAC specifies2	~ 5	81
Herb Stratum (Plot size:)	0	= Total Cove	er	FACU specifes2		8
1 Juncus sp.	,	70	✓ 74.5%	FACW	UPL speciles — C	x 5 =	0
2 Epilobium sp.		5	5.3%	FAC	Column Totals:9	9 (A)	229 (B)
3 Iris douglasiana		5	5.3%	FAC	Prevalence Index =	B/A = 2.31	3_
4. Poa palustris		10	10.6%	FAC	Hydrophytic Vegetation	Indicators:	
5. Trifolium sp.			2.1%	FAC	✓ Dominance Test is	> 50%	
6. Sidalcea sp.			2.1%	FACU	✓ Prevalence Index i	s ≤3.0 ¹	
7		_	0.0%		Morphological Ada		
8			0.0%		data in Remarks or	on a separate shee	et)
9. 10.			0.0%		Wetland Non-Vasco		
11.			0.0%		☐ Problematic Hydro	phytic Vegetation ¹	(Explain)
11.		94	= Total Cove	er	¹ Indicators of hydric so		
Woody Vine Stratum (Plot size:)	-			be present, unless distu	irbed or problemat	IC.
1.		0	0.0%				
2.		0	0.0%		Hydrophytic		
		0	= Total Cove	er	Vegetation Present? Yes •	No 🔾	
% Bare Ground in Herb Stratum:	6						
Remarks:					1		
Trilfolium sp. assumed FAC. Sidalce	ea sp. assumed FA	.CU.					
,	•						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil	Sampling Point: 5A
Profile Description: (Describe to the depth needed to document the indicator or confirm the ab	sence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²	Texture Remarks
	Silt Loam
11-18 10YR 3/1 100% S	Silty Clay
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Locatio	on: PL=Pore Lining. M=Matrix
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:3
Histosol (A1) Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2) Stripped Matrix (S6)	Red Parent Material (TF2)
☐ Black Histic (A3) ☐ Loamy Mucky Mineral (F1) (except in MLRA 1) ☐ Hydrogen Sulfide (A4) ☐ Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Matrix (F3)	
Thick Dark Surface (A12) Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Muck Mineral (S1) Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4) Redox depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):	
Type:	Hydric Soil Present? Yes ○ No ●
Depth (inches): Remarks:	194110 CONT 1 COCK. 163 C 140 C
Livedno lo ma	
Hydrology Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2) 1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3) Salt Crust (B11)	☐ Drainage Patterns (B10)
Water Marks (B1) Aquatic Invertebrates (B13)	☐ Dry Season Water Table (C2)
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
☐ Drift deposits (B3) ☐ Oxidized Rhizospheres on Living Roots (C3)	Geomorphic Position (D2)
☐ Algal Mat or Crust (B4) ☐ Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
☐ Iron Deposits (B5) ☐ Recent Iron Reduction in Tilled Soils (C6)	FAC-neutral Test (D5)
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) ☐ Sparsely Vegetated Concave Surface (B8)	Frost Heave Hummocks (D7)
Sparsery vegetated concave surface (Bo)	
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	i Hydrology Present? Yes ○ No ●
Saturation Present? Yes No Depth (inches): Wetland	d Hydrology Present? Yes UNO
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if av	vailable:
, J J	
Remarks:	

Lat.: 43 time of year? significantly on the standard properties of the stan	Local relief .8323 Yes disturbed? blematic?	No Are "N	lormal Circumstances" present? Yes No No eded, explain any answers in Remarks.)
time of year? significantly naturally pro	Local relief .8323 Yes disturbed? blematic?	No Are "N	Convex, none): CONCAVE Long.: -121.4704 NWI classification: PEMC (If no, explain in Remarks.) Iormal Circumstances" present? Yes No No
time of year? significantly naturally pro	Yes disturbed?	No No Are "N	Long.: -121.4704 NWI classification: PEMC (If no, explain in Remarks.) Jormal Circumstances" present? Yes No No
time of year? significantly naturally pro	Yes disturbed?	No No Are "N	Long.: -121.4704 NWI classification: PEMC (If no, explain in Remarks.) Jormal Circumstances" present? Yes No No
time of year? significantly naturally pro	Yes disturbed? blematic?	Are "N	NWI classification: PEMC (If no, explain in Remarks.) lormal Circumstances" present? Yes No eded, explain any answers in Remarks.)
significantly naturally pro	disturbed?	Are "N	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)
significantly naturally pro	disturbed?	Are "N	lormal Circumstances" present? Yes No No eded, explain any answers in Remarks.)
naturally pro	blematic?	(If nee	eded, explain any answers in Remarks.)
•			
ownig sui	npinig po		ations, transects, important features, etc
		1566	Thoris, transcets, important reatures, etc
	Is the	Sampled A	
	within	a Wetland	_{d?} Yes ● No ○
ıtç	Dominant		
	_Species?	1	Bouring and Took words book
% Cover	Cover	Status	
0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC:1 (A)
0	0.0%		
_	0.0%		Total Number of Dominant Species Across All Strata: 1 (B)
0	0.0%		
0	= Total Cove	er	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
0	0.0%		Prevalence Index worksheet:
0	0.0%		Total % Cover of: Multiply by:
0	0.0%		0BL speci es x 1 =
0	0.0%		FACW species2 x 2 =4
0	0.0%		FAC speciles5 x 3 =15
0	= Total Cove	er	FACU species $0 \times 4 = 0$
70	00.000	ODI	UPL species x 5 =
			Column Totals: (A) (B)
			Prevalence Index = B/A = 1.156
	0.0%		Hydrophytic Vegetation Indicators:
	0.0%		✓ Dominance Test is > 50%
	0.0%		✓ Prevalence Index is ≤3.0 ¹
	0.0%		☐ Morphological Adaptations 1 ¹ 'rovide supporting
	0.0%		data in Remarks or on a separate sheet)
	0.0%		Problematic Hydrophytic Vegetation 1 (1 splain)
			1 Indicators of hydric soil and wetland hydrology must
	- Total Cove	•	be present, unless disturbed or problematic.
0	0.0%		
			Hydrophytic
			Vegetation Present? Yes No
		-	riesellt: 103 C 110 C
POACI OI BIOLI	c crust ()		
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Absolute % Cover 0	Absolute % Cover Species? Rel.Strat. Cover Indicator Status 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% FAC 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0 0.0% 0.0% 0

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desc	ription: (De:	scribe to	the depth n	eeded to	document	the indic	ator or co	nfirm the a	absence of indicator	s.)
Depth		Matrix				lox Featu				
(inches)	Color (i	moist)		Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-2	10YR	2/2	100%						Silt Loam	
2-20	10YR	3/2	82%	10YR	4/6	10%	C	M	Silt Loam	2 types of redox
				10YR	5/6	2%	С	М		
	-					-			-	
	-				-	-				
										
										<u> </u>
1 Type: C=Co		•						ains ² Loca	ation: PL=Pore Lining.	M=Matrix
I —	Indicators:	(Applicat	ole to all LR						Indicators for P	roblematic Hydric Soils: ³
Histosol					ndy Redox (1 cm Muck (A	(A9) (LRR C)
Black His	ipedon (A2)				ipped Matrix				2 cm Muck (A	110) (LRR B)
	n Sulfide (A4)				amy Mucky				Reduced Vert	ic (F18)
	Layers (A5) (TRR C)			amy Gleyed		2)		Red Parent M	aterial (TF2)
_	ck (A9) (LRR I				pleted Matri				Other (Explain	n in Remarks)
	Below Dark S		11)		dox Dark Su					
	rk Surface (A1		,		pleted Dark		F7)			
_	uck Mineral (S	•			dox depress				3 Indicators of hy	drophytic vegetation and
	eyed Matrix (S			∟ ver	nal Pools (F	-9)			wetland hydro	logy must be present.
Restrictive L										
Type:	., .	,								
Depth (inc	ches):								Hydric Soil Preser	nt? Yes • No O
Remarks:										
Hydrolog	у									
Wetland Hyd	drology Indi	cators:								
Primary Ind	icators (min	imum of	one require	d; check a	all that ap	(ylq			Secondary	Indicators (2 or more required)
Surface V	Water (A1)				alt Crust (B	11)			Water N	Marks (B1) (Riverine)
☐ High Wat	ter Table (A2)			□ B	iotic Crust ((B12)			Sedime	nt Deposits (B2) (Riverine)
✓ Saturatio	n (A3)			A	quatic Inve	rtebrates	(B13)		Drift De	posits (B3) Riverine)
☐ Water Ma	arks (B1) (Nor	nriverine)		F	lydrogen Su	ılfide Odor	r (C1)		Drainag	e Patterns (B10)
Sediment	t Deposits (B2) (Nonrive	rine)		xidized Rhi	zospheres	along Livin	g Roots (C3	B) Dry Sea	son Water Table (C2)
Drift dep	osits (B3) (No	neriverine))	P	resence of	Reduced I	ron (C4)		Crayfish	Burrows (C8)
Surface S	Soil Cracks (Bé	5)		∐ R	ecent Iron	Reduction	in Plowed S	Soils (C6)	Saturati	on Visible on Aerial Imagery (C9)
Inundatio	on Visible on A	Aerial Imag	gery (B7)	∐ т	hin Muck S	urface (C7	')		Shallow	Aquitard (D3)
☐ Water-St	ained Leaves	(B9)			ther (Expla	in in Rem	arks)		FAC-net	utral Test (D5)
Field Observ	ations:							_		
Surface Water	r Present?	Yes	O No @)	Depth (incl	nes):				
Water Table F	Present?	Yes	O No @)	Depth (incl	nes):				
Saturation Pre	esent?	Yes				. –	4	Wetla	and Hydrology Prese	ent? Yes No
(includes capi	llary fringe)				Depth (incl	-				
Describe Re	corded Data	(stream	gauge, moi	nitor well,	aerial pho	otos, pre	vious insp	ections), i	f available:	
Remarks:										
1										

Project/Site: DESCHUTES LWI			City/County:	SUNRIVER/	DESCHUTES Samplin	g Date: 21-Jun-10	
Applicant/Owner: DESCHUTES COUNT	ΤΥ				State: OR Samp	ling Point: S	P 6A
Investigator(s): ALISON SIGLER, SAR.	AH HARTUNG		Section, To	wnship, R	ange: S 14 T 21 S	R 10 E	
Landform (hillslope, terrace, etc.):	Lowland		Local relief	(concave,	convex, none): flat	Slope: 2.0%	5 / 1.1 °
Subregion (LRR): LRR A		 Lat.: 43	7485		Long.: -121.4932	Datum: NAI	D83
Soil Map Unit Name: 29A: Cryaquolls	o O to 2 percent		.,, 100		NWI classification:		
Are climatic/hydrologic conditions on			2 Yes	. ● No ○			
Are Vegetation, Soil	, or Hydrology	significantly			lormal Circumstances" present?	Yes No	\circ
					•		
Are Vegetation . , Soil	, or Hydrology				eded, explain any answers in Re		s ot
Summary of Findings - At Hydrophytic Vegetation Present?	Yes No		mping p	oint ioc	ations, transects, impo		:s, et
Hydric Soil Present?	Yes • No		Is the	Sampled A			
	Yes • No		within	a Wetland	_{d?} Yes • No •		
Wetland Hydrology Present?	163 🔾 110						
Remarks:							
VEGETATION - Use scien	ntific names o	f plants.	Dominant				
		Absolute	Species? Rel.Strat.	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:)	% Cover		Status	Number of Dominant Species		
1			0.0%		That are OBL, FACW, or FAC:	3	(A)
2			0.0%		Total Number of Dominant		
3			0.0%		Species Across All Strata:	3	(B)
4			0.0%		Dercent of dominant Species		
Sapling/Shrub Stratum (Plot size:			= Total Cove	er	Percent of dominant Species That Are OBL, FACW, or FAC:	100.0%	(A/B)
1. Salix exigua			100.0%	OBL	Prevalence Index worksheet:		
2			0.0%		Total % Cover of:	Multiply by:	_
3			0.0%		OBL species 70	1 =70	
4			0.0%			2 = <u>170</u>	
5			0.0%			3 = 0	
Herb Stratum (Plot size:)		= Total Cove	er	•	4 = 0	
1 Juncus balticus	,	50	✓ 58.8%	FACW	•	5 = <u>0</u>	
2. Carex sp.		30	₹ 35.3%	FACW	Column Totals: 155	(A) <u>240</u>	(B)
3 Rumex occidentalis		5	5.9%	FACW	Prevalence Index = B/A =	1.548	
4			0.0%		Hydrophytic Vegetation Indica	tors:	
5			0.0%		✓ Dominance Test is > 50%	,	
6			0.0%		✓ Prevalence Index is ≤3.0	ĺ	
7			0.0%		Morphological Adaptation		rting
8			0.0%		data in Remarks or on a s	eparate sheet)	
9. 10.			0.0%		Wetland Non-Vascular Pla		
11.			0.0%		Problematic Hydrophytic	Vegetation¹ (Expla	ain)
11,		85	= Total Cove	er	¹ Indicators of hydric soil and v		must
Woody Vine Stratum (Plot size:)				be present, unless disturbed o	r problematic.	
1,		0	0.0%				
2.			0.0%		Hydrophytic		
		0	= Total Cove	er	Vegetation Present? Yes • No	\bigcirc	
% Bare Ground in Herb Stratum	ı: 15						
Remarks:					1		
Carex sp. assumed to be FACW.							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Orfile Description: (Describe to the depth needed to document the Depth (Inches) Matrix Redox For Redox		firm the	absence of indicat	ors.)
Cinches) Color (moist) % Color (moist) 9 0-2 10YR 2/1 100% 2-20 10YR 3/1 20%				
0-2 10YR 2/1 100% 2-20 10YR 3/1 20%	6 Type	1 2	- T	Damanta
2-20 10YR 3/1 20%		Loc ²	Texture muck	Remarks
			-	mixed matrix, 2 layers
10YR 3/2 80%			peat	
			peat	mixed matrix
rpe: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or (Coated Sand Grain	ns ² Loc	ation: PL=Pore Linin	g. M=Matrix
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise not	ted.)			Problematic Hydric Soils:3
Histosol (A1) ☐ Sandy Redox (S5) Histic Epipedon (A2) ☐ Stripped Matrix (S6)	1		2 cm Muck	•
Black Histic (A3) Loamy Mucky Miner	al (F1) (except in	MLRA 1)		Material (TF2) ain in Remarks)
Hydrogen Sulfide (A4) Loamy Gleyed Matri				
Depleted Below Dark Surface (A11) Depleted Matrix (F3 Redox Dark Surface	•		2	
Thick Dark Surface (A12) Redox Dark Surface Redox Dark Surface Depleted Dark Surface				lrophytic vegetation and logy must be present,
Sandy Gleyed Matrix (S4) Redox depressions				ed or problematic.
strictive Layer (if present):				
Type:				
Depth (inches):			Hydric Soil Prese	ent? Yes • No 🔾
drology				
drology				
etland Hydrology Indicators:			Secondar	y Indicators (minimum of two requ
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply)	aves (B9) (except l	MLRA		y Indicators (minimum of two requ
etland Hydrology Indicators:	aves (B9) (except l	MLRA		Stained Leaves (B9) (MLRA 1, 2,
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Lea	aves (B9) (except l	MLRA	Water- 4A, an	Stained Leaves (B9) (MLRA 1, 2,
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Water-Stained Lea 1, 2, 4A, and 4B)		MLRA	Water- 4A, an	Stained Leaves (B9) (MLRA 1, 2, d 4B)
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Lea 1, 2, 4A, and 4B) Salt Crust (B11)	ates (B13)	MLRA	Water- 4A, an Draina	Stained Leaves (B9) (MLRA 1, 2, d 4B) ge Patterns (B10)
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1)	ates (B13) Odor (C1)		Water-4A, an Draina Dry Se	Stained Leaves (B9) (MLRA 1, 2, d 4B) ge Patterns (B10) ason Water Table (C2)
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1)	ates (B13) Odor (C1) neres on Living Roo		Water-4A, an Draina Dry Se Satura Geomo	Stained Leaves (B9) (MLRA 1, 2, d 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9)
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Water Stained Lea 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Reduct Recent Iron Reduct	ates (B13) Odor (C1) neres on Living Roc ced Iron (C4)	ots (C3)	Water-4A, an Draina Dry Se Satura Geomo	Stained Leaves (B9) (MLRA 1, 2, d 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2)
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1)	ates (B13) Odor (C1) heres on Living Roc ced Iron (C4) ction in Tilled Soils	ots (C3) s (C6)	Water-4A, an Draina Dry Se Satura Geome Shallov FAC-ne	Stained Leaves (B9) (MLRA 1, 2, d 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3)
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Water Stained Lea 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Reduct Recent Iron Reduct	ates (B13) Odor (C1) Heres on Living Roc ced Iron (C4) Cition in Tilled Soils ed Plants (D1) (LR	ots (C3) s (C6)	Water-4A, an Draina Dry Se Satura Geome Shallon FAC-ne Raised	Stained Leaves (B9) (MLRA 1, 2, d 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5)
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1)	ates (B13) Odor (C1) Heres on Living Roc ced Iron (C4) Cition in Tilled Soils ed Plants (D1) (LR	ots (C3) s (C6)	Water-4A, an Draina Dry Se Satura Geome Shallon FAC-ne Raised	Stained Leaves (B9) (MLRA 1, 2, d 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) av Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water-Stained Lea 1, 2, 4A, and 4B) Aquatic Invertebra Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Reduct Stunted or Stresse Other (Explain in 19) Sparsely Vegetated Concave Surface (B8)	ates (B13) Odor (C1) Heres on Living Roc ced Iron (C4) Cition in Tilled Soils ed Plants (D1) (LR	ots (C3) s (C6)	Water-4A, an Draina Dry Se Satura Geome Shallon FAC-ne Raised	Stained Leaves (B9) (MLRA 1, 2, d 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) av Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1)	ates (B13) Odor (C1) Heres on Living Roc ced Iron (C4) Cition in Tilled Soils ed Plants (D1) (LR	ots (C3) s (C6)	Water-4A, an Draina Dry Se Satura Geome Shallon FAC-ne Raised	Stained Leaves (B9) (MLRA 1, 2, d 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) av Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water-Stained Lea 1, 2, 4A, and 4B) Aquatic Invertebra Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Reduct Stunted or Stresse Other (Explain in 19) Sparsely Vegetated Concave Surface (B8)	ates (B13) Odor (C1) Heres on Living Roc ced Iron (C4) Cition in Tilled Soils ed Plants (D1) (LR	ots (C3) s (C6) R A)	Water-4A, an Draina Dry Se Satura Geomo Shallov Raised Frost H	Stained Leaves (B9) (MLRA 1, 2, d 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) deave Hummocks (D7)
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1)	ates (B13) Odor (C1) heres on Living Roc ced Iron (C4) ction in Tilled Soils ed Plants (D1) (LR) Remarks)	ots (C3) s (C6) R A)	Water-4A, an Draina Dry Se Satura Geome Shallon FAC-ne Raised	Stained Leaves (B9) (MLRA 1, 2, d 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) deave Hummocks (D7)
estland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1)	ates (B13) Odor (C1) heres on Living Rocced Iron (C4) ction in Tilled Soils and Plants (D1) (LR) Remarks) 12 0	ots (C3) s (C6) R A) Wetla	Water-4A, an Draina Dry Se Satura Geome Shallov FAC-ne Raised Frost H	Stained Leaves (B9) (MLRA 1, 2, d 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) deave Hummocks (D7)
etland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1)	ates (B13) Odor (C1) heres on Living Rocced Iron (C4) ction in Tilled Soils and Plants (D1) (LR) Remarks) 12 0	ots (C3) s (C6) R A) Wetla	Water-4A, an Draina Dry Se Satura Geome Shallov FAC-ne Raised Frost H	Stained Leaves (B9) (MLRA 1, 2, d 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) deave Hummocks (D7)
estland Hydrology Indicators: mary Indicators (minimum of one required; check all that apply) Surface Water (A1)	ates (B13) Odor (C1) heres on Living Rocced Iron (C4) ction in Tilled Soils and Plants (D1) (LR) Remarks) 12 0	ots (C3) s (C6) R A) Wetla	Water-4A, an Draina Dry Se Satura Geome Shallov FAC-ne Raised Frost H	Stained Leaves (B9) (MLRA 1, 2, d 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) deave Hummocks (D7)

roject/Site: DESCHUTES LWI		City/County:	Sunriver/De	eschutes Sampling Date: 05-May-10
pplicant/Owner: DESCHUTES COUNTY				State: OR Sampling Point: SP 7
nvestigator(s): ALISON SIGLER, ROSEMARY BAKER		Section, To	wnship, Ra	ange: S 13
Landform (hillslope, terrace, etc.): Floodplain		Local relief	(concave,	convex, none): concave Slope: 0.0% /
ubregion (LRR): LRR B	Lat.: 43			Long.: -121.4745 Datum: NAD 83
-				NWI classification: R2UBH
oil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 pero e climatic/hydrologic conditions on the site typical for this		. Vec	• No (
	significantly			ormal Circumstances" present? Yes • No
re Vegetation 🔲 , Soil 📙 , or Hydrology 🔲 ummary of Findings - Attach site map sho	naturally pro			eded, explain any answers in Remarks.) Ations transects important features etc
<u> </u>	owing sai	inping po	111111000	Thoms, transcots, important reatures, etc
Hydric Soil Present? Hydric Soil Present? Yes No Yes No No		Is the	Sampled A	
		within	a Wetland	1? Yes No
Vetland Hydrology Present? Yes ● No ○				
Remarks:				
On-site determination.				
/EGETATION - Use scientific names of plan	tc	Dominant		
PEGETATION - Ose scientific flames of plan		Species? .		
ree Stratum (Plot size:	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1	0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
2.		0.0%		
3		0.0%		Total Number of Dominant Species Across All Strata: 1 (B)
4	0	0.0%		
(8)	0	= Total Cove	er	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:	0	D 0.00/		
1		0.0%		Prevalence Index worksheet:
2		0.0%		Total % Cover of: Multiply by: OBL specifes 80 x 1 = 80
4.		0.0%		FACW specifies $0 \times 2 = 0$
5.	0	0.0%		FAC specifies
	0	= Total Cove	er	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size:				UPL specifies $0 \times 5 = 0$
1, Carex nebrascensis		93.8%	OBL	Collumn Totalis: 80 (A) 80 (B)
2. Carex aquatilis		6.3%	OBL	
3		0.0%		
4. 5.		0.0%		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
6.		0.0%		✓ Prevalence Index is ≤ 3.0
7		0.0%		 ✓ Prevalence Index is ≤3.0 ✓ Morphological Adaptations 1 ¹, rovide supporting
8,		0.0%		data in Remarks or on a separate sheet)
9		0.0%		Problematic Hydrophytic Vegetation 1 (1 (plain)
10,		0.0%		
11				¹ Indicators of hydric soil and wetland hydrology must
Noody Vine Stratum (Plot size:		. 5.4. 550		be present, unless disturbed or problematic.
	0	0.0%		
1.				Hydrophytic
1	0	0.0%		
1 2		= Total Cove	er	Vegetation Present? Yes No

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desci	ription: (De		the depth n	eeded to d				nfirm the a	absence of indicators.)	
Depth	Colon (Matrix		Color (dox Featu		1002	Toutum	Domonico
(inches)	Color (•	<u> </u>	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-6	10YR	3/2	100%						Silt	
6-13	10YR	4/2	100%						Silt	
13-20	10YR	3/2	95%	7.5YR	4/4	5%	С	PL	Silt	
		-			-					
1 Type: C. Co.	ncontration [od Matrix	CS Cover	ad or Coat	od Sand Cro		ntion, DL Doro Lining M	Matrix
Hydric Soil		•						ains -Loca	ation: PL=Pore Lining. M=	
Histosol ((Аррпсаі	ole to all Liki		idy Redox (lematic Hydric Soils:3
I — '	pedon (A2)				pped Matri				1 cm Muck (A9)	•
Black Hist					my Mucky		:1)		2 cm Muck (A10) Reduced Vertic (, ,
Hydroger	Sulfide (A4)				my Gleyed				Red Parent Mate	· ·
l	Layers (A5)				oleted Matr		-/		✓ Other (Explain in	, ,
1 cm Mud	ck (A9) (LRR	D)		= '	lox Dark Su	` ')		Utilei (Explain in	Remarks)
I — .	Below Dark S		11)	_	oleted Dark					
	k Surface (A1	•			lox depress		·		2	
	uck Mineral (S				nal Pools (3 Indicators of hydro	phytic vegetation and must be present.
	eyed Matrix (wettand frydrology	, must be present.
Restrictive L	ayer (if pre	sent):								
Type:									Hydric Soil Present?	Yes ● No ○
Depth (inc	hes):								Trydric 3011 Fresent:	Tes S NO S
Remarks:										
HYDRIC SOIL	_S ASSUME	D BASED	ON WETLA	ND HYDR	OLOGY IN	IDICATO	RS. HAS (CHARCOAI	L IN TRACE AMOUNTS	THROUGH ENTIRE PROFILE.
Hydrolog	у									
Wetland Hyd	irology Indi	cators:								
Primary Indi			one require	d: check a	all that ap	(vla			Secondary In	dicators (2 or more required)
	Vater (A1)				alt Crust (B					ss (B1) (Riverine)
✓ High Wat	er Table (A2)			□в	iotic Crust	(B12)				Deposits (B2) (Riverine)
✓ Saturation	n (A3)			A	quatic Inve	ertebrates	(B13)		Drift Depos	its (B3) Riverine)
☐ Water Ma	arks (B1) (Noi	nriverine)		H	ydrogen Sı	ulfide Odo	r (C1)		Drainage P	atterns (B10)
Sediment	Deposits (B2) (Nonrive	rine)	□ o	xidized Rhi	izospheres	along Living	g Roots (C3	B) Dry Season	Water Table (C2)
☐ Drift depo	osits (B3) (No	neriverine))	P	resence of	Reduced	Iron (C4)		Crayfish Bu	rrows (C8)
Surface S	oil Cracks (Bo	5)		□ R	ecent Iron	Reduction	in Plowed S	Soils (C6)	Saturation	Visible on Aerial Imagery (C9)
☐ Inundation	n Visible on A	Aerial Imag	gery (B7)	T	hin Muck S	urface (C7	")		Shallow Aq	uitard (D3)
☐ Water-Sta	ained Leaves	(B9)		□ o	ther (Expla	in in Rem	arks)		FAC-neutra	l Test (D5)
Field Observ	ations:		0 0					7		
Surface Water	Present?	Yes)	Depth (inc	hes):				
Water Table P	resent?	Yes	No C)	Depth (inc	hes):	12			
Saturation Pre (includes capil		Yes	● No C)	Depth (inc	hes):	7	Wetla	and Hydrology Present?	P Yes ● No ○
Describe Red		(stream	gauge, moi	nitor well,	aerial ph	otos, pre	vious inspe	ections), i	f available:	
Remarks:										

Summary of Findings - Attach site map sho	Lat.: 43 me of year gnificantly	Local relief .7968 ? Yes disturbed? blematic?	(concave, o	State: OR Sampling Point: SP 7A ange: \$ 35
Landform (hillslope, terrace, etc.): Floodplain ubregion (LRR): LRR A poil Map Unit Name: W: Water de climatic/hydrologic conditions on the site typical for this ti are Vegetation , Soil , or Hydrology signere Vegetation , Soil , or Hydrology na Summary of Findings - Attach site map sho Hydrophytic Vegetation Present? Yes No	Lat.: 43 me of year gnificantly	Local relief .7968 ? Yes disturbed? blematic?	(concave, o	Convex, none): flat Long.: -121.5008 NWI classification: PEMF (If no, explain in Remarks.) Jormal Circumstances" present? Yes No
ubregion (LRR): LRR A oil Map Unit Name: W: Water e climatic/hydrologic conditions on the site typical for this ti re Vegetation , Soil , or Hydrology signer Vegetation , soil , or Hydrology na Summary of Findings - Attach site map sho Hydrophytic Vegetation Present? Yes No	me of year gnificantly aturally pro	.7968 ? Yes disturbed? blematic?	No CAre "N	Long.: -121.5008 Datum: NAD83 NWI classification: PEMF (If no, explain in Remarks.) lormal Circumstances" present? Yes No
oil Map Unit Name: W: Water c climatic/hydrologic conditions on the site typical for this ti re Vegetation , Soil , or Hydrology signer Vegetation , Soil , or Hydrology na Summary of Findings - Attach site map sho Hydrophytic Vegetation Present? Yes No	me of year gnificantly aturally pro	? Yes disturbed? blematic?	Are "N	NWI classification: PEMF (If no, explain in Remarks.) Iormal Circumstances" present? Yes • No
oil Map Unit Name: W: Water c climatic/hydrologic conditions on the site typical for this ti re Vegetation , Soil , or Hydrology signer Vegetation , Soil , or Hydrology na Summary of Findings - Attach site map sho Hydrophytic Vegetation Present? Yes No	me of year gnificantly aturally pro	disturbed?	Are "N	NWI classification: PEMF (If no, explain in Remarks.) Iormal Circumstances" present? Yes No
e climatic/hydrologic conditions on the site typical for this ti re Vegetation , Soil , or Hydrology signare Vegetation , Soil , or Hydrology na Summary of Findings - Attach site map sho	gnificantly aturally pro	disturbed?	Are "N	(If no, explain in Remarks.) lormal Circumstances" present? Yes No
re Vegetation , Soil , or Hydrology signer Vegetation , Soil , or Hydrology nature Vegetation , Soil , or Hydrology nature Vegetation Present? Yes No	gnificantly aturally pro	disturbed? blematic?	(If nee	lormal Circumstances" present? Yes No
re Vegetation , Soil , or Hydrology na Summary of Findings - Attach site map sho Hydrophytic Vegetation Present? Yes No	aturally pro	blematic?	(If nee	•
Summary of Findings - Attach site map sho			-	eded, explain any answers in Kemarks.)
Hydrophytic Vegetation Present? Yes No	wing sa	mpling p	aint laa	
			omit ioc	ations, transects, important features, e
Voc (•) No ()		Is the	Sampled A	Area
		within	a Wetland	₁₂ Yes ● No ○
Wetland Hydrology Present? Yes No		VVICINI	a wetiane	•
Remarks:				
DIRT ROADS BLOCKED; COULD NOT ACCESS. OFF-SITE DA	ATA PLOT			
VEGETATION - Use scientific names of plants	-	Dominant		
VEGETATION - Ose scientific flames of plants		_Species?		15. 5
Tree Stratum (Plot size:	Absolute % Cover		Status	Dominance Test worksheet:
1 Pinus contorta	30	100.0%	FAC	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
2	0	0.0%		Total Number of Dominant
3	0	0.0%		Species Across All Strata: 4 (B)
4	0	0.0%		Percent of dominant Species
Sapling/Shrub Stratum (Plot size:	30	= Total Cove	er	That Are OBL, FACW, or FAC: 100.0% (A/B
1_Salix exigua	10	100.0%	OBL	Prevalence Index worksheet:
2	0	0.0%		Total % Cover of: Multiply by:
3	0	0.0%		0BL speci es60 x 1 =60
4		0.0%		FACW species x 2 = 100
5	0	0.0%		FAC speciles $30 \times 3 = 90$
Herb Stratum (Plot size:	10	= Total Cove	er	FACU species $0 \times 4 = 0$
1 Juncus balticus	50	5 0.0%	FACW	UPL species x 5 =
2. Carex nebrascensis	10	10.0%	OBL	Column Totals:
3 Carex aquatilis	40	40.0%	OBL	Prevalence Index = B/A = 1.786
4	0	0.0%		Hydrophytic Vegetation Indicators:
5		0.0%		✓ Dominance Test is > 50%
6		0.0%		✓ Prevalence Index is ≤3.0 ¹
8		0.0%		Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
9		0.0%		Wetland Non-Vascular Plants ¹
10	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
11	0	0.0%		¹ Indicators of hydric soil and wetland hydrology must
	100	= Total Cove	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:	0			
1, 2.	0	0.0%		Hydrophytic
۷	0	= Total Cove		Vegetation Vac A Na C
% Bare Ground in Herb Stratum: ()		- rotal COVE		Present? Yes No
Remarks:				

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Depth	Matrix			ox Features	Los?	Toyturo
nches)	Color (moist)	<u>%</u> C	olor (moist)	% Type ¹	Loc ²	Texture Remarks
e: C=Cond	entration. D=Depletion.	RM=Reduced N	latrix, CS=Covered	d or Coated Sand (Grains ² Locati	ion: PL=Pore Lining. M=Matrix
dric Soil I	ndicators: (Applicable	to all LRRs,	unless otherwise	e noted.)		Indicators for Problematic Hydric Soils:3
Histosol (A	•		Sandy Redox (S			2 cm Muck (A10)
Histic Epip		L	Stripped Matrix	((S6) Mineral (F1) (excep	t in MIDA 1)	Red Parent Material (TF2)
Black Histi Hydrogen	c (A3) Sulfide (A4)		Loamy Gleyed I		IL III IVILKA 1)	Other (Explain in Remarks)
	Below Dark Surface (A11) [Depleted Matrix			
	Surface (A12)	´ [Redox Dark Sui			³ Indicators of hydrophytic vegetation and
Sandy Mu	ck Mineral (S1)	L	Depleted Dark			wetland hydrology must be present,
	yed Matrix (S4)		Redox depressi	ions (F8)		unless disturbed or problematic.
trictive La	yer (if present):					
Гуре:						Hydric Soil Present? Yes No
Depth (inch marks: UMED HYI	es):ORIC SOILS BASED O	N HYDROLOG	Y			nyano com recomment
marks: UMED HYI	DRIC SOILS BASED O	N HYDROLOG	Y			103 C NO C
marks: UMED HYI	ORIC SOILS BASED O	N HYDROLOG	Y			nyano commocomini (cas commocomini)
marks: UMED HYI drology tland Hyd	ORIC SOILS BASED O			olv)		
narks: JMED HYI drology land Hyden	ORIC SOILS BASED O		neck all that app		ent MI RA	Secondary Indicators (minimum of two req
narks: JMED HYI drology land Hydenary Indic Surface W	PORIC SOILS BASED O		neck all that app	d Leaves (B9) (exc	ept MLRA	
narks: JMED HYI drology land Hydenary Indic Surface W	PRIC SOILS BASED O rology Indicators: ators (minimum of or later (A1) er Table (A2)		neck all that app	d Leaves (B9) (exc 4B)	ept MLRA	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2,
drology land Hydenary Indice Surface W High Water	rology Indicators: ators (minimum of or ater (A1) or Table (A2)		neck all that app Water-Staine 1, 2, 4A, and Salt Crust (B1	d Leaves (B9) (exc 4B)	ept MLRA	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
drology land Hydrology land Hydrology Surface W High Water Saturation Water Ma	rology Indicators: ators (minimum of or ater (A1) or Table (A2)		neck all that app Water-Staine 1, 2, 4A, and Salt Crust (B1 Aquatic Inver	d Leaves (B9) (exc 4B) 11)	ept MLRA	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
drology land Hydrology land Hydrology Surface W High Water Saturation Water Ma	cology Indicators: ators (minimum of or ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2)		neck all that app Water-Staine 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Su	d Leaves (B9) (exc 4B) 11) rtebrates (B13)		Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2)
drology land Hydenary Indic Surface W High Water Saturation Water Ma Sediment Drift depo	cology Indicators: ators (minimum of or ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2)		neck all that app Water-Staine 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul	d Leaves (B9) (exc 4B) 11) rtebrates (B13) Ifide Odor (C1)		Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
drology Iland Hydenary Indice Surface Welligh Water Mange Sediment Drift depo	cology Indicators: ators (minimum of or later (A1) er Table (A2) er (A3) erks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)		meck all that app Water-Staine 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz	d Leaves (B9) (exc 4B) 11) rtebrates (B13) Ifide Odor (C1) cospheres on Living	g Roots (C3)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
drology land Hydenary Indice Surface W High Water Ma Sediment Drift depo Algal Mat Iron Depo Surface S	cology Indicators: ators (minimum of or ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6)	ne required; c	meck all that app Water-Staine 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R	d Leaves (B9) (exc 4B) 11) rebrates (B13) Ifide Odor (C1) cospheres on Living Reduced Iron (C4) Reduction in Tilled tressed Plants (D1)	g Roots (C3) Soils (C6)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Irology Iand Hydinary Indic Surface W High Water Saturation Water Ma Sediment Drift depo Algal Mat Iron Depo Surface Si	PRIC SOILS BASED O rology Indicators: ators (minimum of or ater (A1) or Table (A2) or (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) on Visible on Aerial Image	ne required; c	meck all that app Water-Staine 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R	d Leaves (B9) (exc 4B) 111) rtebrates (B13) Ifide Odor (C1) zospheres on Living Reduced Iron (C4) Reduction in Tilled	g Roots (C3) Soils (C6)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5)
drology land Hydrology land Hydrology Surface W High Water Ma Sediment Drift depo	cology Indicators: ators (minimum of or ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6)	ne required; c	meck all that app Water-Staine 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R	d Leaves (B9) (exc 4B) 11) rebrates (B13) Ifide Odor (C1) cospheres on Living Reduced Iron (C4) Reduction in Tilled tressed Plants (D1)	g Roots (C3) Soils (C6)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drology land Hydenary Indice Surface Welligh Water Ma Sediment Drift depo Algal Mat Iron Depo Surface Selinundation Sparsely Version	cology Indicators: ators (minimum of or later (A1) er Table (A2) er (A3) erks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) en Visible on Aerial Image (egetated Concave Surfactions:	ne required; c	meck all that app Water-Staine 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explai	d Leaves (B9) (exc 4B) 11) retebrates (B13) Ifide Odor (C1) cospheres on Living Reduced Iron (C4) Reduction in Tilled tressed Plants (D1) in in Remarks)	g Roots (C3) Soils (C6)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drology tland Hydro mary Indic Surface W High Water Saturation Water Ma Sediment Drift depo Algal Mat Iron Depo Surface Si Inundatio Sparsely V	Present?	ery (B7) ce (B8)	meck all that app Water-Staine 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R	d Leaves (B9) (exc 4B) 11) retebrates (B13) Ifide Odor (C1) cospheres on Living Reduced Iron (C4) Reduction in Tilled tressed Plants (D1) in in Remarks)	g Roots (C3) Soils (C6)	Secondary Indicators (minimum of two required Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drology tland Hyde mary Indic Surface W High Water Saturation Water Ma Sediment Drift depo Algal Mat Iron Depo Surface Selinundatio	cology Indicators: ators (minimum of or ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) n Visible on Aerial Image //egetated Concave Surfa	ery (B7) ce (B8)	meck all that app Water-Staine 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explai	d Leaves (B9) (exc 4B) 11) rtebrates (B13) Iffide Odor (C1) cospheres on Living Reduced Iron (C4) Reduction in Tilled tressed Plants (D1) in in Remarks)	g Roots (C3) Soils (C6) (LRR A)	Secondary Indicators (minimum of two required Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
drology tland Hydrology tland Hydrology tland Hydrology tland Hydrology Mary Indic Surface W High Water Saturation Water Ma Sediment Drift depo Algal Mat Iron Depo Surface S Inundatio Sparsely W d Observa face Water er Table Pr uration Pres	cology Indicators: ators (minimum of or ater (A1) er Table (A2) (A3) erks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) n Visible on Aerial Image vegetated Concave Surfa etitions: Present? Yes ent? Yes	ery (B7) ce (B8) No O No O	meck all that app Water-Staine 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or St Other (Explai	d Leaves (B9) (exc 4B) 11) rtebrates (B13) Ifide Odor (C1) cospheres on Living Reduced Iron (C4) Reduction in Tilled tressed Plants (D1) in in Remarks) mes): 1	g Roots (C3) Soils (C6) (LRR A)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drology tland Hydrology tland	cology Indicators: ators (minimum of or later (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) n Visible on Aerial Image legetated Concave Surfa rtions: Present? Present? Present? Yes ent? ent? gry fringe) Volume Table (A2) (A3) (A3) (A4) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	ery (B7) ce (B8) No No No No No No	meck all that app Water-Staine 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or St Other (Explai	d Leaves (B9) (exc 4B) 11) rtebrates (B13) Ifide Odor (C1) cospheres on Living Reduced Iron (C4) Reduction in Tilled tressed Plants (D1) in in Remarks) nes): 1 nes): 0	Soils (C6) (LRR A) Wetlan	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
drology land Hydrology Saturation Water Ma Sediment Drift depo Algal Mat Iron Depo Surface So Inundatio Sparsely Indoorpoology land Observation ace Water land Observation are Table Proportion Irration Presudes capill	cology Indicators: ators (minimum of or ater (A1) er Table (A2) (A3) erks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) n Visible on Aerial Image vegetated Concave Surfa etitions: Present? Yes ent? Yes	ery (B7) ce (B8) No No No No No No	meck all that app Water-Staine 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or St Other (Explai	d Leaves (B9) (exc 4B) 11) rtebrates (B13) Ifide Odor (C1) cospheres on Living Reduced Iron (C4) Reduction in Tilled tressed Plants (D1) in in Remarks) nes): 1 nes): 0	Soils (C6) (LRR A) Wetlan	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)

Project/Site: DESCHUTES LWI	City/	County: Sunriver/D	eschutes Sampling Date: 05-May-10
Applicant/Owner: DESCHUTES COUNTY			State: OR Sampling Point: SP 8
nvestigator(s):_ALISON SIGLER, ROSEMARY BAKER	Se	ection, Township, R	Zange: S 24 T 20 S R 10 E
Landform (hillslope, terrace, etc.): Floodplain	Loc	cal relief (concave,	convex, none): convex Slope: 0.0% /
subregion (LRR): LRR B	 Lat.: 43.823	35	Long.: -121.4766 Datum: NAD 83
bil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slope			NWI classification: PEMF
e climatic/hydrologic conditions on the site typical for thi		Yes No	
re Vegetation , Soil , or Hydrology	significantly dist	urbed? Are "N	lormal Circumstances" present? Yes ● No ○
re Vegetation , Soil , or Hydrology	naturally problen		eded, explain any answers in Remarks.)
-	.	•	
Summary of Findings - Attach site map si	nowing samp	ling point loca	ations, transects, important features, e
Hydrophytic Vegetation Present? Yes No		Is the Sampled	Area
Hydric Soil Present? Yes No		within a Wetlan	Van 🕟 Na 🔘
Wetland Hydrology Present? Yes ● No ○		within a wetian	u:
Remarks:			
VEGETATION - Use scientific names of pla	ntc D	ominant	
PEGETATION - OSE SCIENTIFIC HARRIES OF PIA	Sp	ecies?	<u> </u>
Tree Stratum (Plot size:		el.Strat. Indicator over Status	
1,	0 🗆	0.0%	Number of Dominant Species That are OBL, FACW, or FAC:1 (A)
2.		0.0%	Total Niverban of Descinant
3		0.0%	Total Number of Dominant Species Across All Strata: 1 (B)
4	0	0.0%	Descent of deminent Species
Sapling/Shrub Stratum (Plot size:	0 = T	otal Cover	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/
1	0 🔲	0.0%	Prevalence Index worksheet:
2.		0.0%	Total % Cover of: Multiply by:
3.		0.0%	0BL speci es 100 x 1 = 100
4		0.0%	FACW species 0 x 2 = 0
5		0.0%	FAC species x 3 =0
Horb Streeture (Diet size)	0 = T	otal Cover	FACU speci es0 x 4 =0
Herb Stratum (Plot size:	100	100 00/ OBI	UPL species x 5 =
1. Carex aquatilis 2.		100.0% OBL OBL	Column Totals: 100 (A) 100 (I
2,		0.0%	Prevalence Index = $B/A = 1.000$
4		0.0%	Hydrophytic Vegetation Indicators:
5		0.0%	✓ Dominance Test is > 50%
6		0.0%	✓ Prevalence Index is ≤3.0
7		0.0%	Morphological Adaptations 1 , rovide supportin
8,		0.0%	data in Remarks or on a separate sheet)
9 10.		0.0%	Problematic Hydrophytic Vegetation 1 (1 plain)
11		0.0%	
		otal Cover	Indicators of hydric soil and wetland hydrology mu be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:	_		so present, unless disturbed or problematic.
1,		0.0%	
2.		0.0%	Hydrophytic Vegetation
	0 = T	otal Cover	Present? Yes • No

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desc	ription: (De:	scribe to t	the depth ne	eded to d	ocument	the indic	ator or co	nfirm the a	absence of indicators.)	
Depth		Matrix				ox Featu				
(inches)	Color (ı	moist)		Color (r	noist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR	3/2	100%						Silt	
12-20	10YR	4/2	95%	10YR	5/6	5%	С	PL	Silt	
	-									
	-									
1 Type: C=Co	ncentration. [D=Depletio	n. RM=Reduc	ed Matrix,	CS=Covere	d or Coat	ed Sand Gra	ains ² Loca	ation: PL=Pore Lining. M=f	Matrix
Hydric Soil	Indicators:	(Applicat	ole to all LRF	Rs, unless	otherwise	e noted.)			Indicators for Probl	ematic Hydric Soils: ³
Histosol ((A1)			San	dy Redox (S5)			1 cm Muck (A9) (I	•
I — .	pedon (A2)			Strip	ped Matrix	(S6)			2 cm Muck (A10)	·
Black His				Loai	my Mucky I	Mineral (F	1)		Reduced Vertic (F	` ,
	n Sulfide (A4)			Loai	my Gleyed	Matrix (F	2)		Red Parent Materi	•
	Layers (A5) (Dep	leted Matri	x (F3)			Other (Explain in	, ,
	ck (A9) (LRR I			Red	ox Dark Su	rface (F6))		_ 、,	•
I — .	Below Dark S		1)	☐ Dep	leted Dark	Surface (F7)			
	rk Surface (A1	•		Red	ox depress	ions (F8)			³ Indicators of hydrop	h. di dati d
	uck Mineral (S			Verr	nal Pools (F	9)			wetland hydrology	
<u> </u>	eyed Matrix (S									·
Restrictive L	ayer (if pres	sent):								
Type:									Hydric Soil Present?	Yes No
Depth (inc	ches):									103 0 110 0
Remarks:										
HYDRIC SOII	LS BY SATU	RATION								
Hydrolog	v									
Wetland Hyd										
Primary Ind		imum of o	one required							icators (2 or more required)
	Water (A1)				alt Crust (B	•				s (B1) (Riverine)
	er Table (A2)				otic Crust ((D40)			eposits (B2) (Riverine)
✓ Saturatio	, ,				quatic Inve					s (B3) Riverine)
✓ Sediment	arks (B1) (Nor	,	rin a \		ydrogen Su			a Doots (C2	Drainage Pa	• •
			•			•	along Living	g Roots (C3		Water Table (C2)
	osits (B3) (No Soil Cracks (B6		1		esence of I		i in Plowed S	Soile (C4)	Crayfish Bur	
	on Visible on A	•	ioni (B7)					solis (Co)		isible on Aerial Imagery (C9)
	ained Leaves	•	ery (b/)		nin Muck Su ther (Explai				Shallow Aqu	
		(67)			iriei (Expiai	III III Keiii	ai K3)		FAC-neutral	Test (D5)
Field Observ		Yes	○ No ●)	D 4 (>		7		
Surface Water	r Present?				Depth (inch	nes):		_		
Water Table F		Yes	● No □)	Depth (inch	nes):	0			Yes ● No ○
Saturation Pre		Yes	● No ○	'	Depth (inch	nes):	0	wetia	and Hydrology Present?	res 🕙 NO 🔾
(includes capi Describe Re		(stream	naune mor	itor well	aerial nho	ntos pre	vious inspe	ections) if	f available	
		(= 50111	J==90, 11101		a. pine					
Remarks:										

Section Township Resident Section Township Ranges S Sampling Point SP 8 A	Project/Site: DESCHUTES LWI	City/County: SUNRIV	/ER/DESCHUTES Sampling Date: 22-Jun-10
Local relief (concave, convex, none): concave Slope: 0.0% / 0.0	Applicant/Owner: DESCHUTES COUNTY		State: OR Sampling Point: SP 8A
Sulf Map but Name: 29A: Creanualls: 0 to 3 percent slopes	Investigator(s): ALISON SIGLER, SARAH HARTUNG	Section, Township	o, Range: S 3 T 21 S R 10 E
Soil Map Unit Name: 29A. Crysqualls, 0 Is 3 percent slopes: re climatic/hydrologic conditions on the site typical for this time of year? Very Vegetation	Landform (hillslope, terrace, etc.): Shoulder slope	Local relief (concav	ve, convex, none): Slope:
re climatic/hydrologic conditions on the site typical for this time of year? re climatic/hydrologic conditions on the site typical for this time of year? re climatic/hydrologic conditions on the site typical for this time of year? re climatic/hydrologic conditions on the site typical for this time of year? re climatic/hydrologic conditions on the site typical for this time of year? re vegetation	Subregion (LRR): LRR A	Lat.: 43.7801	Long.: -121.5122 Datum: NAD83
re climatic/hydrologic conditions on the site typical for this time of year? Yes ● No ○ (If no, explain in Remarks.) Are Vegetation □ , Soil □ , or Hydrology □ significantly disturbed? Are "Normal Circumstances" present? Yes ● No ○ Are Vegetation □ , Soil □ , or Hydrology □ naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, et Hydrophytic Vegetation Present? Yes ● No ○ Is the Sampled Area within a Wetland? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○ Is the Sampled Area within a Wetland? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○ Is the Sampled Area within a Wetland? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○ Is the Sampled Area within a Wetland? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○ Wetland Non-Vascular Plants¹ □ None Present? Yes ● No ○ Yes ■ No ○ Prevalence Index worksheet: Yes ■ No ○ Wetland Non-Vascular Plants¹ □ None Present? Yes ● No ○ Yes ■	Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes		
Are Vegetation		time of year? Yes N	0 (If no, explain in Remarks.)
Summary of Findings - Attach site map showing sampling point locations, transects, important features, et Hydrophytic Vegetation Present? Yes No No within a Wetland? Yes No No within a Wetland? Yes No No within a Wetland? Yes No No Wetland Hydrology Present? Yes No No within a Wetland? Yes No	Are Vegetation . , Soil . , or Hydrology .	significantly disturbed? Are	
Summary of Findings - Attach site map showing sampling point locations, transects, important features, et Hydrophytic Vegetation Present? Yes No No within a Wetland? Yes No No within a Wetland? Yes No No within a Wetland? Yes No No Wetland Hydrology Present? Yes No No within a Wetland? Yes No	Are Vegetation Soil or Hydrology	naturally problematic? (If	needed explain any answers in Remarks)
Hydric Soil Present? Yes			
Hydric Soil Present? Yes			· · · · · · · · · · · · · · · · · · ·
Wetland Hydrology Present? Yes No		Is the Sample	
VEGETATION - Use scientific names of plants.		within a Wet	land? Yes ● No ○
VEGETATION - Use scientific names of plants. Dominant Species? Species? Species? Over Status Over Over Status Over Over Status Over O	, , ,		
Number of Dominant Species Number of Dom			
Naboulur Relistratum Plot size: Naboulur Relistratum Plot size: Naboulur Relistratum Plot size: Naboulur Relistratum Plot size: Naboulur Relistratum Plot size: Namber of Dominant Species National Namber of Dominant Species Namber of Dominant Species National Namb			
Absolute Rel. Strat. Indicator No Cover Scover Status No Cover	VEGETATION - Use scientific names of plan		
1. Pinus contorta	Tree Stratum (Plot size:	Absolute Rel.Strat. Indica	
2.	4 81		Number of Dominant Species
3	-		
4. 0 0.0% Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) 1. Salix exigua 15 ✓ 100.0% OBL Prevalence Index worksheet: Total % Cover of: Multiply by: 1 2 0 0.0% OBL species 20 x 1 = 20 0 0 0 0.0% FACW species 30 x 2 = 60 0 0 0 FACW species 30 x 2 = 60 0 0 0 FACW species 30 x 2 = 60 0 0 0 FACW species 30 x 2 = 60 0 0 0 FACW species 75 x 3 = 225 0 x 4 = 0 0			
That Are OBL, FACW, or FAC: 100.0% (A/B)	4	0 0.0%	_ '
2.	Sapling/Shrub Stratum (Plot size:	10 = Total Cover	
3.	1, Salix exigua	15	Prevalence Index worksheet:
4.	2.	0 0.0%	Total % Cover of: Multiply by:
Solution Stratum Plot size: Solution Packed		0	OBL species20 x 1 =20
Herb Stratum (Plot size:) 15			FACW species30 x 2 =60
Herb Stratum	5	0	- 176 Species x c =
1 Carex aquatilis 5 5.0% OBL	Herb Stratum (Plot size:	15 = Total Cover	racu species X 4 =
2 Poa sp. 3 Juncus sp. 4. 0 □ 0.0% 5. □ 0 □ 0.0% 6. □ 0 □ 0.0% 7. □ 0 □ 0.0% 8. □ 0 □ 0.0% 9. □ 0 □ 0.0% 11. □ 100 □ Total Cover Woody Vine Stratum (Plot size: □) 1 □ 0 □ 0.0% 0 □ 0.0% 0 □ 0.0% 1 □ Vegetation Indicators: □ Vegetation Ind		5 5.0% OBL	UPL species — 0 x 5 = — 0
3 Juncus sp. 30			Column Totals: 125 (A) 305 (B)
Solution Stratum Plot size: Solution Stratum Plot size: Solution Stratum Plot size: Solution Stratum Plot size: Solution Stratum Plot size: Solution Stratum Plot size: Solution Stratum Stratum Solution Solution Stratum Solution Sol			Prevalence Index = B/A = 2.440
6.	4.	0 0.0%	Hydrophytic Vegetation Indicators:
7.	5	0 0.0%	Dominance Test is > 50%
Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			Prevalence Index is ≤3.0 ¹
9.			
9.			
11		=	
Woody Vine Stratum (Plot size:) 1.			Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:			
2	Woody Vine Stratum (Plot size:		
0 = Total Cover Present? Yes ● No ○			_
0 = Total Cover Present? Yes ● No ○	2		Vogotation
% Bare Ground in Herb Stratum: 0		0 = Total Cover	
	% Bare Ground in Herb Stratum: 0		
	Poa sp. assumed FAC and Juncus sp. assumed FACW.		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

epth .	Matrix	Redo	ox Features		
ches)	Color (moist) %	Color (moist)	% Type ¹	Loc ²	Texture Remarks
e: C=Conc	entration. D=Depletion. RM=F	Reduced Matrix, CS=Covered	d or Coated Sand Grains	s ² Location	: PL=Pore Lining. M=Matrix
	ndicators: (Applicable to a				Indicators for Problematic Hydric Soils:3
Histosol (A		Sandy Redox (S			2 cm Muck (A10)
Histic Epip	•	Stripped Matrix	•		Red Parent Material (TF2)
Black Histi	c (A3)	Loamy Mucky M	Mineral (F1) (except in M	MLRA 1)	Other (Explain in Remarks)
Hydrogen	Sulfide (A4)	Loamy Gleyed N			
Depleted E	Below Dark Surface (A11)	Depleted Matrix			
	Surface (A12)	Redox Dark Sur Depleted Dark		³ I	Indicators of hydrophytic vegetation and
•	ck Mineral (S1)	Redox depressi			wetland hydrology must be present, unless disturbed or problematic.
	yed Matrix (S4)	Redox depressi	013 (10)		amoss distances of problematic
	yer (if present):				
Гуре:				— н	ydric Soil Present? Yes No
epth (inch	es):				
marks: PRIC BASE	D ON HYDROLOGY				
	D ON HYDROLOGY				
RIC BASE					
RIC BASE	ology Indicators:				
RIC BASE drology land Hydr nary Indic	rology Indicators: ators (minimum of one rec	quired; check all that app	oly)		Secondary Indicators (minimum of two rec
Irology Iand Hydr	rology Indicators: ators (minimum of one rec	Water-Stained	d Leaves (B9) (except N	MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
Irology land Hydr nary Indic	rology Indicators: ators (minimum of one rec	Water-Stained	d Leaves (B9) (except M 4B)	MLRA	
Irology land Hydr nary Indic Surface W High Wate Saturation	rology Indicators: ators (minimum of one rec rater (A1) er Table (A2)	Water-Stained 1, 2, 4A, and Salt Crust (B1	d Leaves (B9) (except M 4B)	MLRA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Irology Iand Hydrary Indic Surface W High Wate Saturation Water Mai	rology Indicators: ators (minimum of one rec ater (A1) or Table (A2) (A3) rks (B1)	Water-Stained 1, 2, 4A, and Salt Crust (B1	d Leaves (B9) (except M 4B) 1) tebrates (B13)	MLRA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Irology Iand Hydray Indic Surface W High Wate Saturation Water Mai	rology Indicators: ators (minimum of one rec later (A1) er Table (A2) (A3) rks (B1) Deposits (B2)	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inver	d Leaves (B9) (except M 4B) 11) tebrates (B13) fide Odor (C1)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Irology Iand Hydray Indic Surface W High Wate Saturation Water Mar Sediment Drift depo	rology Indicators: ators (minimum of one rec later (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3)	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz	d Leaves (B9) (except M 4B) 11) tebrates (B13) fide Odor (C1) ospheres on Living Roo		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Irology Iand Hydray Indic Surface W High Water Saturation Water Mai Sediment Drift depo	rology Indicators: ators (minimum of one reconstruction of the rec	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz	d Leaves (B9) (except M 4B) 11) tebrates (B13) fide Odor (C1)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
drology land Hydr nary Indic Surface W High Water Saturation Water Mai Sediment Drift depo Algal Mat Iron Depo	rology Indicators: ators (minimum of one reclater (A1) or Table (A2) or (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R	d Leaves (B9) (except M 4B) 11) tebrates (B13) fide Odor (C1) ospheres on Living Roo reduced Iron (C4) reduction in Tilled Soils	ots (C3) (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
drology land Hydr nary Indic Surface W High Wate Saturation Water Mai Sediment Drift depo Algal Mat Iron Depo Surface So	rology Indicators: ators (minimum of one reconstruction (A1) or Table (A2) or (A3) orks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6)	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R	d Leaves (B9) (except M 4B) (1) tebrates (B13) (fide Odor (C1) ospheres on Living Roo deduced Iron (C4)	ots (C3) (C6)	4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Irology Iand Hydra Difface W High Water Saturation Water Mai Sediment Drift depo Algal Mat Iron Depo Surface So Inundation	rology Indicators: ators (minimum of one received (A1) er Table (A2) er (A3) erks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) en Visible on Aerial Imagery (B)	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or St Other (Explain	d Leaves (B9) (except M 4B) 11) tebrates (B13) fide Odor (C1) ospheres on Living Roo reduced Iron (C4) reduction in Tilled Soils	ots (C3) (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5)
Irology Iand Hydra Difface W High Water Saturation Water Mai Sediment Drift depo Algal Mat Iron Depo Surface So Inundation	rology Indicators: ators (minimum of one reconstruction (A1) or Table (A2) or (A3) orks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6)	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or St Other (Explain	d Leaves (B9) (except M 4B) 11) tebrates (B13) fide Odor (C1) ospheres on Living Roo teduced Iron (C4) Reduction in Tilled Soils ressed Plants (D1) (LRR	ots (C3) (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Irology Iand Hydray Indic Surface W High Water Saturation Water Mai Sediment Drift depo Algal Mat Iron Depo Surface So Inundation Sparsely V	rology Indicators: ators (minimum of one reconstructions) atter (A1) attraction (A2) attraction (A3) attractio	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or St Other (Explain	d Leaves (B9) (except M 4B) 11) tebrates (B13) fide Odor (C1) ospheres on Living Roo teduced Iron (C4) Reduction in Tilled Soils ressed Plants (D1) (LRR	ots (C3) (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drology cland Hydrology cland Hydrology cland Hydrology cland Hydrology date of the Mary Indic Surface W High Water Saturation Water Mar Sediment Drift depo Algal Mat Iron Depo Surface So Inundation Sparsely W	rology Indicators: ators (minimum of one reconstance (A1) er Table (A2) er (A3) erks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) en Visible on Aerial Imagery (Barten) //egetated Concave Surface (Barten) erks (B6) erks	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or St Other (Explain	d Leaves (B9) (except M 4B) (11) tebrates (B13) fide Odor (C1) ospheres on Living Roo teduced Iron (C4) Reduction in Tilled Soils ressed Plants (D1) (LRR in in Remarks)	ots (C3) (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drology land Hydrology land Hydrology land Hydrology land Hydrology Mater Mar Sediment Drift depo Algal Mat Iron Depo Surface So Inundation Sparsely V d Observal	rology Indicators: ators (minimum of one reconstructions) atter (A1) ar Table (A2) a (A3) brks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) bil Cracks (B6) an Visible on Aerial Imagery (B' degetated Concave Surface (Bi artions: Present? Yes N	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or St Other (Explain B) Depth (inch	d Leaves (B9) (except M4B) (11) tebrates (B13) fide Odor (C1) ospheres on Living Roo deduced Iron (C4) deduction in Tilled Soils ressed Plants (D1) (LRR in in Remarks)	ots (C3) (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
drology land Hydrenary Indice Surface W High Water Saturation Water Man Sediment Drift depo Algal Mat Iron Depo Surface So Inundation	rology Indicators: ators (minimum of one reconstructions) atter (A1) attraction (A2) attraction (A3) attractio	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or St Other (Explain B) Depth (inch	d Leaves (B9) (except M 4B) 11) tebrates (B13) fide Odor (C1) ospheres on Living Roo teduced Iron (C4) teduction in Tilled Soils ressed Plants (D1) (LRF in in Remarks) es): 1 es):	(C6) R A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drology land Hydrenary Indic Surface W High Water Saturation Water Man Sediment Drift depo Algal Mat Iron Depo Surface Sc Inundation Sparsely W d Observa ace Water er Table Pr aration Presudes capilla	rology Indicators: ators (minimum of one reconstruction of the rec	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or St Other (Explain Depth (inch Depth (inch	d Leaves (B9) (except M4B) (11) tebrates (B13) fide Odor (C1) ospheres on Living Roo deduced Iron (C4) deduction in Tilled Soils ressed Plants (D1) (LRR in in Remarks) es): (a) (b)	ots (C3) (C6) R A) Wetland H	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
drology land Hydrenary Indic Surface W High Water Saturation Water Man Sediment Drift depo Algal Mat Iron Depo Surface So Inundation Sparsely W d Observa ace Water er Table Pr iration Presides capilla cribe Reco	rology Indicators: ators (minimum of one reconstruction of the rec	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or St Other (Explain Depth (inch Depth (inch	d Leaves (B9) (except M4B) (11) tebrates (B13) fide Odor (C1) ospheres on Living Roo deduced Iron (C4) deduction in Tilled Soils ressed Plants (D1) (LRR in in Remarks) es): (a) (b)	ots (C3) (C6) R A) Wetland H	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
drology land Hydr nary Indic Surface W High Water Saturation Water Man Sediment Drift depo Algal Mat Iron Depo Surface Sc Inundation Sparsely W d Observa ace Water er Table Pr uration Presudes capilla	rology Indicators: ators (minimum of one reconstruction of the rec	Water-Stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or St Other (Explain Depth (inch Depth (inch	d Leaves (B9) (except M4B) (11) tebrates (B13) fide Odor (C1) ospheres on Living Roo deduced Iron (C4) deduction in Tilled Soils ressed Plants (D1) (LRR in in Remarks) es): (a) (b)	ots (C3) (C6) R A) Wetland H	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)

Project/Site: DESCHUTES LWI	City/Cou	nty: Sunriver/Desch	utes	Sampling Da	te: 05-May-	10
Applicant/Owner: DESCHUTES COUNTY			State: OR	Sampling	Point:	SP 9
Investigator(s): ALISON SIGLER, ROSEMARY BAKER	Section	n, Township, Range	e: S 24	T 20 S R	10 E	
Landform (hillslope, terrace, etc.): Valley bottom	Local re	elief (concave, conv	vex, none): conca	ave Sid	ope: 0.0)% / 0.0
Subregion (LRR): LRR B	Lat.: 43.8259	L	 ong.: -121.4767		Datum:	NAD 83
ioil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slop	-			ssification: PAB	_	
re climatic/hydrologic conditions on the site typical for th		Yes No	(If no, explain		<u> </u>	
Are Vegetation, Soil, or Hydrology	significantly disturbed		nal Circumstances		es 💿 N	o O
						O O
Are Vegetation $\;\;\sqcup\;\;$, Soil $\;\;\sqcup\;\;$, or Hydrology $\;\;\sqcup\;$ Summary of Findings - Attach site map s	naturally problematic	•	d, explain any ans			es. etc.
Hydrophytic Vegetation Present? Yes No		, ,				
Hydric Soil Present? Yes No	Is	the Sampled Area				
	w	ithin a Wetland?	Yes No)		
, 3,						
Remarks: LARGE IRRIGATION COMPLEX						
On-site determination.						
VEGETATION - Use scientific names of pl	ants. Domin Specie					
Tree Stratum (Plot size:	Absolute Rel.Str % Cover Cover	at. Indicator Do	ominance Test wo	orksheet:		
,		N	umber of Dominant		1	(4)
1			hat are OBL, FACW,	OF FAC:		(A)
3	0	To	otal Number of Dom pecies Across All Str		1	(B)
4.	0 0.0		pecies Acioss Ali Sti	ata.		(b)
	0 = Total	Cover	ercent of domina	•	100.0%	(A/B)
Sapling/Shrub Stratum (Plot size:			hat Are OBL, FAC	,W, OF FAC: =	100.070	(A/D)
1			evalence Index w			
2			Total % Cove		ply by:	
34.	0 0.0		L speciles	90 x 1		_
5.	0 0.0		CW species	0 x 2		_
· ·	0 = Total	FA	C speciles	^		
Herb Stratum (Plot size:		' ' '	CU speciies .	0 x 4		_
1. Carex aquatilis	90 🛂 100.	0% OBI	L species . Numn Totals:	^ ~ ~	=	— (B)
2,		<u>%</u>				(B)
3			Prevalence Inc	dex = B/A =	1.000	
4		ny	ydrophytic Vegeta			
5			✓ Dominance Te	_		
6			Prevalence Ind			
8	0 0.0	%	Morphological data in Remar	Adaptations 1 \(\)	. 'rovide sup ate sheet)	porting
9	0 0.0	%		ydrophytic Vege	· .	(plain)
10		%		, op, r ogo		
11		1	Indicators of hyd	lria cail and wat	and hydral	o any moust
	90 = Total	Cover	e present, unless	disturbed or pro	blematic.	ogy must
Woody Vine Stratum (Plot size:		0,				
1			lydrophytic			
2		v	egetation	es • No O		
	0 = Total	cover P	resent? Ye	so NO U		
% Bare Ground in Herb Stratum: 10	% Cover of Biotic Crust (

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth		Matrix		eded to document Re	dox Featı	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-3	10YR	2/2	100%					Silt	DENSE ROOTS
3-18	7.5YR	2.5/1	100%					Muck	
								-	
Type: C=Co)=Denletio		ed Matrix, CS=Cover	ed or Coat	ed Sand Gra	ins 21 oca	tion: PL=Pore Lining	 n_M=Matrix
J.		•		Rs, unless otherwis					Problematic Hydric Soils: ³
Histosol ((1.100.000		Sandy Redox		,		1 cm Muck	•
	pedon (A2)			Stripped Matr					(A10) (LRR B)
Black His				Loamy Mucky		- 1)		Reduced Ve	
	Sulfide (A4)			Loamy Gleyed					Material (TF2)
_	Layers (A5)			Depleted Mati	rix (F3)				ain in Remarks)
_	ck (A9) (LRR	•		Redox Dark S	urface (F6)			,,
_ ·	Below Dark S		1)	Depleted Dark	k Surface ((F7)			
_	k Surface (A	•		Redox depres	sions (F8)			3	ydrophytic vegetation and
_ ·	ıck Mineral (S			Vernal Pools ((F9)			wetland hydr	yaropnytic vegetation and ology must be present.
	eyed Matrix (-							
estrictive L	ayer (if pres								
Typo:		sent).							
Type:	hes):	sent).						Hydric Soil Prese	ent? Yes • No O
Depth (inc	hes):							Hydric Soil Prese	ent? Yes No
	hes):							Hydric Soil Prese	ent? Yes • No O
Depth (inc	hes):	senty.						Hydric Soil Prese	ent? Yes No
Depth (inc	hes):	sent).						Hydric Soil Prese	ent? Yes No
Depth (inc	hes):	Sciit).						Hydric Soil Prese	ent? Yes No
Depth (inc		Sellty.						Hydric Soil Prese	ent? Yes No
Depth (inc Remarks:	у							Hydric Soil Prese	ent? Yes No
Depth (inc Remarks: ydrolog Vetland Hyd	y Irology Indi	cators:							
Depth (inc Remarks: Ydrolog Vetland Hyd	y Irology Indi cators (min	cators:	one requirec	l; check all that ar				Secondar	y Indicators (2 or more required)
Depth (inc Remarks: ydrolog Vetland Hyd Primary Indi Surface V	y Irology Indi cators (min Vater (A1)	cators: imum of c	one required	Salt Crust (E	311)			Secondar Water	y Indicators (2 or more required) Marks (B1) (Riverine)
Depth (inc Remarks: ydrolog vetland Hyd Surface V High Wat	y Irology Indi cators (min Vater (A1) er Table (A2)	cators: imum of c	one required	Salt Crust (E	311) (B12)	(010)		Secondar Water Sedim	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine)
Depth (inc Remarks: ydrolog Vetland Hyd Surface V High Wat Saturatio	y Irology Indi cators (min Vater (A1) er Table (A2)	cators:	one required	Salt Crust (E	311) (B12) ertebrates			Secondar Water Sedim Drift D	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) Jeposits (B3) Riverine)
Depth (inc Remarks: Lydrolog Vetland Hydrolog Vetland Hydrolog Surface V High Wat Saturation Water Ma	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (No	cators: imum of (Salt Crust (I Biotic Crust Aquatic Invo	311) (B12) ertebrates ulfide Odo	r (C1)		Secondar Water Sedim Drift D	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) leposits (B3) Riverine) ge Patterns (B10)
Depth (inc Remarks: Lydrolog: Vetland Hydrolog: Vetland Hydrolog:	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (Noi Deposits (B2	cators: imum of (nriverine)		Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh	311) (B12) ertebrates ulfide Odo izospheres	r (C1) s along Livin	g Roots (C3)	Secondar Water Sedim Drift D Draina	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) leposits (B3) Riverine) ge Patterns (B10) lason Water Table (C2)
Depth (inc Remarks:	y lrology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (Noi Deposits (B2 osits (B3) (Noi	cators: imum of (nriverine) 2) (Nonriver neriverine)		Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh	B11) (B12) ertebrates ulfide Odo izospheres Reduced	r (C1) s along Livin Iron (C4)		Secondar Water Sedim Drift D Draina Dry Se	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) eason Water Table (C2)
Depth (incomplete incomplete inco	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) irks (B1) (No Deposits (B2 osits (B3) (No oil Cracks (B6	cators: imum of o nriverine) (Nonriver ineriverine)	ine)	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron	311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior	or (C1) s along Livin Iron (C4) n in Plowed S		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) leposits (B3) Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9)
Depth (incomplete incomplete inco	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (No Deposits (B2) osits (B3) (No oil Cracks (B6)	cators: imum of (nriverine) () (Nonriverine) (oriverine) (oriverine) (oriverine)	ine)	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (C	r (C1) s along Livin Iron (C4) n in Plowed S		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) leposits (B3) Riverine) ge Patterns (B10) leason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3)
Depth (incomplete incomplete inco	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) irks (B1) (No Deposits (B2 osits (B3) (No oil Cracks (B6	cators: imum of (nriverine) () (Nonriverine) (oriverine) (oriverine) (oriverine)	ine)	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (C	r (C1) s along Livin Iron (C4) n in Plowed S		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) leposits (B3) Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9)
Depth (incomplete incomplete inco	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (No Deposits (B2 osits (B3) (No oil Cracks (Bi un Visible on i ained Leaves rations:	cators: imum of contiverine) (2) (Nonriverine) (3) (Nonriverine) (4) (Nonriverine) (5) (Nonriverine) (6) (Nonriverine) (7) (Nonriverine)	ine) ery (B7)	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (Cain in Rem	r (C1) s along Livin Iron (C4) n in Plowed S		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) leposits (B3) Riverine) ge Patterns (B10) leason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3)
Depth (incomplete incomplete inco	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (No Deposits (B2 osits (B3) (No oil Cracks (Bi un Visible on i ained Leaves rations:	cators: imum of of the control of th	ery (B7)	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (Cain in Rem	r (C1) s along Livin Iron (C4) n in Plowed S		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) leposits (B3) Riverine) ge Patterns (B10) leason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3)
Depth (incomplete incomplete inco	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (No Deposits (B2) sits (B3) (No oil Cracks (Be on Visible on V ained Leaves rations:	cators: imum of contiverine) (2) (Nonriverine) (3) (Nonriverine) (4) (Nonriverine) (5) (Nonriverine) (6) (Nonriverine) (7) (Nonriverine)	ery (B7)	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (C: ain in Rem	r (C1) s along Livin Iron (C4) n in Plowed S	Goils (C6)	Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallor	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) ge Patterns (B10) deson Water Table (C2) desh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) deutral Test (D5)
Depth (incomplete in the content of	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (No Deposits (B2) osits (B3) (No oil Cracks (Bo in Visible on V ained Leaves rations: Present? resent?	cators: imum of of the control of th	ery (B7) No No No No	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explant)	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (C' ain in Rem	r (C1) s along Livin Iron (C4) n in Plowed S 7) narks)	Goils (C6)	Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) ge Patterns (B10) deson Water Table (C2) desh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) deutral Test (D5)
Depth (incomplete includes capillar) Depth (incomplete incomplete	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (No Deposits (B2) sits (B3) (No oil Cracks (Ba in Visible on A ained Leaves rations: Present? resent? lary fringe)	cators: imum of contriverine) (Nonriverine)	ery (B7) No No No No No No No	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (C: ain in Rem ches):	r (C1) s along Livin Iron (C4) n in Plowed 5 7) harks)	Soils (C6)	Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallov FAC-no	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) ge Patterns (B10) deson Water Table (C2) desh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) deutral Test (D5)
Depth (incomplete includes capillar) Depth (incomplete incomplete	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (No Deposits (B2) sits (B3) (No oil Cracks (Ba in Visible on A ained Leaves rations: Present? resent? lary fringe)	cators: imum of contriverine) (Nonriverine)	ery (B7) No No No No No No No	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explant)	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (C: ain in Rem ches):	r (C1) s along Livin Iron (C4) n in Plowed 5 7) harks)	Soils (C6)	Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallov FAC-no	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) ge Patterns (B10) deson Water Table (C2) desh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) deutral Test (D5)
Depth (incomplete includes capil Describe Recognised and a control of the control	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (No Deposits (B2) sits (B3) (No oil Cracks (Ba in Visible on A ained Leaves rations: Present? resent? lary fringe)	cators: imum of contriverine) (Nonriverine)	ery (B7) No No No No No No No	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (C: ain in Rem ches):	r (C1) s along Livin Iron (C4) n in Plowed 5 7) harks)	Soils (C6)	Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallov FAC-no	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) ge Patterns (B10) deson Water Table (C2) desh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) deutral Test (D5)
Depth (income property of the	y Irology Indi cators (min Vater (A1) er Table (A2) n (A3) urks (B1) (No Deposits (B3) (No oil Cracks (Bi in Visible on V	cators: imum of (imum of	ery (B7) No No No No No No No	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (C: ain in Rem ches):	r (C1) s along Livin Iron (C4) n in Plowed 5 7) harks)	Soils (C6)	Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallov FAC-no	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) ge Patterns (B10) deson Water Table (C2) desh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) deutral Test (D5)

Project/Site: DESCHUTES LWI		City/County:	SUNRIVER/	DESCHUTES	Sampli	ng Date: <u>22-J</u>	un-10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sam	pling Point:	SP 9A
Investigator(s): ALISON SIGLER, SARAH HARTUNG		Section, To	wnship, R	ange: S 3	T 21 S	R 10 E	
Landform (hillslope, terrace, etc.): Valley bottom		Local relief	(concave,	convex, none): cor	ncave	Slope:	0.0% / 0.0
Subregion (LRR): LRR A	 Lat.: 43	.7797		Long.: -121.510	8	— Datur	n: NAD83
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes					classification		
re climatic/hydrologic conditions on the site typical for this		? Yes	. ● No ○	<u> </u>	in in Remark		
	significantly			lormal Circumstand			No O
					•		
Are Vegetation	naturally pro		-	eded, explain any a		•	ituros et
Hydrophytic Vegetation Present? Yes • No	Jowning 3a				zota, impo	Ji tant ica	ituics, ct
Hydric Soil Present? Yes ● No ○		Is the	Sampled A		\bigcirc		
Wetland Hydrology Present? Yes No		withir	a Wetland	_{d?} Yes 💿 No	O		
Remarks:							
WETLAND DITCHED THROUGHOUT SITE, SEVERAL UPLA	IND AREAS IN	NCLUDED AT	ABOUT 10)%			
VEGETATION - Use scientific names of plan	its.	Dominant					
Tree Stratum (Plot size:	Absolute % Cover		Indicator Status	Dominance Test	worksheet:		
1. Pinus contorta		100.0%		Number of Domina That are OBL, FAC	•	4	(A)
2,		0.0%		mat are obe, me	11, 01 1710.		
3		0.0%		Total Number of D Species Across All		4	(B)
4	0	0.0%					
Sapling/Shrub Stratum (Plot size:	10	= Total Cove	er	Percent of domine That Are OBL, FA		: 100.0	0% (A/B)
1. Salix exigua	20	100.0%	OBL	Prevalence Index	worksheet:		
2	0	0.0%		Total % Co	ver of:	Multiply by:	
3	0	0.0%		OBL species	20	x 1 =	20
4		0.0%		FACW species	50	x 2 =	100
5	0_	0.0%		FAC species	60	x 3 =	180
Herb Stratum (Plot size:		= Total Cove	er	FACU species		x 4 =	0
1 Carex sp.	50	✓ 50.0%	FACW	UPL species		x 5 =	0
2 Lupinus sp.	10	10.0%	FAC	Column Totals:	130	(A)	300 (B)
3 Poa sp.	40	40.0%	FAC	Prevalence I	ndex = B/A	= 2.30	08_
4	0	0.0%		Hydrophytic Vege	etation Indic	ators:	
5	0	0.0%		✓ Dominance			
6		0.0%		✓ Prevalence	Index is ≤3.0) ¹	
7		0.0%				ns ¹ (Provide	
8.	•	0.0%				separate she	et)
9-		0.0%	-		n-Vascular P		
11.		0.0%		☐ Problematic	Hydrophytic	Vegetation ¹	(Explain)
	100	= Total Cove	er	¹ Indicators of hy be present, unle			
Woody Vine Stratum (Plot size:							
1		0.0%		I beedere beeder			
2		0.0%		Hydrophytic Vegetation	Yes ● No	. (
	0	= Total Cove	er	Present?	Yes 🔍 No	, ()	
% Bare Ground in Herb Stratum: 0							
Remarks:				'			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil					Sampling Point: 9A	
Profile Descr	ription: (Describe to the d	epth needed to docu	ment the indicator or	confirm the	absence of indicators.)	
Depth	Matrix		Redox Features			
(inches) 0-20		Color (mois	t) % Type ¹	Loc ²	Texture Remarks	
	10YR 2/1 100				peat	
					-	
1Typo: C-Con	centration. D=Depletion. RM	-Poducod Matrix, CS-C	Covered or Coated Sand	Crains 2Los	ation: PL=Pore Lining. M=Matrix	
J.	ndicators: (Applicable to			Grains -Loca	Indicators for Problematic Hydric Soils: ³	
Histosol (edox (S5)		2 cm Muck (A10)	
ı = `	pedon (A2)		Matrix (S6)		Red Parent Material (TF2)	
Black Hist		Loamy M	lucky Mineral (F1) (exce	ot in MLRA 1)	Other (Explain in Remarks)	
	Sulfide (A4)		leyed Matrix (F2)			
l — ·	Below Dark Surface (A11)		l Matrix (F3) ark Surface (F6)		_	
	k Surface (A12)		I Dark Surface (F7)		³ Indicators of hydrophytic vegetation and wetland hydrology must be present,	
l — ´	ick Mineral (S1) eyed Matrix (S4)		epressions (F8)		unless disturbed or problematic.	
,	ayer (if present):					
Type:	ayor (ii prosonty.					
Depth (inc	hes):				Hydric Soil Present? Yes No	
Remarks:						
Hydrology	у					
,	Irology Indicators:					
	cators (minimum of one r		11 37		Secondary Indicators (minimum of two r	equired)
_	Vater (A1)		Stained Leaves (B9) (ex A, and 4B)	cept MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,	
	ter Table (A2)				4A, and 4B)	
✓ Saturatio			ust (B11)		☐ Drainage Patterns (B10)	
Water Ma			c Invertebrates (B13)		Dry Season Water Table (C2)	
	t Deposits (B2) osits (B3)		gen Sulfide Odor (C1) ed Rhizospheres on Livin	a Poots (C2)	☐ Saturation Visible on Aerial Imagery (C9) ☐ Geomorphic Position (D2)	
l —	or Crust (B4)		ce of Reduced Iron (C4)	y Roots (C3)	Shallow Aquitard (D3)	
l — ·	osits (B5)		Iron Reduction in Tilled	Soils (C6)	FAC-neutral Test (D5)	
	Soil Cracks (B6)		d or Stressed Plants (D1)		Raised Ant Mounds (D6) (LRR A)	
Inundation	on Visible on Aerial Imagery ((Explain in Remarks)	, (=,	Frost Heave Hummocks (D7)	
Sparsely	Vegetated Concave Surface ((Explain in Romanio)		_ ,,	
		· ·				
Field Observ	· ·	No Dept				
Surface Water		-1-	h (inches):			
Water Table P		No O Dept	h (inches):	Wetle	and Hydrology Present? Yes No	
Saturation Pre (includes capil	VAC (T)	No O Dept	h (inches): 0	vvetia	and Hydrology Present? Yes • No U	
	orded Data (stream gaug	e, monitor well, aeria	al photos, previous ins	spections), if	f available:	
	(3249		, ., ,,	/,		
Remarks:						

Project/Site: DESCHUTES LWI	City/Co	unty: Sunriver/D	eschutes	Sampling Date:	05-May-10	
Applicant/Owner: DESCHUTES COUNTY			State: OR	Sampling Po	int: SP 1	10
Investigator(s): ALISON SIGLER, ROSEMARY BAKER	Secti	on, Township, R	ange: \$ 24 T_2	20 S R 10	E	
Landform (hillslope, terrace, etc.): Floodplain	Local	relief (concave,	convex, none): flat	Slope	e:0.0%_ /_	0.0
Subregion (LRR): LRR B	Lat .: 43.8258		Long.: -121.4754		Datum: NAD 8	83
oil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 perc	ent slopes		NWI classi	fication: PEMC		
e climatic/hydrologic conditions on the site typical for this t		Yes No	(If no, explain in	Remarks.)		
Are Vegetation \square , Soil \square , or Hydrology \square s	ignificantly disturb	ed? Are "N	ormal Circumstances" p	resent? Yes	● No ○	
Are Vegetation 🔲 , Soil 🔲 , or Hydrology 🔲 r	naturally problemat	ic? (If nee	eded, explain any answe	ers in Remarks.)		
Summary of Findings - Attach site map sho	owing samplin					etc.
Hydrophytic Vegetation Present? Yes No	Jung sampin	.g po 1000		portant		
Hydric Soil Present? Yes • No •		Is the Sampled A				
Wetland Hydrology Present? Yes ● No ○	,	within a Wetland	_{1?} Yes ● No ○			
Remarks:						
OFF-SITE INVESTIGATION						
VEGETATION - Use scientific names of plan	ts. Domi	inant				
		trat. Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size:	% Cover Cove		Number of Dominant Sp		4	
1		.0%	That are OBL, FACW, or	FAC:	<u> </u>	(A)
2		.0%	Total Number of Domina		4	
4.		.0%	Species Across All Strata	-	1(E	(B)
<u>.</u>		al Cover	Percent of dominant	Species	100.00/	
Sapling/Shrub Stratum (Plot size:		ii covei	That Are OBL, FACW,	or FAC:	100.0% (A	A/B)
1	0 0	.0%	Prevalence Index wor	ksheet:		
2	0 0	.0%	Total % Cover of	of: Multiply	<i>y</i> by:	
3	0 0	.0%	OBL speci es	100 x 1 =	100	
4	_ 0	.0%	FACW species	0 x 2 =	0	
5	0 0	.0%	FAC speci es	0 x 3 =	0	
Harb Charters (District)	0 = Tota	al Cover	FACU species	0 x 4 =	0	
Herb Stratum (Plot size:	100 10	0.00/ ODI	UPL speci es -	0 x 5 =	0	
1. Carex aquatilis 2.		.0% OBL	Column Totals:	100 (A)	100	(B)
2, 3,		.0%	Prevalence Index	x = B/A =	1.000	
4.		.0%	Hydrophytic Vegetation			
5		.0%	✓ Dominance Test			
6		.0%	✓ Prevalence Index	_		
7	_ 0	.0%	Morphological Ac		ovide sunnorti	ina
8	00	.0%	data in Remarks	or on a separate	sheet)	g
9		.0%	Problematic Hyd	rophytic Vegetat	ion 1 (¹ ːplain	1)
10		.0%				
11,		.0% al Cover	1 Indicators of hydric	soil and wetlan	d hydrology m	nust
Woody Vine Stratum (Plot size:	100 = 1012	ii covei	be present, unless dis			
1	0 🗆 0	.0%				
2		.0%	Hydrophytic			
<u></u>		al Cover	Vegetation	No ○		
	over of Biotic Crust		Present? Yes	- 110 -		
% Bare Ground in Herb Stratum: () % 0						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

	ription: (Describe to t	ne aeptn ne					series of indicators.	
Depth	Matrix Color (moist)		Color (moist)	dox Featu %		Loc2	Texture	Remarks
(inches)	Color (moist)		Color (Illoist)	70	Type ¹	LUC-	rexture	Remarks
								_
			-					_
			-					_
								_
								_
1 Type: C=Co	ncentration. D=Depletion	DM_Poduc	od Matrix CS_Cover	od or Coate	nd Sand Gra	ns 21 ocat	on: PL=Pore Lining. M=	Matrix
	· · · · · · · · · · · · · · · · · · ·		·			IIS -LUCAL		
_	Indicators: (Applicab	ie to all LRF						lematic Hydric Soils: ³
Histosol (AI) pedon (A2)		Sandy Redox				1 cm Muck (A9)	•
Black His			Stripped Matr				2 cm Muck (A10)	(LRR B)
	Sulfide (A4)		Loamy Mucky				Reduced Vertic (F18)
_ , ,	Layers (A5) (LRR C)		Loamy Gleyed	d Matrix (F2	2)		Red Parent Mate	rial (TF2)
	ck (A9) (LRR D)		Depleted Mat	rix (F3)			✓ Other (Explain in	Remarks)
		4.	Redox Dark S	urface (F6)				
	Below Dark Surface (A1	1)	Depleted Dark	k Surface (F	7)			
	k Surface (A12)		Redox depres	sions (F8)			3	
	ıck Mineral (S1)		Vernal Pools ((F9)			3 Indicators of hydro	phytic vegetation and must be present.
Sandy Gle	eyed Matrix (S4)						wettaria riyarolog	, must be present.
Restrictive L	ayer (if present):							
Type:								
Type: Depth (inc	hes):						Hydric Soil Present?	Yes No
Depth (inc	hes):						Hydric Soil Present?	Yes No
Depth (inc							Hydric Soil Present?	Yes No
Depth (inc	hes):						Hydric Soil Present?	Yes No
Depth (inc							Hydric Soil Present?	Yes No
Depth (inc							Hydric Soil Present?	Yes No
Depth (inc Remarks: HYDRIC SOII	S BY SATURATION						Hydric Soil Present?	Yes No
Depth (inc Remarks: HYDRIC SOII	S BY SATURATION						Hydric Soil Present?	Yes No
Depth (income Remarks: HYDRIC SOIL HYDRIC SOIL HYDRIC SOIL HYDRIC SOIL Wetland Hydrolog)	S BY SATURATION y Irology Indicators:							
Depth (income property of the	S BY SATURATION	one requirec						Yes No dicators (2 or more required)
Depth (inc Remarks: IYDRIC SOII Hydrolog Wetland Hyd Primary Indi	S BY SATURATION y Irology Indicators:	one required	d; check all that an				Secondary In	
Depth (inc Remarks: IYDRIC SOII Hydrolog Wetland Hyd Primary Indi	S BY SATURATION y Irology Indicators: cators (minimum of c	one required		B11)			Secondary In	dicators (2 or more required)
Depth (inc Remarks: IYDRIC SOII Hydrolog Wetland Hyd Primary Indi	y Irology Indicators: cators (minimum of colorer (A1) er Table (A2)	one required	Salt Crust (I	B11) (B12)	(B13)		Secondary In: Water Mark	dicators (2 or more required)_ss (B1) (Riverine)
Depth (inc Remarks: IYDRIC SOII Hydrolog Wetland Hyc Primary Indi Surface V High Wat Saturatio	y Irology Indicators: cators (minimum of colorer (A1) er Table (A2)	one required	Salt Crust (I	B11) (B12) ertebrates (Secondary In Water Mark Sediment D Drift Depos	dicators (2 or more required) cs (B1) (Riverine) deposits (B2) (Riverine)
Depth (inc Remarks: IYDRIC SOII Hydrolog Wetland Hyd Primary Indi Surface V High Wat Saturation Water Ma	y Irology Indicators: cators (minimum of over (A1) er Table (A2) n (A3)		Salt Crust (I Biotic Crust Aquatic Inv	B11) (B12) ertebrates (ulfide Odor		Roots (C3)	Secondary Inc Water Mark Sediment D Drift Depos	dicators (2 or more required) as (B1) (Riverine) deposits (B2) (Riverine) dits (B3) Riverine) atterns (B10)
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Depth (incomplete in the content of	y Irology Indicators: cators (minimum of cover (A1) er Table (A2) in (A3) irks (B1) (Nonriverine) Deposits (B2) (Nonriver ine) cosits (B3) (Noneriverine) oil Cracks (B6)	ine)	Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates (ulfide Odor aizospheres Reduced II a Reduction	(C1) along Living ron (C4) in Plowed S		Secondary In: Water Mark Sediment Drift Depos Drainage P Dry Season Crayfish Bu Saturation	dicators (2 or more required) ss (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) satterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9)
Depth (incomplete in the content of	y Irology Indicators: cators (minimum of control (Management) er Table (A2) in (A3) irks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) in Visible on Aerial Image	ine)	Salt Crust (I Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	B11) (B12) ertebrates (ulfide Odor aizospheres Reduced II Reduction Surface (C7)	along Living ron (C4) in Plowed S		Secondary In Water Mark Sediment D Drift Depos Drainage P Dry Season Crayfish Bu Saturation Shallow Aq	dicators (2 or more required) cs (B1) (Riverine) deposits (B2) (Riverine) dits (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) uitard (D3)
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Project/Site: DESCHUTES LWI		ounty: SUNRIVER/	DESCHUTES Sampling Date: 22-Jun-10	
Applicant/Owner: DESCHUTES COUNTY			State: OR Sampling Point: SP 10	١
Investigator(s): ALISON SIGLER, SARAH HARTUNG	Sect	ion, Township, R	ange: S 3	
Landform (hillslope, terrace, etc.): Valley bottom	Local	relief (concave,	convex, none): flat Slope: 1.0% /_	0.6
Subregion (LRR): LRR A	Lat.: 43.7794		Long.: -121.5119 Datum: NAD83	
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes			NWI classification: PSSC	
are climatic/hydrologic conditions on the site typical for this	time of year?	Yes No		
	significantly disturb		Jormal Circumstances" present? Yes ● No ○	
	naturally problema			
-		•	eded, explain any answers in Remarks.)	
Summary of Findings - Attach site map sh	owing sampli	ng point loc	ations, transects, important features, e	t
Hydrophytic Vegetation Present? Yes No		Is the Sampled A	Area	
Hydric Soil Present? Yes No		within a Wetland	Vac (a) No (
Wetland Hydrology Present? Yes ● No ○		within a wetian		
Remarks:				
VEGETATION - Use scientific names of plan	ts. Dom Spec	inant ies?		
Tree Stratum (Plot size:	Absolute Rel. % Cover Cove	Strat. Indicator er Status	Dominance Test worksheet:	
1		0.0%	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)	
2,		0.0%	That are obe, mon, or me.	
3	, D	0.0%	Total Number of Dominant Species Across All Strata: 3 (B)	
4	0 0	0.0%		
Sapling/Shrub Stratum (Plot size:	0 = Tota	al Cover	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/E)
1.	0 0	0.0%	Prevalence Index worksheet:	
2		0.0%	Total % Cover of: Multiply by:	
3		0.0%	0BL species x 1 =50	
4		0.0%	FACW species $40 \times 2 = 80$	
J		0.0%	FAC species $0 \times 3 = 0$	
Herb Stratum (Plot size:	0 = Tota	al Cover	racu species	
1 Juncus effusus	20 🗸 2	0.0% FACW	UPL species x 5 =	
2. Juncus balticus	20 🗹 2	0.0% FACW	Column Totals:)
3 Carex sp.		0.0%	Prevalence Index = B/A = 1.444	
4. Carex aquatilis		0.0% OBL	Hydrophytic Vegetation Indicators:	
5		0.0%	✓ Dominance Test is > 50%	
6		0.0%	✓ Prevalence Index is ≤3.0 ¹	
8		0.0%	Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)	
9		0.0%	Wetland Non-Vascular Plants ¹	
10.		0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)	
11.		0.0%	¹ Indicators of hydric soil and wetland hydrology must	
W 1 15 01 1 (D) 1	100 = Tota	al Cover	be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot size:	0 🗆	0.09/		
1		0.0%	Hydrophytic	
1	0 1 1	/0		
1, 2,		al Cover	Vegetation Yes • No O	
2		al Cover	Present? Yes No	
2. % Bare Ground in Herb Stratum: 0		al Cover		
2		al Cover		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

	.,	Matrix		eded to documer	dox Featu			•
Depth inches)	Color (r			Color (moist)	dox Featt	Type ¹	Loc ²	Texture Remarks
0-4	10YR	2/1	100%	Color (Illoist)		туре	LUC-	peaty loam
4-14	10YR	2/1	100%					Silty Clay Loam
		-						
4-20	10YR	3/1	100%					Clay Loam
e: C=Cond	entration. D	=Depletion	n. RM=Reduce	ed Matrix, CS=Cover	ed or Coat	ed Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=Matrix
dric Soil I	ndicators:	(Applicat	ole to all LRF	Rs, unless otherwi	se noted.)		Indicators for Problematic Hydric Soils:3
Histosol (A	•			Sandy Redox				2 cm Muck (A10)
	pedon (A2)			Stripped Mat		-4) (Red Parent Material (TF2)
Black Hist Hydrogen	ic (A3) Sulfide (A4)			Loamy Mucky Loamy Gleye	-		1 MLRA 1)	✓ Other (Explain in Remarks)
Depleted	Below Dark S	Surface (A	11)	Depleted Mat				
Thick Darl	k Surface (A1	2)		Redox Dark S	•	,		³ Indicators of hydrophytic vegetation and
Sandy Mu	ck Mineral (S	1)		Depleted Dar		(F7)		wetland hydrology must be present,
	yed Matrix (Redox depres	ssions (F8)			unless disturbed or problematic.
t rictive La Type:	ayer (if pres	sent):						
-								Hydric Soil Present? Yes No
	nesi:							1.74.10 0011 10001111 163 0 140 0
Depth (incl marks: UMED HY	· .	D ON PEI	RSISTENT SA	ATURATION				ngano com recommendado no como como como como como como como
marks:	DRIC BASE	D ON PEI	RSISTENT SA	ATURATION				ingario con in sociality (i.e. a control in the con
marks: JMED HY drology	DRIC BASE	cators:						
marks: JMED HY drology land Hyd nary India	DRIC BASE / rology Indicators (mini	cators:		l; check all that a	1 37			Secondary Indicators (minimum of two req
Irology land Hyd nary Indic	DRIC BASE	cators: mum of		l; check all that a	ned Leaves	(B9) (except	t MLRA	
Irology land Hyd nary Indic	DRIC BASE rology Indicators (minimater (A1)) er Table (A2)	cators: mum of		l; check all that a	ned Leaves and 4B)	(B9) (except	I MLRA	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2,
narks: JMED HY drology land Hyd nary India Surface V High Wat	DRIC BASE rology Indi cators (mini vater (A1) er Table (A2) n (A3)	cators: mum of		l; check all that a Water-Stair 1, 2, 4A, ar	ned Leaves ad 4B) B11)		: MLRA	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Irology Iand Hyd hary India Surface V High Wat Saturation Water Ma	DRIC BASE rology Indi cators (mini vater (A1) er Table (A2) n (A3)	cators: mum of		l; check all that a Water-Stair 1, 2, 4A, ar Salt Crust (ned Leaves ad 4B) B11) ertebrates	(B13)	: MLRA	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2)
Irology Iand Hyd hary India Surface V High Wat Saturation Water Ma	prology Indicators (minivator (A1) er Table (A2) in (A3) urks (B1)	cators: mum of		I; check all that a Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv	ned Leaves ad 4B) B11) ertebrates sulfide Odo	(B13)		Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Irology Indicate Water Ma	prology Indicators (minivator (A1) er Table (A2) in (A3) urks (B1)	cators: mum of		I; check all that a Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv	ned Leaves and 4B) B11) ertebrates sulfide Odo nizospheres	(B13) r (C1) s on Living Ro		Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Irology Indicate Water Ma	rology Indicators (minicators	cators: mum of		I; check all that a Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence o	ned Leaves ad 4B) B11) ertebrates sulfide Odo nizospheres	(B13) r (C1) s on Living Ro	oots (C3)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
drology land Hyd nary India Surface V High Wate Ma Sediment Drift depo	rology Indicators (minicators	cators: mum of		I; check all that a Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence of Recent Iror	ned Leaves ad 4B) B11) ertebrates sulfide Odo nizospheres Reduced n Reductior	(B13) r (C1) s on Living Ro Iron (C4)	oots (C3)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5)
Irology Iand Hyd hary India Surface V High Wate Ma Sediment Drift depot Algal Mat Iron Depot Surface S	rology Indicators (minibators	cators: mum of	one required	I; check all that a Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence of Recent Iror	ned Leaves ad 4B) B11) ertebrates fulfide Odo nizospheres Reduced n Reduction Stressed P	(B13) r (C1) s on Living Ro Iron (C4) n in Tilled Soi lants (D1) (Ll	oots (C3)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
drology cland Hyd nary Indic Surface V High Wate Saturation Water Ma Sediment Drift depot Algal Mat Iron Depot Surface S Inundation	rology Indicators (minicators	cators: mum of 2)) Aerial Ima	one required	I; check all that a Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence or Recent Iror Stunted or	ned Leaves ad 4B) B11) ertebrates fulfide Odo nizospheres Reduced n Reduction Stressed P	(B13) r (C1) s on Living Ro Iron (C4) n in Tilled Soi lants (D1) (Ll	oots (C3)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
JIMED HY JIPOLOGY Jand Hyd Mary Indic Surface V High Wate Saturation Water Ma Sediment Drift depo Algal Mat Iron Depo Surface S Inundatio Sparsely d Observation	Prology Indicators (minibators	cators: mum of 2)) Aerial Ima	one required gery (B7) face (B8)	I; check all that a Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence or Recent Iror Stunted or Other (Expl	med Leaves and 4B) B11) ertebrates Gulfide Odo nizospheres Reduced n Reduction Stressed P ain in Rem	(B13) r (C1) s on Living Ro Iron (C4) n in Tilled Soi lants (D1) (Ll	oots (C3)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drology tland Hyd nary Indic Surface W High Water Ma Sediment Drift depo Algal Mat Iron Depo Surface S Inundatio Sparsely	Prology Indicators (minibators	cators: mum of 2)) 6) Aerial Ima oncave Sur	gery (B7) face (B8)	I; check all that a Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence or Recent Iror Stunted or Other (Expi	med Leaves and 4B) B11) ertebrates Gulfide Odo nizospheres Reduced n Reduction Stressed P ain in Rem	(B13) r (C1) s on Living Ro Iron (C4) n in Tilled Soi lants (D1) (Ll	oots (C3)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drology tland Hyd mary Indic Surface W High Water Ma Sediment Drift depo Algal Mat Iron Depo Surface S Inundation	prology Indicators (minivator (A1) er Table (A2) in (A3) arks (B1) Deposits (B2) or Crust (B4) osits (B5) oil Cracks (B on Visible on Vegetated Co ations: Present?	cators: mum of 2)) Aerial Ima	gery (B7) face (B8)	I; check all that a Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence or Recent Iror Stunted or Other (Expi	med Leaves ad 4B) B11) ertebrates sulfide Odo nizospheres Reduced n Reductior Stressed P ain in Rem	(B13) r (C1) s on Living Ro Iron (C4) n in Tilled Soi lants (D1) (Ll	oots (C3) Is (C6) RR A)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
drology tland Hyd mary Indic Surface W High Water Ma Sediment Drift depo Algal Mat Iron Depo Surface S Inundation Sparsely W Id Observator	prology Indicators (minivator (A1) er Table (A2) in (A3) arks (B1) Deposits (B3) or Crust (B4) oil Cracks (B5) oil Cracks (B5) oil Cracks (B5) oil Cracks (B5) or Crust (B4) estits (B5) oil Cracks (B5) or Crust (B4) estits (B5) oil Cracks (B5) oil Cracks (B5) oil Cracks (B5) estits (B5) oil Cracks (B5) estits (B5) est	cators: mum of 2) Aerial Ima concave Sur Yes Yes	gery (B7) face (B8) No No	I; check all that a Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence or Recent Iror Stunted or Other (Expl	med Leaves and 4B) B11) ertebrates Gulfide Odo nizospheres Reduced n Reduction Stressed P ain in Rem	(B13) r (C1) s on Living Ro Iron (C4) n in Tilled Soi lants (D1) (Li arks)	oots (C3) Is (C6) RR A)	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drology tland Hyd nary Indic Surface W High Wate Saturation Water Ma Sediment Drift depo Algal Mat Iron Depo Surface S Inundation Sparsely d Observation er Table Politation Presidudes capill	prology Indicators (minivator (A1) er Table (A2) in (A3) arks (B1) Deposits (B3) or Crust (B4) oil Cracks (B5) oil Cracks (B5) oil Cracks (B5) oil Cracks (B5) or Crust (B4) estated Color (Cracks (B5)) estated Color (Cracks (B5)) estated Color (Cracks (B5)) estated Color (B5) est	cators: mum of 2) 6) Aerial Ima oncave Sur Yes Yes Yes	gery (B7) face (B8) No No No No	I; check all that a Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence or Recent Iror Stunted or Other (Expi	med Leaves ad 4B) B11) ertebrates sulfide Odo nizospheres Reduced n Reductior Stressed P ain in Rem ches):	(B13) r (C1) s on Living Ro Iron (C4) n in Tilled Soi lants (D1) (Li arks)	oots (C3) Is (C6) RR A) Wetla	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
drology land Hyd mary India Surface W High Water Ma Sediment Drift depo Algal Mat Iron Depo Surface S Inundatio Sparsely d Observa ace Water er Table Pouration Pre- udes capill	prology Indicators (minivator (A1) er Table (A2) in (A3) arks (B1) Deposits (B3) or Crust (B4) oil Cracks (B5) oil Cracks (B5) oil Cracks (B5) oil Cracks (B5) or Crust (B4) estated Color (Cracks (B5)) estated Color (Cracks (B5)) estated Color (Cracks (B5)) estated Color (B5) est	cators: mum of 2) 6) Aerial Ima oncave Sur Yes Yes Yes	gery (B7) face (B8) No No No No	I; check all that a Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence or Recent Iror Stunted or Other (Expi	med Leaves ad 4B) B11) ertebrates sulfide Odo nizospheres Reduced n Reductior Stressed P ain in Rem ches):	(B13) r (C1) s on Living Ro Iron (C4) n in Tilled Soi lants (D1) (Li arks)	oots (C3) Is (C6) RR A) Wetla	Secondary Indicators (minimum of two req Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)

Project/Site: DESCHUTES LWI		City/County:	Sunriver/Des	schutes	Sampling	Date: 06-	May-10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Samp	ling Point:	SP 11
nvestigator(s): ALISON SIGLER, ROSEMARY BAKER		Section, Tow	vnship, Ra	inge: S 24	T 20 S	R 10 E	
Landform (hillslope, terrace, etc.): Floodplain		Local relief (d	concave, co	convex, none): flat		Slope:	0.0% / 0.0
ubregion (LRR): LRR B	Lat.: 43	.8258		Long.: -121.4754		Datu	m: NAD 83
oil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 per		.0200			assification:		-
e climatic/hydrologic conditions on the site typical for this		Yes	● No ○		_		
	significantly			ormal Circumstance		Yes •	No O
	naturally pro				•		
Summary of Findings - Attach site map sh				ded, explain any an			tures etc
<u> </u>	ownig sai	inpling pol	Tit loca	tions, transco	its, impor	tarit ica	tures, etc.
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○		Is the S	ampled Ar				
		within a	a Wetland?	_? Yes 💿 No (\supset		
,							
Remarks:							
OFF-SITE INVESTIGATION							
/EGETATION - Use scientific names of plar	ntc.	Dominant					
PEGETATION - OSE SCIENTING Harries of plan		_Species? _					
Tree Stratum (Plot size:	Absolute % Cover		ndicator Status	Dominance Test v			
1,	0	0.0%		 Number of Dominan That are OBL, FACW 		1	(A)
2		0.0%					
3		0.0%		Total Number of Do Species Across All S		1	(B)
4	0	0.0%					
Sapling/Shrub Stratum (Plot size:	0	= Total Cover		Percent of domination That Are OBL, FA		100.	0% (A/B)
1	0	0.0%		Prevalence Index	workshoot		
2.		0.0%		Total % Cov		Multiply by:	
3.		0.0%		OBL species			100
4.	0	0.0%		FACW species		. 2 =	0
5	0	0.0%		FAC species		: 3 =	0
	0	= Total Cover		FACU species	0	. 4 =	0
Herb Stratum (Plot size:				UPL species	x	5 =	0
1. Carex aquatilis			OBL	Column Totals:	100((A)	100 (B)
2		0.0%		Prevalence Ir	ndex = R/A =	1.0	00
34	_	0.0%				-	
5		0.0%		Hydrophytic Veget Dominance T		UI S.	
6		0.0%		✓ Prevalence II		1	
7	0	0.0%		Morphologica	I Adaptations	s 1 ¹ rovide	supportina
8		0.0%		data in Rema	rks or on a se	parate she	et)
9 10		0.0%		Problematic I	Hydrophytic V	egetation	1 (¹ ːplain)
10 11.		0.0%					
	100	= Total Cover	,	1 Indicators of hy be present, unless	dric soil and	wetland hy	drology must
Woody Vine Stratum (Plot size:			-	be present, unless	s aisturbea Of	problemat	IG.
-	0	0.0%					
1,		0.0%		Hydrophytic			
1. 2.	0	0.076		Vometetiem			
1	0	= Total Cover	.	Vometetiem	es • No	0	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

	ription: (Describe to t	ne deptir ne					serioe of indicators.)	
Depth	Color (moist)		Color (moist)	dox Featu %		Loc2	Texture	Remarks
(inches)	Color (moist)	76	Coloi (illoist)	70	Type ¹	LUC-	rexture	Remarks
			-					
								
1 Type: C=Co	ncentration. D=Depletion	DM_Poduc	ad Matrix CS_Cover	od or Coat	nd Sand Gra	ne 21 ocat	on: PL=Pore Lining. M=	Matrix
	· · · · · · · · · · · · · · · · · · ·					IIS -LUCAL		
	ndicators: (Applicab	le to all LRF						lematic Hydric Soils: ³
Histosol (•		Sandy Redox				1 cm Muck (A9)	(LRR C)
	pedon (A2)		Stripped Matr				2 cm Muck (A10)	(LRR B)
Black His	ic (A3) Sulfide (A4)		Loamy Mucky	Mineral (F	1)		Reduced Vertic (F18)
	• •		Loamy Gleyed	d Matrix (F2	2)		Red Parent Mate	rial (TF2)
	Layers (A5) (LRR C)		Depleted Mat	rix (F3)			✓ Other (Explain in	Remarks)
	k (A9) (LRR D)		Redox Dark S	urface (F6)			_ ` ` `	•
	Below Dark Surface (A1	1)	Depleted Dark	k Surface (F	7)			
	k Surface (A12)		Redox depres	sions (F8)			2	
Sandy Mu	ıck Mineral (S1)		Vernal Pools (3 Indicators of hydrol	phytic vegetation and
Sandy Gle	eyed Matrix (S4)			. ,			wettand nydrology	must be present.
	ayer (if present):							
Restrictive L	ajo. (p. 000).							
Type:	ауот (п ртосоль).							
Type:							Hydric Soil Present?	Yes No
Type: Depth (inc							Hydric Soil Present?	Yes No
Type: Depth (inc Remarks:	hes):						Hydric Soil Present?	Yes No
Type: Depth (inc Remarks:							Hydric Soil Present?	Yes No
Type: Depth (inc Remarks:	hes):						Hydric Soil Present?	Yes No
Type: Depth (inc Remarks:	hes):						Hydric Soil Present?	Yes No
Type: Depth (inc Remarks: IYDRIC SOII	hes):						Hydric Soil Present?	Yes No
Type:	hes): BY SATURATION						Hydric Soil Present?	Yes No
Type:	hes):						Hydric Soil Present?	Yes No
Type:	hes): BY SATURATION	one requirec	l; check all that ag	(ylac				Yes No dicators (2 or more required)
Type:	hes): BY SATURATION y Irology Indicators:	one required	l; check all that an				Secondary Inc	
Type:	hes): BY SATURATION y Irology Indicators: cators (minimum of c	one required		B11)			Secondary Inc	dicators (2 or more required)
Type:	bhes): BY SATURATION y Irology Indicators: cators (minimum of colored (A1)) er Table (A2)	one required	Salt Crust (I	311) (B12)	(B13)		Secondary Inc Water Mark Sediment D	dicators (2 or more required) cs (B1) (Riverine) deposits (B2) (Riverine)
Type:	bhes):	one required	Salt Crust (I Biotic Crust Aquatic Inv	311) (B12) ertebrates (Secondary Inc Water Mark Sediment D Drift Depos	dicators (2 or more required) ss (B1) (Riverine) deposits (B2) (Riverine) its (B3) Riverine)
Type:	bes):		Salt Crust (I Biotic Crust Aquatic Inv	311) (B12) ertebrates (ulfide Odor	(C1)	Roots (C3)	Secondary Inc Water Mark Sediment D Drift Depos	dicators (2 or more required) ss (B1) (Riverine) deposits (B2) (Riverine) its (B3) Riverine) atterns (B10)
Type:	Jerology Indicators: cators (minimum of covater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriver		Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh	311) (B12) ertebrates (ulfide Odor izospheres	(C1) along Living	Roots (C3)	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa	dicators (2 or more required) as (B1) (Riverine) deposits (B2) (Riverine) dits (B3) Riverine) atterns (B10) Water Table (C2)
Type:	bes):		Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh	B11) (B12) ertebrates (ulfide Odor izospheres Reduced I	(C1) along Living ron (C4)		Secondary Inc Water Mark Sediment D Drift Depos Drainage Po Dry Season Crayfish Bu	dicators (2 or more required) (S (B1) (Riverine) (Deposits (B2) (Riverine) (Its (B3) Riverine) (Its (B3) Riverine) (Its (B10) (Its (
Type:	Mes):	ine)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates (ulfide Odor izospheres Reduced I Reduction	(C1) along Living ron (C4) in Plowed S		Secondary Inc Water Mark Sediment D Drift Depos Drainage Po Dry Season Crayfish Bu Saturation	dicators (2 or more required) ss (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9)
Type:	bhes):	ine)	Salt Crust (I Biotic Crust Aquatic Invi Hydrogen S Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates (ulfide Odor izospheres Reduced I Reduction Surface (C7	along Living ron (C4) in Plowed S		Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation S Shallow Aq	dicators (2 or more required) cs (B1) (Riverine) deposits (B2) (Riverine) dits (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) uitard (D3)
Type:	Mes):	ine)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates (ulfide Odor izospheres Reduced I Reduction Surface (C7	along Living ron (C4) in Plowed S		Secondary Inc Water Mark Sediment D Drift Depos Drainage Po Dry Season Crayfish Bu Saturation	dicators (2 or more required) cs (B1) (Riverine) deposits (B2) (Riverine) dits (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) uitard (D3)
Type:	hes):	ine) ery (B7)	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	B11) (B12) ertebrates (ulfide Odor izospheres Reduced I Reduction Surface (C7	along Living ron (C4) in Plowed S		Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation S Shallow Aq	dicators (2 or more required) cs (B1) (Riverine) deposits (B2) (Riverine) dits (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) uitard (D3)
Type:	bes):	ine) ery (B7)	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	(B12) ertebrates (ulfide Odor izospheres Reduced I Reduction Surface (C7	along Living ron (C4) in Plowed S		Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation S Shallow Aq	dicators (2 or more required) cs (B1) (Riverine) deposits (B2) (Riverine) dits (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) uitard (D3)
Type:	bes):	ine) ery (B7) No •	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	(B12) ertebrates (ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Rema	along Living ron (C4) in Plowed S		Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation S Shallow Aq	dicators (2 or more required) cs (B1) (Riverine) deposits (B2) (Riverine) dits (B3) Riverine) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) uitard (D3)
Type:	hes):	ine) ery (B7) No • No •	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	(B12) ertebrates (ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Rema	along Living ron (C4) in Plowed S	pils (C6)	Secondary Ind Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation Shallow Aq FAC-neutra	dicators (2 or more required) as (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) Riverine) Deposits (B10) Deposits (B10) Deposits (B10) Deposits (B2) (Riverine) Dep
Type:	bes):	ine) ery (B7) No • No •	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	(B12) ertebrates (ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Rema	along Living ron (C4) in Plowed S	pils (C6)	Secondary Inc Water Mark Sediment D Drift Depos Drainage Pa Dry Season Crayfish Bu Saturation S Shallow Aq	dicators (2 or more required) as (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) Riverine) Deposits (B10) Deposits (B10) Deposits (B10) Deposits (B2) (Riverine) Dep
Type:	bes):	ine) ery (B7) No No No No No No No No No No	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl. Depth (inc	(B12) ertebrates (ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	wetlar	Secondary Inc Water Mark Sediment D Drift Depos Drainage Poor Crayfish Bu Saturation S Shallow Aq FAC-neutra	dicators (2 or more required) as (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) Riverine) Deposits (B10) Deposits (B10) Deposits (B10) Deposits (B2) (Riverine) Dep
Type:	bes):	ine) ery (B7) No No No No No No No No No No	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl. Depth (inc	(B12) ertebrates (ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	wetlar	Secondary Inc Water Mark Sediment D Drift Depos Drainage Poor Crayfish Bu Saturation S Shallow Aq FAC-neutra	dicators (2 or more required) as (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) Riverine) Deposits (B10) Deposits (B10) Deposits (B10) Deposits (B2) (Riverine) Dep
Type:	bes):	ine) ery (B7) No No No No No No No No No No	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl. Depth (inc	(B12) ertebrates (ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	wetlar	Secondary Inc Water Mark Sediment D Drift Depos Drainage Poor Crayfish Bu Saturation S Shallow Aq FAC-neutra	dicators (2 or more required) as (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) Riverine) Deposits (B10) Deposits (B10) Deposits (B10) Deposits (B2) (Riverine) Dep
Type:	bes):	ine) ery (B7) No No No No No No No No No No	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl. Depth (inc	(B12) ertebrates (ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	wetlar	Secondary Inc Water Mark Sediment D Drift Depos Drainage Poor Crayfish Bu Saturation S Shallow Aq FAC-neutra	dicators (2 or more required) as (B1) (Riverine) Deposits (B2) (Riverine) Deposits (B3) Riverine) Deposits (B10) Deposits (B10) Deposits (B10) Deposits (B2) (Riverine) Dep

Project/Site: DESCHUTES LWI			City/County:	SUNRIVER/	DESCHUTES	Sampling Date: 22-J	Jun-10
Applicant/Owner: DESCHUTES COUNTY					State: OR	Sampling Point:	SP 11A
Investigator(s): ALISON SIGLER, SARAH HARTU	ING		Section, To	wnship, R	ange: S 3 T 2	1 S R 10 E	
Landform (hillslope, terrace, etc.): Floodpla	in		Local relief	(concave,	convex, none): concave	Slope:	0.0% / 0.0 °
Subregion (LRR): LRR A		Lat.: 43	7781		Long.: -121.5169	Datur	m: NAD83
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 i	narcant slangs					fication: PSSC	
Are climatic/hydrologic conditions on the site		ime of year	? Yes	● No ○			
Are Vegetation, Soil, or Hyd		ignificantly			lormal Circumstances" p		No O
		aturally pro			-		
Summary of Findings - Attach s					eded, explain any answe ations, transects		atures, et
Hydrophytic Vegetation Present? Yes	No O					<u> </u>	
Hydric Soil Present? Yes	No O		Is the	Sampled A	Area ₄₂ Yes ● No ○		
Wetland Hydrology Present? Yes	No O		within	a Wetland	d? Yes ♥ No ∪		
Remarks:							
VEGETATION - Use scientific na	mes of plant	S.	Dominant				
	<u> </u>	Absolute			Dominance Test work	sheet:	
Tree Stratum (Plot size:		% Cover	Cover	Status	Number of Dominant Spe		
1		0 0	0.0%		That are OBL, FACW, or	FAC: 1	(A)
2		0	0.0%		Total Number of Domina		
3		0	0.0%		Species Across All Strata	:1	(B)
τ		0	= Total Cove		Percent of dominant S		20/ />
Sapling/Shrub Stratum (Plot size:)		- Total Cove	-1	That Are OBL, FACW,	or FAC:100.0	0% (A/B)
1,		0	0.0%		Prevalence Index worl	ksheet:	
2		0	0.0%		Total % Cover o	f: Multiply by:	
3		0	0.0%		OBL speci es	65 x 1 =	65
4		0	0.0%		FACW species	0 x 2 =	0
5			0.0%		FAC speciles	<u>15</u> x 3 =	45
Herb Stratum (Plot size:		0	= Total Cove	er	FACU speci es	0 x 4 =	0
1 Carex aquatilis		65	✓ 81.3%	OBL	UPL speci es —	<u> </u>	0
2 Juncus balticus		15	18.8%	FAC	Column Totals:	80 (A)	110 (B)
3		0	0.0%		Prevalence Index	= B/A = 1.37	75
4		0	0.0%		Hydrophytic Vegetatio	on Indicators:	
5		0	0.0%		✓ Dominance Test i	s > 50%	
6			0.0%		✓ Prevalence Index	: is ≤3.0 ¹	
7		•	0.0%			laptations 1 (Provide	
8.—			0.0%			or on a separate she	et)
9			0.0%		Wetland Non-Vas		
11.		•	0.0%		☐ Problematic Hydr	ophytic Vegetation ¹	(Explain)
		80	= Total Cove	er	¹ Indicators of hydric s be present, unless dis		
Woody Vine Stratum (Plot size:)				be present, unless dis	turbed or problemat	ic.
1		0_	0.0%				
2		0	0.0%		Hydrophytic	_	
		0	= Total Cove	er	Vegetation Present? Yes	● No ○	
% Bare Ground in Herb Stratum: 20							
Remarks:					1		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: 11A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth % Loc2 Color (moist) % Texture Remarks (inches) Color (moist) Type 1 includes some duff 10YR 100% 0-6 3/2 peat 2 matrix colors 6-20 10YR 2/1 30 peat 3/2 70% 10YR С 10YR 3/4 10% PL Clay Loam ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 ✓ Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ☐ Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No O **Hydric Soil Present?** Yes Depth (inches): Remarks: Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) High Water Table (A2) 4A, and 4B) ✓ Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) U Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes O No 💿 Depth (inches): Surface Water Present? Yes \bigcirc No 💿 Water Table Present? Depth (inches): Yes ● No ○ Wetland Hydrology Present? Saturation Present? Yes No O Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks:

Project/Site: DESCHUTES LWI		City/County:_	Sunriver/De	eschutes	Sampli	ing Date:_	06-May-10)
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sam	pling Poir	nt: S	SP 12
Investigator(s): ALISON SIGLER, ROSEMARY BAKER		Section, To	wnship, Ra	ange: S 26	T 20 S	R 10 E	-	
Landform (hillslope, terrace, etc.): Floodplain		Local relief	(concave, c	convex, none): conc	ave	Slope:		6 / 0.0
Subregion (LRR): LRR B	 Lat.: 43			Long.: -121.4896		_ ·	atum: NA	— ——— AD 83
		.0173						
oil Map Unit Name: Not available	:	. Voc	● No ○		assification	-		
e climatic/hydrologic conditions on the site typical for this	•			,			No	\bigcirc
	significantly			ormal Circumstance	•		U NU	0
re Vegetation	naturally pro			eded, explain any an			eature	s etc
<u> </u>	lowing sai		iiit ioca	itions, transec	ts, impo	n tarit i	catuic	3, 610.
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	rea				
Hydric Soil Present? Yes No		within	a Wetland	_{l?} Yes 💿 No 🤇	\supset			
Wetland Hydrology Present? Yes No								
Remarks:								
OFF-SITE INVESTIGATION, COULD NOT ACCESS LOT FF	ROM LAND							
VEGETATION	. 1 .	D						
VEGETATION - Use scientific names of pla	nts.	Dominant Species? _						
Tree Stratum (Plot size:	Absolute % Cover		Indicator Status	Dominance Test w	orksheet:			
·	_	0.0%	Jiaius	Number of Dominan That are OBL, FACW			1	(A)
1. 2.		0.0%		That are OBL, FACW	, UI FAC.			(A)
3		0.0%		Total Number of Doi			2	(D)
4.		0.0%		Species Across All St	ırata:	_		(B)
	0	= Total Cove		Percent of domina			0.00/	(A (D)
Sapling/Shrub Stratum (Plot size:				That Are OBL, FA	CW, or FAC	:	0.0%	(A/B)
1. Salix geyeriana	15	100.0%		Prevalence Index	worksheet:			
2	0	0.0%		Total % Cov	er of:	Multiply	by:	
3	0	0.0%		OBL species	85	x 1 =	85	
4	0	0.0%		FACW species	0	x 2 =	0	-
5		0.0%		FAC species	0	x 3 =	0	_
Harb Chartura (Diet sies)	15	= Total Cove	r	FACU speci es	0	x 4 =	0	
Herb Stratum (Plot size:	0.5	100.00/	ODI	UPL speci es	0	x 5 =	0	-
1. Carex aquatilis		100.0%	OBL	Column Totals:	85	(A)	85	(B)
2		0.0%		Prevalence In	idex = B/A	= .	1.000	
4.	_	0.0%				-		
5		0.0%		Hydrophytic Veget Dominance Telescope				
6		0.0%		✓ Prevalence Ir				
7		0.0%		Morphologica			/ide sunn	ortina
8,		0.0%		data in Rema	rks or on a	separate	sheet)	- ci ting
9		0.0%		Problematic I	Hydrophytic	: Vegetation	on 1 (¹ κρ	lain)
10,		0.0%						
11,				1 Indicators of hy	dric soil an	d wetland	hydrolog	y must
Woody Vine Stratum (Plot size:)	85	= Total Cove	•	be present, unless	disturbed	or probler	natic.	
	0	0.0%						
1		0.0%		Hydrophytic				
2		= Total Cove		Vegetation	es • N	• •		
		- TOTAL COVE	•	Present? Y	co 🕒 N	U \smile		
% Bare Ground in Herb Stratum: 15 %	Cover of Bioti							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix		Re	dox Featu	res			
(inches)	Color (moist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks
				_				
	-							
	-			_		-		
	-							
Туре: С=Соі	ncentration. D=Depletion	ı. RM=Reduce	d Matrix, CS=Cover	ed or Coate	ed Sand Gra	ns ² Locatio	n: PL=Pore Lining. M	I=Matrix
lydric Soil	ndicators: (Applicab	le to all LRR:	s, unless otherwi	se noted.)			Indicators for Pro	blematic Hydric Soils:3
Histosol (Sandy Redox	(S5)			1 cm Muck (A9)	
	pedon (A2)		Stripped Matr	ix (S6)			2 cm Muck (A10	•
Black Hist	• •		Loamy Mucky	/ Mineral (F	1)		Reduced Vertic	
_	Sulfide (A4)		Loamy Gleyed	d Matrix (F2)		Red Parent Mat	• •
_	Layers (A5) (LRR C)		Depleted Mat	rix (F3)			✓ Other (Explain i	, ,
_	k (A9) (LRR D)		Redox Dark S	Surface (F6)			_ ` '	,
_ `	Below Dark Surface (A1	i)	Depleted Darl	k Surface (F	7)			
_	k Surface (A12)		Redox depres	ssions (F8)			3	ophytic vegetation and
_	ick Mineral (S1)		Vernal Pools	(F9)				gy must be present.
	eyed Matrix (S4)							
estrictive L	ayer (if present):							
Type:							Hvdric Soil Present	? Yes • No O
Depth (inc	hes):						Hydric Soil Present	? Yes • No O
-	hes):						Hydric Soil Present	? Yes • No ·
Depth (inc	hes):						Hydric Soil Present	? Yes • No ·
Depth (inc	· <u></u>						Hydric Soil Present	? Yes • No ·
Depth (inc	· <u></u>						Hydric Soil Present	? Yes • No ·
Depth (inc demarks: PORIC SOIL	S BY SATURATION						Hydric Soil Present	? Yes • No ·
Depth (inc Remarks: YDRIC SOIL	S BY SATURATION						Hydric Soil Present	? Yes • No ·
Depth (inc Remarks: YDRIC SOIL Ydrology Vetland Hyd	S BY SATURATION y Irology Indicators:							
Depth (inc Remarks: YDRIC SOIL Ydrolog Vetland Hyc Primary Indi	S BY SATURATION y Irology Indicators: cators (minimum of c	ne required					Secondary I	ndicators (2 or more required)
Depth (inc Remarks: YDRIC SOIL Ydrolog Vetland Hydrimary Indi	y Irology Indicators: cators (minimum of colored)	ne required:	Salt Crust (B11)			Secondary II	ndicators (2 or more required) rks (B1) (Riverine)
Depth (inc Remarks: YDRIC SOIL Ydrolog Vetland Hydrolog Surface V	y Irology Indicators: cators (minimum of colorer (A1) er Table (A2)	ne required;	Salt Crust (I	B11) (B12)			Secondary II	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine)
Depth (inc Remarks: YDRIC SOII Ydrolog Vetland Hyd Primary Indi Surface V High Wat	y Irology Indicators: cators (minimum of color (A1) er Table (A2) n (A3)	ne required	Salt Crust (I Biotic Crust Aquatic Inv	B11) (B12) ertebrates (,		Secondary II Water Mai Sediment Drift Depo	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine)
Depth (inc Remarks: YDRIC SOIL Ydrolog: Wetland Hyc Primary Indi Surface V High Wat Saturation Water Ma	y Irology Indicators: cators (minimum of colorater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine)		Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S	B11) (B12) ertebrates (Gulfide Odor	(C1)		Secondary II Water Ma Sediment Drift Depo	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10)
Depth (inc Remarks: YDRIC SOIL Ydrolog: Vetland Hyc Primary Indi Surface V High Wat Saturation Water Ma Sediment	Jerology Indicators: cators (minimum of colored (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriver		Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh	B11) (B12) ertebrates (Sulfide Odor nizospheres	(C1) along Living		Secondary II Water Mai Sediment Drift Depo Drainage Dry Seaso	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2)
Depth (inc Remarks: YDRIC SOIL Ydrolog: Vetland Hyc Primary Indi Surface V High Wat Saturation Water Ma Sediment Drift depo	y Irology Indicators: cators (minimum of covater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine)		Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh	B11) (B12) ertebrates (Sulfide Odor nizospheres f Reduced II	(C1) along Living ron (C4)	Roots (C3)	Secondary II Water Mai Sediment Drift Depo Drainage Dry Seaso Crayfish B	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2)
Depth (inc Remarks: YDRIC SOIL Ydrology Vetland Hyc Primary Indi Surface V High Wat V Saturation Water Ma Sediment Drift depo	y Irology Indicators: cators (minimum of colored (A1) er Table (A2) in (A3) irks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6)	ine)	Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates (Sulfide Odor nizospheres f Reduced II n Reduction	(C1) along Living ron (C4) in Plowed S	Roots (C3)	Secondary II Water Mai Sediment Drift Depo Drainage Dry Seaso Crayfish B	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9)
Depth (inc Remarks: YDRIC SOIL Ydrolog Vetland Hydrimary Indi Surface V High Wate Saturation Water Ma Sediment Drift depo	Jerology Indicators: cators (minimum of colored (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Image	ine)	Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	B11) (B12) ertebrates (Sulfide Odor nizospheres f Reduced II n Reduction Surface (C7)	(C1) along Living ron (C4) in Plowed S	Roots (C3)	Secondary II Water Mal Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturation Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3)
Depth (inc Remarks: YDRIC SOIL Ydrolog Vetland Hydrolog Ydrimary Indi Surface V High Wate V Saturation Water Ma Sediment Drift depo	y Irology Indicators: cators (minimum of colored (A1) er Table (A2) in (A3) irks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6)	ine)	Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates (Sulfide Odor nizospheres f Reduced II n Reduction Surface (C7)	(C1) along Living ron (C4) in Plowed S	Roots (C3)	Secondary II Water Mal Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturation Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9)
Depth (inc Remarks: YDRIC SOIL Ydrolog Vetland Hydrolog Ydrimary Indi Surface V High Wate V Saturation Water Ma Sediment Drift depo	Jacobs Processing Services (1998) Jacobs Processing Pr	ine) ery (B7)	Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	B11) (B12) ertebrates (Sulfide Odor nizospheres f Reduced II n Reduction Surface (C7) lain in Rema	(C1) along Living ron (C4) in Plowed S	Roots (C3)	Secondary II Water Mal Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturation Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3)
Depth (inc Remarks: YDRIC SOIL Ydrolog: Vetland Hyc Primary Indi Surface V High Wat Saturation Water Ma Sediment Drift depc Surface S Inundation Water-Sta	Jerology Indicators: Cators (minimum of colored (A1) er Table (A2) in (A3) irks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) in Visible on Aerial Image ained Leaves (B9) ations: Present? Yes	ine) ery (B7) No •	Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	B11) (B12) ertebrates (Sulfide Odor nizospheres f Reduced II n Reduction Surface (C7) lain in Rema	(C1) along Living ron (C4) in Plowed S	Roots (C3)	Secondary II Water Mal Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturation Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3)
Depth (inc Remarks: YDRIC SOIL Ydrology Vetland Hyc Primary Indi Surface V High Wat Saturation Water Ma Sediment Drift depc Surface S Inundatio Water-Sta	Irology Indicators: cators (minimum of colored (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) n Visible on Aerial Image ained Leaves (B9) ations: Present? Yes	ine) ery (B7) No •	Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	B11) (B12) ertebrates (Sulfide Odornizospheres f Reduced In n Reduction Surface (C7) lain in Rema	(C1) along Living ron (C4) in Plowed S	Roots (C3)	Secondary II Water Mal Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturation Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) surrows (C8) on Visible on Aerial Imagery (C9) quitard (D3) ral Test (D5)
Depth (incomments) Pydrology Vetland Hydrology V	Jerology Indicators: cators (minimum of control of control of cators (minimum of cators (mi	ine) ery (B7) No • No •	Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	B11) (B12) ertebrates (Sulfide Odor nizospheres f Reduced II n Reduction Surface (C7) lain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	Roots (C3)	Secondary II Water Mal Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturation Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3) ral Test (D5)
Depth (incomplete property) Primary Indi Surface V High Water Ma Sediment Drift depo Surface S Inundation Water-Sta ield Observ Water Table P aturation Preincludes capil	Jerology Indicators: cators (minimum of control of control of cators (minimum of cators (mi	ine) ery (B7) No No No No No No No No No No	Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	B11) (B12) ertebrates (Sulfide Odornizospheres f Reduced In n Reduction Surface (C7) Jain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	Roots (C3) pils (C6)	Secondary II Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturation Shallow A FAC-neutr	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3) ral Test (D5)
Depth (incomplete property) Primary Indi Surface V High Water Ma Sediment Drift depo Surface S Inundation Water-Sta ield Observ Water Table P aturation Preincludes capil	Jerology Indicators: cators (minimum of control of control of cators (minimum of cators (mi	ine) ery (B7) No No No No No No No No No No	Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	B11) (B12) ertebrates (Sulfide Odornizospheres f Reduced In n Reduction Surface (C7) Jain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	Roots (C3) pils (C6)	Secondary II Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturation Shallow A FAC-neutr	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3) ral Test (D5)
Depth (incomplete property) Population of the property of the	Jerology Indicators: cators (minimum of control of control of cators (minimum of cators (mi	ine) ery (B7) No No No No No No No No No No	Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	B11) (B12) ertebrates (Sulfide Odornizospheres f Reduced In n Reduction Surface (C7) Jain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	Roots (C3) pils (C6)	Secondary II Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturation Shallow A FAC-neutr	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3) ral Test (D5)
Depth (income present land to be	Jerology Indicators: cators (minimum of control of control of cators (minimum of cators (mi	ine) ery (B7) No No No No No No No No No No	Salt Crust (I Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	B11) (B12) ertebrates (Sulfide Odornizospheres f Reduced In n Reduction Surface (C7) Jain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	Roots (C3) pils (C6)	Secondary II Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturation Shallow A FAC-neutr	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) on Visible on Aerial Imagery (C9) quitard (D3) ral Test (D5)

Applicant/Owner: DESCHUTES COUNTY Investigator(s): ALISON SIGLER, SARAH HARTUNG Landform (hillslope, terrace, etc.): Flat				DESCHUTES Sampling Date: 22-Jun-10
				State: OR Sampling Point: SP 12A
Landform (hillslope, terrace, etc.): Flat		Section, To	wnship, Ra	ange: S 3 T 21 S R 10 E
		Local relief	(concave, o	convex, none): none Slope: 1.0% / 0.6 °
Subregion (LRR): LRR A	Lat.: 43	7780		Long.: -121.5086 Datum: NAD83
		.7700		NWI classification: PSSC
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes			• No (
re climatic/hydrologic conditions on the site typical for this Are Vegetation	-			Iormal Circumstances" present? Yes No
	significantly o			F
Are Vegetation . , Soil . , or Hydrology .	naturally pro	blematic?	(If nee	eded, explain any answers in Remarks.)
Summary of Findings - Attach site map sh	owing sa	mpling p	oint loc	ations, transects, important features, et
Hydrophytic Vegetation Present? Yes No				_
Hydric Soil Present? Yes • No		Is the	Sampled A	
Wetland Hydrology Present? Yes No		within	a Wetland	d? Yes ● No ○
Remarks:				
Remarks.				
VEGETATION - Use scientific names of plan	ts.	Dominant		
	Absolute	Species? Rel.Strat.	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	% Cover		Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: 2 (A)
2,	0	0.0%		Total Number of Dominant
3,		0.0%		Species Across All Strata: 2 (B)
4		0.0%		Percent of dominant Species
Sapling/Shrub Stratum (Plot size:	0	= Total Cove	er	That Are OBL, FACW, or FAC: 100.0% (A/B)
1. Salix exigua	10	1 00.0%	OBL	Prevalence Index worksheet:
2.		0.0%		Total % Cover of: Multiply by:
3.		0.0%		0BL species 10 x 1 = 10
4	0	0.0%		FACW species 75 x 2 = 150
5	0	0.0%		FAC species x 3 = 30
	10	= Total Cove	er	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size:	40		540	UPL species $\frac{10}{}$ x 5 = $\frac{50}{}$
1 Lupinus sp.		10.5%	UPL	Column Totals: 105 (A) 240 (B)
O Detentille encerine con necifica		<u>10.5%</u> 78.9%		
Potentilla anserina ssp. pacifica Juncus balticus			FACW	Prevalence Index = B/A = 2.286
3. Juncus balticus		0.0%	FACW	
	0		FACW	Hydrophytic Vegetation Indicators:
3 Juncus balticus 4.	0	0.0%	FACW	
3 Juncus balticus 4. 5.	0 0 0	0.0% 0.0% 0.0% 0.0%	FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ¹
3. Juncus balticus 4. 5. 6. 7. 8.	0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
3 Juncus balticus 4, 5, 6, 7, 8, 9,	0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ¹ ☐ Morphological Adaptations ¹ (Provide supporting
3 Juncus balticus 4, 5, 6, 7, 8, 9, 10.	0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
3 Juncus balticus 4, 5, 6, 7, 8, 9,	0 0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0¹ ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Wetland Non-Vascular Plants¹ ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
3 Juncus balticus 4, 5, 6, 7, 8, 9, 10.	0 0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0¹ ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Wetland Non-Vascular Plants¹ ☐ Problematic Hydrophytic Vegetation¹ (Explain)
3 Juncus balticus 4. 5. 6. 7. 8. 9. 10. 11. Woody Vine Stratum (Plot size:)	0 0 0 0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0¹ ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Wetland Non-Vascular Plants¹ ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
3 Juncus balticus 4. 5. 6. 7. 8. 9. 10.	0 0 0 0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0¹ ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Wetland Non-Vascular Plants¹ ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3 Juncus balticus 4. 5. 6. 7. 8. 9. 10. 11. Woody Vine Stratum (Plot size:)	0 0 0 0 0 0 0 0 0 0 95	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	er	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0¹ ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Wetland Non-Vascular Plants¹ ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3 Juncus balticus 4. 5. 6. 7. 8. 9. 10. 11. Woody Vine Stratum (Plot size:)	0 0 0 0 0 0 0 0 0 0 95	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	er	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0¹ ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Wetland Non-Vascular Plants¹ ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3 Juncus balticus 4, 5, 6, 7, 8, 9, 10, 11, Woody Vine Stratum (Plot size:) 1, 2, % Bare Ground in Herb Stratum: 5	0 0 0 0 0 0 0 0 0 0 95	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	er	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0¹ ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Wetland Non-Vascular Plants¹ ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3 Juncus balticus 4. 5. 6. 7. 8. 9. 10. 11. Woody Vine Stratum (Plot size:) 1. 2.	0 0 0 0 0 0 0 0 0 0 95	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	er	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0¹ ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Wetland Non-Vascular Plants¹ ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil								Sampling Point: 12A	
Profile Descr	ription: (Descr	ibe to the	e depth ne	eded to document	the indi	ator or co	nfirm the	absence of indicators.)	
Depth		atrix			ox Featu			_	
(inches)	Color (mo		<u>%</u> _	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	_
0-5	10YR	3/1	100%					peat	_
5-20	10YR	2/1	100%					Silty Clay	_
	-	-						•	
									_
									-
									_
									_
									_
¹ Type: C=Con	ncentration. D=D	epletion. F	RM=Reduce	d Matrix, CS=Covere	d or Coate	ed Sand Gra	ins ² Loca	cation: PL=Pore Lining. M=Matrix	
_		pplicable	to all LRR	s, unless otherwis				Indicators for Problematic Hydric Soils:3	
Histosol ((A1) pedon (A2)			Sandy Redox (Stripped Matri				2 cm Muck (A10)	
Black His				Loamy Mucky		1) (excent in	n MI RA 1)	Red Parent Material (TF2) Other (Explain in Remarks)	
	n Sulfide (A4)			Loamy Gleyed	•	, , ,	i weight	▼ Other (Explain in Remarks)	
	Below Dark Sur	face (A11)		Depleted Matr	x (F3)				
☐ Thick Dar	rk Surface (A12)			Redox Dark Su				³ Indicators of hydrophytic vegetation and	
Sandy Mu	uck Mineral (S1)			Depleted Dark		- 7)		wetland hydrology must be present,	
	eyed Matrix (S4)			Redox depress	ions (F8)			unless disturbed or problematic.	
Restrictive L	ayer (if preser	nt):							
Type:								Hydric Soil Present? Yes No	
Depth (inc	ches):							Tryune Son Tresent. 163 C NO C	
Hydrolog	_								
•	drology Indication		o roquirod	; check all that ap	nlv)			Secondary Indicators (minimum of two requ	iirod
	Water (A1)	ulli ol oli	e requireu		37	(DO) (ayaan	+ MI DA		mea
	ter Table (A2)			Water-Staine 1, 2, 4A, and		(ва) (ехсер	LIVILKA		
✓ Saturatio				Salt Crust (B	11)			Drainage Patterns (B10)	
	arks (B1)			Aquatic Inve	•	(B13)		Dry Season Water Table (C2)	
	t Deposits (B2)			Hydrogen Su				Saturation Visible on Aerial Imagery (C9)	
	osits (B3)			Oxidized Rhi			oots (C3)	Geomorphic Position (D2)	
Algal Ma	t or Crust (B4)			Presence of	Reduced I	ron (C4)		Shallow Aquitard (D3)	
☐ Iron Dep	oosits (B5)			Recent Iron	Reduction	in Tilled Soi	ils (C6)	FAC-neutral Test (D5)	
Surface S	Soil Cracks (B6)			Stunted or S	tressed Pla	ants (D1) (L	.RR A)	Raised Ant Mounds (D6) (LRR A)	
Inundation	on Visible on Aeı	rial Imager	ry (B7)	Other (Expla	in in Rema	arks)		Frost Heave Hummocks (D7)	
Sparsely	Vegetated Conc	ave Surfac	ce (B8)						
Field Observ	ations:								
Surface Water		Yes \bigcirc	No 💿	Depth (inc	nes):		1		
Water Table P		Yes O		• •			,]		
Saturation Pre				Depth (inc			Wetla	and Hydrology Present? Yes No	
(includes capi		Yes •	No O	Depth (inc	nes):	4			
Describe Rec	corded Data (s	tream ga	uge, moni	tor well, aerial pho	otos, prev	vious inspe	ctions), if	f available:	
Remarks:									

Project/Site: DESCHUTES LWI		City/County:	Sunriver/D	eschutes Sampling Date: 06-May-10
Applicant/Owner: DESCHUTES COUNTY				State: OR Sampling Point: SP 13
nvestigator(s): ALISON SIGLER, ROSEMARY BAKER		Section, To	wnship, R	ange: S 23 T 20 S R 10 E
Landform (hillslope, terrace, etc.): Floodplain		Local relief	(concave,	convex, none): CONVEX Slope: 0.0% / 0.
ubregion (LRR): LRR B	Lat.: 43	.8220		Long.: -121.4889 Datum: NAD 83
pil Map Unit Name: Not available				NWI classification: PEMF
e climatic/hydrologic conditions on the site typical for this	time of year?	yes	• No	
re Vegetation, Soil, or Hydrology	significantly			Iormal Circumstances" present? Yes • No
				, , , , , , , , , , , , , , , , , , ,
re Vegetation	naturally pro			eded, explain any answers in Remarks.)
<u> </u>	owing sai	mpling po	oint loca	ations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	Area
Hydric Soil Present? Yes No		within	a Wetland	de Yes ● No ○
Wetland Hydrology Present? Yes No		***************************************	a Welland	
Remarks:				
VEGETATION - Use scientific names of pla	nts.	DominantSpecies?		
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1	-	0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2.		0.0%		That are obe, thow, of the.
3		0.0%		Total Number of Dominant Species Across All Strata: 2 (B)
4.	0	0.0%		Species Acioss All Strata.
	0	= Total Cove	er	Percent of dominant Species That Are ORL FACW or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:				That Are OBL, FACW, or FAC: 100.0% (A/B)
1. Salix geyeriana	1	100.0%	FACW	Prevalence Index worksheet:
2. 3.		0.0%		Total % Cover of: Multiply by:
34.		0.0%		0BL speci es 85 x 1 = 85
5.		0.0%		FACW speciles $16 \times 2 = 32$ FAC speciles $0 \times 3 = 0$
		= Total Cove		1 No Speci es x o =
Herb Stratum (Plot size:	1	= TOTAL COV	21	1 Add Species
1. Carex aquatilis	85	✓ 85.0%	OBL	UPL species x 5 =
2. Juncus effusus		15.0%	FACW	Col umn Total s: (A) (B)
3		0.0%		Prevalence Index = B/A = 1.158
4		0.0%		Hydrophytic Vegetation Indicators:
5		0.0%		✓ Dominance Test is > 50%
6		0.0%		✓ Prevalence Index is ≤3.0 1
8		0.0%		Morphological Adaptations 1 (, rovide supporting data in Remarks or on a separate sheet)
9		0.0%		Problematic Hydrophytic Vegetation 1 (1 splain)
10		0.0%		
11,		0.0%		1 Indicators of hydric soil and wetland hydrology must
	100	= Total Cov	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:) 1.		0.0%		I hada a badia
	0	0.0%		Hydrophytic Vegetation
1. 2.		0.0% = Total Cove	er	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Color (moks) Solor (moks) 9% Color (moks) 9% Type Loc2 Texture Remarks	Depth		Matrix				lox Featu			absence of indicato	·
10 10 10 10 10 10 10 10	(inches)	Color (ı	moist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks
SyR 3.74 10% CS M pockets of sand	0-6	10YR	4/2	100%						Silt	
Fype: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains 2Location: PL=Pore Lining, M=Matrix Voltric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 Histor. (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 Histor. (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 Histor. (Applicable to Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 Histor. (Applicable to Applicable to Applicable to Applicable Matrix (FS) Indicators for Problematic Hydric Soils:3 Hydrogen Suffick (AP) Indicators for Problematic Hydric Soils:3 Hydric Soil RRR C	6-20	10YR	3/2	85%	10YR	4/6	5%	С	PL	Silt Loam	2 types of redox
yedric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1)					5YR	3/4	10%	CS	M		pockets of sand
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)											<u></u>
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosic (A1)											
Histosol (A1)	Type: C=Co	oncentration. [D=Depletio	n. RM=Redu	ced Matrix,	CS=Covere	ed or Coat	ed Sand Gra	ins ² Loca	ation: PL=Pore Lining	g. M=Matrix
Histic Epipedon (A2)	lydric Soil	Indicators:	(Applicat	ole to all LR	Rs, unless	otherwis	e noted.)			Indicators for	Problematic Hydric Soils: ³
Black Histic (A3)	_				Sar	ndy Redox ((S5)			1 cm Muck	(A9) (LRR C)
Hydrogen Sulfide (A4) Loamy Sucky Marks (F2) Red Parent Material (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) ✓ Redox Dark Surface (F6) Depleted Bellow Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox depressions (F8) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present. Sandy Muck Mineral (S1) Vernal Pools (F9) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present. Pyper					Str	ipped Matri:	x (S6)			2 cm Muck	(A10) (LRR B)
Stratified Layers (A5) (LRR C)	_	` ,			Loa	my Mucky	Mineral (F	1)		Reduced Ve	ertic (F18)
Stratified Layers (Ab) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Other (Explain i	_ ` `				Loa	amy Gleyed	Matrix (F2	2)			, ,
□ rem Muck (AV) (LRR D) □ Depleted Bellow Dark Surface (A11) □ Depleted Dark Surface (F6) □ Depleted Dark Surface (F7) □ Thick Dark Surface (A12) □ Sandy Muck Mineral (S1) □ Sandy Gleyed Matrix (S4) □ Vernal Pools (F9) □ Indicators of hydrophylic vegetation and wetland hydrology must be present. **Restrictive Layer (if present): □ Type: □ Depth (inches): □ Secondary Indicators (2 or more required): □ Surface Water (A1) □ Salt Crust (B11) □ Water Marks (B1) (Riverine) □ Sediment Deposits (B2) (Riverine) □ Sediment Deposits (B2) (Riverine) □ Sediment Deposits (B2) (Riverine) □ Depth (A3) □ Aquatic Invertebrates (B13) □ Drift Deposits (B2) (Nonriverine) □ Oxidized Rhizospheres along Living Roots (C3) □ Drift deposits (B2) (Nonriverine) □ Drift deposits (B3) (Nonerverine) □ Presence of Reduced Iron (C4) □ Drift deposits (B3) (Nonerverine) □ Presence of Reduced Iron (C4) □ Drift deposits (B3) (Nonerverine) □ Drift depos					☐ De	pleted Matr	x (F3)				• •
Thick Dark Surface (A12)			•		✓ Red	dox Dark Su	ırface (F6)				,
Sandy Muck Mineral (S1) Vernal Pools (F9) Redox depressions (F9) No on the indicators of hydrophytic vegetation and wetland hydrology must be present. Pools (F9) Pools (F9) No on the indicators of hydrophytic vegetation and wetland hydrology must be present. Pools (F9) Pools (F9) Pools (F9) Pools (F9)	_			1)	De _l	pleted Dark	Surface (F7)			
Sandy Muck Mineral (S1)	_	•	•		Red	dox depress	ions (F8)			3	
Sandy Gleyed Matrix (S4) Statistic Version (If present): Type:	_									Indicators of h	nydrophytic vegetation and
Type:	Sandy GI	leyed Matrix (S4)				-			welland flydi	ology must be present.
Depth (inches):	estrictive l	Layer (if pres	sent):								
Agrant Hydrology Vetland Hydrology Indicators: Verlimary Indicators (minimum of one required: check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Noneriverine) Drift Deposits (B3) (Noneriverine) Drift Deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Shallow Aquitard (D3) Water Table (D5) Wetland Hydrology Present? Yes No Depth (inches): 12 Wetland Hydrology Present? Yes No Depth (inches): 7	T										
Vetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Surface Water (A1) Water Marks (B1) (Riverine) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Notified Observations: Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Notified Observations: Water Marks (B1) (Riverine) Drift Deposits (B2) (Riverine) Drift Deposits (Type:									Uludria Cail Dras	omta v.a 📵 Na 🔾
Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Sediment Deposits (B2) (Riverine) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Sediment Deposits (B3) Riverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Drainage Patt	Depth (inc	ches):								Hydric Soil Pres	ent? Yes No
Primary Indicators (minimum of one required: check all that apply) Surface Water (A1) Water Marks (B1) (Riverine) Salt Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drift Deposits (B2) (Riverine) Drift Deposits (B3) Riverine) Drift Deposits (B1) Drift Deposits (B2) (Riverine) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Dry Season Water Table (C2) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Depth (inches): Ves No Depth (inches): Depth (inches):	Depth (inc	`								Hydric Soil Pres	ent? Yes No
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) ✓ High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) ✓ Saturation (A3) Drift Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Water Table Present? Yes No Depth (inches): 12 Wetland Hydrology Present? Yes No Depth (inches): 7	Depth (inc	`								Hydric Soil Pres	ent? Yes No
High Water Table (A2) Sediment Deposits (B2) (Riverine) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Depth (inches):	Depth (inc Remarks:	лу	cators:							Hydric Soil Pres	ent? Yes No
Aquatic Invertebrates (B13)	Depth (inc Remarks: Lydrolog	l y drology Indi		one require	ed; check a	all that ap	ply)				
Water Marks (B1) (Nonriverine)	Depth (ind Remarks: Iydrolog Vetland Hyd Primary Ind	I Y drology Indi licators (min		one require						Secondar	ry Indicators (2 or more required)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Depth (inches): Depth (inche	Depth (ind Remarks: Iydrolog Vetland Hyd Primary Ind	drology Indi licators (min Water (A1)	imum of o	one require		alt Crust (B	11)			Secondar Water	ry Indicators (2 or more required) Marks (B1) (Riverine)
Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Field Observations: Surface Water Present? Ves No Depth (inches): Dept	Depth (ind Remarks: 	drology Indi licators (min Water (A1) ter Table (A2)	imum of o	one require	☐ S	alt Crust (B liotic Crust	11) (B12)	(B13)		Secondar Water	ry Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Depth (inches): Depth (inches): 12 Saturation Present? Yes No Depth (inches): 7 Wetland Hydrology Present? Yes No Depth (inches): 7	Depth (ind Remarks: lydrolog Vetland Hydrolog Primary Ind Surface (ind) High Wa Saturation	drology Indi licators (min Water (A1) ter Table (A2) on (A3)	imum of o	one require	☐ S ☐ B ☐ A	alt Crust (B liotic Crust liquatic Inve	11) (B12) rtebrates			Secondar Water Sedim Drift [y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) Deposits (B3) Riverine)
Inundation Visible on Aerial Imagery (B7)	Depth (inc Remarks: lydrolog Vetland Hydrolog Surface V High War Saturation	drology Indi licators (min Water (A1) ter Table (A2) on (A3) arks (B1) (Nor	imum of o		☐ S ☐ B ☐ A ☐ H	alt Crust (B liotic Crust quatic Inve lydrogen Su	11) (B12) rtebrates ılfide Odor	(C1)	g Roots (C3	Secondar Water Sedim Drift C	ry Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) Deposits (B3) Riverine) age Patterns (B10)
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Field Observations: Surface Water Present? Ves No Depth (inches): To Depth (inches): Depth (inches): Other (Explain in Remarks) FAC-neutral Test (D5) Wetland Hydrology Present? Yes No Depth (inches): Other (Explain in Remarks) FAC-neutral Test (D5)	Depth (ind Remarks: lydrolog Vetland Hydrolog Surface V High Wa Saturation Water M. Sedimen	drology Indi licators (min Water (A1) ter Table (A2) on (A3) arks (B1) (Nor it Deposits (B2	imum of (nriverine) (Nonriver	rine)	S B A H C	alt Crust (B liotic Crust quatic Inve lydrogen Su Oxidized Rhi	11) (B12) rtebrates ulfide Odor zospheres	· (C1) along Living	g Roots (C3	Secondar Water Sedim Drift D Draina	ry Indicators (2 or more required) Marks (B1) (Riverine) Juent Deposits (B2) (Riverine) Deposits (B3) Riverine) Juge Patterns (B10) Jueason Water Table (C2)
Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): To Depth (inches): Depth (inches): Depth (inches): Depth (inches): To Depth (inches): Depth	Depth (ind Remarks:	drology Indi licators (min Water (A1) ter Table (A2) on (A3) arks (B1) (Nor t Deposits (B2 posits (B3) (No	imum of one of the oriverine) 2) (Nonriverine)	rine)	S B A H C P	alt Crust (B liotic Crust (liquatic Inve lydrogen Su Dxidized Rhi resence of	11) (B12) rtebrates ulfide Odor zospheres Reduced I	(C1) along Living ron (C4)		Secondar Water Sedim Drift E Draina Crayfi	ry Indicators (2 or more required) Marks (B1) (Riverine) Jent Deposits (B2) (Riverine) Deposits (B3) Riverine) Jege Patterns (B10) Jeason Water Table (C2) Jeason Burrows (C8)
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): To Depth (inches): Depth (inches): Depth (inches): To Dept	Depth (ind Remarks:	drology Indi licators (min Water (A1) ter Table (A2) on (A3) arks (B1) (Nor at Deposits (B2 oosits (B3) (No Soil Cracks (B6	imum of one of o	rine)	S B A H C P R	alt Crust (B iotic Crust of quatic Inve lydrogen Su exidized Rhi dresence of decent Iron	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction	c (C1) along Living ron (C4) in Plowed S		Secondar Water Sedim Drift C Draina Dry Se Crayfi	ry Indicators (2 or more required) Marks (B1) (Riverine) Bent Deposits (B2) (Riverine) Beposits (B3) Riverine) Bege Patterns (B10) Beason Water Table (C2) Besh Burrows (C8) Batton Visible on Aerial Imagery (C9)
Vater Table Present? Yes No Depth (inches): 12 Saturation Present? Yes No Depth (inches): 7 Depth (inches): 7	Depth (ind Remarks: ydrolog vetland Hyde Surface vell High War Saturation Water M. Sedimen Drift dep Surface vell Inundation	drology Indi licators (min Water (A1) ter Table (A2) on (A3) arks (B1) (Nor it Deposits (B2) oosits (B3) (No Soil Cracks (B6) on Visible on A	imum of one of the oriverine) (2) (Nonriverine) (3) (Nonriverine) (4) (Nonriverine) (5) (Nonriverine)	rine)	S B A H C P R	alt Crust (B iotic Crust (quatic Inve lydrogen Su oxidized Rhi resence of eccent Iron thin Muck S	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction urface (C7	c (C1) along Living ron (C4) in Plowed S		Secondar Water Sedim Drift E Draina Or Sedim Crayfie Satura Shallo	ry Indicators (2 or more required) Marks (B1) (Riverine) Ident Deposits (B2) (Riverine) Ideposits (B3) Riverine) Ideposits (B3) Riverine) Ideposits (B10) Ideason Water Table (C2) Ideason Water Table (C2) Ideason Visible on Aerial Imagery (C9) In Aquitard (D3)
Saturation Present? Includes capillary fringe) Yes No Depth (inches): 7 Wetland Hydrology Present? Yes No No Present?	Depth (ind Remarks:	drology Indi licators (min Water (A1) ter Table (A2) on (A3) arks (B1) (Nor t Deposits (B2 oosits (B3) (No Soil Cracks (B6 on Visible on A	imum of one of the oriverine) (2) (Nonriverine) (3) (Nonriverine) (4) (Nonriverine) (5) (Nonriverine)	rine)	S B A H C P R	alt Crust (B iotic Crust (quatic Inve lydrogen Su oxidized Rhi resence of eccent Iron thin Muck S	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction urface (C7	c (C1) along Living ron (C4) in Plowed S		Secondar Water Sedim Drift E Draina Or Sedim Crayfie Satura Shallo	ry Indicators (2 or more required) Marks (B1) (Riverine) Ident Deposits (B2) (Riverine) Ideposits (B3) Riverine) Ideposits (B3) Riverine) Ideposits (B10) Ideason Water Table (C2) Ideason Water Table (C2) Ideason Visible on Aerial Imagery (C9) In Aquitard (D3)
includes capillary fringe) Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches):	Depth (ind Remarks: Ydrolog Vetland Hyd Surface (Y High Wa Saturatio Water M. Sedimen Drift dep Surface (Inundatio Water-St Vetland Hyd Saturatio	drology Indi licators (min Water (A1) ter Table (A2) on (A3) arks (B1) (Nor at Deposits (B2 oosits (B3) (No Soil Cracks (B6 on Visible on A tained Leaves	imum of one of the control of the co	rine) Judeny (B7)	S B A A C C C C C C C C	alt Crust (B diotic Crust quatic Inve- lydrogen Su exidized Rhi resence of decent Iron thin Muck S other (Explan	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction urface (C7 in in Rem.	c (C1) along Living ron (C4) in Plowed S		Secondar Water Sedim Drift E Draina Or Sedim Crayfie Satura Shallo	ry Indicators (2 or more required) Marks (B1) (Riverine) Ident Deposits (B2) (Riverine) Ideposits (B3) Riverine) Ideposits (B3) Riverine) Ideposits (B10) Ideason Water Table (C2) Ideason Water Table (C2) Ideason Visible on Aerial Imagery (C9) In Aquitard (D3)
includes capillary fringe) Yes Violation Depth (inches):/	Depth (ind Remarks: Vydrolog Vetland Hyde Surface Vydrolog Vydrolog Surface Vydrolog Vydrolog Surface Vydrolog V	drology Indi licators (min Water (A1) ter Table (A2) on (A3) arks (B1) (Nor it Deposits (B2) oosits (B3) (No Soil Cracks (B6) on Visible on A tained Leaves vations:	imum of one priverine) (Nonriverine) (S) Aerial Imag (B9)	rine) Jery (B7)	S B A A A A A A A A A	alt Crust (B ciotic Crust quatic Inve lydrogen Su exidized Rhi resence of decent Iron thin Muck S exiter (Explain Depth (incl	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction urface (C7 in in Rem.	ron (C4) in Plowed S) arks)		Secondar Water Sedim Drift E Draina Or Sedim Crayfie Satura Shallo	ry Indicators (2 or more required) Marks (B1) (Riverine) Ident Deposits (B2) (Riverine) Ideposits (B3) Riverine) Ideposits (B3) Riverine) Ideposits (B10) Ideason Water Table (C2) Ideason Water Table (C2) Ideason Visible on Aerial Imagery (C9) In Aquitard (D3)
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:	Depth (inc Remarks:	drology Indi dicators (min Water (A1) ter Table (A2) on (A3) arks (B1) (Nor t Deposits (B2) osits (B3) (No Soil Cracks (B6 on Visible on A tained Leaves vations: er Present?	imum of one imum o	rine) Hery (B7) No (No (S B A A A A A A A A A	alt Crust (B diotic Crust quatic Inve dydrogen Su exidized Rhi resence of eccent Iron thin Muck S other (Expla Depth (incl	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction urface (C7 in in Rem.	r (C1) along Living ron (C4) in Plowed S) arks)	Soils (C6)	Secondar Water Sedim Drift L Draina Orayfi Satura Shallo	ry Indicators (2 or more required) Marks (B1) (Riverine) Bent Deposits (B2) (Riverine) Beposits (B3) Riverine) Bege Patterns (B10) Beason Water Table (C2) Beason Water Table (C2) Beason Water Table (C2) Beason Water Table (C3) Beason Water Table (C5)
	Depth (ind Remarks: Depth (ind Remarks:	drology Indi licators (min Water (A1) ter Table (A2) on (A3) arks (B1) (Nor it Deposits (B2) oosits (B3) (No Soil Cracks (B6) on Visible on A tained Leaves vations: er Present? Present? esent? illary fringe)	imum of one imum of one imum of one impriverine) (2) (Nonriverine) (3) (4) (6) (89) Yes Yes Yes	rine) lery (B7) No (No (No (S B A A C C C C C C C C	alt Crust (B cliotic Crust cquatic Inve lydrogen Sc oxidized Rhi cresence of clecent Iron chin Muck S other (Expla Depth (incl Depth (incl	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction urface (C7 in in Rem.	ron (C4) in Plowed S) arks)	oils (C6)	Secondar Water Sedim Drift D Draina Crayfi Satura Shallo FAC-n	ry Indicators (2 or more required) Marks (B1) (Riverine) Bent Deposits (B2) (Riverine) Beposits (B3) Riverine) Bege Patterns (B10) Beason Water Table (C2) Beason Water Table (C2) Beason Water Table (C2) Beason Water Table (C3) Beason Water Table (C5)
	Depth (ind Remarks: Depth (ind Remarks:	drology Indi licators (min Water (A1) ter Table (A2) on (A3) arks (B1) (Nor it Deposits (B2) oosits (B3) (No Soil Cracks (B6) on Visible on A tained Leaves vations: er Present? Present? esent? illary fringe)	imum of one imum of one imum of one impriverine) (2) (Nonriverine) (3) (4) (6) (89) Yes Yes Yes	rine) lery (B7) No (No (No (S B A A C C C C C C C C	alt Crust (B cliotic Crust cquatic Inve lydrogen Sc oxidized Rhi cresence of clecent Iron chin Muck S other (Expla Depth (incl Depth (incl	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction urface (C7 in in Rem.	ron (C4) in Plowed S) arks)	oils (C6)	Secondar Water Sedim Drift D Draina Crayfi Satura Shallo FAC-n	ry Indicators (2 or more required) Marks (B1) (Riverine) Bent Deposits (B2) (Riverine) Beposits (B3) Riverine) Bege Patterns (B10) Beason Water Table (C2) Beason Water Table (C2) Beason Water Table (C2) Beason Water Table (C3) Beason Water Table (C5)
	Depth (indexembre) Permarks: Pe	drology Indi licators (min Water (A1) ter Table (A2) on (A3) arks (B1) (Nor it Deposits (B2) oosits (B3) (No Soil Cracks (B6) on Visible on A tained Leaves vations: er Present? Present? esent? illary fringe)	imum of one imum of one imum of one impriverine) (2) (Nonriverine) (3) (4) (6) (89) Yes Yes Yes	rine) lery (B7) No (No (No (S B A A C C C C C C C C	alt Crust (B cliotic Crust cquatic Inve lydrogen Sc oxidized Rhi cresence of clecent Iron chin Muck S other (Expla Depth (incl Depth (incl	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction urface (C7 in in Rem.	ron (C4) in Plowed S) arks)	oils (C6)	Secondar Water Sedim Drift D Draina Crayfi Satura Shallo FAC-n	ry Indicators (2 or more required) Marks (B1) (Riverine) Bent Deposits (B2) (Riverine) Beposits (B3) Riverine) Bege Patterns (B10) Beason Water Table (C2) Beason Water Table (C2) Beason Water Table (C2) Beason Water Table (C3) Beason Water Table (C5)

Project/Site: DESCHUTES LWI	City/	County: SUNRIVER/	DESCHUTES Sam	pling Date: 22-Jun-10
Applicant/Owner: DESCHUTES COUNTY			State: OR Sa	ampling Point: SP 13A
Investigator(s): ALISON SIGLER, SARAH HARTUNG	Se	ction, Township, R	ange: S 12	R 10 E
Landform (hillslope, terrace, etc.): Floodplain	Loc	al relief (concave,	convex, none): concave	Slope: 2.0% / 1.1 °
Subregion (LRR): LRR A	 Lat.: 43.771	4	Long.: -121.4795	Datum: NAD83
Soil Map Unit Name: 144A: Sunriver sandy loam, 0 to			NWI classificati	on: PFMC
are climatic/hydrologic conditions on the site typical f		Yes No		
Are Vegetation, Soil, or Hydrology			Iormal Circumstances" preser	
Are Vegetation , Soil , or Hydrology	naturally problen		•	
Are vegetation, soil, or hydrology	inaturally problem	iatic: (If ne	eded, explain any answers in	Remarks.)
Summary of Findings - Attach site ma	p showing samp	ling point loc	ations, transects, im	portant features, et
Hydrophytic Vegetation Present? Yes No)	Is the Sampled A	∆rea	
Hydric Soil Present? Yes No	\supset	•	Voc (No (
Wetland Hydrology Present? Yes No	\supset	within a Wetland	1, 100 - 110 -	
Remarks:				
VEGETATION - Use scientific names of	plants. Do	ominant oecies?		
Tree Stratum (Plot size:	Absolute Re	I.Strat. Indicator	Dominance Test workshee	t:
		over Status 0.0%	Number of Dominant Species	2 (A)
1		0.0%	That are OBL, FACW, or FAC:	(A)
3.	• □	0.0%	Total Number of Dominant Species Across All Strata:	2 (B)
4	0	0.0%	opedies / toross / tir otrata.	(0)
	0 = Te	otal Cover	Percent of dominant Speci That Are OBL, FACW, or FA	
Sapling/Shrub Stratum (Plot size:	. \Box		That Are ODE, FACW, OF The	no. , ,
1		0.0%	Prevalence Index workshee	
2. 3.		0.0%	Total % Cover of: OBL species 40	Multiply by: x 1 = 40
34.		0.0%	FACW species 45	x 2 = 90
5.	0 🗆	0.0%	FAC species 7	x 3 = 21
	0 = To	otal Cover	FACU species 0	x 4 = 0
Herb Stratum (Plot size:			UPL speci es 0	- x 5 =
1 Carex aquatilis	40	43.5% OBL	Column Totals: 92	_ (A) <u>151</u> (B)
2 Juncus balticus 3 Poa trivialis	<u>35</u> 10	38.0% FACW FACW	Prevalence Index = B/	/A = 1.641
4 Sidalcea sp.		5.4% FAC	Hydrophytic Vegetation Inc	
5_Lupinus sp,	2	2.2% FAC	✓ Dominance Test is > 5	
6		0.0%	✓ Prevalence Index is ≤	3.0 ¹
7		0.0%		tions 1 (Provide supporting
8		0.0%	data in Remarks or on	•
9. 10.		0.0%	Wetland Non-Vascular	
11.		0.0%		ytic Vegetation ¹ (Explain)
		otal Cover	¹ Indicators of hydric soil as be present, unless disturbe	nd wetland hydrology must
Woody Vine Stratum (Plot size:			be present, unless distarbe	
1		0.0%		
2		0.0%	Hydrophytic Vegetation	
	0 = To	otal Cover	Present? Yes	No \cup
% Bare Ground in Herb Stratum: 8				
Remarks:				
Lupinus sp. and Sidalcea sp. assumed FAC.				

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil									Sampling Point: 13A
Profile Desc	ription: (De	scribe to	the depth n	eeded to do	cument	the indic	cator or co	onfirm the	absence of indicators.)
Depth		Matrix				ox Featu			
(inches)	Color (ı			Color (m	oist)	%	Type ¹	Loc ²	Texture Remarks
0-9	10YR	2/1	100%						Silt Loam
9-20	10YR	4/2	60%	10YR	3/1	40%	D	M	Clay Loam
¹ Type: C=Cor	ncentration. D	=Depletio	n. RM=Reduc	ed Matrix, CS	S=Covere	d or Coate	ed Sand Gra	ains ² Loca	ation: PL=Pore Lining. M=Matrix
Hydric Soil	Indicators:	(Applical	ble to all LR	Rs, unless o	therwise	e noted.))		Indicators for Problematic Hydric Soils:3
Histosol					Redox (2 cm Muck (A10)
Histic Epi	ipedon (A2)				ed Matrix				Red Parent Material (TF2)
Black His Hydrogei	stic (A3) n Sulfide (A4)				,	Mineral (F Matrix (F2	1) (except i 2)	in MLRA 1)	Other (Explain in Remarks)
✓ Depleted	Below Dark S	Surface (A	11)		ted Matri				
Thick Da	rk Surface (A1	12)				rface (F6)			³ Indicators of hydrophytic vegetation and
	uck Mineral (S	•				Surface (I	F7)		wetland hydrology must be present, unless disturbed or problematic.
	leyed Matrix (Redox	depress	10115 (F8)			unless disturbed of problematic.
Restrictive L	Layer (if pre	sent):							
Type:									Hydric Soil Present? Yes ● No ○
Depth (inc	ches):								Tryune 3011 resent. Tes C NO C
Remarks:									
Hydrolog	y								
Wetland Hy									
Primary Ind	icators (min	imum of	one require	d; check all	that app	oly)			Secondary Indicators (minimum of two required
	Water (A1) ater Table (A2))			er-Staine , 4A, and		(B9) (excep	ot MLRA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
✓ Saturatio		,		Salt	Crust (B	11)			Drainage Patterns (B10)
	larks (B1)			Agu	atic Inver	tebrates	(B13)		Dry Season Water Table (C2)
	nt Deposits (B	2)				Ifide Odor			Saturation Visible on Aerial Imagery (C9)
☐ Drift dep	oosits (B3)			Oxid	dized Rhiz	ospheres	on Living F	Roots (C3)	Geomorphic Position (D2)
Algal Ma	nt or Crust (B4	1)		Pres	sence of F	Reduced I	ron (C4)		Shallow Aquitard (D3)
☐ Iron Dep	oosits (B5)			Rec	ent Iron F	Reduction	in Tilled So	oils (C6)	FAC-neutral Test (D5)
Surface	Soil Cracks (B	6)		Stur	nted or St	ressed Pla	ants (D1) (I	LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundati	ion Visible on	Aerial Ima	igery (B7)	Oth	er (Explai	n in Rema	arks)		Frost Heave Hummocks (D7)
Sparsely	Vegetated Co	oncave Su	rface (B8)						
Field Observ		Yes	○ No ●) -		, _		1	
Surface Wate	r Present?				epth (inch	ies):			
Water Table F	Present?	Yes	● No C) De	epth (inch	nes):	12	,	and Hydrology Present? Yes No
Saturation Pro		Yes	● No C) De	epth (inch	nes):	0	Wetla	and Hydrology Present? Yes 🔍 No 🔾
(includes capi Describe Red							/ious insne	ections). if	f available:
		,554111	J-25 J-11101			.30, pro			
Remarks:									

Project/Site: DESCHUTES LWI		City/County: Sunriver	/Deschutes San	npling Date: 06-May-10
Applicant/Owner: DESCHUTES COUNTY			State: OR	Sampling Point: SP 14
Investigator(s): ALISON SIGLER, ROSEMARY BAKER		Section, Township,	Range: S 25 T 20 S	R 10 E
Landform (hillslope, terrace, etc.): Valley bottom		Local relief (concav	e, convex, none): concave	Slope: 0.0% / 0.
Subregion (LRR): LRR B	Lat.: 43		Long.: -121.4797	Datum: NAD 83
- · · · · -			NWI classificat	
Soil Map Unit Name: 115A: Shanahan loamy coarse sand, (Yes No		-
re climatic/hydrologic conditions on the site typical for this	-			
Are Vegetation, Soil, or Hydrology	significantly of		"Normal Circumstances" prese	
Are Vegetation $\;\sqcup\;$, Soil $\;\sqcup\;$, or Hydrology $\;\sqcup\;$ Summary of Findings - Attach site map sh	naturally prol	•	needed, explain any answers in	
	- Iowing sai		cations, transcots, in	portant reatures, etc.
		Is the Sample		
		within a Wetla	ınd? Yes ● No ○	
Remarks:				
OFF-SITE INVESTIGATION				
VEGETATION - Use scientific names of pla	nts	Dominant		-
VEGETATION - 03c scientific flames of pla		_Species?		
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat. Indicate Cover Status		
1,	0	0.0%	Number of Dominant Species That are OBL, FACW, or FAC:	2 (A)
2.	0	0.0%		
3	0	0.0%	Total Number of Dominant Species Across All Strata:	2 (B)
4	0	0.0%	_	
Sapling/Shrub Stratum (Plot size:	0	= Total Cover	Percent of dominant Spec That Are OBL, FACW, or I	100 00/ (* (*)
1. Salix sp.	30	✓ 100.0% FACW	Prevalence Index workshe	et:
2	0	0.0%	Total % Cover of:	Multiply by:
3		0.0%	OBL species 75	x 1 =75
4	0	0.0%	FACW species30	x 2 = 60
5		0.0%	FAC speci es 0	_ x 3 =0
Herb Stratum (Plot size:	30	= Total Cover	FACU speci es 0	_ x 4 =0
1.0	75	✓ 100.0% OBL	UPL speci es0	_ x 5 =
1 Carex aduatilis 2.		0.0%	Column Totals: 105	(A)135 (B)
3.		0.0%	Prevalence Index = E	3/A = 1.286
4.		0.0%	Hydrophytic Vegetation In	dicators:
5	0	0.0%	Dominance Test is >	
6		0.0%	✓ Prevalence Index is 5	£3.0 ¹
7,		0.0%	Morphological Adapta	ations 1 ¹ , rovide supporting
8,		0.0%	_ data in Remarks or o	n a separate sheet)
9		0.0%	Problematic Hydroph	ytic Vegetation 1 (¹ (plain)
10, 11.		0.0%	_	
		= Total Cover	1 Indicators of hydric soil be present, unless disturb	and wetland hydrology must ed or problematic.
Woody Vine Stratum (Plot size:)				
1		0.0%	- Livelines in this	
2		0.0%	Hydrophytic Vegetation	
	0	= Total Cover	Present? Yes	No O
		_		
% Bare Ground in Herb Stratum: 0 %	Cover of Biotic	c Crust ()		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth					· · · · · · · · · · · · · · · · · · ·	
Depth Matrix (inches) Color (moist) %	Color (moist)	dox Featu %		Loc2	Texture	Remarks
(inches) Color (moist) %	Color (Illoist)	70	Type ¹	LUC-	rexture	Remarks
	·					
						_
1 Fire C. Consententing D. Douleting DM. Do	durand Matrix, CC, Carran		-1 C1 C:	214	in Di Dana Linian M	NA-Auto
1 Type: C=Concentration. D=Depletion. RM=Re	· · · · · · · · · · · · · · · · · · ·		ed Sand Grai	ns ² Locat	ion: PL=Pore Lining. M	=IVIATRIX
Hydric Soil Indicators: (Applicable to all					Indicators for Pro	blematic Hydric Soils: ³
Histosol (A1)	Sandy Redox				1 cm Muck (A9)	(LRR C)
Histic Epipedon (A2)	Stripped Matr	ix (S6)			2 cm Muck (A10)) (LRR B)
Black Histic (A3)	Loamy Mucky	Mineral (F	1)		Reduced Vertic	(F18)
Hydrogen Sulfide (A4)	Loamy Gleyed	d Matrix (F2	2)		Red Parent Mate	erial (TF2)
Stratified Layers (A5) (LRR C)	Depleted Mat	rix (F3)			Other (Explain in	
1 cm Muck (A9) (LRR D)	Redox Dark S	urface (F6)				,
Depleted Below Dark Surface (A11)	Depleted Dark	k Surface (F	7)			
Thick Dark Surface (A12)	Redox depres		,		0	
Sandy Muck Mineral (S1)	☐ Vernal Pools (3 Indicators of hydro	ophytic vegetation and
Sandy Gleyed Matrix (S4)	Verriar r cors v	(1 /)			wetland hydrolog	yy must be present.
Restrictive Layer (if present):						
, , , ,						
Type:						
Type:					Hydric Soil Present?	Yes No
Depth (inches):					Hydric Soil Present?	Yes No O
Depth (inches):					Hydric Soil Present?	Yes No
Depth (inches):					Hydric Soil Present?	Yes No
Depth (inches):					Hydric Soil Present?	Yes ● No ○
Depth (inches):					Hydric Soil Present?	Yes • No O
Depth (inches):Remarks: HYDRIC SOIL BY SATURATION					Hydric Soil Present?	Yes No
Depth (inches):Remarks: HYDRIC SOIL BY SATURATION					Hydric Soil Present?	Yes No O
Depth (inches):Remarks: HYDRIC SOIL BY SATURATION					Hydric Soil Present?	Yes No O
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators:	red: check all that ar	oply)				
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one requ					Secondary Ir	ndicators (2 or more required)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required) Surface Water (A1)	Salt Crust (I	B11)			Secondary Ir	ndicators (2 or more required)_ ks (B1) (Riverine)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	Salt Crust (I	B11) (B12)	(012)		Secondary Ir Water Mar	ndicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required by Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (I Biotic Crust Aquatic Inv	B11) (B12) ertebrates			Secondary Ir Water Mar Sediment Drift Depo	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	Salt Crust (I Biotic Crust Aquatic Inv	B11) (B12) ertebrates (ulfide Odor	(C1)		Secondary Ir Water Mar Sediment Drift Depo	ndicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one requestream of the second o	Salt Crust (I Biotic Crust Aquatic Invi Hydrogen S Oxidized Rh	B11) (B12) ertebrates ulfide Odor izospheres	(C1) along Living	Roots (C3)	Secondary Ir Water Mar Sediment Drift Depo Drainage F	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required of the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine)	Salt Crust (I Biotic Crust Aquatic Inv	B11) (B12) ertebrates ulfide Odor izospheres	(C1) along Living	Roots (C3)	Secondary Ir Water Mar Sediment Drift Depo Drainage F	ndicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one requestrated of the second	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh	B11) (B12) ertebrates (ulfide Odor izospheres Reduced I	(C1) along Living		Secondary Ir Water Mar Sediment Drift Depo Drainage F Dry Seaso Crayfish B	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required of the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine)	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh	B11) (B12) ertebrates of ulfide Odor dizospheres of Reduced I	(C1) along Living ron (C4) in Plowed So		Secondary Ir Water Mar Sediment Drift Depo Drainage F Dry Seaso Crayfish B Saturation	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2) urrows (C8)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one requested of the second of	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates of the properties of the p	(C1) along Living ron (C4) in Plowed So)		Secondary Ir Water Mar Sediment Drift Depo Drainage F Dry Seaso Crayfish B Saturation Shallow Ac	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one requested of the second of	Salt Crust (I Biotic Crust Aquatic Invi Hydrogen S Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates of the properties of the p	(C1) along Living ron (C4) in Plowed So)		Secondary Ir Water Mar Sediment Drift Depo Drainage F Dry Seaso Crayfish B Saturation Shallow Ac	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) quitard (D3)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one requivalent of the primary Indicators) ✓ Surface Water (A1) ☐ High Water Table (A2) ✓ Saturation (A3) ☐ Water Marks (B1) (Nonriverine) ☐ Sediment Deposits (B2) (Nonriverine) ☐ Drift deposits (B3) (Noneriverine) ☐ Drift deposits (B3) (Noneriverine) ☐ Surface Soil Cracks (B6) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9) Field Observations:	Salt Crust (I Biotic Crust Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	B11) (B12) ertebrates (ulfide Odor nizospheres Reduced I Reduction Surface (C7	(C1) along Living ron (C4) in Plowed So) arks)		Secondary Ir Water Mar Sediment Drift Depo Drainage F Dry Seaso Crayfish B Saturation Shallow Ac	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) quitard (D3)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one requivers) ✓ Surface Water (A1) ☐ High Water Table (A2) ✓ Saturation (A3) ☐ Water Marks (B1) (Nonriverine) ☐ Drift deposits (B2) (Nonriverine) ☐ Drift deposits (B3) (Noneriverine) ☐ Surface Soil Cracks (B6) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes • No	Salt Crust (I Biotic Crust Aquatic Inventor Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	B11) (B12) ertebrates (ulfide Odor nizospheres Reduced I Reduction Surface (C7	(C1) along Living ron (C4) in Plowed So)		Secondary Ir Water Mar Sediment Drift Depo Drainage F Dry Seaso Crayfish B Saturation Shallow Ac	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) quitard (D3)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one requivalent of the primary Indicators) ✓ Surface Water (A1) ☐ High Water Table (A2) ✓ Saturation (A3) ☐ Water Marks (B1) (Nonriverine) ☐ Sediment Deposits (B2) (Nonriverine) ☐ Drift deposits (B3) (Noneriverine) ☐ Drift deposits (B3) (Noneriverine) ☐ Surface Soil Cracks (B6) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9) Field Observations:	Salt Crust (I Biotic Crust Aquatic Inventor Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	B11) (B12) ertebrates eller librates from the control of the contr	(C1) along Living ron (C4) in Plowed So) arks)	bils (C6)	Secondary Ir Water Mar Sediment Drift Depo Drainage F Dry Seaso Crayfish B Saturation Shallow Ac	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) quitard (D3) al Test (D5)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one requivalent of the primary Indicators (minimum) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Now	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	B11) (B12) ertebrates enteres	(C1) along Living ron (C4) in Plowed So) arks)	bils (C6)	Secondary Ir Water Mar Sediment Drift Depo Drainage F Dry Seaso Crayfish B Saturation Shallow Ac	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) quitard (D3) al Test (D5)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one requivalent of the prima	Salt Crust (I Biotic Crust Aquatic Invi Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl. Depth (inc	B11) (B12) ertebrates elulfide Odor aizospheres Reduced I Reduction Surface (C7 ain in Rema	(C1) along Living ron (C4) in Plowed So) arks)	wetlar	Secondary Ir Water Mar Sediment Drift Depo Drainage F Dry Seaso Crayfish B Saturation Shallow Ac FAC-neutr	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) quitard (D3) al Test (D5)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one requested of the surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes No Saturation Present? Yes No Saturation Present? Yes No Describe Recorded Data (stream gauge, r	Salt Crust (I Biotic Crust Aquatic Invi Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl. Depth (inc	B11) (B12) ertebrates elulfide Odor aizospheres Reduced I Reduction Surface (C7 ain in Rema	(C1) along Living ron (C4) in Plowed So) arks)	wetlar	Secondary Ir Water Mar Sediment Drift Depo Drainage F Dry Seaso Crayfish B Saturation Shallow Ac FAC-neutr	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) quitard (D3) al Test (D5)
Depth (inches): Remarks: HYDRIC SOIL BY SATURATION Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one requivalent of the primary Indicators (minimum) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No Saturation Present? Yes No	Salt Crust (I Biotic Crust Aquatic Invi Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl. Depth (inc	B11) (B12) ertebrates elulfide Odor aizospheres Reduced I Reduction Surface (C7 ain in Rema	(C1) along Living ron (C4) in Plowed So) arks)	wetlar	Secondary Ir Water Mar Sediment Drift Depo Drainage F Dry Seaso Crayfish B Saturation Shallow Ac FAC-neutr	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) quitard (D3) al Test (D5)

Project/Site: DESCHUTES LWI	City/County: SUNRIVER	Z/DESCHUTES Sampling Date: 22-Jun-10
Applicant/Owner: DESCHUTES COUNTY		State: OR Sampling Point: SP 14A
nvestigator(s): ALISON SIGLER, SARAH HARTUNG	Section, Township, F	Range: S 23 T 21 S R 10 E
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave,	convex, none): flat Slope: 1.0% / 0.6
Subregion (LRR): LRR A	Lat.: 43.7405	Long.: -121.4917 Datum: NAD83
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes		NWI classification: PEMA
e climatic/hydrologic conditions on the site typical for this	\sim	
Are Vegetation, Soil, or Hydrology		Normal Circumstances" present? Yes No
		F
	•	eeded, explain any answers in Remarks.)
	nowing sampling point loo	cations, transects, important features, et
Hydrophytic Vegetation Present? Yes No	Is the Sampled	Area
Hydric Soil Present? Yes No		Van 📵 Na 🔘
Wetland Hydrology Present? Yes ● No ○	within a Wetlar	ia:
Remarks:	<u>.</u>	
VEGETATION - Use scientific names of plan	nts. Dominant Species?	
Tree Stratum (Plot size:	Absolute Rel.Strat. Indicator	Dominance Test worksheet:
·		Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1,		mat are OBL, FACW, UFFAC
3,		Total Number of Dominant Species Across All Strata: 2 (B)
4,	0 0.0%	Species Across Air Strata.
	0 = Total Cover	Percent of dominant Species That Are ORL FACW or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:		That Are OBL, FACW, or FAC: 100.0% (A/B)
1. Salix exigua		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3		0BL species 120 x 1 = 120
45.		FACW species x 2 = 20
J	0	FAC species $0 \times 3 = 0$
Herb Stratum (Plot size:	30 = Total Cover	FACU species $0 \times 4 = 0$
1 Mentha pulegium	10	UPL species x 5 =
2 Carex aquatilis	80 🗸 80.0% OBL	Column Totals:
3 Juncus balticus	10 10.0% FACW	Prevalence Index = B/A = 1.077
4		Hydrophytic Vegetation Indicators:
5		✓ Dominance Test is > 50%
6		Y Prevalence Index is ≤3.0 ¹
7		Morphological Adaptations 1 (Provide supporting
8.————————————————————————————————————		data in Remarks or on a separate sheet)
10.	=	Wetland Non-Vascular Plants ¹
11.		☐ Problematic Hydrophytic Vegetation ¹ (Explain)
	100 = Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:		25 prosent, amoss distained of problematic.
1	0	
2	0	Hydrophytic Vegetation
	0 = Total Cover	Present? Yes No
% Bare Ground in Herb Stratum: 0		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: 14A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth % Loc2 Color (moist) Color (moist) % **Texture** Remarks (inches) Type 1 10YR 100% Clay Loam 0-6 3/2 2 types of redox features 6-20 10YR 4/1 60% 5YR 4/6 38% С PL Sandy Loam 10YR 3/1 2% D Μ ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ✓ Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) ☐ Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No O **Hydric Soil Present?** Depth (inches): Remarks: Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) High Water Table (A2) 4A, and 4B) ✓ Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) U Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes O No 💿 Surface Water Present? Depth (inches): Yes \bigcirc No 💿 Water Table Present? Depth (inches): Yes ● No ○ Wetland Hydrology Present? Saturation Present? Yes No O Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks:

Project/Site: DESCHUTES LWI		City/County:	Sunriver/De	eschutes	Sampling	g Date: <u>06-</u> 1	May-10	
Applicant/Owner: DESCHUTES COUNTY				State: OR	Samp	ling Point:	SP 1	15
Investigator(s): ALISON SIGLER, ROSEMARY BAKER		Section, To	wnship, Ra	ange: \$ 25 T	20 S	R 10 E		
Landform (hillslope, terrace, etc.): Valley bottom		Local relief	(concave,	convex, none): conca	ve	Slope:	0.0% /	0.0
Subregion (LRR): LRR B	Lat.: 43	3.8121		Long.: -121.4851		Datu	m: NAD 8	33
oil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 percentage		· ·		-	ssification:		E-	
e climatic/hydrologic conditions on the site typical for this t		Yes	. ● No ○		_			
	significantly			lormal Circumstances		Yes •	No O	
	naturally pro				•			
Summary of Findings - Attach site map sho	•			eded, explain any ans			turos <i>a</i>	etc
Hydrophytic Vegetation Present? Yes No	owing sai		JIIIL IOCE	ations, transect	s, impor	tarit rea	tui es, t	
		Is the	Sampled A					
		within	a Wetland	_{d?} Yes 💿 No 🗆				
, , , , , , , , , , , , , , , , , , ,								
Remarks: PFO IN AN AREA THAT IS CURRENTLY BEING DRAINED B	V CEVEDAL	DITCH LINES	COD ELITI	LIDE DEVELOPMENT				
PFO IN AN AREA THAT IS CURRENTLY BEING DRAINED E	OY SEVERAL	DITCH LINES	FUR FUII	URE DEVELOPMENT				
VEGETATION - Use scientific names of plan	ts.	Dominant						
	Absolute			Dominance Test wo	rksheet:			
Tree Stratum (Plot size:	% Cover		Status	Number of Dominant	Species			
1, Pinus contorta		100.0%	FAC	That are OBL, FACW,	or FAC:	3	(A	A)
2.		0.0%		Total Number of Dom	inant			
3 4.		0.0%		Species Across All Stra	ıta:	4	(E	B)
T				Percent of dominar	t Species			
Sapling/Shrub Stratum (Plot size:	15	= Total Cove	er •	That Are OBL, FAC	W, or FAC:	75.0)% (A	A/B)
1. Spiraea douglasii	2	6.3%	FACW	Prevalence Index w	orksheet:			
2. Salix geyeriana	20	✓ 62.5%		Total % Cove	r of:	Multiply by:		
3. Betula glandulosa	10	31.3%	OBL	OBL speci es	10 ×	1 =	10	
4	0	0.0%		FACW species	67 x	2 =	134	
5	0	0.0%		FAC speciles	17x	3 =	51	
Mark Charles (Diet sies)	32	= Total Cove	er	FACU species	×	4 =	20	
Herb Stratum (Plot size:	/ 5	00.20/	FACIAL	UPL species	×	5 =	0	
1. Juncus sp.		90.3%	FACU FACU	Column Totals:	99 ((A)	215	(B)
Fragaria virginiana Fragaria virginiana Fragaria virginiana		2.8%	FACU FAC	Prevalence Ind	ex = B/A =	2.1	72	
4.		0.0%		Hydrophytic Vegeta		-		
5		0.0%		✓ Dominance Tes		UI 3.		
6.		0.0%		✓ Prevalence Ind		1		
7	0	0.0%		☐ Morphological			supporti	ina
8		0.0%		data in Remark	s or on a se	parate she	et)	- 9
9		0.0%		Problematic Hy	drophytic \	egetation '	l (¹ ːplain	1)
10		0.0%						
11,		= Total Cove	 er	1 Indicators of hydrobe present, unless of	ric soil and	wetland hy	drology m	nust
Woody Vine Stratum (Plot size:				De present, uniess (aistai DCU ()I	Problemat		
1.	0	0.0%						
2	0	0.0%		Hydrophytic				
	0	= Total Cove	er	Vegetation Ye Ye	s • No	\bigcirc		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth		Matrix	·		Rec	lox Featu			bsence of indicator	
(inches)	Color (moist)	%	Color (ı	moist)	%	Type ¹	Loc2	Texture	Remarks
0-3	10YR	2/2	100%						Loam	
3-18	10YR	3/1	70%	7.5YR	4/4	10%	С	М	Silty Clay Loam	ABOUT 5% CHARCOAL AND AT 13 INCHES SOME MED.
	-			10YR	7/1	20%	D			GRAVELS
	-			10110		2070				<u> </u>
	-	-			-	-				
										<u> </u>
Type: C=Co	ncentration. [D=Depletio	n. RM=Reduc	ed Matrix,	CS=Covere	ed or Coate	ed Sand Gra	ins ² Loca	ition: PL=Pore Lining.	M=Matrix
lydric Soil	Indicators:	(Applicat	ole to all LRI	Rs, unless	otherwis	e noted.)			Indicators for P	roblematic Hydric Soils:3
Histosol ((A1)			San	ndy Redox ((S5)			1 cm Muck (A	•
Histic Epi	pedon (A2)			Stri	pped Matri	x (S6)			2 cm Muck (A	
Black His				Loa	ımy Mucky	Mineral (F	1)		Reduced Vert	ic (F18)
_ ′ ັ	n Sulfide (A4)			Loa	ımy Gleyed	Matrix (F2	!)		Red Parent M	aterial (TF2)
_	Layers (A5)			☐ Dep	oleted Matr	x (F3)			Other (Explain	n in Remarks)
_	ck (A9) (LRR			✓ Red	dox Dark Su	ırface (F6)				
_ ·	Below Dark S	•	1)	Dep	oleted Dark	Surface (F	7)			
_	rk Surface (A	,		Rec	dox depress	ions (F8)			3 Indicators of hy	drophytic vegetation and
	uck Mineral (S			U Ver	nal Pools (I	- 9)			wetland hydro	logy must be present.
	eyed Matrix (
estrictive L	ayer (if pre	sent):								
Type:	1								Hvdric Soil Preser	nt? Yes • No O
Depth (inc	ches):								Hydric Soil Preser	nt? Yes • No
Depth (inc	ches):								Hydric Soil Preser	nt? Yes • No
Depth (inc									Hydric Soil Preser	nt? Yes • No
Depth (inc Remarks:		cators:							Hydric Soil Preser	nt? Yes • No
Depth (inc Remarks: ydrolog Vetland Hyd	у		one require	d; check a	all that ap	ply)				nt? Yes No Indicators (2 or more required)
Depth (inc Remarks: ydrolog Vetland Hyd Primary Ind	y drology Indi		one require		all that ap alt Crust (B				Secondary	
Depth (inc Remarks: Dydrolog Vetland Hyd Primary Ind	y drology Indi icators (min	imum of	one require	□ s		11)			Secondary	Indicators (2 or more required)
Depth (inc Remarks: ydrolog vetland Hyd Surface V	y drology Indi icators (min Water (A1) ter Table (A2)	imum of	one require	□ S.	alt Crust (B	11) (B12)	(B13)		Secondary Water N	Indicators (2 or more required) larks (B1) (Riverine)
Depth (inc Remarks: lydrolog Vetland Hyd Primary Ind Surface V High Wat Saturatio	y drology Indi icators (min Water (A1) ter Table (A2)	imum of	one require	☐ S. ☐ B ☐ A	alt Crust (B iotic Crust	11) (B12) rtebrates			Secondary Water N Sedimen Drift De	Indicators (2 or more required) larks (B1) (Riverine) nt Deposits (B2) (Riverine)
Depth (inc Remarks: Lydrolog Vetland Hyde Primary Ind Surface V High Wat Saturatio Water Ma	y drology Indi icators (min Water (A1) er Table (A2) n (A3)	imum of one		☐ S. ☐ B ☐ A ☐ H	alt Crust (B iotic Crust quatic Inve lydrogen Su	11) (B12) rtebrates ulfide Odor		g Roots (C3	Secondary Water N Sediment Drift De Drainag	Indicators (2 or more required) farks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine)
Depth (inc Remarks: Lydrolog Vetland Hyd Primary Ind Surface V High Wat Saturatio Water Ma Sediment	y drology Indi icators (min Vater (A1) ter Table (A2) n (A3) arks (B1) (No	imum of one of the one	rine)	☐ S. ☐ B ☐ A ☐ H ☐ O	alt Crust (B iotic Crust quatic Inve lydrogen Su	11) (B12) rtebrates ulfide Odor zospheres	(C1) along Living	g Roots (C3	Secondary Water N Sedimer Drift De Drainag Dry Sea	Indicators (2 or more required) farks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10)
Depth (inc Remarks:	y drology Indi icators (min Water (A1) ter Table (A2) n (A3) arks (B1) (Noi t Deposits (B2	imum of one of the one	rine)	☐ S. ☐ B ☐ A ☐ H ☐ O ☐ P.	alt Crust (B iotic Crust quatic Inve lydrogen Su exidized Rhi resence of	11) (B12) rtebrates ulfide Odor zospheres Reduced I	(C1) along Living		Secondary Water N Sedimen Drift De Drainag Dry Sea	Indicators (2 or more required) Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2)
Depth (incomplete incomplete inco	y drology Indi icators (min Water (A1) ter Table (A2) n (A3) arks (B1) (Noi t Deposits (B2 osits (B3) (No	imum of one intriverine) (Nonrive ineriverine)	rine)	S. B A H O P R R	alt Crust (B iotic Crust quatic Inve lydrogen Su exidized Rhi resence of	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction	(C1) along Living ron (C4) in Plowed S		Secondary Water N Sedimen Drift De Drainag Orayfish Saturati	Indicators (2 or more required) farks (B1) (Riverine) fit Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8)
Depth (incomplete property) Permary Indomination Surface V High Wate Ma Sediment Drift depo	y drology Indi icators (min Nater (A1) ier Table (A2) n (A3) arks (B1) (No t Deposits (B2 osits (B3) (No Soil Cracks (B6	imum of one of the oriverine) (Nonrive one oriverine) (Nonrive one oriverine) (Nonrive one oriverine) (Nonrive one oriverine)	rine)	S. B A H O P R T T	alt Crust (B iotic Crust quatic Inve lydrogen Su exidized Rhi resence of ecent Iron	11) (B12) rtebrates of the state of the stat	(C1) along Living ron (C4) in Plowed S)		Secondary Water M Sedimen Drift De Drainag Ory Sea Crayfish Saturati	Indicators (2 or more required) larks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
Depth (incomplete incomplete inco	y drology Indi icators (min Nater (A1) ter Table (A2) n (A3) arks (B1) (Noi t Deposits (B2) osits (B3) (Noi Soil Cracks (Bo on Visible on A	imum of one of the control of the co	rine) Juery (B7)	S. B A A D A A A A A A A A A A A A A A A A	alt Crust (B iotic Crust (quatic Inve lydrogen Su xidized Rhi resence of ecent Iron hin Muck S	11) (B12) rtebrates of the state of the stat	(C1) along Living ron (C4) in Plowed S)		Secondary Water M Sedimen Drift De Drainag Ory Sea Crayfish Saturati	Indicators (2 or more required) larks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incomplete incomplete inco	y drology Indi icators (min Water (A1) ter Table (A2) n (A3) arks (B1) (No t Deposits (B2 osits (B3) (No soil Cracks (Bi on Visible on v ained Leaves	imum of one of the oriverine) (Nonrive one oriverine) (Nonrive one oriverine) (Nonrive one oriverine) (Nonrive one oriverine)	rine) Juery (B7)	S. B A H O P T O O O O O O O O	alt Crust (B iotic Crust (quatic Inve lydrogen Su xidized Rhi resence of ecent Iron hin Muck S	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction urface (C7 in in Rema	(C1) along Living ron (C4) in Plowed S)		Secondary Water M Sedimen Drift De Drainag Ory Sea Crayfish Saturati	Indicators (2 or more required) larks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incomplete incomplete inco	y drology Indi icators (min Water (A1) ter Table (A2) n (A3) arks (B1) (Not t Deposits (B2) osits (B3) (Not con Visible on V ained Leaves vations: r Present?	imum of contribution of the contribution of th	rine) Jery (B7)	S. B A H O P R T O O O O O O O O	alt Crust (B iotic Crust (Quatic Inversed Program Subsidized Rhi resence of eccent Iron hin Muck Suther (Explain Depth (incl	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction urface (C7 in in Rema	(C1) along Living ron (C4) in Plowed S) arks)		Secondary Water M Sedimen Drift De Drainag Ory Sea Crayfish Saturati	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3) utral Test (D5)
Depth (inc Remarks: Semarks Depth (inc Primary Ind Surface High Wat Saturatio Water Ma Sediment Drift depth Drift depth Surface Surface Surface Surface Surface Water-St. Sield Observent Surface Water Table Femarks Femar	y drology Indi icators (min Nater (A1) er Table (A2) n (A3) arks (B1) (No it Deposits (B2) osits (B3) (No soil Cracks (Bi on Visible on ained Leaves vations: r Present?	imum of contribution of the contribution of th	rine) lery (B7) No No No	S. B A H O P T O O O O O O O O	alt Crust (B iotic Crust (quatic Invelopment of particular) and the control of th	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction urface (C7 in in Rema	(C1) along Living ron (C4) in Plowed S) arks)	Soils (C6)	Secondary Water M Sedimen Drift De Drainag Ory Sea Crayfish Saturati	Indicators (2 or more required) flarks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3) utral Test (D5)
Depth (incomplete includes capital contents) Depth (incomplete incomplete in	y drology Indi icators (min Water (A1) er Table (A2) n (A3) arks (B1) (No it Deposits (B3) (imum of enriverine) 2) (Nonrive eneriverine) 3) Aerial Imag (B9) Yes Yes Yes	rine) Hery (B7) No No No No No No No No No No	S. B A H O P T O O O O O O O	alt Crust (B iotic Crust (guatic Inversed particular) and the control of the cent Iron (Expland) and the control of the cent Iron (Expland) and the control of the cent (included) and the control of the cent (included) and	11) (B12) rtebrates (Iffide Odor zospheres Reduced I Reduction urface (C7 in in Remaines):	(C1) along Living ron (C4) in Plowed S) arks)	Soils (C6)	Secondary Water N Sedimen Drift De Drainag Crayfish Saturati Shallow FAC-net	Indicators (2 or more required) flarks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3) utral Test (D5)
Depth (incomplete includes capital contents of the complete incomplete incomp	y drology Indi icators (min Nater (A1) ter Table (A2) n (A3) arks (B1) (Not t Deposits (B2) osits (B3) (Not Soil Cracks (Bo on Visible on A ained Leaves vations: r Present? ersent?	imum of enriverine) 2) (Nonrive eneriverine) 3) Aerial Imag (B9) Yes Yes Yes	rine) Hery (B7) No No No No No No No No No No	S. B A H O P T O O O O O O O	alt Crust (B iotic Crust (guatic Inversed particular) and the control of the cent Iron (Expland) and the control of the cent Iron (Expland) and the control of the cent (included) and the control of the cent (included) and	11) (B12) rtebrates (Iffide Odor zospheres Reduced I Reduction urface (C7 in in Remaines):	(C1) along Living ron (C4) in Plowed S) arks)	Soils (C6)	Secondary Water N Sedimen Drift De Drainag Crayfish Saturati Shallow FAC-net	Indicators (2 or more required) flarks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3) utral Test (D5)
Depth (incomplete of the complete of the compl	y drology Indi icators (min Water (A1) er Table (A2) n (A3) arks (B1) (No it Deposits (B3) (imum of enriverine) 2) (Nonrive eneriverine) 3) Aerial Imag (B9) Yes Yes Yes	rine) Hery (B7) No No No No No No No No No No	S. B A H O P T O O O O O O O	alt Crust (B iotic Crust (guatic Inversed particular) and the control of the cent Iron (Expland) and the control of the cent Iron (Expland) and the control of the cent (included) and the control of the cent (included) and	11) (B12) rtebrates (Iffide Odor zospheres Reduced I Reduction urface (C7 in in Remaines):	(C1) along Living ron (C4) in Plowed S) arks)	Soils (C6)	Secondary Water N Sedimen Drift De Drainag Crayfish Saturati Shallow FAC-net	Indicators (2 or more required) flarks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3) utral Test (D5)
Depth (incomplete of the complete of the compl	y drology Indi icators (min Water (A1) er Table (A2) n (A3) arks (B1) (No it Deposits (B3) (No it Deposits (B3) (No it Deposits (B3) (No it Deposits (B3) er Present? er Present? er Present? elsent?	imum of enriverine) 2) (Nonrive eneriverine) 3) Aerial Imag (B9) Yes Yes Yes	rine) Hery (B7) No No No No No No No No No No	S. B A H O P T O O O O O O O	alt Crust (B iotic Crust (guatic Inversed particular) and the control of the cent Iron (Expland) and the control of the cent Iron (Expland) and the control of the cent (included) and the control of the cent (included) and	11) (B12) rtebrates (Iffide Odor zospheres Reduced I Reduction urface (C7 in in Remaines):	(C1) along Living ron (C4) in Plowed S) arks)	Soils (C6)	Secondary Water N Sedimen Drift De Drainag Crayfish Saturati Shallow FAC-net	Indicators (2 or more required) flarks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3) utral Test (D5)
Depth (income property of the	y drology Indi icators (min Water (A1) er Table (A2) n (A3) arks (B1) (No it Deposits (B3) (No it Deposits (B3) (No it Deposits (B3) (No it Deposits (B3) er Present? er Present? er Present? elsent?	imum of enriverine) 2) (Nonrive eneriverine) 3) Aerial Imag (B9) Yes Yes Yes (stream	rine) Pery (B7) No No No No gauge, more	S. B A H O P T O O O O O O O	alt Crust (B iotic Crust (guatic Inversed particular) and the control of the cent Iron (Expland) and the control of the cent Iron (Expland) and the control of the cent (included) and the control of the cent (included) and	11) (B12) rtebrates (Iffide Odor zospheres Reduced I Reduction urface (C7 in in Remaines):	(C1) along Living ron (C4) in Plowed S) arks)	Soils (C6)	Secondary Water N Sedimen Drift De Drainag Crayfish Saturati Shallow FAC-net	Indicators (2 or more required) flarks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3) utral Test (D5)

	City/County: SUNRIVE	R/DESCHUTES Sampling Date: 22-Jun-10
Applicant/Owner: DESCHUTES COUNTY		State: OR Sampling Point: SP 15A
Investigator(s): ALISON SIGLER, SARAH HARTUNG	Section, Township,	Range: S 23 T 21 S R 10 E
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave	e, convex, none): flat Slope: 1.0% / 0.6
Subregion (LRR): LRR A	Lat.: 43.7400	Long.: -121.4987 Datum: NAD83
Soil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 pe		NWI classification: PEMA
re climatic/hydrologic conditions on the site typical for thi		
Are Vegetation, Soil, or Hydrology		"Normal Circumstances" present? Yes No
		• • • • • • • • • • • • • • • • • • • •
3 — 1 — 1 3 3 —		needed, explain any answers in Remarks.)
Summary of Findings - Attach site map sl	howing sampling point lo	ocations, transects, important features, et
Hydrophytic Vegetation Present? Yes ● No ○	Is the Sampleo	d Area
Hydric Soil Present? Yes ● No ○	_	Vac (Na (
Wetland Hydrology Present? Yes ● No ○	within a Wetla	ind? 163 6 140 6
Remarks:	<u> </u>	
OFF-SITE DETERMINATION		
VEGETATION - Use scientific names of pla	nts. Dominant Species?	
Tree Stratum (Plot size:	Absolute Rel.Strat. Indicato % Cover Cover Status	or Dominance Test worksheet:
1		Number of Dominant Species That are OBL, FACW, or FAC:3 (A)
2,		(A)
3.		Total Number of Dominant Species Across All Strata: 3 (B)
4.		Species victors vin strate.
Sapling/Shrub Stratum (Plot size:	= Total Cover	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
1	0	Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3		OBL species 20 x 1 = 20
4 5.		FACW species $60 \times 2 = 120$
J	0	
Herb Stratum (Plot size:	0 = Total Cover	FACU speciles x 4 = 0
1 Juncus balticus	60 ✓ 60.0% FACW	UPL species
2 Carex aquatilis	20 🗹 20.0% OBL	Column Totals: 100 (A) 200 (B)
3 Iris sp.	20 2 20.0% FAC	Prevalence Index = B/A = 2.000
4		Hydrophytic Vegetation Indicators:
5		✓ Dominance Test is > 50%
6		Prevalence Index is ≤3.0 ¹
7		 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8.		Wetland Non-Vascular Plants ¹
10.		Problematic Hydrophytic Vegetation ¹ (Explain)
11.		_
	100 = Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:		
1,		
2		Hydrophytic Vegetation
	0 = Total Cover	Present? Yes No
% Bare Ground in Herb Stratum: 0		
% Bare Ground in Herb Stratum: 0 Remarks: Iris sp. assumed FAC.		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

oil							Sampling Point: 15A
rofile Descr	iption: (Describe to the	depth neede				nfirm the	absence of indicators.)
Depth	Matrix			ox Feature			
(inches)	Color (moist)	% Co	olor (moist)	%	Type ¹	Loc ²	Texture Remarks
vne: C=Con	centration. D=Depletion. RN	/=Reduced M	atrix CS=Covere	d or Coated	Sand Gra	ins 2loca	ation: PL=Pore Lining. M=Matrix
	ndicators: (Applicable to				. oana ora		Indicators for Problematic Hydric Soils:3
Histosol (- u.i <u>-</u>	Sandy Redox (2 cm Muck (A10)
_ `	pedon (A2)		Stripped Matri:				Red Parent Material (TF2)
Black Hist			Loamy Mucky		(except i	n MLRA 1)	Other (Explain in Remarks)
7	Sulfide (A4)		Loamy Gleyed	Matrix (F2)			Other (Explain in Remarks)
¬	Below Dark Surface (A11)		Depleted Matri	x (F3)			
Thick Darl	k Surface (A12)		Redox Dark Su	. ,			³ Indicators of hydrophytic vegetation and
☐ Sandy Mu	ck Mineral (S1)	L	Depleted Dark	Surface (F7	7)		wetland hydrology must be present,
Sandy Gle	yed Matrix (S4)		☐ Redox depress	ions (F8)			unless disturbed or problematic.
estrictive La	ayer (if present):						
Type:							
Depth (incl	nes).						Hydric Soil Present? Yes No
emarks:	DRIC BASED ON HYDRO	LOGY INDIC	CATORS.				
emarks: SUMED HY	DRIC BASED ON HYDRO	DLOGY INDIC	CATORS.				
emarks: SUMED HY	DRIC BASED ON HYDRO	DLOGY INDIC	CATORS.				
emarks: SUMED HY ydrology etland Hyd	DRIC BASED ON HYDRO			nlu)			
emarks: SUMED HY ydrology etland Hyd rimary India	DRIC BASED ON HYDRO / rology Indicators: cators (minimum of one		neck all that ap				Secondary Indicators (minimum of two requ
emarks: SUMED HY /drology etland Hyd imary India	DRIC BASED ON HYDRO			ed Leaves (E	39) (excep	t MLRA	
emarks: SUMED HY /drology etland Hyd imary India	DRIC BASED ON HYDRO / rology Indicators: cators (minimum of one //ater (A1) er Table (A2)		neck all that ap	ed Leaves (E I 4B)	39) (excep	t MLRA	Secondary Indicators (minimum of two requal Mater-Stained Leaves (B9) (MLRA 1, 2,
drology etland Hyd imary India Surface V High Wat	DRIC BASED ON HYDRO / rology Indicators: cators (minimum of one //ater (A1) er Table (A2) n (A3)		neck all that ap Water-Staine 1, 2, 4A, anc Salt Crust (B	ed Leaves (E I 4B) 11)	, , ,	t MLRA	Secondary Indicators (minimum of two required Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
drology etland Hyd imary Indic Surface V High Wat Saturatio Water Ma	prology Indicators: cators (minimum of one Vater (A1) er Table (A2) n (A3) rks (B1)		eck all that ap Water-Staine 1, 2, 4A, and Salt Crust (B Aquatic Inve	ed Leaves (E I 4B) 11) rtebrates (E	313)	t MLRA	Secondary Indicators (minimum of two requirements) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2)
drology etland Hyd imary Indic Surface V High Wat Saturatio Water Ma Sediment	prology Indicators: cators (minimum of one Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2)		eck all that ap Water-Staine 1, 2, 4A, and Salt Crust (B Aquatic Inve	ed Leaves (E I 4B) 11) rtebrates (E Ilfide Odor (313) (C1)		Secondary Indicators (minimum of two required Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
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Project/Site: DESCHUTES LWI		City/County:	Sunriver/D	eschutes	Sampli	ng Date: _0	6-May-10	
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sam	pling Poin	t: S	P 16
Investigator(s): ALISON SIGLER, ROSEMARY BAKER		Section, To	wnship, R	ange: S 25	T 20 S	R 10 E	-	
Landform (hillslope, terrace, etc.): Valley bottom		Local relief	(concave,	convex, none): conca	ave	Slope:	0.0%	0.0
Subregion (LRR): LRR B	 Lat.: 43			Long.: -121.4862			ıtum: NA	.D 83
		1.0077			ssification			
oil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 pe		y voc	• No (ssification			
e climatic/hydrologic conditions on the site typical for thi Are Vegetation , Soil , or Hydrology	s time or year: significantly			,		(No (\bigcirc
				lormal Circumstances	•		- 110	<u> </u>
Are Vegetation , Soil , or Hydrology	naturally pro			eded, explain any ans				- oto
Summary of Findings - Attach site map sl	nowing sa	mpling po	omit ioca	ations, transec	is, impo	rtant ie	atures	s, etc.
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	\rea				
Hydric Soil Present? Yes No		within	a Wetland	_{d?} Yes ⊙ No 🤇				
Wetland Hydrology Present? Yes No		***************************************	u wonan					
Remarks:								
VEGETATION - Use scientific names of pla	nts.	DominantSpecies?						
Tree Stratum (Plot size:	Absolute % Cover		Indicator Status	Dominance Test w	orksheet:			
1 Pinus contorta		✓ 100.0%	FAC	Number of Dominant			1	(4)
-		0.0%	FAC	That are OBL, FACW,	OF FAC:	_		(A)
23.		0.0%		Total Number of Don			4	(D)
4.	0	0.0%		Species Across All Str	ala:	_		(B)
	10	= Total Cove	er	Percent of domina		10	0.0%	(A /D)
Sapling/Shrub Stratum (Plot size:				That Are OBL, FAC	W, or FAC	:	0.076	(A/B)
1. Betula glandulosa		✓ 52.6%	OBL	Prevalence Index v	orksheet:			
2. Spiraea douglasii	5	26.3%	FACW	Total % Cove	er of:	Multiply b	y:	
3. Rosa woodsii		10.5%	FACU	OBL speci es	10	x 1 =	10	
4. Ribes bracteosum		10.5%	FAC	FACW species	7	x 2 =	14	
5		0.0%		FAC speci es	109	x 3 =	327	
Herb Stratum (Plot size:	19	= Total Cove	er	FACU species	2	x 4 = .	8	
1. Poa sp.	97	✓ 98.0%	FAC	UPL speci es	0	x 5 =	0	
2. Geum macrophyllum		2.0%	FACW	Column Totals:	128	(A)	359	(B)
3		0.0%		Prevalence Inc	dex = B/A	= _2	.805	
4	0	0.0%		Hydrophytic Vegeta	tion Indica	ators:		
5	0	0.0%		✓ Dominance Te	st is > 50%	6		
6		0.0%		✓ Prevalence In	dex is ≤3.0	, 1		
7		0.0%		Morphological	Adaptatio	ns 1 ¹ . 'rov	ide suppo	orting
8		0.0%		data in Remar		-		
9 10		0.0%		Problematic H	ydrophytic	Vegetatio	n 1 (¹ ːpl	lain)
11.		0.0%						
	99	= Total Cove	 er	1 Indicators of hydelegate be present, unless	Iric soil and	d wetland	hydrolog	y must
Woody Vine Stratum (Plot size:				be present, unless	uisturbed (o problem	iatic.	
1	0	0.0%						
2	0	0.0%		Hydrophytic				
	0	= Total Cove	er	Vegetation Present? Ye	es 💿 No	\circ		
% Bare Ground in Herb Stratum: ()	Cover of Biot	ic Crust ()						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

ofile Descrip		Matrix		Re	dox Featu	ures				
(inches)	Color (n		%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks	
0-3	10YR	3/2	100%					Loam	Duff layer w/grit &	roots
3-20	10YR	3/1	100%					Silty Clay		
vne C=Conc	entration D	=Depletion		ed Matrix, CS=Cover	ed or Coat	ed Sand Gra	ins 21 oca	tion: PL=Pore Lining		
				Rs, unless otherwis			iiii Loca		Problematic Hydric Soils: ³	
Histosol (A		(прриоск	no to un Enti	Sandy Redox		,		1 cm Muck (•	
Histic Epipe	•			Stripped Matr					(A10) (LRR B)	
Black Histic	(A3)			Loamy Mucky		- 1)		Reduced Ve	. , , ,	
Hydrogen S				Loamy Gleyed					Material (TF2)	
Stratified La	ayers (A5) (I	LRR C)		Depleted Mati		,		✓ Other (Expla	, ,	
1 cm Muck	(A9) (LRR D))		Redox Dark S)		United (Expla	iii iii Keiliaiks)	
Depleted B	elow Dark S	urface (A1	1)	Depleted Dark	•	•				
	Surface (A1	,		Redox depres				2		
Sandy Muck	k Mineral (S	1)		Vernal Pools (Indicators of h	ydrophytic vegetation and ology must be present.	
Sandy Gley	ed Matrix (S	4)						wettand riyur	ology must be present.	
trictive I av										
tilictive La	yer (if pres	ent):								
Type:	yer (if pres	ent):						Undria Cail Drago	unta Vac 📵 Na 🖯	
-		ent):						Hydric Soil Prese	ent? Yes No	
Type:		ent):						Hydric Soil Prese	ent? Yes • No	
Type: Depth (inche	es):		turation					Hydric Soil Prese	ent? Yes • No	
Type:	es):		turation					Hydric Soil Prese	ent? Yes No	
Type: Depth (inche	es):		turation					Hydric Soil Prese	ent? Yes No	
Type: Depth (inche	es):		turation					Hydric Soil Prese	ent? Yes No	
Type: Depth (incher emarks: dric soils ass	es):		turation					Hydric Soil Prese	ent? Yes No	
Type:	es):sumed bas	ed on sa	turation					Hydric Soil Prese	ent? Yes No	
Type:	es):sumed bas	ed on sa		l; check all that ar	(ylac				ent? Yes No	ired)
Type:	es): sumed bas ology Indic ators (mini	ed on sa		l; check all that an				Secondar		ired)
Type:	ology Indicators (minister (A1)	ed on sa			311)			Secondar Water	y Indicators (2 or more requi	ired)
Type:	sumed bas ology Indicators (minister (A1)	ed on sa		Salt Crust (F	311) (B12)	(B13)		Secondar Water Sedime	y Indicators (2 or more requi Marks (B1) (Riverine)	ired)
Type:	sumed bas ology Indicators (minister (A1)	ed on sa eators: mum of (Salt Crust (E	B11) (B12) ertebrates			Secondar Water Sedim	y Indicators (2 or more requi Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine)	ired)
Type: Depth (inche marks: ric soils ass drology tland Hydromary Indica Surface Wa High Water Saturation Water Mark	sumed bas ology Indicators (minister (A1) Table (A2) (A3)	ed on sa	one required	Salt Crust (I Biotic Crust Aquatic Invo	311) (B12) ertebrates ulfide Odo		g Roots (C3)	Secondar Water Sedime	y Indicators (2 or more requi Marks (B1) (Riverine) ent Deposits (B2) (Riverine)	ired)
Type: Depth (inche marks: Iric soils ass drology tland Hydromary Indica Surface Wa High Water Saturation Water Mark Sediment D	ology Indicators (miniter (A1) Table (A2) (A3) ss (B1) (Non	ed on sa	one required	Salt Crust (I Biotic Crust Aquatic Invo	311) (B12) ertebrates ulfide Odo izospheres	r (C1) s along Livin	g Roots (C3)	Secondar Water Sedim Drift D Draina Dry Se	y Indicators (2 or more requi Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10)	ired)
Depth (inche emarks: dric soils assurdrology etland Hydro imary Indica Surface Wa High Water Mark Saturation Water Mark Sediment D Drift deposit	ology Indicators (minister (A1) Table (A2) (A3) (A3) (A5) (A6) (A6) (A6) (A6) (A6)	ed on sa cators: mum of of riverine)) (Nonriverneriverine)	one required	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh	311) (B12) ertebrates ulfide Odo izospheres Reduced	r (C1) s along Livin		Secondar Water Sedim Drift D Draina Dry Se Crayfis	y Indicators (2 or more requi Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2)	
Type: Depth (inches marks: dric soils assisted drology etland Hydromary Indicas Surface Wa High Water Saturation Water Mark Sediment D Drift deposi Surface Soi	ology Indicators (minister (A1) Table (A2) (A3) (A3) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	ed on sa cators: mum of (Nonriverine) (Nonriverine)	one required	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh	311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior	r (C1) s along Living Iron (C4) n in Plowed S		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura	y Indicators (2 or more requi Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9	
Type:	ology Indicators (minister (A1) Table (A2) (A3) ss (B1) (Non Deposits (B2) its (B3) (Nor	ed on sa eators: mum of of riverine) (Nonriverine) (Nonriverine) erial Imag	one required	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron	311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (CT	r (C1) s along Living Iron (C4) n in Plowed S		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more requi Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) th Burrows (C8)	
Depth (inche emarks: dric soils assuration water Mark Sediment D. Drift deposite Surface Soil Inundation water-Stair	ology Indicators (minister (A1) Table (A2) (A3) (A3) (A3) (A5) (B1) (Non Deposits (B2) (B3) (Nor Il Cracks (B6 Visible on A	ed on sa eators: mum of of riverine) (Nonriverine) (Nonriverine) erial Imag	one required	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (CT	r (C1) s along Living Iron (C4) n in Plowed S		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more requi Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3)	
Type: Depth (inche emarks: dric soils assumated by drology etland Hydrominary Indication Surface Wa High Water Mark Sediment D Drift deposi Surface Soi Inundation Water-Stair	ology Indicators (minister (A1) Table (A2) (A3) (A3) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	ed on sa eators: mum of of riverine) (Nonriverine) (Nonriverine) erial Imag	one required ine) ery (B7)	Salt Crust (I Biotic Crust Aquatic Invu Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (CT ain in Rem	r (C1) s along Living Iron (C4) n in Plowed S		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more requi Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) h Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3)	
Type: Depth (inche emarks: dric soils ass ydrology etland Hydro imary Indica Surface Water High Water Saturation Water Mark Sediment D Drift deposi Surface Soi Inundation Water-Stair etld Observat	ology Indicators (miniter (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	ed on sa eators: mum of of riverine) (Nonriverineriverine) (Porial Image (Porial Image	one required ine) ery (B7)	Salt Crust (I Biotic Crust Aquatic Invu Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	and the state of t	r (C1) s along Living Iron (C4) n in Plowed S 7) narks)		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more requi Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9 w Aquitard (D3) eutral Test (D5)	
Type: Depth (inchese marks: dric soils assumed by the control of t	ology Indicators (minister (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	ed on sar eators: mum of of riverine) (Nonri	one required ine) ery (B7) No No No No	Salt Crust (I Biotic Crust Aquatic Invu Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	B11) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Surface (C: ain in Rem	r (C1) s along Living Iron (C4) n in Plowed 5 7) narks)	Goils (C6)	Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more requi Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C5) w Aquitard (D3) eutral Test (D5)	
Depth (inche emarks: dric soils assemble definition of the emarks: d	ology Indicators (minister (A1) Table (A2) (A3) ss (B1) (Non Deposits (B2) its (B3) (Nor il Cracks (B6 Visible on A ned Leaves (tions: Present? esent? ery fringe)	ed on sa eators: mum of of (Nonriver neriverine) (Nonriver neriverine) (B9) Yes	one required ine) ery (B7) No • No • No •	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	and the state of t	r (C1) s along Living Iron (C4) n in Plowed \$ 7) harks) 6	Goils (C6)	Secondar Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov FAC-no	y Indicators (2 or more requi Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C5) w Aquitard (D3) eutral Test (D5)	
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Depth (inche marks: drology etland Hydro mary Indica Surface Wa High Water Saturation Water Mark Sediment D Drift deposi Surface Soi Inundation Water-Stair eld Observa face Water Presecutes capilla	ology Indicators (minister (A1) Table (A2) (A3) ss (B1) (Non Deposits (B2) its (B3) (Nor il Cracks (B6 Visible on A ned Leaves (tions: Present? esent? ery fringe)	ed on sa eators: mum of of (Nonriver neriverine) (Nonriver neriverine) (B9) Yes	one required ine) ery (B7) No • No • No •	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	and the state of t	r (C1) s along Living Iron (C4) n in Plowed \$ 7) harks) 6	Goils (C6)	Secondar Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov FAC-no	y Indicators (2 or more requi Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C5) w Aquitard (D3) eutral Test (D5)	
Type:	ology Indicators (minister (A1) Table (A2) (A3) ss (B1) (Non Deposits (B2) its (B3) (Nor il Cracks (B6 Visible on A ned Leaves (tions: Present? esent? ery fringe)	ed on sa eators: mum of of (Nonriver neriverine) (Nonriver neriverine) (B9) Yes	one required ine) ery (B7) No • No • No •	Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	and the state of t	r (C1) s along Living Iron (C4) n in Plowed \$ 7) harks) 6	Goils (C6)	Secondar Water Sedime Drift D Draina Dry Se Crayfis Satura Shallov FAC-no	y Indicators (2 or more requi Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) ason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C5) w Aquitard (D3) eutral Test (D5)	

SUNRIVER/DESCHUTES Sampling Date: 22-Jun-10
State: OR Sampling Point: SP 16A
Township, Range: S 26 T 21 S R 10 E
f (concave, convex, none): flat Slope: 0.0% / 0.0
Long.: -121.4971 Datum: NAD83
NWI classification: PEMA
es No (If no, explain in Remarks.)
Are "Normal Circumstances" present? Yes No
(If needed, explain any answers in Remarks.)
point locations, transects, important features, et
Joint locations, transects, important leatures, et
e Sampled Area
in a Wetland? Yes ○ No •
t
Indicator Dominance Test worksheet: Status
Number of Dominant Species FAC That are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant Species Across All Strata: 3 (B)
Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL species 0 x 1 = 0
FACW species45 x 2 =90
FAC species $\frac{10}{30}$ x 3 = $\frac{30}{30}$
FACU speciles $\frac{20}{0}$ x 4 = $\frac{80}{0}$
FACW UPL species $\frac{0}{x}$ 5 = $\frac{0}{x}$
FACU Column Totals: 75 (A) 200 (B)
FAC Prevalence Index = B/A = 2.667
Hydrophytic Vegetation Indicators:
Dominance Test is > 50%
Prevalence Index is ≤3.0 ¹
Morphological Adaptations ¹ (Provide supporting
data in Remarks or on a separate sheet)
Wetland Non-Vascular Plants ¹
Problematic Hydrophytic Vegetation ¹ (Explain)
ver 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Hydrophytic Vegetation
ver Present? Yes • No •
_

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: 16A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth % Loc2 Color (moist) % Texture Remarks (inches) Color (moist) Type 1 0-20 10YR 2/2 100% Silt Loam ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ☐ Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No • **Hydric Soil Present?** Yes C Depth (inches): Remarks: dry, no moisture Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) U Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes O No 💿 Surface Water Present? Depth (inches): Yes \bigcirc No 💿 Water Table Present? Depth (inches): Yes O No 💿 Wetland Hydrology Present? Saturation Present? Yes O No 💿 Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks:

roject/Site: DESCHUTES LWI		City/County:	Sunriver/D	eschutes	Sampli	ng Date: _(07-May-10	
pplicant/Owner: DESCHUTES COUNTY				State: OR	Sam	pling Poin	ıt:S	SP 17
nvestigator(s): ALISON SIGLER, ROSEMARY BAKER		Section, To	wnship, R	ange: S 26	T 20 S	R 10 E		
Landform (hillslope, terrace, etc.): Valley bottom		Local relief	(concave,	convex, none): CONC	ave	Slope:	0.0%	6 / 0.0
ubregion (LRR): LRR B	 Lat.: 43			Long.: -121.4927		–	atum: NA	
		7.0117			ecification			
oil Map Unit Name: <u>Not available</u> e climatic/hydrologic conditions on the site typical for this t		. Voc	• No (ssification			
	•			,.,.			No	\bigcirc
	significantly			lormal Circumstances	•			
-	naturally pro			eded, explain any ans			atura	s ata
summary of Findings - Attach site map sho	Jwilly Sa	inpling po	1111 1002	ations, transect	is, impo	i taiit is	eature	s, etc.
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	Area				
Hydric Soil Present? Yes No		within	a Wetland	_{1?} Yes ⊙ No 🤇				
Wetland Hydrology Present? Yes ● No ○		***************************************	u wonan					
Remarks:								
VEGETATION - Use scientific names of plan	ts.	DominantSpecies?						
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test w				
1. Pinus contorta	5	1 00.0%	FAC	Number of Dominant That are OBL, FACW,			4	(A)
2.	0	0.0%						. ,
3		0.0%		Total Number of Don Species Across All Str			4	(B)
4.	0	0.0%		Species Neross Am Su	utu.	_		(5)
	5	= Total Cove	er	Percent of domina		10	00.0%	(A/B)
Sapling/Shrub Stratum (Plot size:				That Are OBL, FAC	vv, or FAC		2.2.0	(110)
1. Betula glandulosa		33.3%	OBL	Prevalence Index v	vorksheet:			
2. Salix geyeriana		66.7%	FACW	Total % Cove	er of:	Multiply b	oy:	_
3		0.0%		OBL speci es	110	x 1 =	110	
4 5.		0.0%		FACW species		x 2 =	40	
J	0	0.0%		FAC speci es	5	x 3 =	15	
Herb Stratum (Plot size:	30	= Total Cove	er	FACU species	0	x 4 =	0	ı
1. Caray palaraganaia	100	1 00.0%	OBL	UPL speci es	0	x 5 =	0	
1, Carex hebrascensis 2,		0.0%		Column Totals:	135	(A)	165	(B)
3		0.0%		Prevalence Inc	dex = B/A	= _1	.222	
4	_	0.0%		Hydrophytic Vegeta	ation Indica	ators:		
5		0.0%		✓ Dominance Te				
6,	0	0.0%		✓ Prevalence In	dex is ≤3.0	1		
7		0.0%		☐ Morphological	Adaptatio	ns 1 ¹ , rov	ide supp	orting
8		0.0%		data in Remar	ks or on a	separate s	heet)	-
9		0.0%		Problematic H	ydrophytic	Vegetatio	on 1 (¹ (pl	lain)
10 11.		0.0%						
	100	= Total Cove	er	1 Indicators of hydbe present, unless	Iric soil and	l wetland or problen	hydrolog natic.	y must
Woody Vine Stratum (Plot size:				-				
1		0.0%						
2	0	0.0%		Hydrophytic Vegetation				
	0	= Total Cove	er	Present?	es 💿 No	\circ		
		- 10tal 0010		Present:		-		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth		Matrix	•	eeded to document Red	dox Feat			and of majorit	•
(inches)	Color (moist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks
0-3	10YR	2/2	100%					Silt Loam	
3-8	10YR	3/3	100%					Peat	
8-20	10YR	2/1	50%					Silt Loam	some sand, 2 matrices
	10YR	2/2	50%						
- · · · · · · · · · · · · · · · · · · ·		•		ced Matrix, CS=Cover			ins ² Loca		,
		(Applicab	le to all LR	Rs, unless otherwis)			Problematic Hydric Soils: ³
Histosol ((AT) ipedon (A2)			Sandy Redox Stripped Matri				1 cm Muck	
Black His	•			Loamy Mucky		-1\			(A10) (LRR B)
	n Sulfide (A4)			Loamy Gleyed				Reduced Ve	, ,
Stratified	Layers (A5)	(LRR C)		Depleted Matr		2)			Material (TF2)
1 cm Mud	ck (A9) (LRR	D)		Redox Dark S)		✓ Other (Expla	ain in Remarks)
	Below Dark S	•	1)	Depleted Dark	•	•			
_	rk Surface (A´	,		Redox depres		. ,		2	
_	uck Mineral (S			Vernal Pools (Indicators of h	ydrophytic vegetation and ology must be present.
	eyed Matrix (-						wettaria riyar	ology must be present.
	ayer (if pre	sent):							
Type:								Hydric Soil Prese	ent? Yes (•) No (
Depth (inc	ches):	RATION.						Hydric Soil Prese	ent? Yes No
Depth (inc Remarks: YDRIC SOII	LS BY SATU	RATION.						Hydric Soil Prese	ent? Yes • No O
Depth (inc Remarks: YDRIC SOII	LS BY SATU	RATION.						Hydric Soil Prese	ent? Yes No
Depth (inc Remarks: YDRIC SOII	LS BY SATU							Hydric Soil Prese	ent? Yes No
Depth (inc Remarks: IYDRIC SOII Iydrolog Wetland Hyd Primary Ind	S BY SATU y drology Indi icators (min	cators:	one require	ed; check all that ap					ent? Yes No view No
Depth (inc Remarks: IYDRIC SOII Iydrolog Wetland Hyd Primary Ind	y drology Indi icators (min Nater (A1)	cators: imum of (one require	Salt Crust (E	311)			Secondar	y Indicators (2 or more required) Marks (B1) (Riverine)
Depth (inc Remarks: IYDRIC SOII Iydrolog Wetland Hyd Primary Ind Surface V	y drology Indi icators (min Nater (A1) er Table (A2)	cators: imum of (one require	Salt Crust (E	311) (B12)	(0.00)		Secondar Water Sedim	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine)
Depth (inc Remarks: IYDRIC SOII Iydrolog Wetland Hyd Primary Ind W Surface W High Wat Saturatio	y drology Indi icators (min Water (A1) ter Table (A2) n (A3)	cators: imum of (one require	Salt Crust (E Biotic Crust Aquatic Inve	311) (B12) ertebrates			Secondar Water Sedim Drift D	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) leposits (B3) Riverine)
Depth (inc Remarks: IYDRIC SOII Iydrolog Wetland Hyd Primary Ind Surface V High Wat Saturatio Water Ma	y drology Indi icators (min Vater (A1) ter Table (A2) n (A3) arks (B1) (Nor	cators: imum of o		Salt Crust (E Biotic Crust Aquatic Inve	311) (B12) ertebrates ulfide Odo	r (C1)	a Paste (C2	Secondar Water Sedim Drift D	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) ge Patterns (B10)
Depth (inc Remarks: IYDRIC SOII Iydrolog Wetland Hyd Primary Ind Surface V High Wat Water Ma	y drology Indi icators (min Water (A1) ter Table (A2) n (A3) arks (B1) (Noi t Deposits (B2	cators: imum of o nriverine)	rine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh	311) (B12) ertebrates ulfide Odo izospheres	r (C1) s along Living	g Roots (C3	Secondar Water Sedim Drift D Draina Dry Se	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) leposits (B3) Riverine) ge Patterns (B10) leason Water Table (C2)
Depth (inc Remarks: IYDRIC SOII Iydrolog Wetland Hyd Primary Ind V Surface V High Wat V Saturatio Water Ma Sediment Drift dep	y drology Indi icators (min Nater (A1) ter Table (A2) n (A3) arks (B1) (Noi t Deposits (B2 osits (B3) (Noi	cators: imum of of nriverine) () (Nonriverine)	rine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of	311) (B12) ertebrates ulfide Odo izospheres Reduced	r (C1) s along Living Iron (C4)		Secondar Water Sedim Drift D Draina Dry Se	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) ge Patterns (B10) deason Water Table (C2)
Depth (inc Remarks: IYDRIC SOII Surface V High Wate Saturatio Water Ma Sediment Drift dept Surface S	y drology Indi icators (min Nater (A1) ier Table (A2) in (A3) arks (B1) (Noi it Deposits (B2 oosits (B3) (No ooil Cracks (B6)	cators: imum of of of of other income of other	rine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron	311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior	r (C1) s along Living Iron (C4) n in Plowed S		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) ge Patterns (B10) deason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9)
Depth (inc Remarks: YDRIC SOII Iydrolog Vetland Hyc Primary Ind V Surface V V High Wat V Saturatio Water Ma Sediment Drift depo	y drology Indi icators (min Nater (A1) ter Table (A2) n (A3) arks (B1) (Noi t Deposits (B2 osits (B3) (Noi	cators: imum of (nriverine) () (Nonriverine) (neriverine) () Aerial Imag	rine)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of	(B12) ertebrates ulfide Odo izospheres Reduced Reductior surface (C	r (C1) s along Living Iron (C4) n in Plowed S		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3)
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Depth (inc Remarks: IYDRIC SOII Iydrolog Wetland Hyc Frimary Ind Surface V High Wate Sediment Drift dept Surface S Inundatic Water-St. Field Observ Surface Water	y drology Indi icators (min Water (A1) ter Table (A2) n (A3) arks (B1) (Not t Deposits (B2) osits (B3) (Not Goil Cracks (B6) on Visible on V ained Leaves vations: r Present?	cators: imum of of of of the control	ery (B7)	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	811) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (Ci	r (C1) s along Living Iron (C4) n in Plowed S 7) parks)		Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallo	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) eposits (B3) Riverine) ge Patterns (B10) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3)
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Depth (inc Remarks: IYDRIC SOII Iydrolog Wetland Hyc Frimary Ind Surface V High Wat Saturatio Water Ma Sediment Drift depo	y drology Indi icators (min Water (A1) ter Table (A2) n (A3) arks (B1) (Not t Deposits (B2) osits (B3) (Not Soil Cracks (B6 on Visible on A ained Leaves vations: r Present? esent?	cators: imum of of of of the control	ery (B7) No (No (Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	(B12) ertebrates ulfide Odo izospheres Reduced Reductior surface (Cain in Rem	r (C1) s along Living Iron (C4) n in Plowed S 7) parks)	Goils (C6)	Secondar Water Sedim Drift D Draina Dry Se Crayfis Satura Shallor FAC-ne	y Indicators (2 or more required) Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) ge Patterns (B10) deson Water Table (C2) desh Burrows (C8) tion Visible on Aerial Imagery (C9) w Aquitard (D3) deutral Test (D5)
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Project/Site: DESCHUTES LWI			City/County: SUNRIVER/DESCHUTES Sampling Date: 22-Jun-10					
Applicant/Owner: DESCHUTES COUNT	ТҮ				State: OR	Sampling Point:	SP 17A	
Investigator(s): ALISON SIGLER, SAR	AH HARTUNG		Section, To	wnship, R	ange: \$ 35 T 2	21 S R 10 E		
Landform (hillslope, terrace, etc.):	Floodplain		Local relief	(concave,	convex, none): flat	Slope:	0.0% / 0.0 °	
Subregion (LRR): LRR A		Lat .: 43	.7142		Long.: -121.4951	Datı	um: NAD83	
Soil Map Unit Name: 29A: Cryaquolls	s, 0 to 3 percent slopes				NWI classi	fication: PSSC		
Are climatic/hydrologic conditions on	the site typical for this t	time of year	? Yes	. ● No C	(If no, explain in	Remarks.)		
Are Vegetation . , Soil	, or Hydrology 🗌 s	ignificantly	disturbed?	Are "N	lormal Circumstances" p	oresent? Yes •	No \bigcirc	
Are Vegetation , Soil	, or Hydrology 🔲 n	naturally pro	blematic?	(If ne	eded, explain any answe	ers in Remarks.)		
Summary of Findings - At	tach site map sho	owing sa	mpling p	•	•	•	atures, et	
Hydrophytic Vegetation Present?	Yes No		Is the	Sampled A	Area			
Hydric Soil Present?	Yes No			a Wetland	Vac (Na (
Wetland Hydrology Present?	Yes ● No ○		Within	i a wetiant				
VEGETATION - Use scien	itific names of plant		Dominant Species?					
Tree Stratum (Plot size:)	Absolute % Cover		Indicator Status	Dominance Test work	sheet:		
1,	,	0	0.0%		Number of Dominant Sp That are OBL, FACW, or		B (A)	
2.		0	0.0%					
3		•	0.0%		Total Number of Domina Species Across All Strata		B (B)	
4		0	0.0%		Percent of dominant S	Species		
Sapling/Shrub Stratum (Plot size:)	0	= Total Cove	er	That Are OBL, FACW,		.0% (A/B)	
1. Salix exigua			100.0%	OBL	Prevalence Index work	ksheet:		
2			0.0%		Total % Cover o			
3 4.			0.0%			40 x 1 =	40	
4 5.		0	0.0%			80 x 2 =	160 0	
		20	= Total Cove		FAC species	^ ^ 3	0	
Herb Stratum (Plot size:)		- rotal cove		UPL species —	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	
1. Phalaris arundinacea			70.0%	FACW	•	120 (A)	200 (B)	
2 Carex aquatilis			20.0%	OBL	Prevalence Index	(N)	67	
3 Juncus balticus		0	0.0%	FACW			67	
4.————————————————————————————————————			0.0%		Hydrophytic Vegetation Dominance Test i			
6			0.0%		✓ Prevalence Index			
7		0	0.0%			laptations ¹ (Provide	e supportina	
8.—			0.0%			or on a separate she		
9			0.0%		Wetland Non-Vas	scular Plants ¹		
10.————————————————————————————————————			0.0%		Problematic Hydr	rophytic Vegetation	(Explain)	
	\	100	= Total Cove	er	¹ Indicators of hydric s be present, unless dis			
Woody Vine Stratum (Plot size:)	0	0.0%				-	
1. 2.		- 0	0.0%		Hydrophytic			
		0	= Total Cove		Vegetation Present? Yes	No ○		
% Bare Ground in Herb Stratum	n: 0		. 3.0. 0000		rieseilt!			
Remarks:					<u>l</u>			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

il										
Profile Description: (Describe to the depth needed to document the indicator or confirm the								onfirm the	absence of indicato	rs.)
Depth Matrix (inches) Color (moist)			Calan (ma				12	Tavetuna	Damanda	
inches)				Color (mo	oist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR	3/2	100%						organics and loam	w/ organics
4-8	10YR	3/1	90%	10YR	4/6	10%	C	PL	Loam	w/ organics
8-9	10YR	3/1	100%						Sand	
9-19	10YR	3/1	70% -	10YR	4/6	30%	C	M	Sandy Loam	w/ organics
dric Soil Inc	dicators: (•		ed Matrix, CS	therwise	noted.)		ains ² Loca		oblematic Hydric Soils:3
Histosol (A1 Histic Epiped Black Histic Hydrogen St Depleted Be	edon (A2) (A3)	ırface (A1	1)	Strippe Loamy	Redox (S ed Matrix y Mucky M y Gleyed M ted Matrix	(S6) Mineral (F1 Matrix (F2	1) (except i	n MLRA 1)	2 cm Muck (A	·
Thick Dark S Sandy Muck	Surface (A12 k Mineral (S1 ed Matrix (S4	()) 1)			Dark Sur ted Dark S depressio	Surface (F	- 7)			ophytic vegetation and gy must be present, or problematic.
•	yei (ii pi ese	:IIL).								
Type:										
Type: Depth (inche emarks:	es):								Hydric Soil Presen	t? Yes ● No ○
Depth (inche marks:	es):								Hydric Soil Presen	nt? Yes ● No ○
Depth (inche marks:		ators							Hydric Soil Presen	t? Yes ● No ○
Depth (inche marks: drology tland Hydro	ology Indica		ppo roquiro	d. chack all	that ann	alu)				
Depth (inche marks: drology tland Hydro mary Indica	ology Indica		ne require			3.	(RQ) (evce	ot MI PA	Secondary	Indicators (minimum of two rec
Depth (inche marks: drology tland Hydromary Indica Surface Wa	ology Indica ators (minin ater (A1)		one required	☐ Wat		d Leaves	(B9) (excep	ot MLRA	Secondary	Indicators (minimum of two rec tained Leaves (B9) (MLRA 1, 2,
Depth (inche marks: drology tland Hydro mary Indica Surface Wa High Water	ology Indica ators (minin ater (A1) r Table (A2)		one required	U Wate 1, 2	er-Stained	d Leaves 4B)	(B9) (excep	ot MLRA	Secondary Water-S 4A, and	Indicators (minimum of two rec tained Leaves (B9) (MLRA 1, 2, 4B)
Depth (inche marks: drology tland Hydromary Indica Surface Wa	ology Indicators (mininater (A1) r Table (A2) (A3)		ne require	Wate 1, 2	er-Stained , 4A, and	d Leaves 4B)		ot MLRA	Secondary Water-S 4A, and Drainage	Indicators (minimum of two rec tained Leaves (B9) (MLRA 1, 2,
Depth (inche marks: drology tland Hydro mary Indica Surface Wa High Water Saturation (ology Indicators (mininater (A1) r Table (A2) (A3)	num of c	one required	Wate 1, 2, Salt	er-Stained , 4A, and Crust (B1	d Leaves 4B) 1) tebrates ((B13)	ot MLRA	Secondary Water-S 4A, and Drainage Dry Seas	Indicators (minimum of two rec tained Leaves (B9) (MLRA 1, 2, 4B) e Patterns (B10)
drology tland Hydro mary Indica Surface Wa High Water Saturation (ology Indicators (mininater (A1) r Table (A2) (A3) ks (B1) Deposits (B2)	num of c	one required	☐ Watt 1, 2 ☐ Salt ☐ Aqua	er-Stained , 4A, and Crust (B1 atic Invert	d Leaves 4B) 1) tebrates ((B13)		Secondary Water-S 4A, and Drainage Dry Seas	Indicators (minimum of two rec tained Leaves (B9) (MLRA 1, 2, 4B) e Patterns (B10) son Water Table (C2)
drology tland Hydro mary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi	ology Indicators (mininater (A1) r Table (A2) (A3) ks (B1) Deposits (B2)	num of c	one required	☐ Watt 1, 2 ☐ Salt ☐ Aqui ☐ Hydi ☐ Oxid	er-Stained , 4A, and Crust (B1 atic Invert	d Leaves (4B) 1) tebrates (fide Odorospheres	(B13) (C1) on Living F		Secondary Water-S 4A, and Drainage Dry Sease Saturatie Geomory	Indicators (minimum of two rec tained Leaves (B9) (MLRA 1, 2, 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C9)
drology tland Hydro mary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi	ology Indica ators (minin ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4)	num of c	one required	Wate 1, 2, 2 Salt Aqui	er-Stained, 4A, and Crust (B1 atic Invertingen Sulidized Rhized	d Leaves (4B) 1) tebrates (fide Odor ospheres	(B13) (C1) on Living F	Roots (C3)	Secondary Water-S 4A, and Drainage Dry Seas Saturatie Geomory Shallow	Indicators (minimum of two rectained Leaves (B9) (MLRA 1, 2, 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C9) ohic Position (D2)
drology Hand Hydro hary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi	ology Indica ators (minin ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4)	num of c	one required	Wat 1, 2, Salt Aqui Hydi Oxid	er-Stainec, 4A, and Crust (B1 atic Invertorgen Sulidized Rhize sence of Rent Iron R	d Leaves (4B) 1) tebrates (fide Odor ospheres deduced In Reduction	(B13) (C1) on Living F ron (C4)	Roots (C3)	Secondary Water-S 4A, and Drainage Dry Sea: Saturatie Geomory Shallow FAC-neu	Indicators (minimum of two rectained Leaves (B9) (MLRA 1, 2, 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C9) ohic Position (D2) Aquitard (D3)
drology Iland Hydro mary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi Surface Soil	ology Indica ators (minin ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)	num of c	·	Wat 1, 2 Salt Aqui Hydi Oxid	er-Stainec, 4A, and Crust (B1 atic Invertorgen Sulidized Rhize sence of Rent Iron R	d Leaves (4B) 11) tebrates (fide Odor ospheres deduced In Reduction ressed Pla	(B13) (C1) on Living F ron (C4) in Tilled Sc ants (D1) (I	Roots (C3)	Secondary Water-S 4A, and Drainage Dry Seas Saturatie Geomory Shallow FAC-neu Raised A	Indicators (minimum of two rectained Leaves (B9) (MLRA 1, 2, 4B) Patterns (B10) Son Water Table (C2) On Visible on Aerial Imagery (C9) Onlic Position (D2) Aquitard (D3)
drology Hand Hydro Mary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi Surface Soil Inundation	ology Indica ators (minin ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) il Cracks (B6)	num of c	gery (B7)	Wat 1, 2 Salt Aqui Hydi Oxid	er-Stained, 4A, and Crust (B1 atic Invertingen Sulidized Rhizesence of Rent Iron Rated or Street	d Leaves (4B) 11) tebrates (fide Odor ospheres educed In Reduction ressed Pla	(B13) (C1) on Living F ron (C4) in Tilled Sc ants (D1) (I	Roots (C3)	Secondary Water-S 4A, and Drainage Dry Seas Saturatie Geomory Shallow FAC-neu Raised A	Indicators (minimum of two rectained Leaves (B9) (MLRA 1, 2, 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C9) ohic Position (D2) Aquitard (D3) tral Test (D5) ant Mounds (D6) (LRR A)
drology tland Hydro mary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi Surface Soil Inundation Sparsely Ve	ology Indicators (mininater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) il Cracks (B6) I Visible on Ae	num of c	gery (B7)	Wat 1, 2 Salt Aqui Hydi Oxid	er-Stained, 4A, and Crust (B1 atic Invertingen Sulidized Rhizesence of Rent Iron Rated or Street	d Leaves (4B) 11) tebrates (fide Odor ospheres educed In Reduction ressed Pla	(B13) (C1) on Living F ron (C4) in Tilled Sc ants (D1) (I	Roots (C3)	Secondary Water-S 4A, and Drainage Dry Seas Saturatie Geomory Shallow FAC-neu Raised A	Indicators (minimum of two rectained Leaves (B9) (MLRA 1, 2, 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C9) ohic Position (D2) Aquitard (D3) tral Test (D5) ant Mounds (D6) (LRR A)
drology tland Hydro mary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi Surface Soil Inundation Sparsely Ve	ology Indicators (minimater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) il Cracks (B6) Visible on Avegetated Contions:	num of c	gery (B7) Face (B8)	Wat 1, 2, Salt Aque Hydi Oxid Pres Stur Othe	er-Stained, 4A, and Crust (B1 atic Invertingen Sulidized Rhizesence of Rent Iron Rated or Street	d Leaves (4B) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	(B13) (C1) on Living F ron (C4) in Tilled Sc ants (D1) (I	Roots (C3)	Secondary Water-S 4A, and Drainage Dry Seas Saturatie Geomory Shallow FAC-neu Raised A	Indicators (minimum of two rectained Leaves (B9) (MLRA 1, 2, 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C9) ohic Position (D2) Aquitard (D3) tral Test (D5) ant Mounds (D6) (LRR A)
drology tland Hydro mary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat on Iron Deposi Surface Soil Inundation Sparsely Ve	ology Indicators (mininater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) il Cracks (B6) il Visible on Ar egetated Con tions:	erial Imaç icave Suri	gery (B7) Face (B8)	Wat 1, 2 Salt Aqu. Hydi Oxid Pres Recc Stur Othe	er-Stainec, , 4A, and Crust (B1 atic Invert rogen Sul dized Rhize sence of R ent Iron R thed or Sta er (Explain	d Leaves (4B) 11) tebrates (iffide Odor ospheres deduced III deduction ressed Plan in Remaines):	(B13) (C1) on Living F ron (C4) in Tilled Sc ants (D1) (I	Roots (C3)	Secondary Water-S 4A, and Drainage Dry Seas Saturatie Geomory Shallow FAC-neu Raised A	Indicators (minimum of two rectained Leaves (B9) (MLRA 1, 2, 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C9) ohic Position (D2) Aquitard (D3) tral Test (D5) ant Mounds (D6) (LRR A)
drology tland Hydro mary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi Surface Soil	ology Indicators (mininater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) il Cracks (B6) I Visible on Ai egetated Con tions: Present?	erial Imaç decave Surf Yes (gery (B7) Face (B8) No No No	Wat 1, 2, Salt Aqui Hydr Oxid Pres Rece Stur Othe	er-Stainec, 4A, and Crust (B1 atic Invertrogen Suldized Rhizz sence of R ent Iron R htted or Streer (Explain	d Leaves (4B) 11) tebrates (6 fide Odor ospheres deduced In Reduction ressed Plan in Remarkes): es):	(B13) (C1) on Living F ron (C4) in Tilled Sc ants (D1) (I arks)	Roots (C3) bils (C6) LRR A)	Secondary Water-S 4A, and Drainage Dry Seas Saturatie Geomory Shallow FAC-neu Raised A	Indicators (minimum of two rectained Leaves (B9) (MLRA 1, 2, 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C9) ohic Position (D2) Aquitard (D3) tral Test (D5) ant Mounds (D6) (LRR A) ave Hummocks (D7)
drology tland Hydro mary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi Surface Soil Inundation Sparsely Ve Id Observat face Water Preserved Water Preserved Soil Inundation Preserved Seludes capillar	pology Indicators (minimater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) il Cracks (B6) visible on Are getated Con tions: Present? esent? ent? ery fringe)	erial Imagicave Surl Yes (gery (B7) face (B8) No No No No	Watt 1, 2 Salt Aqu. Hydd Oxid Pres Recc Stur Othe	er-Stainec, 4A, and Crust (B1 atic Invert rogen Sul dized Rhize sence of R ent Iron R anted or Sta er (Explain	d Leaves (4B) 11) tebrates (1) fide Odor ospheres deduced II deduction ressed Plan in Remains es): es): es):	(B13) (C1) on Living Fron (C4) in Tilled Scants (D1) (I	Coots (C3) pils (C6) LRR A) Wetla	Secondary Water-S 4A, and Drainage Saturatie Geomor Shallow FAC-neu Raised A Frost He	Indicators (minimum of two rectained Leaves (B9) (MLRA 1, 2, 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C9) ohic Position (D2) Aquitard (D3) tral Test (D5) ant Mounds (D6) (LRR A) ave Hummocks (D7)
Depth (inche marks: drology tland Hydro mary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi Surface Soil Inundation Sparsely Ve d Observat face Water Preser Table Preserration Prese	pology Indicators (minimater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) il Cracks (B6) visible on Are getated Con tions: Present? esent? ent? ery fringe)	erial Imagicave Surl Yes (gery (B7) face (B8) No No No No	Wat 1, 2, Salt Aqui Hydr Oxid Pres Rece Stur Othe	er-Stainec, 4A, and Crust (B1 atic Invert rogen Sul dized Rhize sence of R ent Iron R anted or Sta er (Explain	d Leaves (4B) 11) tebrates (1) fide Odor ospheres deduced II deduction ressed Plan in Remains es): es): es):	(B13) (C1) on Living Fron (C4) in Tilled Scants (D1) (I	Coots (C3) pils (C6) LRR A) Wetla	Secondary Water-S 4A, and Drainage Saturatie Geomor Shallow FAC-neu Raised A Frost He	Indicators (minimum of two rectained Leaves (B9) (MLRA 1, 2, 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C9) ohic Position (D2) Aquitard (D3) tral Test (D5) ant Mounds (D6) (LRR A) ave Hummocks (D7)

Project/Site: DESCHUTES LWI			City/County: Sunriver/	Deschutes	Sampling Dat	e: 07-May-1	0
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sampling F	oint:	SP 18
Investigator(s): ALISON SIGLER, ROSEM	IARY BAKER		Section, Township,	Range: S 26 T	20 S R 10	 D E	
Landform (hillslope, terrace, etc.): F	loodplain		Local relief (concave	, convex, none): conca	ve Slo	De: 0.0	% / 0.0
Subregion (LRR): LRR B	<u> </u>	Lat.: 43		Long.: -121.4966		Datum: N	— —— IAD 83
			.0110		ssification: PEMC	_	
Soil Map Unit Name: <u>Not available</u> re climatic/hydrologic conditions on th	o site tunical for this	time of year?	Yes No		-	,	
	or Hydrology	significantly		Normal Circumstances		s • No	, ()
							,
Are Vegetation , Soil ,	or Hydrology	naturally pro	blematic? (If no	eeded, explain any ansv	wers in Remarks.)	
Summary of Findings - Atta	ich site map sh	nowing sa	mpling point lo	cations, transects	s, important	feature	es, etc.
Hydrophytic Vegetation Present?	Yes No		Is the Sampled	Д геа			
Hydric Soil Present?	Yes No		•	V (N- (
Wetland Hydrology Present?	Yes No		within a Wetlar	nd? les civo c			
Remarks:							
OFFSITE INVESTIGATION							
VEGETATION - Use scienti	fic names of plan	nts.	Dominant Species?				
		Absolute	Rel.Strat. Indicato	r Dominance Test wo	rksheet:		
Tree Stratum (Plot size:)	% Cover	Cover Status	Number of Dominant S	•	_	
1,			0.0%	That are OBL, FACW,	or FAC:	2	(A)
2 3.			0.0%	Total Number of Domi	nant		
3 4.			0.0%	Species Across All Stra	ıta:	3	(B)
τ				Percent of dominan	t Species		
Sapling/Shrub Stratum (Plot size:)	0	= Total Cover	That Are OBL, FAC	N, or FAC:	66.7%	_ (A/B)
1. Salix geyeriana		10	✓ 100.0%	Prevalence Index we	orksheet:		
2.		0	0.0%	Total % Cove	r of: Multip	ly by:	
3		0	0.0%	OBL speci es	90 x 1 =	90	
4		0	0.0%	FACW species	0 x 2 =	0	_
5			0.0%	FAC speci es	<u> </u>	0	_
	,	10	= Total Cover	FACU speci es	<u> </u>	0	_
Herb Stratum (Plot size:)			UPL speci es	x 5 =	0	_
Carex aquatilis Carex nebrascensis		65	✓ 72.2% OBL OBL	Column Totals:	90 (A)	90	(B)
			✓ 27.8% OBL 0.0%	Prevalence Ind	ex = Β/Δ =	1.000	
3			0.0%	-			
5,			0.0%	Hydrophytic Vegetat Dominance Tes			
6			0.0%	✓ Prevalence Ind			
7			0.0%		Adaptations 1 1.	rovide sun	porting
8,			0.0%	data in Remark	s or on a separa	te sheet)	porting
9			0.0%	Problematic Hy	drophytic Veget	ation 1 (¹ q	plain)
10,			0.0%	-			
11,				1 Indicators of hydr	ic soil and wetla	nd hvdrolo	av must
Woody Vine Stratum (Plot size:)	90	= Total Cover	be present, unless of			
		0	0.0%				_
1 2			0.0%	Hydrophytic			
<u>-</u>			= Total Cover	Vogotation	s • No O		
% Bare Ground in Herb Stratum: 1	10 21	Cover of Bioti		Present?			

US Army Corps of Engineers

Soil Sampling Point: SP 18

Arid West - Version 2 Oct. 2008

	ption: (Describe to t	he depth nee				nfirm the a	bsence of indica	ators.)		
Depth (inches)	Matrix Color (moist)		Color (moist)	ox Featui %	res Type 1	Loc2	Texture		Remarks	
(menes)	color (moist)		color (moist)		Туре	LUC	Texture		Kemarks	
				-			-			
				-						
1 Гуре: C=Con	centration. D=Depletion	n. RM=Reduced	Matrix, CS=Covere	d or Coate	d Sand Gra	ains ² Loca	tion: PL=Pore Lin	ing. M=Matr	ix	
Hydric Soil I	ndicators: (Applicab	le to all LRRs	, unless otherwise	e noted.)			Indicators for	or Problem:	atic Hydric Soils:	3
Histosol (A	11)		Sandy Redox (S5)				ck (A9) (LRR	•	
Histic Epip	edon (A2)		Stripped Matrix					ck (A10) (LRF		
Black Histi	c (A3)		Loamy Mucky		1)			Vertic (F18)	(Б)	
Hydrogen	Sulfide (A4)		Loamy Gleyed					` ,	FF2)	
Stratified L	ayers (A5) (LRR C)		Depleted Matri		,			nt Material (T	•	
1 cm Muck	(A9) (LRR D)		Redox Dark Su				✓ Other (Ex	.pıaın in kem	arks)	
Depleted E	Below Dark Surface (A1	1)	Depleted Dark		7)					
Thick Dark	Surface (A12)		Redox depress		')					
Sandy Mud	ck Mineral (S1)		Vernal Pools (F				3 Indicators o	f hydrophyti	vegetation and	
Sandy Gle	yed Matrix (S4)		□ Vernai Poois (F	9)			wetland hy	/drology mus	t be present.	
Restrictive La	yer (if present):									
Type:										
Depth (inch	ies):						Hydric Soil Pre	esent?	Yes 💿 No 🤇)
Remarks:										
	DV CATUDATION									
HYDRIC SOIL	BY SATURATION									
Hydrology	1									
-	ology Indicators:									
	ators (minimum of o	one required:							ors (2 or more r	equired)
Surface W	` ,		Salt Crust (B	,				ter Marks (B1) (Riverine)	
High Wate	r Table (A2)		Biotic Crust (Sed	iment Depos	its (B2) (Riverine)	
✓ Saturation	(A3)		Aquatic Inve	rtebrates (B13)		Drif	t Deposits (B	3) Riverine)	
Water Mar	ks (B1) (Nonriverine)		Hydrogen Su	lfide Odor	(C1)		Dra	inage Patterr	ns (B10)	
Sediment	Deposits (B2) (Nonriver	rine)	Oxidized Rhi	zospheres	along Livin	g Roots (C3)	Dry	Season Wat	er Table (C2)	
Drift depos	sits (B3) (Noneriverine)		Presence of	Reduced Ir	on (C4)		Cray	yfish Burrows	s (C8)	
Surface So	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Satu	uration Visibl	e on Aerial Imager	y (C9)
Inundation	Nisible on Aerial Imag	ery (B7)	Thin Muck Su	urface (C7)	J		Sha	llow Aquitaro	I (D3)	
☐ Water-Sta	ned Leaves (B9)		Other (Expla	in in Rema	rks)			: -neutral Tes		
Field Observa	ations:									
Surface Water		○ No ●	Depth (inch	nes):		1				
			•			_ 7				
Water Table Pr			Depth (inch	ies):		Wetla	nd Hydrology Pi	resent?	Yes No	\subset
Saturation Pres (includes capillation)		● No ○	Depth (inch	nes):			, 			
	orded Data (stream	gauge, monit	or well, aerial pho	otos, prev	ious insp	ections), if	available:			
Aerial photo	· · · · · · · · · · · · · · · · · · ·		<u> </u>							
Remarks:										
	sible from offsite and	l from aerial r	ohoto							
_a.a.a.iaiioii Vis	on on one	o aonai								

	Castian Ta		State: OR Sampling Point: SP 18A
	C		
	Section, 10	wnship, Ra	ange: S 27 T 21 S R 10 E
	Local relief	(concave, c	convex, none): convex Slope: 0.0% / 0
Lat.: 43			Long.: -121.5088 Datum: NAD83
	.,,20,		NWI classification: PEMA
	2 VAS	· O No	
-			Jormal Circumstances" present? Yes ● No ○
-			
			eded, explain any answers in Remarks.)
lowing sa	пршу р		ations, transects, important reatures, et
	Is the	Sampled A	
	within	a Wetland	_{d?} Yes ○ No •
nts	Dominant		
	Species?	Indicator	Dominance Test worksheet:
		Status	
0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC: (A)
0	0.0%		Total Number of Dominant
	0.0%		Species Across All Strata: 2 (B)
	0.0%		Percent of dominant Species
0	= Total Cove	er	That Are OBL, FACW, or FAC: 100.0% (A/B)
	0.0%		Prevalence Index worksheet:
	0.0%		Total % Cover of: Multiply by:
	\Box		0BL species 0 x 1 = 0
			FACW species $20 \times 2 = 40$
			FAC species $\underline{55}$ x 3 = $\underline{165}$
0	= Total Cove	er	FACU species $0 \times 4 = 0$
10	13.3%	FAC	UPL species
20	26.7%	FACW	Column Totals:
40	53.3%	FAC	Prevalence Index = B/A = 2.733
	6.7%	FAC	Hydrophytic Vegetation Indicators:
			✓ Dominance Test is > 50%
			✓ Prevalence Index is ≤3.0 ¹
			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	0.0%		Wetland Non-Vascular Plants ¹
	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
	0.0%		
75	= Total Cove	er	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	0.0%		
0	0.0%		Hydrophytic Vegetation
0	= Total Cove	er	Present? Yes No
	nts. Absolute % Cover 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Lat.: 43.7237	Lat.: 43.7237

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil								Sampling Point: 18A
Profile Desc	ription: (Des	cribe to tl	ne depth ne	eded to document	the indi	cator or co	nfirm the	absence of indicators.)
Depth					ox Featu			
(inches)	Color (n		<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture Remarks
0-11	10YR	2/1	100%					Loam
11-20	10YR	4/1	100%					Sand
1Type: C=Con		=Denletion	RM=Reduce	d Matrix, CS=Covere	d or Coate	ed Sand Gra	ins 2loca	ation: PL=Pore Lining. M=Matrix
J.		•		s, unless otherwise			1113 2000	Indicators for Problematic Hydric Soils: ³
Histosol ((· .ppoa.z.	o 10 an 2 1111	Sandy Redox (2 cm Muck (A10)
	ipedon (A2)			Stripped Matrix				Red Parent Material (TF2)
Black His	` '			Loamy Mucky I	•		n MLRA 1)	Other (Explain in Remarks)
	n Sulfide (A4)			Loamy Gleyed		2)		
_ :	Below Dark S)	Depleted Matri Redox Dark Su	. ,			2
	rk Surface (A1 uck Mineral (S	,		Depleted Dark				³ Indicators of hydrophytic vegetation and wetland hydrology must be present,
	leyed Matrix (S	•		Redox depress				unless disturbed or problematic.
	_ayer (if pres							
Type:	,	•						
Depth (inc	ches):							Hydric Soil Present? Yes ○ No •
Hydrolog	-							
_	drology Indic		na raquirad	; check all that app	alv)			Secondary Indicators (minimum of two required
1.1	Water (A1)	mam or o	ne required	Water-Staine		(RQ) (evcent	t MI DΔ	Water-Stained Leaves (B9) (MLRA 1, 2,
	iter Table (A2)			1, 2, 4A, and		(Бэ) (елсері	LIVILIXA	4A, and 4B)
Saturation				Salt Crust (B	11)			Drainage Patterns (B10)
Water M				Aquatic Inve	rtebrates	(B13)		Dry Season Water Table (C2)
Sedimen	nt Deposits (B2)		Hydrogen Su	lfide Odor	(C1)		Saturation Visible on Aerial Imagery (C9)
☐ Drift dep	oosits (B3)			Oxidized Rhiz	zospheres	on Living Ro	oots (C3)	Geomorphic Position (D2)
Algal Ma	it or Crust (B4))		Presence of F	Reduced I	ron (C4)		Shallow Aquitard (D3)
☐ Iron Dep	oosits (B5)			Recent Iron I	Reduction	in Tilled Soi	ils (C6)	FAC-neutral Test (D5)
	Soil Cracks (B6	•		Stunted or S	tressed Pla	ants (D1) (L	RR A)	Raised Ant Mounds (D6) (LRR A)
	ion Visible on A	-	•	Other (Explain	in in Rema	arks)		Frost Heave Hummocks (D7)
	Vegetated Co	ncave Surfa	ace (B8)					
Field Observ	vations:		_					
Surface Water	r Present?	Yes	○ No ●	Depth (inch	nes):			
Water Table F	Present?	Yes	O No ●	Depth (inch	nes):			
Saturation Pre	esent?	Yes C	No 💿	. ,			Wetla	and Hydrology Present? Yes 🔾 No 🖲
(includes capi				Depth (inch		da *:		Favadala.
Describe Red	corded Data	(stream g	auge, moni	tor well, aerial pho	itos, prev	lous inspe	ctions), if	avaliable:
Remarks:								

Soil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 percent sure climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology signif	Lat.: 43 slopes of year's ficantly or	Pominant Species? Rel.Strat.	(concave, concave, co	Normal Circumstances" present? Yes No No edded, explain any answers in Remarks.) cations, transects, important features, et
Landform (hillslope, terrace, etc.): Valley bottom Subregion (LRR): LRR A Soil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 percent sure climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology significant Are Vegetation , Soil , or Hydrology nature Summary of Findings - Attach site map showith Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Remarks:	Lat.: 43 slopes e of year' fficantly or rally prol ing sa	Pominant Species? Rel.Strat.	(concave, concave, co	Long.: -121.5032 NWI classification: PSSC (If no, explain in Remarks.) Normal Circumstances" present? Yes No ceded, explain any answers in Remarks.) cations, transects, important features, et
Subregion (LRR): LRR A Soil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 percent sure climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology significant Are Vegetation , Soil , or Hydrology nature summary of Findings - Attach site map showing Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Remarks:	slopes e of year' fficantly or rally profing sa	.7031 ? Yes disturbed? blematic? mpling policy list the within Dominant Species? Rel.Strat.	No Are "N (If nec	Long.: -121.5032 Datum: NAD83 NWI classification: PSSC (If no, explain in Remarks.) Normal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) cations, transects, important features, et
Soil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 percent stree climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology signiff Are Vegetation , Soil , or Hydrology nature. Summary of Findings - Attach site map showid Hydrophytic Vegetation Present? Yes No Yes No Remarks:	slopes e of year' fficantly or rally profing sa	? Yes disturbed? blematic? mpling p Is the within Dominant Species? Rel.Strat.	Are "N (If nee Dint loca Sampled A	NWI classification: PSSC (If no, explain in Remarks.) Normal Circumstances" present? Yes No ceded, explain any answers in Remarks.) cations, transects, important features, et
Soil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 percent stree climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology signiff Are Vegetation , Soil , or Hydrology nature. Summary of Findings - Attach site map showid Hydrophytic Vegetation Present? Yes No Yes No Remarks:	slopes e of year' fficantly or rally profing sa	? Yes disturbed? blematic? mpling p Is the within Dominant Species? Rel.Strat.	Are "N (If nee Dint loca Sampled A	NWI classification: PSSC (If no, explain in Remarks.) Normal Circumstances" present? Yes No ceded, explain any answers in Remarks.) cations, transects, important features, et
re climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology signif Are Vegetation , Soil , or Hydrology natur Summary of Findings - Attach site map showi Hydrophytic Vegetation Present? Yes No Yes No Yes No Wetland Hydrology Present? Yes No Remarks:	e of year' ificantly or rally proi	blematic? mpling periods to the second seco	Are "N (If nee Dint loca Sampled A	(If no, explain in Remarks.) Normal Circumstances" present? Yes No ceded, explain any answers in Remarks.) Cations, transects, important features, et
Are Vegetation , Soil , or Hydrology significant signi	rally proi	blematic? mpling p Is the within Dominant Species? Rel.Strat.	(If nee	Normal Circumstances" present? Yes No No eded, explain any answers in Remarks.) cations, transects, important features, et
Are Vegetation , Soil , or Hydrology nature Summary of Findings - Attach site map showi Hydrophytic Vegetation Present? Yes No Yes No Yes No Remarks:	ing sa	Is the within Dominant Species?	(If nee	eded, explain any answers in Remarks.) cations, transects, important features, et
Summary of Findings - Attach site map showi Hydrophytic Vegetation Present? Yes No Yes No Yes No No Remarks:	ing sa	Is the within Dominant Species? Rel.Strat.	Sampled A	eations, transects, important features, et
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes No Yes No	Absolute	Is the within Dominant Species? Rel.Strat.	Sampled A	Area
Hydric Soil Present? Wetland Hydrology Present? Remarks:		Dominant Species? Rel.Strat.	•	Vac A Na
Wetland Hydrology Present? Yes No Remarks:		Dominant Species? Rel.Strat.	a Wetland	d? Yes [●] No [○]
Remarks:		Dominant Species? Rel.Strat.		<u>. </u>
		Species? Rel.Strat.		
VEGETATION - Use scientific names of plants.		Species? Rel.Strat.		
VEGETATION - Use scientific names of plants.		Species? Rel.Strat.		
VEGETATION - Ose scientific flames of plants.		Species? Rel.Strat.		
			Indicator	Dominance Test worksheet:
		Cover	Status	Number of Dominant Species
1	0	0.0%		That are OBL, FACW, or FAC: 2 (A)
2	0	0.0%		Total Number of Dominant
3	0	0.0%		Species Across All Strata: 2 (B)
4		0.0%		Percent of dominant Species
Sapling/Shrub Stratum (Plot size:	0	= Total Cove	er	That Are OBL, FACW, or FAC: 100.0% (A/B)
1, Salix exigua	60	100.0%	OBL	Prevalence Index worksheet:
2	0	0.0%		Total % Cover of: Multiply by:
3	0	0.0%		0BL speci es 60 x 1 = 60
4	0	0.0%		FACW species100 x 2 =200
5	0	0.0%		FAC species $0 \times 3 = 0$
Herb Stratum (Plot size:	60	= Total Cove	er	FACU species $0 \times 4 = 0$
1 Carex sp.	100	1 00.0%	FACW	UPL species $\frac{0}{x}$ $5 = \frac{0}{x}$
2.	0	0.0%		Column Totals: <u>160</u> (A) <u>260</u> (B)
3	0	0.0%		Prevalence Index = B/A = 1.625
4	0	0.0%		Hydrophytic Vegetation Indicators:
5	0	0.0%		✓ Dominance Test is > 50%
6		0.0%		✓ Prevalence Index is ≤3.0 ¹
7	0	0.0%		Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
9	0	0.0%		Wetland Non-Vascular Plants 1
10.	0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
11.	0	0.0%		
	100	= Total Cove	er	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:				
1	0	0.0%		
2		0.0%		Hydrophytic Vegetation Present? Yes No
-	0	= Total Cove	er	Present? Yes • No
% Bare Ground in Herb Stratum: 0				
Remarks:				
Carex sp. assumed to be FACW.				

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil								Sampling Point: 19A
Profile Desc	ription: (De	scribe to Matrix	the depth ne				nfirm the	e absence of indicators.)
Depth (inches)	Color (ı			Color (moist)	dox Feat %	Type ¹	Loc2	- Texture Remarks
0-6	10YR	3/2	100%	color (illoiot)		.,,,,,		peat
6-20	10YR	2/1	100%					Silty Clay
								Jiry Glay
¹ Type: C=Cor	ncentration. D	=Depletio	n. RM=Reduce	ed Matrix, CS=Cover	ed or Coa	ted Sand Gra	ins ² Loca	cation: PL=Pore Lining. M=Matrix
Hydric Soil	Indicators:	(Applical	ble to all LRR	Rs, unless otherwi	se noted	.)		Indicators for Problematic Hydric Soils:3
Histosol	(A1)			Sandy Redox	(S5)			2 cm Muck (A10)
	ipedon (A2)			Stripped Matr				Red Parent Material (TF2)
Black His				Loamy Mucky			n MLRA 1)	✓ Other (Explain in Remarks)
	n Sulfide (A4)	S	11)	Loamy Gleyed Depleted Mat		-2)		
	l Below Dark S irk Surface (A1		11)	Redox Dark S		5)		3
	uck Mineral (S	•		Depleted Dar		•		³ Indicators of hydrophytic vegetation and wetland hydrology must be present,
	leyed Matrix (•		Redox depres	sions (F8))		unless disturbed or problematic.
	Layer (if pre							
Type:								
Depth (in	ches):							Hydric Soil Present? Yes No
Remarks:								
Hydrolog								
Wetland Hy		cators.						
-			one required	; check all that a	(vlac			Secondary Indicators (minimum of two requ
1 1	Water (A1)					s (B9) (excep	t MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
	ater Table (A2))		1, 2, 4A, an		, (B1) (oxoop		4A, and 4B)
✓ Saturation		•		Salt Crust (B11)			Drainage Patterns (B10)
☐ Water M	larks (B1)			Aquatic Inv	ertebrates	(B13)		Dry Season Water Table (C2)
Sedimen	nt Deposits (B	2)		Hydrogen S	Sulfide Odd	or (C1)		Saturation Visible on Aerial Imagery (C9)
☐ Drift dep	posits (B3)			Oxidized Rh	nizosphere	s on Living R	oots (C3)	Geomorphic Position (D2)
Algal Ma	at or Crust (B4	4)		Presence of	Reduced	Iron (C4)		Shallow Aquitard (D3)
Iron Dep	posits (B5)			Recent Iron	Reductio	n in Tilled So	ils (C6)	FAC-neutral Test (D5)
Surface	Soil Cracks (B	6)		Stunted or	Stressed F	Plants (D1) (L	.RR A)	Raised Ant Mounds (D6) (LRR A)
Inundati	ion Visible on	Aerial Ima	igery (B7)	Other (Expl	ain in Ren	narks)		Frost Heave Hummocks (D7)
Sparsely	Vegetated Co	oncave Su	rface (B8)					
Field Observ	vations:							
Surface Wate	er Present?	Yes	O No 💿	Depth (in	ches):			
Water Table I	Present?	Yes	● No ○	Depth (in	ches):	12]	
Saturation Pro		Yes					Wetla	and Hydrology Present? Yes No
(includes cap				Depth (in		0		
Describe Re	corded Data	(stream	gauge, moni	itor well, aerial ph	iotos, pre	evious inspe	ections), if	f available:
_								
Remarks:								

	time of year? ignificantly on naturally prol	Local relief .7120 ? Yes disturbed? blematic? mpling p	(concave, concave, co	convex, none): concave Long.: -121.5160 NWI classificatio (If no, explain in Rema	Datum: n: PEMA rks.) t? Yes Remarks.)	SP 20A 1.0% / 0.6 : NAD83 No O
Landform (hillslope, terrace, etc.): Lowland Subregion (LRR): LRR A oil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 perce e climatic/hydrologic conditions on the site typical for this to the Vegetation , Soil , or Hydrology solutions on the site typical for this to the Vegetation , Soil , or Hydrology not the site Vegetation , soil , or Hydrology not the site Vegetation not the site typical for this to the vegetation not the site typical for this to the vegetation not the site vegetation of the site Vegetation not not the site vegetation not not the site vegetation not not not not not not not not not n	ent slopes time of year? ignificantly o	Local relief .7120 ? Yes disturbed? blematic? mpling p	(concave, concave, co	Convex, none): concave Long.: -121.5160 NWI classification (If no, explain in Remander ormal Circumstances" presenteded, explain any answers in I	Slope: 1 Datum: n: PEMA rks.) t? Yes Remarks.)	: NAD83
oil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 perces e climatic/hydrologic conditions on the site typical for this tare Vegetation , Soil , or Hydrology sare Vegetation , Soil , or Hydrology no sure Vegetation , Soil , or Hydrology no sure Vegetation soil reversely. The state of the	ent slopes time of year? ignificantly o	.7120 ? Yes disturbed? blematic? mpling p	No C	Long.: -121.5160 NWI classificatio (If no, explain in Rema ormal Circumstances" presen	Datum: n: PEMA rks.) t? Yes Remarks.)	: NAD83
oil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 perce e climatic/hydrologic conditions on the site typical for this tare Vegetation , Soil , or Hydrology save Vegetation , Soil , or Hydrology no summary of Findings - Attach site map shows the Hydrophytic Vegetation Present? Yes No Hydrology Yes No	ent slopes time of year? ignificantly o	? Yes disturbed? blematic?	Are "N	NWI classificatio (If no, explain in Rema ormal Circumstances" presen	rks.) t? Yes •	No O
e climatic/hydrologic conditions on the site typical for this to the Vegetation , Soil , or Hydrology source Vegetation , Soil , or Hydrology no source Vegetation , Soil , or Hydrology no source Vegetation Present? Yes No Yes No Yes No O	time of year? ignificantly on naturally prol	disturbed? blematic? mpling p	Are "N	(If no, explain in Rema ormal Circumstances" presen eded, explain any answers in I	rks.) t? Yes •	
e climatic/hydrologic conditions on the site typical for this to the Vegetation , Soil , or Hydrology source Vegetation , Soil , or Hydrology no source Vegetation , Soil , or Hydrology no source Vegetation Present? Yes No Yes No Yes No O	time of year? ignificantly on naturally prol	disturbed? blematic? mpling p	Are "N	ormal Circumstances" presen	t? Yes •	
Are Vegetation , Soil , or Hydrology no summary of Findings - Attach site map show the Hydrophytic Vegetation Present? Yes No Yes No Present?	naturally pro	mpling p	(If nee	eded, explain any answers in l	Remarks.)	
Summary of Findings - Attach site map shot Hydrophytic Vegetation Present? Yes No Yes No Yes No O		mpling p		•		ures, et
Summary of Findings - Attach site map shot Hydrophytic Vegetation Present? Yes No Yes No Yes No O		mpling p		•		ures, et
Hydrophytic Vegetation Present? Yes No Yes No Yes No O				· · · · ·		•
0 0		I IS the	Camamia d A			
Wetland Hydrology Present? Yes O No •			Sampled A	Voc O No 🔘		
Wetterla Tryar Glogy Treserit.		within	a Wetland	ies C NO C		
Remarks: off-site; right of way; heavily grazed - horse pasture; PRAI VEGETATION - Use scientific names of plant		JRROWS IN I	TIELD			
VEGETATION - Ose scientific flames of plant		_Species?				
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat. Cover	Status	Dominance Test worksheet:		
1	0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC:	3	(A)
2,	0	0.0%		Total Number of Dominant		
3		0.0%		Species Across All Strata:	3	(B)
4		0.0%		Percent of dominant Specie	S	
Sapling/Shrub Stratum (Plot size:	0	= Total Cove	er	That Are OBL, FACW, or FA		6 (A/B)
1,	0	0.0%		Prevalence Index workshee	t:	
2	0	0.0%		Total % Cover of:	Multiply by:	
3		0.0%		OBL speci es 30	x 1 = 30	
4. 5.		0.0%		FACW species	x 2 = 40	
J		0.0%		FAC speci es 50	x 3 =15	
Herb Stratum (Plot size:	0	= Total Cove	er	FACU speciles 0	x 4 =0	
1 Carex aquatilis	30	✓ 30.0%	OBL	UPL species — 0	x 5 =	_
2. Poa trivialis	20	20.0%	FACW	Column Totals: 100	(A) <u>22</u>	<u>(B)</u>
3_Unidentified pasture grasses	50	50.0%	FAC	Prevalence Index = B/A	A = 2.200	_
4.		0.0%		Hydrophytic Vegetation Ind		
5		0.0%		✓ Dominance Test is > 50		
6	_	0.0%		✓ Prevalence Index is ≤3	.0 '	
7 8		0.0%		Morphological Adaptati data in Remarks or on a		
9		0.0%		Wetland Non-Vascular	•	,
10		0.0%		Problematic Hydrophyt		Evnlain)
11	_	0.0%				•
	100	= Total Cove	er	Indicators of hydric soil an be present, unless disturbed		
Woody Vine Stratum (Plot size:						
1		0.0%		Lludronhutio		
2		0.0%		Hydrophytic Vegetation Present? Yes	va ()	
0. D. O. H. H. J. O	0	= Total Cove	er	Present? Yes • I	No O	
% Bare Ground in Herb Stratum: 0						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

	-					innin the	absence of indicators.)
Depth	Matrix			dox Featu		1 2	Touton Double
nches) 0-20	Color (moist) 10YR 3/2	%	Color (moist)	%	Type	Loc ²	Texture Remarks Loam
e: C=Con	centration. D=Deple	tion. RM=Redu	ced Matrix, CS=Cover	ed or Coate	ed Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=Matrix
dric Soil I	Indicators: (Appli	able to all LR	Rs, unless otherwi	se noted.)	1		Indicators for Problematic Hydric Soils:3
Histosol ((A1)		Sandy Redox				2 cm Muck (A10)
	pedon (A2)		Stripped Matr				Red Parent Material (TF2)
	n Sulfide (A4)		Loamy Mucky Loamy Gleyed Depleted Mat	d Matrix (F2		n MLRA 1)	Uther (Explain in Remarks)
•	Below Dark Surface	(A11)	Redox Dark S	. ,			2
	k Surface (A12) uck Mineral (S1)		Depleted Dark	, ,			³ Indicators of hydrophytic vegetation and wetland hydrology must be present,
,	eyed Matrix (S4)		Redox depres		•		unless disturbed or problematic.
-	ayer (if present):						
Туре:	• • • • • • • • • • • • • • • • • • • •						
Depth (inc	thes):						Hydric Soil Present? Yes No •
narks							
marks:							
drolog	у						
drolog	y drology Indicators		ed: check all that a	oply)			Secondary Indicators (minimum of two red
drolog land Hyd nary Indi	y drology Indicators cators (minimum		ed; check all that a		(RQ) (excen	t MI RA	
drolog land Hyd nary Indi Surface V	y drology Indicators cators (minimum o Water (A1) ter Table (A2)		Water-Stain 1, 2, 4A, an	ned Leaves ad 4B)	(B9) (excep	t MLRA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
drolog land Hyc nary Indi Surface V High Wa' Saturatio	y drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3)		Water-Stair 1, 2, 4A, an Salt Crust (ned Leaves d 4B) B11)		t MLRA	
drolog land Hydnary Indi Surface V High Wa' Saturatio Water Ma	y drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1)		☐ Water-Stain 1, 2, 4A, an ☐ Salt Crust () ☐ Aquatic Inv	ned Leaves ad 4B) B11) ertebrates	(B13)	t MLRA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2)
Irolog land Hyc nary Indi Surface V High Wat Saturatic Water M: Sedimen	y drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2)		Water-Stair 1, 2, 4A, an Salt Crust (Aquatic Inv Hydrogen S	ned Leaves and 4B) B11) ertebrates aulfide Odor	(B13) · (C1)		 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) □ Drainage Patterns (B10) □ Dry Season Water Table (C2) □ Saturation Visible on Aerial Imagery (C9)
drolog land Hyd nary Indi Surface V High Wat Saturatio Water Mater	y drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3)		Water-Stair 1, 2, 4A, an Salt Crust (I Aquatic Inv Hydrogen S Oxidized Rh	ned Leaves ad 4B) B11) ertebrates dulfide Odor	(B13) · (C1) on Living R		 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) □ Drainage Patterns (B10) □ Dry Season Water Table (C2) □ Saturation Visible on Aerial Imagery (C9) □ Geomorphic Position (D2)
drolog cland Hyd nary Indi Surface V High Wat Saturatio Water Ma Sedimen Drift dep Algal Mat	y drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)		Water-Stain 1, 2, 4A, an Salt Crust (Aquatic Inv Hydrogen S Oxidized Rh Presence of	ned Leaves d 4B) B11) ertebrates ulfide Odor nizospheres	(B13) · (C1) on Living R ron (C4)	oots (C3)	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) □ Drainage Patterns (B10) □ Dry Season Water Table (C2) □ Saturation Visible on Aerial Imagery (C9) □ Geomorphic Position (D2) □ Shallow Aquitard (D3)
drolog: tland Hyd mary Indi Surface \ High Wa' Saturatic Water Ma Sedimen Drift dep Algal Ma' Iron Dep	y drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)		Water-Stair 1, 2, 4A, an Salt Crust (Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron	ped Leaves d 4B) B11) ertebrates culfide Odor bizospheres Reduced I	(B13) (C1) on Living R ron (C4) in Tilled Soi	oots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5)
cland Hydrace Naturation Surface Naturation Water Massedimen Drift dep Algal Mail Iron Dep Surface S	y drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6)	of one require	Water-Stair 1, 2, 4A, an Salt Crust (i Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or	Bertales and Leaves de 4B) B11) British and Leaves de 4B) British and Leaves de 4B d	(B13) on Living R ron (C4) in Tilled Soi	oots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drologo land Hychary Indi Surface V High Wat Saturatio Water Mi Sedimen Drift dep Algal Mat Iron Dep Surface S Inundatio	y drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	of one require	Water-Stair 1, 2, 4A, an Salt Crust (Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron	Bertales and Leaves de 4B) B11) British and Leaves de 4B) British and Leaves de 4B d	(B13) on Living R ron (C4) in Tilled Soi	oots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5)
drologitand Hydrace Mary India Surface Mary High Water Mary Sedimen Drift dep Algal Mary Iron Dep Surface S Inundation	y drology Indicators cators (minimum of Mater (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aerial I Vegetated Concave	of one require	Water-Stair 1, 2, 4A, an Salt Crust (i Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or	Bertales and Leaves de 4B) B11) British and Leaves de 4B) British and Leaves de 4B d	(B13) on Living R ron (C4) in Tilled Soi	oots (C3)	4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drologitland Hyconary India Surface V High Wa's Saturation Water Mater	y drology Indicators cators (minimum of Mater (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aerial I Vegetated Concave	of one require	Water-Stair 1, 2, 4A, an Salt Crust (I) Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or Other (Expl	led Leaves d 4B) B11) ertebrates iulfide Odor nizospheres Reduced I Reduction Stressed Pla	(B13) on Living R ron (C4) in Tilled Soi	oots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drolog tland Hyc mary Indi Surface V High Wa' Saturatic Water M: Sedimen Drift dep Algal Ma' Iron Dep Surface S Inundatic	y drology Indicators cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aerial I Vegetated Concave rations:	of one require magery (B7) Surface (B8)	Water-Stair 1, 2, 4A, an Salt Crust (i Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or Other (Expl	led Leaves d 4B) B11) ertebrates culfide Odor lizospheres Reduced I Reduction Stressed Plain in Remarkation	(B13) on Living R ron (C4) in Tilled Soi	oots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
drolog tland Hyc mary Indi Surface V High Wat Saturatio Water M: Sedimen Drift dep Algal Mat Iron Dep Surface S Inundatio Sparsely	y drology Indicators cators (minimum of Mater (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aerial I Vegetated Concave rations: Present? Ye esent? Ye esent?	magery (B7) Surface (B8)	Water-Stair 1, 2, 4A, an Salt Crust () Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or Other (Expl	led Leaves d 4B) B11) ertebrates ellipsertebrates lulfide Odor alzospheres Reduced I Reduction Stressed Pla ain in Rema	(B13) on Living R ron (C4) in Tilled Soi	oots (C3) ils (C6) RR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drologitand Hydrace Valential Maria Saturation Water Maria Sedimen Drift dep Algal Maria Iron Dep Surface Surface Surface Water Maria Water Maria Mari	y drology Indicators (cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aerial I Vegetated Concave vations: Present? Present? Veresent?	magery (B7) Surface (B8) S	Water-Stair 1, 2, 4A, an Salt Crust () Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or Other (Expl	led Leaves d 4B) B11) ertebrates ellertebrates ellertebrates ellertebrates freduced I in Reduction Stressed Plain in Remarkation (Ches):	(B13) (C1) on Living R ron (C4) in Tilled Sol ants (D1) (L	oots (C3) ils (C6) RR A) Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) □ Drainage Patterns (B10) □ Dry Season Water Table (C2) □ Saturation Visible on Aerial Imagery (C9) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ FAC-neutral Test (D5) □ Raised Ant Mounds (D6) (LRR A) □ Frost Heave Hummocks (D7)
drologicand Hydronary India Surface V High Water M: Sedimen Drift dep Algal Mai Iron Dep Surface S Inundatic Sparsely d Observe face Water er Table F aration Predudes capi	y drology Indicators (cators (minimum of Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Aerial I Vegetated Concave vations: Present? Present? Veresent?	magery (B7) Surface (B8) S	Water-Stair 1, 2, 4A, an Salt Crust (i) Aquatic Inv Hydrogen S Oxidized Rr Presence of Recent Iron Stunted or Other (Expl	led Leaves d 4B) B11) ertebrates ellertebrates ellertebrates ellertebrates freduced I in Reduction Stressed Plain in Remarkation (Ches):	(B13) (C1) on Living R ron (C4) in Tilled Sol ants (D1) (L	oots (C3) ils (C6) RR A) Wetla	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) □ Drainage Patterns (B10) □ Dry Season Water Table (C2) □ Saturation Visible on Aerial Imagery (C9) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ FAC-neutral Test (D5) □ Raised Ant Mounds (D6) (LRR A) □ Frost Heave Hummocks (D7)

		City/County: SUNRIVER/DESCHUTES Sampling Date: 23-Jun-10						
plicant/Owner: DESCHUTES COUNTY		State: OR Sampling Point: SP 21A						
vestigator(s): ALISON SIGLER, SARAH HARTUNG	Section, Township, F	Range: S 9 T 22 S R 10 E						
andform (hillslope, terrace, etc.): Floodplain	Local relief (concave,	convex, none): Slope: 2.0% /1.						
bregion (LRR): LRR A	Lat. : 43.6745	Long.: -121.5436 Datum: NAD83						
I Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 per		NWI classification: PFOA						
climatic/hydrologic conditions on the site typical for this								
e Vegetation . , Soil . , or Hydrology .	significantly disturbed? Are "	Normal Circumstances" present? Yes No						
e Vegetation, Soil, or Hydrology	naturally problematic? (If ne	eeded, explain any answers in Remarks.)						
		cations, transects, important features, et						
	lowing sampling point loc	Zations, transects, important reatures, et						
	Is the Sampled							
	within a Wetlan	_{id?} Yes ◉ No ○						
Remarks:								
EGETATION - Use scientific names of plan	nts. Dominant							
,	Species?Species?Species?Species?Species?	Dominance Test worksheet:						
ree Stratum (Plot size:	% Cover Cover Status	Number of Dominant Species						
1,		That are OBL, FACW, or FAC: (A)						
2,		Total Number of Dominant						
3 4.	0 0.0%	Species Across All Strata: 2 (B)						
<u>.</u>	0 = Total Cover	Percent of dominant Species						
apling/Shrub Stratum (Plot size:	= Iotal covel	That Are OBL, FACW, or FAC: 100.0% (A/B)						
1. Salix exigua	OBL	Prevalence Index worksheet:						
2	0 0.0%	Total % Cover of: Multiply by:						
3		OBL speci es120 x 1 =120						
4		FACW species x 2 =0						
5	0	FAC species $0 \times 3 = 0$						
lerb Stratum (Plot size:	20 = Total Cover	FACU species $0 \times 4 = 0$						
1 Carex aquatilis	100 🗹 100.0% OBL	UPL species $\frac{0}{x}$ x 5 = $\frac{0}{x}$						
2.	0 0.0%	Column Totals: 120 (A) 120 (B)						
3	0 0.0%	Prevalence Index = B/A = 1.000						
4		Hydrophytic Vegetation Indicators:						
5		✓ Dominance Test is > 50%						
6		✓ Prevalence Index is ≤3.0 ¹						
7.————————————————————————————————————		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
9		Wetland Non-Vascular Plants ¹						
10.		Problematic Hydrophytic Vegetation ¹ (Explain)						
l1								
	100 = Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
Voody Vine Stratum (Plot size:								
1,		Hydrophytic						
2	0	Hydrophytic Vegetation Present? Yes No						
2.		Voc (T/ No (/						
	= Total Cover	Present? Yes No						
2. % Bare Ground in Herb Stratum: 0	= Total Cover	Present? Tes VIVO						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

ille Descriptio	ii. (Describe to	the depth ii	eeded to docume	nt the indic	cator or co	oniirm the	absence of indicators.)
Depth	Matrix			edox Featu	res		
inches) (Color (moist)	%	Color (moist)	%	Type 1	Loc ²	Texture Remarks
0-8 1	0YR 2/1	85%	10YR 3/4	15%	C	M	Sandy Loam
8-20 7	.5YR 3/1	90%	7.5YR 3/4		C	M	Clay Loam
	ators: (Applica		ed Matrix, CS=Cove Rs, unless otherw Sandy Redox Stripped Mat	ise noted.)		ains ² Loc	ation: PL=Pore Lining. M=Matrix Indicators for Problematic Hydric Soils:3 2 cm Muck (A10)
Black Histic (A3 Hydrogen Sulfi	3) de (A4) v Dark Surface (A	11)	Loamy Muck Loamy Gleye Depleted Ma	y Mineral (F ed Matrix (F2 trix (F3)	2)	in MLRA 1)	☐ Red Parent Material (TF2) ☐ Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and
Sandy Muck Mi Sandy Gleyed I trictive Layer	neral (S1) Matrix (S4)		Depleted Da		F7)		wetland hydrology must be present, unless disturbed or problematic.
Гуре:							
							Hydric Soil Present? Yes No
Depth (inches):							Hydric Soil Present? Yes ● No ○
marks:							nyunc son Present: Yes W NO
marks:	gy Indicators:						nyunc son Present: Yes W NO
narks: Irology Iand Hydrolog		one require	d; check all that a	ipply)			Secondary Indicators (minimum of two
Irology land Hydrolog nary Indicator Surface Water	s (minimum of (A1)	one require		ned Leaves	(B9) (exce	pt MLRA	
narks: Irology Iand Hydrolog nary Indicator	s (minimum of (A1) ble (A2)	one require	☐ Water-Stai	ned Leaves nd 4B)	(B9) (exce	pt MLRA	Secondary Indicators (minimum of two Water-Stained Leaves (B9) (MLRA 1, 2,
narks: Irology Iand Hydrolog nary Indicator Surface Water High Water Ta	(A1) ble (A2)	one require	Water-Stai 1, 2, 4A, a	ned Leaves nd 4B)		pt MLRA	Secondary Indicators (minimum of two Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
drology Jand Hydrolog Darry Indicator Surface Water High Water Ta Saturation (A3	(A1) ble (A2))	one require	Water-Stai 1, 2, 4A, a Salt Crust Aquatic In	ned Leaves nd 4B) (B11)	(B13)	pt MLRA	Secondary Indicators (minimum of two Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
drology Hand Hydrolog Mary Indicator Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	s (minimum of (A1) ble (A2)) B1) posits (B2) (B3)	one require	Water-Stai 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized R	ned Leaves nd 4B) (B11) vertebrates Sulfide Odor hizospheres	(B13) · (C1) on Living I		Secondary Indicators (minimum of two Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2)
Irology Iland Hydrolog nary Indicator Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Depo	s (minimum of (A1)) ble (A2)) B1) osits (B2) (B3) rust (B4)	one require	Water-Stai 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized R Presence of	ned Leaves nd 4B) (B11) vertebrates Sulfide Odor hizospheres of Reduced I	(B13) (C1) on Living I ron (C4)	Roots (C3)	Secondary Indicators (minimum of two Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
cland Hydrolog mary Indicator Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Depo Drift deposits of Algal Mat or Ci	s (minimum of (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5)	one require	Water-Stai 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized R Presence c Recent Iro	ned Leaves nd 4B) (B11) vertebrates Sulfide Odor hizospheres if Reduced I n Reduction	(B13) - (C1) on Living I ron (C4) in Tilled So	Roots (C3)	Secondary Indicators (minimum of two Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5)
Irology Iand Hydrolog nary Indicator Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Depp Drift deposits Algal Mat or Cl Iron Deposits Surface Soil Cr	s (minimum of (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) acks (B6)		Water-Stai 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized R Presence c Recent Iro Stunted or	ned Leaves nd 4B) (B11) vertebrates Sulfide Odor hizospheres of Reduced I n Reduction Stressed Pla	(B13) - (C1) - on Living I ron (C4) - in Tilled So	Roots (C3)	Secondary Indicators (minimum of two Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Algal Mat or Cliron Deposits Surface Soil Cr Inundation Vis	s (minimum of (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5)	gery (B7)	Water-Stai 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized R Presence c Recent Iro Stunted or	ned Leaves nd 4B) (B11) vertebrates Sulfide Odor hizospheres if Reduced I n Reduction	(B13) - (C1) - on Living I ron (C4) - in Tilled So	Roots (C3)	Secondary Indicators (minimum of two Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5)
drology tland Hydrolog nary Indicator Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Depo Drift deposits Algal Mat or C Iron Deposits Surface Soil Cr Inundation Vis Sparsely Vege	s (minimum of (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) acks (B6) ible on Aerial Imatated Concave Su	gery (B7) rface (B8)	Water-Stai 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized R Presence c Recent Iro Stunted or Other (Exp	ned Leaves nd 4B) (B11) vertebrates Sulfide Odor hizospheres of Reduced I n Reduction Stressed Pladain in Rema	(B13) - (C1) - on Living I ron (C4) - in Tilled So	Roots (C3)	Secondary Indicators (minimum of two Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drology tland Hydrolog mary Indicator Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Depo Drift deposits Algal Mat or Cl Iron Deposits Surface Soil Cr Inundation Vis Sparsely Vege	s (minimum of (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) acks (B6) ible on Aerial Imated Concave Survent? Yes	gery (B7) rface (B8)	Water-Stai 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized R Presence o Recent Iro Stunted or Other (Exp	ned Leaves nd 4B) (B11) vertebrates Sulfide Odor hizospheres of Reduced I n Reduction Stressed Pladain in Remainanches):	(B13) - (C1) on Living I ron (C4) in Tilled So ants (D1) (Roots (C3)	Secondary Indicators (minimum of two Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drology tland Hydrolog mary Indicator Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Depo Drift deposits Algal Mat or Cl Iron Deposits Surface Soil Cr Inundation Vis Sparsely Vege Id Observation face Water Present uration Present?	s (minimum of (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) acks (B6) ible on Aerial Ima tated Concave Su us: ent? Yes Yes	gery (B7) rface (B8) No • No •	Water-Stai 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized R Presence of Recent Iro Stunted or Other (Exp	ned Leaves nd 4B) (B11) vertebrates Sulfide Odor hizospheres of Reduced I on Reduction Stressed Plalain in Remainches):	(B13) - (C1) - on Living I ron (C4) - in Tilled So	Roots (C3) Dils (C6) LRR A)	Secondary Indicators (minimum of two Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drology tland Hydrolog mary Indicator Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Depo Drift deposits Algal Mat or Cl Iron Deposits Surface Soil Cr Inundation Vis Sparsely Vege d Observation face Water Present are Table Present ludes capillary f	s (minimum of (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) acks (B6) ible on Aerial Imalated Concave Surent? Yes ent? Yes ringe) Yes	gery (B7) -face (B8) No No No No No No	Water-Stai 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized R Presence of Recent Iro Stunted or Other (Exp	ned Leaves nd 4B) (B11) vertebrates Sulfide Odor hizospheres of Reduced I on Reduction Stressed Pla clain in Remainanches):	(B13) - (C1) on Living I ron (C4) in Tilled Sc ants (D1) (arks)	Roots (C3) Dils (C6) LRR A) Wetla	Secondary Indicators (minimum of two Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)

Project/Site: DESCHUTES LWI	City/County: SUNRIVER/DESCHUTES Sampling Date: 23-J					un-10	
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sam	pling Point:	SP 22A
Investigator(s): ALISON SIGLER, SARAH HARTUNG		Section, To	wnship, Ra	ange: S 15	T 22 S	R 10 E	
Landform (hillslope, terrace, etc.): Valley bottom		Local relief	(concave, o	convex, none): cor	ıvex	Slope:	0.0% / 0.0
Subregion (LRR): LRR A	Lat.: 43	.6671		Long.: -121.510	7	— Datur	n: NAD83
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes					classification		
re climatic/hydrologic conditions on the site typical for this	time of year	2 Vas	. ● No ○		ain in Remark		
	significantly			lormal Circumstand			No O
	-				•		110 ©
Are Vegetation $\ igsqcup$, Soil $\ igsqcup$, or Hydrology $\ igsqcup$ Summary of Findings - Attach site map sh	naturally prol		-	eded, explain any a		•	ituros ot
Hydrophytic Vegetation Present? Yes • No	Ownig sai			-	ects, impo	ortant rea	itures, et
Hydric Soil Present? Yes No		Is the	Sampled A		\bigcirc		
Wetland Hydrology Present? Yes ● No ○		within	a Wetland	_{d?} Yes 💿 No	O		
Remarks:							
IN RIGHT OF WAY, WETLAND IN GRAZED HORSE PASTU	RE						
·							
VEGETATION - Use scientific names of plan	ts.	Dominant					
Tree Stratum (Plot size:	Absolute % Cover	Species? Rel.Strat. Cover	Indicator Status	Dominance Test	worksheet:		
1,	0	0.0%		Number of Domina That are OBL, FAC		1	(A)
2.	0	0.0%					
3		0.0%		Total Number of D Species Across All		1	(B)
4.	0	0.0%					
Sapling/Shrub Stratum (Plot size:	0	= Total Cove	er	Percent of domine That Are OBL, F.		100.0)% (A/B)
1	0	0.0%		Prevalence Index	worksheet:		
2		0.0%		Total % Co	over of:	Multiply by:	
3		0.0%		OBL species	5	x 1 =	5
4		0.0%		FACW species		–	114
5		0.0%		FAC species		× •	30
Herb Stratum (Plot size:	0	= Total Cove	er	FACU species		x 4 =	60
1 Claytonia perfoliata	10	10.9%	FAC	UPL species		x 5 =	25
Capsella bursa-pastoris	15	16.3%	FACU	Column Totals:	92	(A)	234 (B)
3 Carex sp.	55	✓ 59.8%	FACW	Prevalence	Index = B/A	= 2.54	3
4. Carex nebrascensis	5	5.4%	OBL	Hydrophytic Veg	etation Indic	ators:	
5_Verbascum thapsus	5	5.4%	UPL	✓ Dominance	Test is > 509	6	
6. Myosotis sp.		2.2%	FACW	✓ Prevalence	Index is ≤3.0) ¹	
7		0.0%				ns ¹ (Provide	
8		0.0%				separate shee	et)
9		0.0%			n-Vascular P		
11		0.0%		☐ Problemation	Hydrophytic	Vegetation ¹	(Explain)
11.		= Total Cove	er	¹ Indicators of hy be present, unle			
Woody Vine Stratum (Plot size:	-			be present, unie	ss distui bed	or problemat	
1	0	0.0%					
2	0	0.0%		Hydrophytic			
		= Total Cove	er	Vegetation Present?	Yes 💿 No	\circ	
9/ Para Cround in Harb Stratum, 0							
% Bare Ground in Herb Stratum: 8							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

ofile Desci	rintion: (Dece	rihe to t	ha danth na	adad to documen	it the indi	cator or oc	nfirm tha	absence of indicators)
	-	ribe to i Natrix	ne depin ne		dox Featu		niirm the	absence of indicators.)
Depth (inches)	Color (me		%	Color (moist)	%	Type ¹	Loc2	Texture Remarks
0-9	10YR	2/1	100%					MUCKY PEAT
9-20	10YR	2/1	100%					Silty Clay Loam
•				ed Matrix, CS=Cover			nins ² Loc	ation: PL=Pore Lining. M=Matrix
Histosol (Histic Epi Black Hist Hydroger	A1) pedon (A2)			Ss, unless otherwi Sandy Redox Stripped Mate Loamy Mucky Loamy Gleyee	(S5) rix (S6) Mineral (F d Matrix (F2	1) (except i	n MLRA 1)	Indicators for Problematic Hydric Soils:3 2 cm Muck (A10) Red Parent Material (TF2) Other (Explain in Remarks)
Thick Dar Sandy Mu Sandy Gle	k Surface (A12 uck Mineral (S1) eyed Matrix (S4 ayer (if prese)) .)		Redox Dark S Depleted Dar Redox depres	k Surface (³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Type:	ayer (if prese	ent):						
. Jpc								Hydric Soil Present? Yes No
Depth (inc	hes):							Hydric Soil Present? Yes No
emarks:								Hydric Soil Present? Yes No
emarks:	y	ators						Hydric Soil Present? Yes No
emarks: /drology etland Hyo	y Irology Indica		one required	: check all that a	(ylac			
rdrology etland Hyc imary Indi	y drology Indica cators (minim Water (A1)		one required	l; check all that a □ Water-Stair	ned Leaves	(B9) (excep	ot MLRA	Secondary Indicators (minimum of two requir Water-Stained Leaves (B9) (MLRA 1, 2,
emarks: drology etland Hyc imary Indi Surface V High Wat	y Irology Indica cators (minim Water (A1) ter Table (A2)		one required	Water-Stair 1, 2, 4A, ar	ned Leaves and 4B)	(B9) (excep	ot MLRA	Secondary Indicators (minimum of two requinum Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
drology etland Hyc imary Indi Surface V High Wat	y Irology Indica cators (minim Water (A1) ter Table (A2) in (A3)		one required	Water-Stair 1, 2, 4A, ar Salt Crust (ned Leaves ad 4B) B11)		ot MLRA	Secondary Indicators (minimum of two requir Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
rdrology etland Hyc imary Indi Surface V High Wat Saturatio Water Ma	y Irology Indica cators (minim Water (A1) ter Table (A2) in (A3) arks (B1)		one required	Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv	ned Leaves ad 4B) B11) ertebrates	(B13)	ot MLRA	Secondary Indicators (minimum of two requin Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2)
drology etland Hyc imary Indi Surface V High Wat Saturatio Water Ma	y Irology Indica cators (minim Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2)		one required	Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv	ned Leaves ad 4B) B11) ertebrates sulfide Odo	(B13)		Secondary Indicators (minimum of two requinum Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
rdrology etland Hyd imary Indi Surface N High Wat Saturatio Water Ma Sedimen Drift dep	y Irology Indica cators (minim Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3)		one required	Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S	ned Leaves id 4B) B11) ertebrates sulfide Odo nizospheres	(B13) r (C1) on Living F		Secondary Indicators (minimum of two requi Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
drology etland Hyc imary Indi Surface V High Water Ma Saturatio Water Ma Sediment Drift dep Algal Mater	y Irology Indica cators (minim Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2)		one required	Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv	ned Leaves and 4B) B11) ertebrates sulfide Odo nizospheres	(B13) r (C1) on Living F ron (C4)	coots (C3)	Secondary Indicators (minimum of two requi Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
drology etland Hydrimary Indi Surface V High Water Mai Sediment Drift dep Algal Mat	y drology Indica cators (minim Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	num of c	one required	Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Rt	ned Leaves and 4B) B11) ertebrates sulfide Odo nizospheres Reduced I	(B13) r (C1) on Living F ron (C4) in Tilled Sc	toots (C3)	Secondary Indicators (minimum of two requi Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
/drology etland Hyc imary Indi Surface V High Wat Saturatio Water Ma Sediment Drift dep Algal Mat Iron Dep Surface S Inundatio	y Irology Indica cators (minim Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on A6	num of c	gery (B7)	Water-Stair 1, 2, 4A, ar 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence of	ned Leaves ad 4B) B11) ertebrates fulfide Odo nizospheres Reduced I Reduction Stressed Pl	(B13) r (C1) on Living F ron (C4) in Tilled Sc ants (D1) (I	toots (C3)	Secondary Indicators (minimum of two required Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5)
/drology etland Hyc imary Indi Surface V High Wat Saturatio Water Ma Sediment Drift dep Algal Mat Iron Dep Surface S Inundatio	y drology Indica cators (minim Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6)	num of c	gery (B7)	Water-Stair 1, 2, 4A, ar 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iror Stunted or	ned Leaves ad 4B) B11) ertebrates fulfide Odo nizospheres Reduced I Reduction Stressed Pl	(B13) r (C1) on Living F ron (C4) in Tilled Sc ants (D1) (I	toots (C3)	Secondary Indicators (minimum of two requin Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
/drology etland Hyc imary Indi Surface V High Wat Saturatio Water Ma Sediment Drift dep Algal Mat Iron Dep Surface S Inundatio	y Irology Indica cators (minim Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Ae Vegetated Con	erial Imag cave Suri	ery (B7) Face (B8)	Water-Stair 1, 2, 4A, ar 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iror Stunted or Other (Expl	med Leaves and 4B) B11) ertebrates Gulfide Odo nizospheres Freduced I n Reduction Stressed Pl ain in Rem	(B13) r (C1) on Living F ron (C4) in Tilled Sc ants (D1) (I	toots (C3)	Secondary Indicators (minimum of two requin Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
/drology etland Hyc rimary Indi Surface V High Wat Saturatio Water Ma Sedimen Drift dep Algal Mat Iron Dep Surface S Inundatio Sparsely	y Irology Indica cators (minim Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Ac Vegetated Con rations:	erial Imaç cave Suri	gery (B7) Face (B8)	Water-Stair 1, 2, 4A, ar 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Rf Presence of Recent Iror Stunted or Other (Expl	med Leaves and 4B) B11) ertebrates Gulfide Odo nizospheres Freduced I n Reduction Stressed Pl ain in Rem	(B13) r (C1) on Living F ron (C4) in Tilled Sc ants (D1) (I	toots (C3)	Secondary Indicators (minimum of two requin Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
drology etland Hyc imary Indi Surface V High Wat Saturatio Water Ma Sediment Drift dep Algal Mat Iron Dep Surface S Inundatic Sparsely	y Irology Indica cators (minim Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Ae Vegetated Con vations:	erial Imag cave Suri	gery (B7) Face (B8)	Water-Stair 1, 2, 4A, ar 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iror Stunted or Other (Expl	med Leaves and 4B) B11) ertebrates sulfide Odo nizospheres Reduced In Reduction Stressed Plain in Rem	(B13) r (C1) on Living F ron (C4) in Tilled Sc ants (D1) (I	coots (C3) iils (C6) .RR A)	Secondary Indicators (minimum of two requir Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
drology etland Hyc rimary Indi Surface N High Wat Saturatio Water Ma Sedimen Drift dep Algal Mat Iron Dep Surface S Inundatio Sparsely eld Observ ater Table P	y Irology Indica cators (minim Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Ac Vegetated Con vations: Present? Present?	erial Imag cave Suri Yes (Yes (gery (B7) face (B8) No No No No No	Water-Stair 1, 2, 4A, ar 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Rt Presence of Recent Iror Stunted or Other (Expl	med Leaves and 4B) B11) ertebrates sulfide Odo nizospheres Freduced In Reduction Stressed Pl ain in Rem ches):	(B13) on Living F ron (C4) in Tilled Sc ants (D1) (I arks)	coots (C3) iils (C6) .RR A)	Secondary Indicators (minimum of two require Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
/drology etland Hyc imary Indi Surface V High Wat Saturatio Water Ma Sedimen Drift dep Algal Mat Iron Dep Surface S Inundatio Sparsely eld Observ ater Table P	y Irology Indica cators (minim Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Ac Vegetated Con vations: Present? Present?	erial Imag cave Suri Yes (Yes (gery (B7) face (B8) No No No No No	Water-Stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iror Stunted or Other (Expl	med Leaves and 4B) B11) ertebrates sulfide Odo nizospheres Freduced In Reduction Stressed Pl ain in Rem ches):	(B13) on Living F ron (C4) in Tilled Sc ants (D1) (I arks)	coots (C3) iils (C6) .RR A)	Secondary Indicators (minimum of two requin Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
drology etland Hyc rimary Indi Surface N High Wat Saturatio Water Ma Sedimen Drift dep Algal Mat Iron Dep Surface S Inundatio Sparsely eld Observ ater Table P	y Irology Indica cators (minim Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) Soil Cracks (B6) on Visible on Ac Vegetated Con vations: Present? Present?	erial Imag cave Suri Yes (Yes (gery (B7) face (B8) No No No No No	Water-Stair 1, 2, 4A, ar 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized Rt Presence of Recent Iror Stunted or Other (Expl	med Leaves and 4B) B11) ertebrates sulfide Odo nizospheres Freduced In Reduction Stressed Pl ain in Rem ches):	(B13) on Living F ron (C4) in Tilled Sc ants (D1) (I arks)	coots (C3) iils (C6) .RR A)	Secondary Indicators (minimum of two requii Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)

Project/Site: DESCHUTES LWI	Cit	y/County: SUNRIVER/	DESCHUTES	Sampling Date: 23-Jun-10	
Applicant/Owner: DESCHUTES COUNTY			State: OR	Sampling Point: SP 2	23A
Investigator(s): ALISON SIGLER, SARAH HARTUNG		Section, Township, R	ange: S 16 T 2	22 S R 10 E	
Landform (hillslope, terrace, etc.): Valley bottom	L	ocal relief (concave,	convex, none): concave	Slope: 0.0% /	/0.0
Subregion (LRR): LRR A	Lat .: 43.6	727	Long.: -121.5380	Datum: NAD8	33
Soil Map Unit Name: 144A: Sunriver sandy loam, 0	to 3 percent slopes		NWI classi	fication: PFOA	
re climatic/hydrologic conditions on the site typica	I for this time of year?	Yes No	(If no, explain in	Remarks.)	
Are Vegetation 🔲 , Soil 🗌 , or Hydrology	significantly di	sturbed? Are "N	lormal Circumstances" p	oresent? Yes No)
Are Vegetation, Soil, or Hydrology	naturally probl	ematic? (If ne	eded, explain any answe	ers in Remarks.)	
Summary of Findings - Attach site n	nap showing san	•		•	, et
	,0	Is the Sampled A	-	· ·	
	\circ	-	Vac (Na (
Wetland Hydrology Present? Yes No	\circ	within a Wetland	17 165 2 116 2		
VEGETATION - Use scientific names	<u> </u>	Dominant Species?			
Tree Stratum (Plot size:		Rel.Strat. Indicator Cover Status	Dominance Test work	sheet:	
1 Pinus contorta	60	✓ 100.0% FAC	Number of Dominant Sp That are OBL, FACW, or		(A)
2		0.0%			
3		0.0%	Total Number of Domina Species Across All Strata	_	(B)
4	0	0.0%	Dereent of deminent	Charles	
Sapling/Shrub Stratum (Plot size:		Total Cover	Percent of dominant S That Are OBL, FACW,		(A/B)
1. Amelanchier alnifolia		✓ 66.7% FACU	Prevalence Index wor	ksheet:	
2. Rosa sp.		2 33.3% FAC	Total % Cover of	of: Multiply by:	-
3		0.0%	OBL species	0 x 1 = 0	
4 5.	<u> </u>	0.0%		$\frac{10}{100}$ x 2 = $\frac{20}{300}$	
0		Total Cover		$\frac{120}{36}$ x 3 = $\frac{360}{144}$	
Herb Stratum (Plot size:	15 =	Total Cover	FACU specifies	0 77	
1 Equisetum sp.		5.5% FAC	UPL specifes —	x 5 =	(B)
2, Trifolium sp.		11.0% FAC	Condinii Totans.	~	(6)
3 Frageria sp.		27.5% FACU FAC	Prevalence Index		
4. Poa sp. 5 Spiraea sp.		11.0% FACW	Hydrophytic Vegetation Dominance Test in		
6 Taraxacum officinale		1.1% FACU	Prevalence Index	_	
7	0	0.0%		laptations ¹ (Provide supporti	ina
8.—		0.0%		or on a separate sheet)	ıııg
9		0.0%	☐ Wetland Non-Vas	scular Plants ¹	
10.	_ [Problematic Hydi	rophytic Vegetation ¹ (Explain	n)
11.		Total Cover		soil and wetland hydrology m	nust
Woody Vine Stratum (Plot size:	_	_	Do processi, usuose use	Tal. 200 of prozioniation	
1		0.0%			
2		0.0%	Hydrophytic Vegetation		
		Total Cover	Present? Yes	No	
% Bare Ground in Herb Stratum: 9					
Remarks:					
Rosa sp., Equisetum sp., Trifolium sp. and Poa sp	assumed FAC. Spirae	a sp. assumed FACW	. Fragaria sp. assumed l	FACU.	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: 23A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth % Color (moist) % Loc² **Texture** Remarks (inches) Color (moist) Type 1 10YR 100% sandy silt loam 0-3 3-5 10YR 3/1 100% Clay Loam 6/4 80% 5Y С 5-20 2.5Y 6/6 20% PL Sandy Clay ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 2 cm Muck (A10) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No O **Hydric Soil Present?** Depth (inches): Remarks: Soils assumed hydric based on hydrology indicator. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) High Water Table (A2) 4A, and 4B) Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes O No 💿 Depth (inches): Surface Water Present? Yes \bigcirc No 💿 Water Table Present? Depth (inches): Yes ● No ○ Wetland Hydrology Present? Saturation Present? Yes O No 💿 Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks: Landowner confirms there is early spring hydrology on-site.

Project/Site: DESCHUTES LWI		City/County: SUNRIVER/DESCHUTES Sampling Date: 23-Jun-10					
Applicant/Owner: DESCHUTES COUNTY				State: OR Sampling Point: SP 24A			
Investigator(s): ALISON SIGLER, SARAH HARTUNG		Section, To	wnship, R	ange: S 17			
Landform (hillslope, terrace, etc.): Floodplain		Local relief	(concave,	convex, none): CONVEX Slope: 0.0% / 0.0			
Subregion (LRR): LRR A	Lat.: 43	.6701		Long.: -121.5544 Datum: NAD83			
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slope				NWI classification: PSSC			
re climatic/hydrologic conditions on the site typical for the		? Yes	• No				
Are Vegetation, Soil, or Hydrology	significantly		Are "N	Iormal Circumstances" present? Yes No			
Are Vegetation, Soil, or Hydrology	naturally pro			eded, explain any answers in Remarks.)			
-				ations, transects, important features, et			
Hydrophytic Vegetation Present? Yes No			Sampled A	·			
Hydric Soil Present? Yes No			-	Vac (Na (
Wetland Hydrology Present? Yes No		withir	a Wetland	19 163 © 110 ©			
VEGETATION - Use scientific names of pla	ants.	Dominant Species?					
Tree Stratum (Plot size:	Absolute % Cover		Indicator Status	Dominance Test worksheet:			
1		0.0%		Number of Dominant Species That are OBL, FACW, or FAC:3(A)			
2.		0.0%					
3	•	0.0%		Total Number of Dominant Species Across All Strata: 3 (B)			
4		0.0%					
Sapling/Shrub Stratum (Plot size:	0	= Total Cove	er	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
1_Salix exigua	65	✓ 81.3%	OBL	Prevalence Index worksheet:			
2. Spiraea sp.	15	18.8%	FACW	Total % Cover of: Multiply by:			
3		0.0%		0BL speci es65			
4		0.0%		FACW species80			
5		0.0%		FAC species $5 \times 3 = 15$			
Herb Stratum (Plot size:	80	= Total Cove	er	FACU species $0 \times 4 = 0$			
1 Carex sp.	45	✓ 60.0%	FACW	UPL species $\frac{5}{}$ x 5 = $\frac{25}{}$			
2. Equisetum arvense	5	6.7%	FAC	Column Totals: 155 (A) 265 (B)			
3 Stellaria longifolia	20	✓ 26.7%	FACW	Prevalence Index = B/A = 1.710			
4. Galeopsis tetrahit	5	6.7%	UPL	Hydrophytic Vegetation Indicators:			
5		0.0%		✓ Dominance Test is > 50%			
6		0.0%		Prevalence Index is ≤3.0 ¹			
7	_	0.0%		Morphological Adaptations ¹ (Provide supporting			
8.————		0.0%		data in Remarks or on a separate sheet)			
10.		0.0%		Wetland Non-Vascular Plants ¹			
11.		0.0%		☐ Problematic Hydrophytic Vegetation ¹ (Explain)			
Woody Vine Stratum (Plot size:	75	= Total Cove	er	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
1	0	0.0%					
2.		0.0%		Hydrophytic			
	0	= Total Cove	er	Vegetation Present? Yes No O			
% Bare Ground in Herb Stratum: ()							
Remarks:							
50% HERB LAYER IS BARE GROUND AND OPEN WATER	R, Carex sp. and	d Spiraea sp.	assumed	FACW.			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Professing the professing to the depth needed to document the indicator or confirm the absence of indicators.) Post	oil	intion: (D-	oribe to	ha danth -	00d0d +0 -1		the indi-	otor c=	ofirm the	absonas of indicators \
Concentration Depletion RM—Reduced Matrix, CS—Covered or Costed Sand Grains 4 neation: PI = Piere Uning, M—Matrix Vigories of Indicators: (Applicable to all LRRs, unless otherwise noted.) Vigories Call Indicators: (Applicable to all LRRs, unless otherwise noted.) Vigories Call Indicators: (Applicable to all LRRs, unless otherwise noted.) Visition (A) Sardy Mack Matrix (Sa) Loany Matrix (Sa) Personal Sardy Matrix (Sa) Personal S		iption: (Des		tne deptn n	eeded to doo				ntirm the	absence of indicators.)
107R 372 100% 107R 476 15% C M Sandy Loam		Color (r		%	Color (mo				l oc²	Texture Remarks
ype: C-Concentration. D-Depletion. RM-Reduced Matrix, CS-Covered or Coated Sand Grains **Jocation: PL-Pere Lining, M-Matrix Indicators (Applicable to all LRRs, unless otherwise noted.)					00101 (1110	131)	70	<u> </u>		
Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 Indicators of Problematic Hydric Soils:3 Indicators of Problematic Hydric Soils:3 Indicators (Applicable to Applicable Hydrogen Sulfide (Ad) Indicators (Att)	7-20	2Y	3/1	85%	10YR	4/6	15%		M	Sandy Loam
Histoso (A1) Histoso (A1) Histoso (A1) Histoso (A1) Histoso (A2) Black Histoso (A2) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except in MLRA 1) Depleted Below Dark Surface (A12) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral Redox Option Mucky Mucky Mucky Mineral Redox Option Mucky Muc										
Histoso (A1) Sand Redox (S5) Common (S5) Redox (S										
Histosol (A1)	,		•						ins ² Loc	ation: PL=Pore Lining. M=Matrix
Sandy Muck Mineral (\$1)	Histosol (A Histic Epip Black Hist Hydrogen	A1) pedon (A2) ic (A3) Sulfide (A4)			Sandy Strippe Loamy Loamy	Redox (Sed Matrix Mucky M Gleyed I	S5) (S6) Mineral (F1 Matrix (F2	1) (except in	ı MLRA 1)	2 cm Muck (A10) Red Parent Material (TF2)
Type:	Thick Darl Sandy Mu	k Surface (A1 ck Mineral (S	12)		Deplete	ed Dark	Surface (F	·7)		wetland hydrology must be present,
Fettand Hydrology Indicators: rrimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Drift deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Sediment Present? Presence Secondary Indicators (minimum of two red Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Water-Stained Leaves (B9) (MLRa 1, 2, 4A, and 4B) Water-Stained Lea	Depth (incl	hes):								Hydric Soil Present? Yes W No
Arimary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two red Surface Water (A1) Water-Stained Leaves (B9) (except MLRA A, and 4B) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Qualic Invertebrates (B13) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Vater Table Present? Ves No Depth (inches): Dept	Depth (incl	hes):								nyaric Soil Present? Yes W No
Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) ✓ Water Marks (B1) ✓ Sediment Deposits (B2) ✓ Drift deposits (B3) ✓ Iron Deposits (B5) ✓ Surface Soil Cracks (B6) ✓ Inundation Visible on Aerial Imagery (B7) ✓ Sparsely Vegetated Concave Surface (B8) ✓ Sparsely Vegetated Concave Surface (B8) ✓ Ves No Opeth (inches): ✓ Depth (inches): ✓ Depth (inches): ✓ Depth (inches): ✓ Depth (inches): ✓ Saturation MLRA ✓ AA, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ At A, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ At A, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ At A, and 4B) ✓ At A, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ At A, and 4B) ✓ At A, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ At A, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ At A, and 4B) ✓ Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ At A, and 4B) ✓ Brained Leaves (B9) (MLRA 1, 2, 4A, and 4B) ✓ At A, and 4B) ✓ At An 4B) ✓ Saturation Present? At A, and 4B) ✓ Saturation Present? At A, and 4B) ✓ At A and 4B) ✓ At A and 4B) ✓ At A, and 4B) ✓ At A and 4B) ✓ At A and 4B) ✓ At A and 4B ✓ At An and B ✓	Depth (incl									Hydric Soil Present? Yes W NO
High Water Table (A2) Saturation (A3) Salt Crust (B11) Aquatic Invertebrates (B13) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Algal Mater Table Present? Yes No Depth (inches): D	Depth (incl Remarks: ydrology	,	cators:							Hydric Soil Present? Yes W NO
Saturation (A2) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Dry Season Water Table (C2) Sediment Deposits (B2) Drift deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Algal Mater Table Present? Yes No Depth (inches): Dept	Depth (incl demarks: ydrology /etland Hyd	/ rology Indi		one require	d; check all t	that app	oly)			
Water Marks (B1)	Depth (incl Pemarks: ydrology /etland Hyd rimary India	/ rology Indicators (mini	mum of o	one required	☐ Wate	er-Staine	d Leaves	(B9) (except	MLRA	Secondary Indicators (minimum of two requir Water-Stained Leaves (B9) (MLRA 1, 2,
Sediment Deposits (B2)	Depth (incleanance) ydrology fetland Hyd rimary India Surface V High Wat	rology India cators (mini Vater (A1) er Table (A2)	mum of o	one required	Wate 1, 2,	er-Staine 4A, and	d Leaves 4B)	(B9) (except	MLRA	Secondary Indicators (minimum of two requir Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Algal Mat or Crust (B4)	Depth (incl Plemarks: ydrology Vetland Hyd rimary Indic Surface W High Wat Saturation	y Irology Indicators (mini Vater (A1) er Table (A2) n (A3)	mum of o	one required	Wate 1, 2,	er-Staine 4A, and Crust (B1	d Leaves 4B) 11)		MLRA	Secondary Indicators (minimum of two requin Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Iron Deposits (B5)	Depth (incl demarks: ydrology /etland Hyd rimary Indic Surface V High Wate Saturation Water Ma	rology Indicators (minicators (minicators (A1)) er Table (A2) n (A3) arks (B1)	mum of (one required	Wate 1, 2, Salt (er-Staine 4A, and Crust (B1 atic Inver	d Leaves 4B) 11) tebrates ([B13)	: MLRA	Secondary Indicators (minimum of two requinum Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2)
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Other (Explain in Remarks) Frost Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) ield Observations: urface Water Present? Yes No Depth (inches):	Depth (incl Pemarks: ydrology /etland Hyd rimary India Surface W High Wate Saturation Water Ma Sediment	rology Indicators (minivators (Minivators (A1)) er Table (A2) n (A3) arks (B1) Deposits (B2	mum of (one required	Wate 1, 2, Salt (Aqua	er-Staine 4A, and Crust (B1 atic Inver	d Leaves 4B) 11) tebrates ((B13)		Secondary Indicators (minimum of two requinum Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Inundation Visible on Aerial I	ydrology Vetland Hyd rimary India Surface V High Wate Saturation Water Ma Sediment Drift depo	rology Indicators (minicators	mum of o	one required	Wate 1, 2, Salt (Aqua	er-Staine 4A, and Crust (B1 atic Inver ogen Sul	d Leaves (4B) 11) tebrates (Ifide Odor	B13) (C1) on Living Ro		Secondary Indicators (minimum of two requi Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Sparsely Vegetated Concave Surface (B8) ield Observations: urface Water Present? Yes No Depth (inches): //ater Table Present? Yes No Depth (inches): aturation Present? reduction Pre	ydrology Yetland Hyd rimary India Surface V High Water Ma Sediment Drift depo	y irology Indicators (minivater (A1) er Table (A2) n (A3) arks (B1) Deposits (B2) osits (B3) or Crust (B4	mum of o	one required	Wate 1, 2, Salt (Aqua Hydru Oxidi	er-Staine 4A, and Crust (B1 atic Inver ogen Sul ized Rhiz ence of R	d Leaves (4B) 11) tebrates (lifide Odor cospheres	(B13) (C1) on Living Ro	oots (C3)	Secondary Indicators (minimum of two required Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5)
ield Observations: urface Water Present? Yes No Depth (inches): urface Table Present? Yes No Depth (inches): aturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): O Wetland Hydrology Present? Yes No Depth (inches): No Depth (inches): O	pepth (incl emarks: ydrology /etland Hyd rimary Indic Surface V High Wate Saturation Water Ma Sediment Drift depo Algal Mat Iron Depo Surface S	rology Indicators (minicators	2))		Wate 1, 2, Salt (Aqua Hydru Oxidi Prese	er-Staine 4A, and Crust (B1 atic Inver ogen Sul ized Rhiz ence of F	d Leaves (4B) 11) Itebrates (Iffide Odor cospheres Reduced II	B13) (C1) on Living Roron (C4) in Tilled Soi	oots (C3)	Secondary Indicators (minimum of two required Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5)
urface Water Present? Yes No Depth (inches): Depth (inc	ydrology /etland Hyd /emarks: // Surface V /emarks: // High Water Ma // Sediment // Drift depo // Algal Mat // Iron Depo // Surface S // Inundation	rology Indicators (minicators	2)) Aerial Ima	gery (B7)	Wate 1, 2, Salt (Aqua Hydro Oxidi Prese	er-Staine 4A, and Crust (B1 titic Inver ogen Suli ized Rhiz ence of F nt Iron F	d Leaves (4B) 11) Itebrates (Iffide Odor cospheres Reduced III	(B13) (C1) on Living Ro ron (C4) in Tilled Soi ants (D1) (LI	oots (C3)	Secondary Indicators (minimum of two required Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Water Table Present? Yes No Depth (inches): 11 aturation Present? rolledes capillary fringe) Yes No Depth (inches): 0 Wetland Hydrology Present? Yes No Depth (inches): 0	ydrology Vetland Hyd Vetland H	rology Indicators (minicators	2)) Aerial Ima	gery (B7)	Wate 1, 2, Salt (Aqua Hydro Oxidi Prese	er-Staine 4A, and Crust (B1 titic Inver ogen Suli ized Rhiz ence of F nt Iron F	d Leaves (4B) 11) Itebrates (Iffide Odor cospheres Reduced III	(B13) (C1) on Living Ro ron (C4) in Tilled Soi ants (D1) (LI	oots (C3)	Secondary Indicators (minimum of two requir Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
aturation Present? No Depth (inches): 0 Wetland Hydrology Present? Yes No No Concludes capillary fringe)	Depth (incl Remarks: ydrology Vetland Hyd Irimary Indic Surface V High Wate Saturation Water Ma Sediment Drift depo Algal Mat Iron Depo Surface S Inundation Sparsely ield Observation	rology Indicators (minicators (minicators (minicators (minicators (minicators)) Parks (B1) Poposits (B2) Poposits (B3) Por Crust (B4) Posits (B5) Poil Cracks (B6) Poil Cracks	2)) Aerial Ima	gery (B7) face (B8)	Wate 1, 2, Salt (Aqua Hydro Oxidi Prese Stunt Other	er-Staine 4A, and Crust (Batic Inver- ogen Suitzed Rhiz ence of Fant Iron F ted or St r (Explain	d Leaves (4B) 11) Itebrates (Ifide Odor cospheres Reduced III Reduction ressed Plan in Rema	(B13) (C1) on Living Ro ron (C4) in Tilled Soi ants (D1) (LI	oots (C3)	Secondary Indicators (minimum of two requir Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
ncludes capillally fillinge)	Depth (incl Remarks: ydrology yetland Hyd rimary India Surface W High Water Ma Sediment Drift depo Algal Mat Iron Dept Surface S Inundatio Sparsely ield Observa	prology Indicators (mini- cators (mini- vater (A1) er Table (A2) in (A3) arks (B1) Deposits (B3) or Crust (B4) osits (B5) soil Cracks (B- on Visible on A- vegetated Co- ations:	2)) Aerial Ima	gery (B7) face (B8)	Wate 1, 2, Salt (Aqua Hydri Oxidi Prese Stunt Other	er-Staine 4A, and Crust (B ¹ atic Inver ogen Sul ized Rhiz ence of F nt Iron F ted or St r (Explai	d Leaves (4B) 11) tebrates (1ffde Odor (10spheres Reduced II) Reduction (1 ressed Plan in Remaines):	(B13) (C1) on Living Ro ron (C4) in Tilled Soi ants (D1) (Li	oots (C3)	Secondary Indicators (minimum of two requir Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
escribe Recorded Data (stream gauge, monitor well, aenai photos, previous inspections), if available:	Depth (incl Remarks: ydrology yetland Hyd rimary India Surface W High Water Ma Sediment Drift depc Algal Mat Iron Depc Surface S Inundatio Sparsely ield Observ: urface Water Vater Table Pri	Irology Indicators (minicators	2)) Aerial Ima oncave Sur Yes	gery (B7) face (B8) No No	Wate 1, 2, Salt (Aqua Hydro Oxidi Prese Stunt Other	er-Staine 4A, and Crust (Ba itic Inver ogen Sul ized Rhiz ence of F int Iron F ted or St r (Explai	d Leaves 4B) 11) tebrates (lfide Odor cospheres Reduced II Reduction ressed Pla n in Rema	(B13) (C1) on Living Roron (C4) in Tilled Soi ants (D1) (Li	oots (C3) Is (C6) RRR A)	Secondary Indicators (minimum of two requir Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
	ydrology Vetland Hyd Verliamary Indic Surface W High Water Massediment Drift depo Algal Mat Iron Depo Surface S Inundatio Sparsely Vetland Hyd Vater Table Preaturation Preincludes capill	rology Indicators (minicators	22)) Aerial Ima oncave Sur Yes Yes Yes	gery (B7) face (B8) No No No No No No	Wate 1, 2, Salt (Aqua Hydra Oxidi Prese Stunt Other	er-Staine 4A, and Crust (B1 atic Inver ogen Sul ized Rhiz ence of F nt Iron F ted or St r (Explai pth (inch pth (inch	d Leaves (4B) 11) 11) 11) 11(de Odor (10) 11(de Odor	(B13) (C1) on Living Roron (C4) in Tilled Soi ants (D1) (Li	oots (C3) Is (C6) RR A) Wetla	Secondary Indicators (minimum of two requir Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
emarks:	ydrology Vetland Hyd rimary Indic Surface V High Water Saturation Water Ma Sediment Drift depo Algal Mat Iron Depo Surface S Inundation Sparsely Vetland Hyd Vetla	rology Indicators (minicators	22)) Aerial Ima oncave Sur Yes Yes Yes	gery (B7) face (B8) No No No No No No	Wate 1, 2, Salt (Aqua Hydra Oxidi Prese Stunt Other	er-Staine 4A, and Crust (B1 atic Inver ogen Sul ized Rhiz ence of F nt Iron F ted or St r (Explai pth (inch pth (inch	d Leaves (4B) 11) 11) 11) 11(de Odor (10) 11(de Odor	(B13) (C1) on Living Roron (C4) in Tilled Soi ants (D1) (Li	oots (C3) Is (C6) RR A) Wetla	Secondary Indicators (minimum of two requir Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)

pplicant/Owner: DESCHUTES COUNTY nvestigator(s): ALISON SIGLER, SARAH HARTUNG andform (hillslope, terrace, etc.): Valley bottom ubregion (LRR): LRR A		Section, To		State: OR	Sampli	ng Point:_	SP 25A
andform (hillslope, terrace, etc.): Valley bottom		Section, To					
<u> </u>			ownship, Ra	ange: S 17	T 21 S	R 10 E	
ubregion (LRR): LRR A		Local relief	(concave, o	convex, none): conv	cave	Slope:	0.0% / 0.0
ibi egion (Little). Little A	 Lat.: 43			Long.: -121.5535		Datur	m: NAD83
il Man Unit Name 1444 C		1.0733		NWI classification: PEMA			
il Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 per		a Var	• No C		_		
climatic/hydrologic conditions on the site typical for this	-			,	in in Remarks.	yes ●	No O
	significantly			lormal Circumstanc	•		NO C
-	naturally pro		-	eded, explain any a		•	
ummary of Findings - Attach site map sh	owing sa	mpling p	oint loc	ations, transe	cts, impor	tant rea	tures, et
		Is the	Sampled A				
		within	a Wetland	_{d?} Yes 💿 No	0		
, , , , , , , , , , , , , , , , , , ,							
Remarks:							
/EGETATION - Use scientific names of plan	ıtc	Dominant					
COLIMITOR OSCISION INCIDENTAL PROPERTY OF	Absolute	Species? Rel.Strat.	Indicator	Dominance Test	worksheet:		
Tree Stratum (Plot size:	% Cover		Status	Number of Domina	nt Species		
1. Pinus contorta			FAC	That are OBL, FAC		4	(A)
2		0.0%		Total Number of Do	ominant		
3		0.0%		Species Across All S	Strata:	5	(B)
4		0.0%		Percent of domin	ant Species		
Sapling/Shrub Stratum (Plot size:	10	= Total Cove	er	That Are OBL, FA		80.09	%(A/B)
1,	0	0.0%		Prevalence Index	worksheet:		
2		0.0%		Total % Co	ver of: M	ultiply by:	
3		0.0%		OBL speci es	40 x	1 =	40
4	0	0.0%		FACW species	20 x	2 =	40
5	0	0.0%		FAC speci es	15 x	3 =	45
	0	= Total Cove	er	FACU speci es	x	4 =	20
Herb Stratum (Plot size:	_	□ , oo,	54011	UPL speci es	x	5 =	50
1 Achillea millefolium 2 Trifolium sp.	<u>5</u> 5	6.3%	FACU FAC	Column Totals:	<u>90</u> (/	a)1	95 (B)
3_Carex aquatilis	40	✓ 50.0%	OBL		ndex = B/A =	2.16	7
4 Juncus balticus	10	12.5%	FACW	Hydrophytic Vege			
5 Galeopsis tetrahit	10	1 2.5%	UPL	✓ Dominance 1		JI 3.	
6 Stellaria longifolia	10	12.5%	FACW	✓ Prevalence I			
7	0	0.0%			al Adaptations	1 (Provide :	supportina
8.					arks or on a se		
9.		0.0%		☐ Wetland Nor	n-Vascular Plar	nts ¹	
10	_	0.0%		Problematic	Hydrophytic V	egetation ¹	(Explain)
11	80	= Total Cove		¹ Indicators of hyd			
Woody Vine Stratum (Plot size:				be present, unles	s disturbed or	problemati	C.
1	0	0.0%					
2		0.0%		Hydrophytic			
	0	= Total Cove	er	Vegetation Present?	res No	\sim	
% Bare Ground in Herb Stratum: 20				. resent:			
Remarks:							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: SP 25A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth % Loc2 Color (moist) Color (moist) % Texture Remarks (inches) Type 1 0-13 10YR 100% Clay Loam 3/1 13-20 7.5YR 3/1 80% 10YR 4/1 20% D М Clay Loam ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 2 cm Muck (A10) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ☐ Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No O **Hydric Soil Present?** Yes Depth (inches): Remarks: ASSUMED HYDRIC SOILS BASED ON HYDROLOGY Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) ✓ Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) ✓ Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) ▼ FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) U Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes O No 💿 Surface Water Present? Depth (inches): Yes \bigcirc No 💿 Water Table Present? Depth (inches): Yes

No Wetland Hydrology Present? Saturation Present? Yes O No 💿 Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks: SOIL IS SOMEWHAT MOIST

Project/Site: DESCHUTES LWI		city/County:	SUNRIVER/	DESCHUTES Sampling Date: 23-Jun-10
Applicant/Owner: DESCHUTES COUNTY				State: OR Sampling Point: SP 26A
Investigator(s): ALISON SIGLER, SARAH HARTUNG		Section, To	wnship, Ra	ange: S 17
Landform (hillslope, terrace, etc.): Valley bottom		Local relief (concave,	convex, none): convex Slope: 0.0% / 0.0
Subregion (LRR): LRR A	Lat.: 43	.6721		Long.: -121.5551 Datum: NAD83
Soil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 pe				NWI classification: PFOA
re climatic/hydrologic conditions on the site typical for th		yes Yes	● No ○	
Are Vegetation, Soil, or Hydrology	significantly			lormal Circumstances" present? Yes ● No ○
				,
Are Vegetation	naturally prol			eded, explain any answers in Remarks.) ations, transects, important features, et
Hydrophytic Vegetation Present? Yes No				·
Hydric Soil Present? Yes No		Is the	Sampled A	
Wetland Hydrology Present? Yes No		within	a Wetland	d? Yes ● No ○
Remarks:				
Remarks.				
VEGETATION - Use scientific names of pla	ants.	Dominant		
Tree Stratum (Plot size:	Absolute % Cover	Species? = Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1		0.0%		Number of Dominant Species That are OBL, FACW, or FAC:2(A)
2.		0.0%		That are 652, From, 61 Fro. (v)
3		0.0%		Total Number of Dominant Species Across All Strata: 2 (B)
4	0	0.0%		(-/
Sapling/Shrub Stratum (Plot size:	0	= Total Cove	r	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
1. Salix exigua	45	100.0%	OBL	Prevalence Index worksheet:
2	0	0.0%		Total % Cover of: Multiply by:
3	0	0.0%		0BL speci es45 x 1 =45
4		0.0%		FACW speciles98 x 2 =196
5		0.0%		FAC species $0 \times 3 = 0$
Herb Stratum (Plot size:	45	= Total Cove	r	FACU speciles $0 \times 4 = 0$
1 Carex sp.	98	✓ 100.0%	FACW	UPL species $-\frac{0}{}$ x 5 = $-\frac{0}{}$
2.	0	0.0%		Column Totals: (A)
3		0.0%		Prevalence Index = B/A = 1.685
4	0	0.0%		Hydrophytic Vegetation Indicators:
5	0	0.0%		✓ Dominance Test is > 50%
6		0.0%		✓ Prevalence Index is ≤3.0 ¹
7	_	0.0%		☐ Morphological Adaptations ¹ (Provide supporting
8		0.0%		data in Remarks or on a separate sheet)
10		0.0%		Wetland Non-Vascular Plants ¹
11		0.0%		☐ Problematic Hydrophytic Vegetation ¹ (Explain)
		= Total Cove	r	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:				be present, unless disturbed of problematic.
1	0	0.0%		
2	0	0.0%		Hydrophytic Vegetation
		= Total Cove	r	Present? Yes No
% Bare Ground in Herb Stratum: 2				
Remarks:				
Carex sp. assumed to be FACW.				

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: 26A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth % Loc2 Color (moist) Color (moist) % **Texture** Remarks (inches) Type 1 10YR 100% Clay Loam 0-7 2/1 Mn SOFT MASSES 7-10 10YR 4/2 90% 10YR 2/1 10% С М Silty Clay 2.5Y Sand 10-12 3/2 100% BREAKS APART WHEN CRUSHED **GRAVEL SMALL** 12-16 2.5Y 5/3 100% ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 2 cm Muck (A10) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: ROCK No O **Hydric Soil Present?** Depth (inches): 16 Remarks: HYDRIC SOILS ASSUMED BASED ON HYDROLOGY. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) High Water Table (A2) 4A, and 4B) ✓ Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) U Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes O No 💿 Depth (inches): Surface Water Present? Yes • No O Water Table Present? Depth (inches): 16 Yes ● No ○ Wetland Hydrology Present? Saturation Present? Yes No O Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks:

Project/Site: DESCHUTES LWI			City/County:	SUNRIVER/	DESCHUTES Sampling Date: 23-Jun-10
Applicant/Owner: DESCHUTES COUNT	Υ				State: OR Sampling Point: SP 27A
Investigator(s): ALISON SIGLER, SARA	AH HARTUNG		Section, To	wnship, R	ange: S 25
Landform (hillslope, terrace, etc.):	Floodplain		Local relief	(concave,	convex, none): Slope:0.0% /0.0
Subregion (LRR): LRR A		Lat .: 43	.6453		Long.: -121.5919 Datum: NAD83
Soil Map Unit Name: 29A: Cryaquolls	s. 0 to 3 percent slopes				NWI classification: PSSC
re climatic/hydrologic conditions on		time of year	? Yes	. ● No C	
Are Vegetation, Soil	, or Hydrology as	ignificantly	disturbed?	Are "N	Iormal Circumstances" present? Yes No
Are Vegetation, Soil	, or Hydrology \Box n	naturally pro	blematic?	(If ne	eded, explain any answers in Remarks.)
					ations, transects, important features, et
Hydrophytic Vegetation Present?	Yes No			Sampled A	·
Hydric Soil Present?	Yes No				Van (No (
Wetland Hydrology Present?	Yes ● No ○		Within	a Wetland	19
VEGETATION - Use scien	tific names of plant		Dominant _Species?		
Tree Stratum (Plot size:)	Absolute % Cover		Indicator Status	
1		0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC:3 (A)
2.		0	0.0%		Total Number of Deminent
3		0	0.0%		Total Number of Dominant Species Across All Strata:3 (B)
4		0	0.0%		Percent of dominant Species
Sapling/Shrub Stratum (Plot size:)	0	= Total Cove	er	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
1. Salix exigua		25	71.4%	OBL	Prevalence Index worksheet:
			28.6%	FACW	Total % Cover of: Multiply by:
3			0.0%		0BL speci es 25 x 1 = 25
4 5.			0.0%		FACW species $90 \times 2 = 180$
0			= Total Cove		The species X 3 -
Herb Stratum (Plot size:)	35	= Total Cove	:1	racu species
1 Phalaris arundinacea		5	6.3%	FACW	UPL species
		75	93.8%	FACW	Condition Total 3.
3		0	0.0%		Prevalence Index = B/A = 1.783
4.————————————————————————————————————			0.0%		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
6			0.0%		✓ Prevalence Index is ≤3.0 ¹
7			0.0%		Morphological Adaptations ¹ (Provide supporting
8		0	0.0%		data in Remarks or on a separate sheet)
9,			0.0%		☐ Wetland Non-Vascular Plants ¹
10.		_	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)
11.		80	= Total Cove	er	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				-
1,			0.0%		Under starts
2			0.0%		Hydrophytic Vegetation
		0	= Total Cove	er	Present? Yes • No
% Bare Ground in Herb Stratum	: 20				
Remarks:	d to be EACM				
Carex sp. and Spiraea sp. assumed	J TO DE FACTV.				

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil									Sampling Point: 27A	
Profile Descr	iption: (De		the depth n	eeded to d				onfirm the	e absence of indicators.)	
Depth	Calas (Matrix		Calan (m		ox Featu %		12		
(inches) 0-4	Color (I	3/2	100%	Color (m	ioist)		Type ¹	Loc ²	Silty Sand	
4-20	10YR	3/1	80%	7.5YR	3/1	20%				
4-20				7.51K	3/1	20%		IVI	Sandy Clay Loam	
										_
										—
										_
ype: C=Cond	entration. D	=Depletio	n. RM=Reduc	ed Matrix, C	S=Covere	d or Coate	ed Sand Gra	ains ² Loca	cation: PL=Pore Lining. M=Matrix	
lydric Soil I	ndicators:	(Applical	ole to all LRI	Rs, unless o	otherwis	e noted.))		Indicators for Problematic Hydric Soils:3	
Histosol (A	•				y Redox (2 cm Muck (A10)	
	pedon (A2)				oed Matrix		4) () (Red Parent Material (TF2)	
	Sulfide (A4)			Loam	y Gleyed	Matrix (F2	1) (except i 2)	n MLRA 1)	Other (Explain in Remarks)	
_ '	Below Dark S	•	11)		eted Matri x Dark Su					
_	Surface (A1	•		_	eted Dark	. ,			³ Indicators of hydrophytic vegetation and wetland hydrology must be present,	
	ck Mineral (S yed Matrix (S	-			x depress		,		unless disturbed or problematic.	
sandy Gie estrictive La	•	-							·	
	ayer (ii pre	sent):								
Type: Depth (inch									Hydric Soil Present? Yes No	
Remarks:										
ydrology										
Vetland Hyd Primary Indic			ono roquiro	di chock all	l that an	ahu)			Secondary Indicators (minimum of two	roquir
		iiiiuiii oi	one required				(DO) (ayaan	+ MI DA		requii
	vater (AT) er Table (A2))			ter-Staine 2, 4A, and		(B9) (excep	OT WILKA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	
Saturation	n (A3)				t Crust (B				Drainage Patterns (B10)	
Water Ma	. ,			L Aqı	uatic Inve	rtebrates	(B13)		Dry Season Water Table (C2)	
	Deposits (B	2)		∐ Нус	drogen Su	Ifide Odor	(C1)		Saturation Visible on Aerial Imagery (C9)	1
Drift depo	osits (B3)			U Oxi	dized Rhiz	zospheres	on Living R	Roots (C3)	Geomorphic Position (D2)	
Algal Mat	or Crust (B4	1)		Pre	sence of F	Reduced I	ron (C4)		Shallow Aquitard (D3)	
Iron Depo	osits (B5)			Red	cent Iron I	Reduction	in Tilled Sc	oils (C6)	FAC-neutral Test (D5)	
Surface S	oil Cracks (B	6)		Stu	inted or St	tressed Pla	ants (D1) (l	_RR A)	Raised Ant Mounds (D6) (LRR A)	
Inundatio	n Visible on	Aerial Ima	gery (B7)	Oth	ner (Explai	in in Rema	arks)		Frost Heave Hummocks (D7)	
Sparsely \	Vegetated Co	oncave Sui	rface (B8)							
ield Observa		Yes	○ No ●) n	epth (inch	nes):		1		
		Yes		_				ر ا		
Water Table Pr					epth (inch	nes):		Wetls	land Hydrology Present? Yes No	
Saturation Pres (includes capill	lary fringe)	Yes			epth (inch		0			
Describe Reco	oraea Data	(stream	gauge, mon	iitor weii, a	eriai pno	nos, prev	rious inspe	ections), if	ii avaiiabie:	
emarks:										

Project/Site: DESCHUTES LWI	City/County: SUNF	RIVER/DESCHUTES Sampling Date: 23-Jun-10
Applicant/Owner: DESCHUTES COUNTY		State: OR Sampling Point: SP 28A
Investigator(s): ALISON SIGLER, SARAH HARTUNG	Section, Townsl	hip, Range: S 24 T 22 S R 9 E
Landform (hillslope, terrace, etc.): Floodplain	Local relief (cond	cave, convex, none): concave Slope: 2.0% / 1.1
Subregion (LRR): LRR A	Lat.: 43.6455	Long.: -121.5918 Datum: NAD83
soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes		NWI classification: PEMC
re climatic/hydrologic conditions on the site typical for this	time of year? Yes Yes	
	.	Are "Normal Circumstances" present? Yes No
		(If needed, explain any answers in Remarks.)
	-	
<u> </u>	owing sampling point	t locations, transects, important features, et
Hydrophytic Vegetation Present? Yes No	Is the Sam	pled Area
Hydric Soil Present? Yes No	within a W	etland? Yes No
Wetland Hydrology Present? Yes No	2	
Remarks:		
OFF-SITE DETERMINATION		
VEGETATION - Use scientific names of plan	ts. Dominant	
	Species? Absolute Rel.Strat. Indi	cator Dominance Test worksheet:
Tree Stratum (Plot size:	% Cover Cover Stat	
1. Pinus contorta		
2		Total Number of Dominant
3		Species Across All Strata: 4 (B)
4,	0 0.0%	Percent of dominant Species
Sapling/Shrub Stratum (Plot size:	10 = Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
1, Salix exigua		Prevalence Index worksheet:
2.		Total % Cover of: Multiply by:
3		0BL species 95 x 1 = 95
4	0 0.0%	FACW species 80 x 2 = 160
5	0 0.0%	FAC species 10 x 3 = 30
Houte Charles (Dict -i	75 = Total Cover	FACU speciles $0 \times 4 = 0$
Herb Stratum (Plot size:	00 🗸 00 00/ 540	UPL species $\frac{0}{1}$ x 5 = $\frac{0}{1}$
1 Phalaris arundinacea		Column Totals: 185 (A) 285 (B)
2 Carex aquatilis		Prevalence Index = B/A = 1.541
4.	0 0 004	Hydrophytic Vegetation Indicators:
5		✓ Dominance Test is > 50%
6	0 0.0%	Prevalence Index is ≤3.0 ¹
7		☐ Morphological Adaptations ¹ (Provide supporting
8.—		data in Remarks or on a separate sheet)
9,		Wetland Non-Vascular Plants ¹
10. 11.		Problematic Hydrophytic Vegetation ¹ (Explain)
11.	100 = Total Cover	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum_ (Plot size:)		be present, unless disturbed or problematic.
1,	0 0.0%	
2.	0 0.0%	Hydrophytic
	0 = Total Cover	Vegetation Present? Yes No
		i e e e e e e e e e e e e e e e e e e e
% Bare Ground in Herb Stratum: 0		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

oil			Sampling Point: 28A
ofile Description: (D	escribe to the depth	needed to document the indicator or confirm	the absence of indicators.)
Depth	Matrix	Redox Features	
(inches) Color	(moist) %	Color (moist) % Type ¹ Loc	2 Texture Remarks
	D. Davilstian DM Davi	And Matrix 20, Coursed as Contact Cond Contact	2) continue Di Dona Linium M. Matriu
	•		² Location: PL=Pore Lining. M=Matrix
_	: (Applicable to all Li	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:3
Histosol (A1)		Sandy Redox (S5) Stripped Matrix (S6)	2 cm Muck (A10)
Histic Epipedon (A2)		Loamy Mucky Mineral (F1) (except in MLR/	Red Parent Material (TF2)
Black Histic (A3) Hydrogen Sulfide (A4)	1)	Loamy Gleyed Matrix (F2)	A 1) Other (Explain in Remarks)
Depleted Below Dark	•	Depleted Matrix (F3)	
Thick Dark Surface (Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Muck Mineral	•	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix		Redox depressions (F8)	unless disturbed or problematic.
estrictive Layer (if pr			
Type:	escrity.		
Depth (inches):			Hydric Soil Present? Yes No
SUMED HYDRIC SOI	LS BASED ON HYDRO	DLOGY	
SUMED HYDRIC SOI	LS BASED ON HYDRO	DLOGY	
ydrology		DLOGY	
/drology etland Hydrology In	dicators:		
/drology etland Hydrology In	dicators:	ed; check all that apply)	Secondary Indicators (minimum of two requ
etland Hydrology Inimary Indicators (mi	dicators: nimum of one require	ed; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2,
rdrology etland Hydrology Indicators (middle Surface Water (A1) High Water Table (A	dicators: nimum of one require	ed; check all that apply) Water-Stained Leaves (B9) (except MLR/1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
etland Hydrology Indicators (mi Surface Water (A1) High Water Table (A Saturation (A3)	dicators: nimum of one require	ed; check all that apply) Water-Stained Leaves (B9) (except MLR/1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
etland Hydrology Inc mary Indicators (mi Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1)	dicators: nimum of one require .2)	ed; check all that apply) Water-Stained Leaves (B9) (except MLR/1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
rdrology etland Hydrology Indicators (midle Surface Water (A1) High Water Table (A1) Saturation (A3) Water Marks (B1) Sediment Deposits (dicators: nimum of one require .2)	ed; check all that apply) Water-Stained Leaves (B9) (except MLR/1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
rdrology etland Hydrology Indicators (mid) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	dicators: nimum of one require (2) (B2)	ed; check all that apply) Water-Stained Leaves (B9) (except MLR/1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (6	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
cdrology etland Hydrology Inemary Indicators (mi Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B	dicators: nimum of one require (2) (B2)	ed; check all that apply) Water-Stained Leaves (B9) (except MLR/1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
rdrology etland Hydrology Indicators (mid) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	dicators: nimum of one require (2) (B2)	ed; check all that apply) Water-Stained Leaves (B9) (except MLR/1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (6	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
rdrology etland Hydrology Inimary Indicators (mi Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (Drift deposits (B3) Algal Mat or Crust (B	dicators: inimum of one require 2) B2)	ed; check all that apply) Water-Stained Leaves (B9) (except MLRA1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C1) Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
etland Hydrology Indicators (mi Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift deposits (B3) Algal Mat or Crust (I Iron Deposits (B5)	dicators: inimum of one require 2) B2)	ed; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C1) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5)
rdrology etland Hydrology Indicators (midle and Figure 1) Surface Water (A1) High Water Table (A1) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks (B1)	dicators: inimum of one require (2) (B2) (B6)	ed; check all that apply) Water-Stained Leaves (B9) (except MLR/1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C1) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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ctland Hydrology Incimary Indicators (mi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks Inundation Visible o Sparsely Vegetated eld Observations: urface Water Present? ater Table Present?	dicators: nimum of one require 2) B2) B4) (B6) n Aerial Imagery (B7) Concave Surface (B8) Yes No Yes No Yes No Yes	ed; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C1) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Depth (inches): Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
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Investigator(s): ALISON SIGLER, SARAH HARTUNG Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): concave Slope: 1.0% / 0.6 Subregion (LRR): LRR A Lat.: 43.6455 Long.: -121.5918 Datum: NAD83 Oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes RVII classification: PEMC et climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, et Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Is the Sampled Area within a Wetland? Yes No Within a Wetland?	Project/Site: DESCHUTES LWI			City/County:	SUNRIVER/	DESCHUTES S	Sampling Date: 24-Ju	un-10
Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none):	Applicant/Owner: DESCHUTES COUNTY					State: OR	Sampling Point:	SP 29A
Darting Data	Investigator(s): ALISON SIGLER, SARAH HA	RTUNG		Section, To	wnship, R	ange: \$ 24 T 22	S R 9 E	
Summary of Findings - Attach site map showing sampling point locations, transects, important features, et elegation	Landform (hillslope, terrace, etc.): Flood	plain		Local relief	(concave,	convex, none): concave	Slope:	1.0% / 0.6
re Vegetation , soil , or Hydrology	Subregion (LRR): LRR A		Lat .: 43	.6455		Long.: -121.5918	Datun	n: NAD83
re Vegetation , soil , or Hydrology	Soil Map Unit Name: 29A; Cryaguolls, 0 to	3 percent slopes				NWI classific	cation: PEMC	
Summary of Findings - Attach site map showing sampling point locations, transects, important features, et Hydrophytic Vegetation Present?			ime of year	? Yes	. ● No (
Summary of Findings - Attach site map showing sampling point locations, transects, important features, et Hydrophytic vegetation Present? Yes No Short No Wetland Hydrology Present? Yes No Short No Shor	Are Vegetation, Soil, or I	- - - - - - - - - - - - - - - - - - -	ignificantly	disturbed?	Are "N	lormal Circumstances" pre	esent? Yes	No O
Summary of Findings - Attach site map showing sampling point locations, transects, important features, et Hydrophytic vegetation Present? Yes No Short No Wetland Hydrology Present? Yes No Short No Shor	Are Vegetation . , Soil . , or h	Hydrology	aturally pro	blematic?	(If ne	eded, explain any answer	s in Remarks.)	
Processor Present Pr	-					•		tures, et
Wetland Hydrotogy Present? Yes	Hydrophytic Vegetation Present? Yes	. ● No ○					·	
No No No No No No No No					-	Vac (No (
Absolute Species Sp	Wetland Hydrology Present? Yes	. ● No ○		Within	a wetiand	ır		
Absolute Pelot size Percent of dominant Species Percent of Multiply Percent Percent of Multiply Percent Percent of Multiply Percent Percent of Multiply Percent Percent of Percent of Multiply Percent Percent of Multiply Percent Pe		names of plant	S.					
1 Pinus contorta 2	Tree Streeture (Diet size)	1		Rel.Strat.		Dominance Test worksh	neet:	
2.	4.8:	,						(4)
3	±.				TAG	That are OBL, FACW, OF FA	4C	(A)
Sapling/Shrub Stratum (Plot size:)				0.0%				(B)
Sapling/Shrub Stratum (Plot size:	4		0	0.0%				(5)
2. 0 0.0% Bulliply by: 3. 0 0.0% OBL speciles 35 x 1 = 35 4. 0 0.0% FACW speciles 70 x 2 = 140 5. 0 0.0% FAC speciles 2 x 3 = 6 FACU speciles 0 x 4 = 0 UPL speciles 0 x 5 = 0 1. Phalaris arundinacea 5 5.0% OBL OBL OBL VIPL speciles 0 x 5 = 0 2. Myosotis laxa 5 5.0% OBL OBL OI mn Total s: 107 (A) 181 (B) 4. Carex aquatilis 25 √ 25.0% OBL Hydrophytic Vegetation Indicators: 5. 0 0.0% Work and a complete of the	Sapling/Shrub Stratum (Plot size:)	2	= Total Cove	er			% (A/B)
3.	1. Salix exigua		5	100.0%	OBL	Prevalence Index works	sheet:	
4.			0	0.0%		Total % Cover of:	Multiply by:	
S						OBL species 3!	5 x 1 =3	35
Herb Stratum (Plot size:)								
Phalaris arundinacea	5					The species	^ 3	_
1 Phalaris arundinacea 2 Myosotis laxa 3 Alopecurus pratensis 4 Carex aquatilis 5	Herb Stratum (Plot size:)	5	= Total Cove	er	FACU Species	x 4 =	
2 Myosotis laxa 5 5.0% OBL Prevalence Index = B/A = 1.692	1 Phalaris arundinacea	J.	50	✓ 50.0%	FACW	UPL species —	x 5 =	
4 Carex aquatilis 5	2 Myosotis laxa		5	5.0%	OBL	Column Totals:)/ (A)1	81 (B)
Solution Stratum St	0		20	=	FACW	Prevalence Index =	= B/A = <u>1.69</u> 2	2
6.	4. Carex aquatilis				OBL			
7.						l		
Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 9.								
9 O O.0% Wetland Non-Vascular Plants¹ 10. O O.0% 11. O O.0% 100 = Total Cover Woody Vine Stratum (Plot size:) 1. O O.0% 2. O O.0% 0 O.0% 0 O.0% 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Vegetation Present? Yes No O								
10.				0.0%			•	.,
11.				0.0%				(Explain)
Woody Vine Stratum (Plot size:) 1.			0					
1. 0 0.0% 2. 0 0.0%	Woody Vine Stratum (Plot size:)	100	= Total Cove	er			
2			0	0.0%				
© = Total Cover Vegetation Present? Yes ● No ○ % Bare Ground in Herb Stratum: 0						Hydrophytic		
% Bare Ground in Herb Stratum: 0					er	Vegetation	No 🔾	
	% Bare Ground in Herb Stratum: 0							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil										Sampling Poi	nt: 29A
Profile Desci	ription: (Des	scribe to	the depth n	eeded to	document	the indi	cator or co	onfirm the	absence of indicato	ors.)	
Depth		Matrix			Red	lox Featu	ires				
(inches)	Color (r	moist)	%	Color ((moist)	%	Type ¹	Loc2	Texture	Remai	'ks
0-10	10YR	3/1	90%	10YR	3/4	10%	C	PL	Loam		
10-20	10YR	4/1	75%	10YR	3/6	25%	C	M	Silt Loam	w/ 20% find	e sand
1Type: C=Con	centration. D	=Depletion	n. RM=Reduc	ed Matrix,	CS=Covere	ed or Coate	ed Sand Gr	ains ²Loc	ation: PL=Pore Lining	j. M=Matrix	
Black Hist	(A1) pedon (A2) tic (A3) n Sulfide (A4)			Sal	s otherwis ndy Redox (ipped Matri amy Mucky amy Gleyed pleted Matr	(S5) x (S6) Mineral (F Matrix (F2	1) (except	in MLRA 1)	2 cm Muck (Problematic Hydric A10) Material (TF2) in in Remarks)	: Soils: ³
Sandy Mu	k Surface (A1 uck Mineral (S eyed Matrix (S	61)	·	De	dox Dark Su pleted Dark dox depress	Surface (wetland hydrolo	rophytic vegetation a ogy must be present d or problematic.	
Depth (inc Remarks: profile at 10-		as concer	ntrations in	the pore	linings too).			Hydric Soil Prese	nt? Yes •	No O
Hydrolog	-										
Wetland Hyd	0,5				-11 414	-1. 3			Caramalam		
	cators (mini Water (A1) ter Table (A2)		one required		all that ap Vater-Staine I, 2, 4A, and	ed Leaves	(B9) (excep	ot MLRA		Stained Leaves (B9)	num of two required
		2)		□ <i>F</i>	Salt Crust (B Aquatic Inve Hydrogen Su	rtebrates ulfide Odoi	r (C1)	2 (00)	☐ Dry Sea	ge Patterns (B10) ason Water Table (C ion Visible on Aerial	
Algal Mat	t or Crust (B4 osits (B5) Soil Cracks (B	6)		☐ F	Oxidized Rhi Presence of Recent Iron Stunted or S	Reduced I Reduction	ron (C4) in Tilled Se	oils (C6)	Shallow FAC-ne Raised	rphic Position (D2) / Aquitard (D3) utral Test (D5) Ant Mounds (D6) (L	
	on Visible on Vegetated Co		5 , , ,		Other (Expla	in in Rema	arks)		☐ Frost H	eave Hummocks (D	7)
Field Observ Surface Water Water Table P Saturation Pre (includes capil	Present? Present? esent?	Yes Yes	○ No ●)	Depth (incl Depth (incl Depth (incl	hes):	10	Wetla	and Hydrology Pres	ent? Yes ●	No O
Describe Rec		(stream	gauge, mor	itor well,	aerial pho	otos, prev	vious insp	ections), if	f available:		

			'DESCHUTES	Sampling Date: 24-Jur	1-10
pplicant/Owner: DESCHUTES COUNTY			State: OR	Sampling Point:	SP 30A
nvestigator(s): ALISON SIGLER, SARAH HARTUNG	Section	n, Township, R	ange: \$ 18 T_2	22 S R 10 E	_
Landform (hillslope, terrace, etc.): Swale	Local re	lief (concave,	convex, none): flat	Slope: 0	0.0% / 0.0
ubregion (LRR): LRR A	Lat.: 43.6688		Long.: -121.5714	Datum	: NAD83
oil Map Unit Name: 114C: Shanahan loamy coarse sand, 0	to 15 percent slopes		NWI classi	fication:	
e climatic/hydrologic conditions on the site typical for this	time of year?	Yes No	(If no, explain in	Remarks.)	
re Vegetation 🔲 , Soil 🔲 , or Hydrology 🗌	significantly disturbe	d? Are "N	lormal Circumstances" p	oresent? Yes •	No O
re Vegetation . , Soil . , or Hydrology .	naturally problemation	? (If ne	eded, explain any answe	ers in Remarks.)	
Summary of Findings - Attach site map sh	owing sampling				ures, et
Hydrophytic Vegetation Present? Yes No				•	<u> </u>
Hydric Soil Present? Yes No	Is	the Sampled A	Area da Yes No		
Wetland Hydrology Present? Yes No	w	ithin a Wetland	d? Yes S No C		
Remarks:					
Off-site sample plot					
VEGETATION - Use scientific names of plar	nts. Domin Specie				
Tree Stratum (Plot size:	•	at. Indicator Status	Dominance Test work	isheet:	
1. Pinus contorta	- 4		Number of Dominant Sp That are OBL, FACW, or		(A)
2.			mat are OBE, FACW, OF		_ (//
3		%	Total Number of Domina Species Across All Strata		(B)
4	0 0.0	%			
Sapling/Shrub Stratum (Plot size:	5 = Total	Cover	Percent of dominant That Are OBL, FACW,		6 (A/B)
1,	_ 0	%	Prevalence Index wor	ksheet:	
2			Total % Cover of	of: Multiply by:	
3			OBL speci es	0 x 1 = 0	
4. 5.	$\begin{array}{cccc} & & 0 & & \bigsqcup & 0.0 \\ & & 0 & & \square & 0.0 \end{array}$		FACW species	80 x 2 = 16	
J			FAC speci es	$\frac{25}{0}$ x 3 = $\frac{75}{0}$	
Herb Stratum (Plot size:)	0 = Total	Cover	FACU speciles	X 4 =	
1 Phalaris arundinacea	_60_ 🗸 60.0	% FACW	UPL speci es —	x b =	_
2 Poa sp.	20 🗹 20.0)% FAC	Column Totals:	105 (A) 23	55 (B)
3 Juncus balticus		% FACW	Prevalence Index	C = B/A = 2.238	_
4			Hydrophytic Vegetation		
5			✓ Dominance Test		
6			✓ Prevalence Index	κ is ≤3.0 [']	
7. 8.				daptations ¹ (Provide su or on a separate sheet	
9		%	Wetland Non-Vas	•	,
10		%		rophytic Vegetation ¹ (I	Explain)
11.	00.0	%		. , , ,	
	100 = Total	Cover		soil and wetland hydrol sturbed or problematic	
Woody Vine Stratum (Plot size:					
1			Hydrophytic		
2			Vegetation	No ○	
	0 = Total	cover	Present? Yes	· NO ·	
% Bare Ground in Herb Stratum: ()					

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

	Matrix	oth needed to document the indicator or con Redox Features	
epth . iches)	Color (moist) %	Color (moist) % Type ¹	Loc ² Texture Remarks
	Total (march	The state (mass)	
			-
	· · · · · · · · · · · · · · · · · · ·	Reduced Matrix, CS=Covered or Coated Sand Grain	•
		II LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:3
Histosol (A	•	Sandy Redox (S5) Stripped Matrix (S6)	☐ 2 cm Muck (A10)
Histic Epip Black Histic		Loamy Mucky Mineral (F1) (except in	Red Parent Material (TF2)
	Sulfide (A4)	Loamy Gleyed Matrix (F2)	MLRA 1) Other (Explain in Remarks)
	elow Dark Surface (A11)	Depleted Matrix (F3)	
•	Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mud	k Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gley	ed Matrix (S4)	Redox depressions (F8)	unless disturbed or problematic.
rictive La	yer (if present):		
ype:			
Depth (inch	es):		Hydric Soil Present? Yes No
	DRIC BASED ON HYDROLO	GY	
JMED HYD		GY	
JMED HYE		GY	
JMED HYE	ology Indicators:		Coopedany Indicators (minimum of two re-
JMED HYE Irology Iand Hydr nary Indic	ology Indicators: ators (minimum of one req	quired; check all that apply)	Secondary Indicators (minimum of two rec
Irology Iand Hydr nary Indic Surface W	ology Indicators: ators (minimum of one req ater (A1)	quired; check all that apply) Water-Stained Leaves (B9) (except	MLRA Water-Stained Leaves (B9) (MLRA 1, 2,
Irology Iand Hydr nary Indic Surface W High Wate	ology Indicators: ators (minimum of one req ater (A1) r Table (A2)	quired; check all that apply) Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B)	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Irology Iand Hydr nary Indic Surface W High Wate Saturation	ology Indicators: ators (minimum of one red ater (A1) r Table (A2) (A3)	quired; check all that apply) Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11)	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Irology Iand Hydr nary Indic Surface W High Wate Saturation Water Mai	ology Indicators: ators (minimum of one red ater (A1) r Table (A2) (A3) ks (B1)	quired; check all that apply) Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2)
Irology Iand Hydrary Indic Surface W High Wate Saturation Water Mar Sediment	ology Indicators: ators (minimum of one req ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2)	quired; check all that apply) Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Irology Iand Hydr Dary Indic Surface W High Wate Saturation Water Mar Sediment Drift depo	ology Indicators: ators (minimum of one reg ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3)	quired; check all that apply) Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roce	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2)
Irology Iand Hydr nary Indic Surface W High Wate Saturation Water Mar Sediment Drift depo	ology Indicators: ators (minimum of one req ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4)	uired; check all that apply) Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
drology cland Hydr nary Indic Surface W High Water Saturation Water Man Sediment Drift depo Algal Mat Iron Depo	ology Indicators: ators (minimum of one requater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)	quired; check all that apply) Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5)
Irology Iand Hydr hary Indic Surface W High Water Saturation Water Man Sediment Drift depo Algal Matel Iron Depo Surface So	ology Indicators: ators (minimum of one requater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6)	quired; check all that apply) Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LR	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) RA A) Raised Ant Mounds (D6) (LRR A)
Irology Iand Hydrary Indic Surface W High Water Saturation Water Mar Sediment Drift depo Algal Mat Iron Depo Surface So Inundation	ology Indicators: ators (minimum of one red ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) or Usible on Aerial Imagery (B7)	quired; check all that apply) Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LR	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5)
Irology Iand Hydrary Indic Surface W High Water Saturation Water Mar Sediment Drift depo Algal Mat Iron Depo Surface So Inundation	ology Indicators: ators (minimum of one requater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6)	quired; check all that apply) Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LR	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) RA A) Raised Ant Mounds (D6) (LRR A)
Irology Iand Hydr Darry Indic Surface W High Water Saturation Water Man Sediment Drift depo Algal Mat Iron Depo Surface So Inundation Sparsely V	ology Indicators: ators (minimum of one requater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) n Visible on Aerial Imagery (B7) regetated Concave Surface (B8)	water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rocent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LR	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) RA A) Raised Ant Mounds (D6) (LRR A)
drology cland Hydrenary Indice Surface W High Water Saturation Water Man Sediment Drift depo Algal Mat Iron Depo Surface Sc Inundation Sparsely W	ology Indicators: ators (minimum of one red ater (A1) r Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) or Visible on Aerial Imagery (B7) regetated Concave Surface (B8) tions: Present? Yes N	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks)	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) RA A) Raised Ant Mounds (D6) (LRR A)
drology land Hydr nary Indic Surface W High Wate Saturation Water Mar Sediment Drift depo Algal Mat Iron Depo Surface So Inundation Sparsely W d Observal	ology Indicators: ators (minimum of one requater (A1) r Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) n Visible on Aerial Imagery (B7) degetated Concave Surface (B8) tions: Present? Yes N	water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rocent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LR	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) S (C6) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7)
drology tland Hydrenary Indice Surface W High Water Saturation Water Man Sediment Drift depo Algal Mat Iron Depo Surface So Inundation Sparsely W d Observat face Water I er Table Preservation Prese	ology Indicators: ators (minimum of one requater (A1) r Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) n Visible on Aerial Imagery (B7) regetated Concave Surface (B8) tions: Present? Present? Yes N ent? N	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rou Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) Depth (inches):	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-neutral Test (D5) RA A) Raised Ant Mounds (D6) (LRR A)
drology land Hydr hary Indic Surface W High Wate Saturation Water Mar Sediment Drift depo Algal Mat Iron Depo Surface Sc Inundation Sparsely V d Observa ace Water I er Table Presides capilla	ology Indicators: ators (minimum of one requater (A1) r Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) n Visible on Aerial Imagery (B7) regetated Concave Surface (B8) regetated Concave Surface (B8) resent?	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rou Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) Depth (inches): Depth (inches):	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) S (C6) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7) Wetland Hydrology Present? Yes No
Irology Iand Hydr Dary Indic Surface W High Water Saturation Water Mar Sediment Drift depo Algal Mat Iron Depo Surface So Inundation Sparsely W d Observa ace Water I er Table Pro ration Pres udes capilla	ology Indicators: ators (minimum of one requater (A1) r Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) n Visible on Aerial Imagery (B7) regetated Concave Surface (B8) regetated Concave Surface (B8) resent?	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rou Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) Depth (inches):	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) S (C6) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7) Wetland Hydrology Present? Yes No
Irology Iand Hydr Dary Indic Surface W High Water Saturation Water Mar Sediment Drift depo Algal Mat Iron Depo Surface So Inundation Sparsely W d Observa ace Water I er Table Pro ration Pres udes capilla	ology Indicators: ators (minimum of one requater (A1) r Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) n Visible on Aerial Imagery (B7) regetated Concave Surface (B8) regetated Concave Surface (B8) resent?	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rou Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) Depth (inches): Depth (inches):	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) S (C6) FAC-neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost Heave Hummocks (D7) Wetland Hydrology Present? Yes No

Project/Site: DESCHUTES LWI	City	y/County: S	UNRIVER/	DESCHUTES	Sampling	Date: 24-J	un-10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Samp	ling Point:	SP 31A
Investigator(s): ALISON SIGLER, SARAH HARTUNG		Section, Tow	nship, Ra	inge: \$ 10 1	21 S	R 10 E	
Landform (hillslope, terrace, etc.): Floodplain	Lo	ocal relief (c	oncave, c	onvex, none): flat		Slope:	0.0% / 0.0
Subregion (LRR): LRR A	Lat.: 43.7	703		Long.: -121.5249		Datur	n: NAD83
Soil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 per	cent slopes			NWI cla	ssification:	PFMC	
re climatic/hydrologic conditions on the site typical for this Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology Summary of Findings - Attach site map sh	significantly dis	sturbed? ematic?	(If nee	ormal Circumstances	" present? wers in Rer	Yes •	No O
Hydrophytic Vegetation Present? Yes No O		Is the S	ampled A	rea			
Hydric Soil Present? Yes No O		within a	Wetland	_? Yes ● No C)		
Wetland Hydrology Present? Yes No							
Remarks: On-site, located in state park, no digging allowed withou VEGETATION - Use scientific names of plan	nts.	Dominant Species?					
Tree Stratum (Plot size:		Rel.Strat. I Cover S	ndicator tatus	Dominance Test wo	orksheet:		
1,	0 [0.0%		Number of Dominant That are OBL, FACW,		3	(A)
2,		0.0%					
3		0.0%		Total Number of Dom Species Across All Str		3	(B)
4	0	0.0%					
Sapling/Shrub Stratum (Plot size:	=	Total Cover		Percent of dominar That Are OBL, FAC		100.0	(A/B)
1, Salix exigua	40	100.0%	OBL	Prevalence Index w	orksheet:		
2		0.0%		Total % Cove	r of: N	fultiply by:	
3		0.0%		OBL speci es	40 ×	1 =	40
4				FACW species	100x	2 =2	200
5	0			FAC species	<u> </u>	3 =	0
Herb Stratum (Plot size:	=	Total Cover		FACU species	×	4 =	0
1 Carex sp.	80	80.0%	FACW	UPL speci es	×	5 =	0
Veratrum californicum	20	-	FACW	Column Totals:	140 (A)	240 (B)
3		0.0%	17.000	Prevalence Ind	ex = B/A =	1.71	4
4		0.0%		Hydrophytic Vegeta	tion Indica	ors:	
5	0	0.0%		✓ Dominance Te			
6		0.0%		✓ Prevalence Inc	dex is ≤3.0 ¹		
7		0.0%			Adaptation	s 1 (Provide	supporting
8.				data in Remark	cs or on a se	parate she	et)
9,				Wetland Non-	/ascular Pla	nts ¹	
10.—		0.0%		Problematic H	ydrophytic \	egetation ¹	(Explain)
11.		Total Cover		¹ Indicators of hydrobe present, unless			
Woody Vine Stratum (Plot size:	<u> </u>	7 6 600					
1,		0.0%		Hydrophytic			
2		0.0%		Vegetation	s 💿 No	\cap	
	=	Total Cover		Present? Ye	5 V NO	\smile	
% Bare Ground in Herb Stratum: ()							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

Soil Sampling Point: 31A Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth Loc2 Color (moist) Color (moist) % Texture Remarks (inches) Type 1 ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils:3 2 cm Muck (A10) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) ☐ Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) ☐ Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) ☐ Thick Dark Surface (A12) ³Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) ☐ Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No O **Hydric Soil Present?** Yes Depth (inches): Remarks: ASSUMED HYDRIC HYDRICS BASED ON HYDROLOGY Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) ✓ Saturation (A3) Salt Crust (B11) ☐ Drainage Patterns (B10) Aquatic Invertebrates (B13) Water Marks (B1) Dry Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes No O Depth (inches): Surface Water Present? Yes O No 💿 Water Table Present? Depth (inches): Yes

No Wetland Hydrology Present? Saturation Present? Yes No O Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Remarks:

Landform (hillslope, terrace, etc.): Floodplain				State: OR	Sampling P		
Landform (hillslope, terrace, etc.): Floodplain						oint:	SP 32A
		Section, To	wnship, R	ange: S 10	T_21 S R_10) E	
		Local relief	(concave,	convex, none): flat	Slop	oe: 0.0	% / 0.0
Subregion (LRR): LRR A	Lat.: 43	.7703		Long.: -121.5248		Datum: N	AD83
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes					ssification: PSSC		
e climatic/hydrologic conditions on the site typical for this		? Yes	• No				
Are Vegetation, Soil, or Hydrology	significantly		Are "N	lormal Circumstances	•	s • No	\circ
Are Vegetation . Soil . , or Hydrology .	naturally pro			eded, explain any ans	•		
3 - 1 - 7 3 3 -			-			-	
Summary of Findings - Attach site map shell Hydrophytic Vegetation Present? Yes • No •	nowing sa	mpling p	oint ioc	ations, transec	its, importan	i reatur	es, et
		Is the	Sampled A		_		
		within	a Wetland	_{d?} Yes • No)		
,							
Remarks: OFF-SITE DETERMINATION							
on one perenantion							
VEGETATION - Use scientific names of plan	nts.	Dominant					
•	Absolute % Cover		Indicator Status	Dominance Test w	orksheet:		
Tree Stratum (Plot size:) 1 Pinus contorta			FAC	Number of Dominant		4	(A)
1. Pinus contorta 2.		0.0%	170	That are OBL, FACW,	, OI FAC.		(A)
3.	_	0.0%		Total Number of Don Species Across All Str		4	(B)
4,		0.0%		Species Across Air Str	iata.		(b)
Sapling/Shrub Stratum (Plot size:)	5	= Total Cove	er	Percent of domina That Are OBL, FAC		100.0%	_ (A/B)
1, Salix exigua	10	100.0%	OBL	Prevalence Index v	vorksheet:		
2	0	0.0%		Total % Cove	er of: Multip	ly by:	
3	0	0.0%		OBL speci es	10 x 1 =	10	_
4		0.0%		FACW species	100 x 2 =	200	_
5		0.0%		FAC species	5 x 3 =	15	_
Herb Stratum (Plot size:	10	= Total Cove	er	FACU species	x 4 =	0	_
1 Carex sp.	80	✓ 80.0%	FACW	UPL speci es	x 5 =	0	_
2 Juncus balticus		20.0%	FACW	Column Totals:	115 (A)	225	(B)
3		0.0%		Prevalence Inc	dex = B/A =	1.957	
4	0	0.0%		Hydrophytic Vegeta	ation Indicators:		
5	0	0.0%		✓ Dominance Te	est is > 50%		
6		0.0%		✓ Prevalence In	dex is ≤3.0 ¹		
7	_	0.0%			l Adaptations ¹ (Pi		orting
8		0.0%			ks or on a separa	te sheet)	
10		0.0%			Vascular Plants ¹	1	
11	_	0.0%		☐ Problematic H	lydrophytic Veget	ation¹ (Ex	olain)
	100	= Total Cove	er	¹ Indicators of hydr be present, unless			jy must
Woody Vine Stratum (Plot size:							
1		0.0%		Lludrombust'-			
2		0.0%		Hydrophytic Vegetation			
Of Bara Craumd in Usets Streeting C	0	= Total Cove	er	Present? Ye	es No		
% Bare Ground in Herb Stratum: 0							
Remarks:							
Carex sp. assumed to be FACW.							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS

epth	Matrix	Redox Features	
ches) Col	or (moist) %	Color (moist) % Type ¹	Loc ² Texture Remarks
e: C=Concentratio	n. D=Depletion. RM=Red	uced Matrix, CS=Covered or Coated Sand Grains	s ² Location: PL=Pore Lining. M=Matrix
	· · · · · · · · · · · · · · · · · · ·	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:3
Histosol (A1)		Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A	2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)		Loamy Mucky Mineral (F1) (except in N	
Hydrogen Sulfide	(A4)	Loamy Gleyed Matrix (F2)	
Depleted Below D	ark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface	•	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Muck Miner		Depleted Dark Surface (F7) Redox depressions (F8)	wetland hydrology must be present, unless disturbed or problematic.
Sandy Gleyed Mat	• •	Redox depressions (F8)	uniess disturbed of problematic.
rictive Layer (if	present):		
ype:			Hydric Soil Present? Yes No
epth (inches):			Hydric Soil Present? Yes ● No 🔾
	OILS BASED ON HYDRO	DLOGY	
JMED HYDRIC S	OILS BASED ON HYDRO	DLOGY	
JMED HYDRIC S		DLOGY	
IMED HYDRIC Solid	ndicators:		Secondary Indicators (minimum of two rec
IMED HYDRIC Solution Irology Iand Hydrology nary Indicators (I ndicators: minimum of one requir	ed; check all that apply)	
Irology land Hydrology nary Indicators (Surface Water (A	Indicators: minimum of one requir	ed; check all that apply) Water-Stained Leaves (B9) (except M	ILRA Water-Stained Leaves (B9) (MLRA 1, 2,
Irology Iand Hydrology Darry Indicators (Surface Water (A' High Water Table	Indicators: minimum of one requir	ed; check all that apply) Water-Stained Leaves (B9) (except M	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Irology Iand Hydrology Iary Indicators (Surface Water (A' High Water Table Saturation (A3)	Indicators: minimum of one requir	ed; check all that apply) Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11)	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Irology Iand Hydrology Iary Indicators (A' High Water Table Saturation (A3) Water Marks (B1)	Indicators: minimum of one requir I) (A2)	ed; check all that apply) Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2)
Irology Iand Hydrology Iary Indicators (Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit	Indicators: minimum of one requir (A2) (A2)	ed; check all that apply) Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Irology Iand Hydrology Inary Indicators (Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift deposits (B3)	Indicators: minimum of one requir (A2) (A2) (S (B2)	ed; check all that apply) Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roo	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) □ Drainage Patterns (B10) □ Dry Season Water Table (C2) ☑ Saturation Visible on Aerial Imagery (C9) ts (C3) Geomorphic Position (D2)
Irology Iand Hydrology Indicators (Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift deposits (B3 Algal Mat or Crust	Indicators: minimum of one requir (A2) s (B2) (B4)	ed; check all that apply) Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roo	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) □ Drainage Patterns (B10) □ Dry Season Water Table (C2) ☑ Saturation Visible on Aerial Imagery (C9) ts (C3) □ Geomorphic Position (D2) □ Shallow Aquitard (D3)
Irology Iland Hydrology Inary Indicators (Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift deposits (B3 Algal Mat or Crust Iron Deposits (B5	Indicators: minimum of one requir (A2) s (B2) (B4)	ed; check all that apply) Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	4A, and 4B) □ Drainage Patterns (B10) □ Dry Season Water Table (C2) □ Saturation Visible on Aerial Imagery (C9) ts (C3) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) (C6) □ FAC-neutral Test (D5)
JMED HYDRIC Solution of the control	Indicators: minimum of one requir (A2) s (B2) (B4) (s (B6)	ed; check all that apply) Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roo	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) □ Drainage Patterns (B10) □ Dry Season Water Table (C2) ☑ Saturation Visible on Aerial Imagery (C9) ts (C3) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) (C6) □ FAC-neutral Test (D5)
Irology Iand Hydrology Iand Hydrology Inary Indicators (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift deposits (B3 Algal Mat or Crust Iron Deposits (B5 Surface Soil Crack	Indicators: minimum of one requir (A2) s (B2) (B4)	ed; check all that apply) Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) □ Drainage Patterns (B10) □ Dry Season Water Table (C2) ☑ Saturation Visible on Aerial Imagery (C9) ts (C3) ☑ Geomorphic Position (D2) □ Shallow Aquitard (D3) (C6) □ FAC-neutral Test (D5)
Irology Iand Hydrology Iand Hydrology Iary Indicators (Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift deposits (B3 Algal Mat or Crust Iron Deposits (B5 Surface Soil Crack Inundation Visible	Indicators: minimum of one requir (A2) s (B2) (B4) (s (B6)	ed; check all that apply) Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRR	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) □ Drainage Patterns (B10) □ Dry Season Water Table (C2) ☑ Saturation Visible on Aerial Imagery (C9) Its (C3) ☑ Geomorphic Position (D2) □ Shallow Aquitard (D3) (C6) □ FAC-neutral Test (D5) □ Raised Ant Mounds (D6) (LRR A)
Irology Iand Hydrology Iand Hydrology Inary Indicators (A. Surface Water (A. High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3 Algal Mat or Crust Iron Deposits (B5 Surface Soil Crack Inundation Visible Sparsely Vegetate	Indicators: minimum of one requir (A2) s (B2) (B4) (s (B6) on Aerial Imagery (B7) d Concave Surface (B8)	ed; check all that apply) Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRR	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) □ Drainage Patterns (B10) □ Dry Season Water Table (C2) ☑ Saturation Visible on Aerial Imagery (C9) Its (C3) ☑ Geomorphic Position (D2) □ Shallow Aquitard (D3) (C6) □ FAC-neutral Test (D5) □ Raised Ant Mounds (D6) (LRR A)
Irology Iand Hydrology Iand Hydrology Inary Indicators (Surface Water (A' High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift deposits (B3 Algal Mat or Crust Iron Deposits (B5 Surface Soil Crack Inundation Visible Sparsely Vegetate d Observations:	Indicators: minimum of one requir (A2) (B2) (B4) (B4) (B6) on Aerial Imagery (B7) d Concave Surface (B8)	ed; check all that apply) Water-Stained Leaves (B9) (except M 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roo Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRR	MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) □ Drainage Patterns (B10) □ Dry Season Water Table (C2) ☑ Saturation Visible on Aerial Imagery (C9) Its (C3) ☑ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ FAC-neutral Test (D5) □ Raised Ant Mounds (D6) (LRR A)
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