Project/Site: Deschutes County LWI	Cit	ty/County:_	Sunriver/De	eschutes	Sampling Dat	e: 05-May-	10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sampling I	Point:	SP 203
Investigator(s): Sarah Hartung, Aaron Booy		Section, To	wnship, Ra	ange: S 7 T 2	<u>20 S</u> R _1	1 E	
Landform (hillslope, terrace, etc.): Swale		Local relief (concave,	convex, none): concave	Slo	pe: 2.0	0% / 1.1
Subregion (LRR): LRR B	Lat.: 43.8	3627		Long.: -121.4600		Datum:	NAD 83
oil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 per				NWI classi	fication:	_	
e climatic/hydrologic conditions on the site typical for this		Yes	● No ○				
	significantly di			ormal Circumstances" p	•	es 💿 N	o O
	naturally probl			eded, explain any answe			
Summary of Findings - Attach site map sh				•			es. etc.
Hydrophytic Vegetation Present? Yes No					portai.		
Hydric Soil Present? Yes No		Is the	Sampled A	Area Az Yes • No O			
Wetland Hydrology Present? Yes No		within	a Wetland	i? Yes ♥ No ∪			
Remarks:							
On-site determination.							
VEGETATION - Use scientific names of plan	its.	Dominant					
Tree Stratum (Plot size:		Species? _ Rel.Strat. Cover	Indicator Status	Dominance Test work	sheet:		
1.	0	0.0%		Number of Dominant Spe That are OBL, FACW, or		3	(A)
2.	0	0.0%					()
3		0.0%		Total Number of Domina Species Across All Strata		3	(B)
4.	0	0.0%					(-)
Sapling/Shrub Stratum (Plot size:		= Total Cove	r	Percent of dominant : That Are OBL, FACW,	•	100.0%	(A/B)
1. Salix geyeriana	50_	✓ 62.5%	FACW	Prevalence Index wor	ksheet:		
2. Spiraea douglasii	30	✓ 37.5%	FACW	Total % Cover of	of: Multip	oly by:	
3		0.0%		OBL specijes	40 x 1 =	= 40	_
4	0	0.0%		FACW species	80 x 2 =	160	_
5		0.0%		FAC speciies	<u>0</u> x 3 =	0	_
Herb Stratum (Plot size:	80 =	Total Cove	r	FACU species	<u>0</u> x 4 =		_
1 Carex aquatilis		✓ 100.0%	OBL	UPL speciies —	<u> </u>		_
2,		0.0%	OBL	Column Totals:	120 (A)	200	(B)
3		0.0%		Prevalence Index	= B/A =	1.667	
4.	Г	0.0%		Hydrophytic Vegetation	n Indicators:		
5		0.0%		✓ Dominance Test			
6		0.0%		✓ Prevalence Index	is ≤3.0 ¹		
7		0.0%		Morphological Ac	laptations 1 1	rovide su	oporting
8,		0.0%		data in Remarks	or on a separa	te sheet)	
9		0.0%		Problematic Hydr	ophytic Veget	ation 1 (¹	(plain)
10, 11,		0.0%					
11,		= Total Cove	 r	1 Indicators of hydric	soil and wetla	and hydrol	ogy must
Woody Vine Stratum (Plot size:				be present, unless dis	turbed or prol	piematic.	
1	0	0.0%					
2.	0	0.0%		Hydrophytic			
	0 =	Total Cove		Vegetation Present? Yes	● No ○		

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

	ription: (De		the depth ne		the indiction that the indiction the indiction that		firm the a	absence of indicators.)	
Depth (inches)	Color (Matrix moist)		Color (moist)	юх геан %	Type 1	Loc2	Texture	Remarks
0-8	10YR	2/1	100%			-77-		Mucky silt	
8-20	10YR	3/1	100%					Sandy Clay Loam	
0-20	- 101K							Salidy Clay Loan	
	-								
1 Type: C=Cor	ncentration. I	 D=Depletio	n. RM=Reduc	ed Matrix, CS=Cover	ed or Coat	ed Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=Ma	atrix
Hydric Soil	Indicators:	(Applicat	ole to all LRF	Rs, unless otherwis	e noted.))		Indicators for Problem	matic Hydric Soils: ³
Histosol ((A1)			Sandy Redox	(S5)			1 cm Muck (A9) (LF	•
	pedon (A2)			Stripped Matri	x (S6)			2 cm Muck (A10) (L	.RR B)
✓ Black Hist	, ,			Loamy Mucky	Mineral (F	1)		Reduced Vertic (F18	3)
	n Sulfide (A4) Layers (A5)			Loamy Gleyed	Matrix (F	2)		Red Parent Material	(TF2)
	ck (A9) (LRR			Depleted Matr				Other (Explain in Re	emarks)
	Below Dark S		1)	Redox Dark S		•			
I — .	rk Surface (A		.,	Depleted Dark		[F7)			
	uck Mineral (S	•		Redox depress				3 Indicators of hydrophy	ytic vegetation and
	eyed Matrix (F9)			wetland hydrology m	nust be present.
Restrictive L	ayer (if pre	sent):							
Type:									
Depth (inc	ches):							Hydric Soil Present?	Yes No
Hydrolog	у								
Wetland Hyd	drology Indi	icators:							
Primary Indi	icators (min	nimum of	one required	d; check all that ap	(yla			Secondary Indic	ators (2 or more required)
Surface V	` ,			Salt Crust (E	311)			Water Marks ((B1) (Riverine)
✓ High Wat)		Biotic Crust				Sediment Dep	osits (B2) (Riverine)
✓ Saturation	` ,			Aquatic Inve				_	(B3) Riverine)
I —	arks (B1) (No			Hydrogen S			5 . (0.0	☐ Drainage Patte	• •
	Deposits (B2				•	s along Living	Roots (C3		ater Table (C2)
I — .	osits (B3) (No Soil Cracks (B)	Presence of		iron (C4) n in Plowed S	oils (CA)	Crayfish Burro	• •
	on Visible on A		iery (R7)	Thin Muck S			Olis (Co)	Shallow Aquita	ible on Aerial Imagery (C9)
	ained Leaves	-	jery (D7)	Other (Expla				FAC-neutral T	
Field Observ		(/						TAG HEATER 1	
Surface Water		Yes	● No C	Depth (inc	hes):	1]		
Water Table P		Yes]		
Saturation Pre						0	Wetla	and Hydrology Present?	Yes 💿 No 🔾
(includes capil	llary fringe)	Yes				0			
Describe Red	corded Data	a (stream	gauge, mor	nitor well, aerial ph	otos, pre	evious inspe	ections), if	f available:	
Domarka									
Remarks:									

Project/Site: Deachutes County LWI		City/County: Sunriver	/Deschutes	Sampling Dat	e: 05-May-10	
Applicant/Owner: DESCHUTES COUNTY			State: OR	Sampling P	oint: SP	205
L		Section, Township,		20 S R 1	 1 E	
Landform (hillslope, terrace, etc.): Floodplain		Local relief (concav	e, convex, none): flat	Slop	De: 0.0%	/ 0.0
Subregion (LRR): LRR B	 Lat.: 4		Long.: -121.4610	·	Datum: NAD	
		5.5575		sification: PEM(
Soil Map Unit Name: <u>Not available</u> re climatic/hydrologic conditions on the site typical	iou this times of wast	? Yes • No			,	
	significantly				s • No	$\overline{}$
			"Normal Circumstances"			
Are Vegetation $\;\sqcup\;$, Soil $\;\sqcup\;$, or Hydrology $\;$ Summary of Findings - Attach site $\;$	naturally pro	•	needed, explain any answ			etc
<u> </u>				, important	10010103	
Hydric Soil Present? Yes • No		Is the Sample				
•	0	within a Wetla	ınd? Yes ● No ○			
Remarks:						
Off-site determination.						
on one determination.						
VEGETATION - Use scientific names	of plants.	Dominant				
	Absolute	Species? Rel.Strat. Indicat	or Dominance Test wor	kshoot:		
Tree Stratum (Plot size:	% Cover					
1,		0.0%	Number of Dominant S That are OBL, FACW, o		1	(A)
2		0.0%	Total Number of Demin	ont		
3		0.0%	Total Number of Domin Species Across All Strat		1	(B)
4		0.0%	Dorsont of dominant	Charles		
Sapling/Shrub Stratum (Plot size:		= Total Cover	Percent of dominant That Are OBL, FACW	•	100.0%	(A/B)
1	0	0.0%	Prevalence Index wo	rksheet:		
2.	_	0.0%	Total % Cover		ly by:	
3	0	0.0%	OBL speci es	95 x 1 =	95	_
4		0.0%	FACW species	5 x 2 =	10	
5	0	0.0%	_ FAC speci es _	0 x 3 =	0	
	0	= Total Cover	FACU species	x 4 =	0	
Herb Stratum (Plot size:	00	✓ 90.0% OBL	UPL speci es	<u> </u>	0	
1 Carex aquatilis 2 Juncus balticus		✓ 90.0% OBL 5.0% FACW	Column Totals:	100 (A)	105	(B)
3 Typha latifolia		5.0% PACW OBL	Prevalence Inde	x = B/A =	1.050	
4.		0.0%	Hydrophytic Vegetati			
5		0.0%	Dominance Test			
6		0.0%	✓ Prevalence Inde	_		
7		0.0%	Morphological A	daptations 1	rovide suppo	rting
8,		0.0%	_ data in Remarks	or on a separa	te sheet)	
9		0.0%	Problematic Hyd	drophytic Veget	ation 1 (¹ ːpla	ain)
10, 11		0.0%	_			
11,	100	= Total Cover	1 Indicators of hydri			must
Woody Vine Stratum (Plot size:			be present, unless di	sturped or prob	iematic.	
1		0.0%	_			
2.		0.0%	Hydrophytic			
	0	= Total Cover	Vegetation Present? Yes	● No ○		
% Bare Ground in Herb Stratum: ()	% Cover of Biot	ic Crust ()				
Remarks:						

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

Profile Desc	ription: (Describe to t	he depth ne				nfirm the al	bsence of indicato	rs.)
Depth	Matrix			dox Featu				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1.5			111111111111111111111111111111111111111					
	ncentration. D=Depletion					ins ²Locat	ion: PL=Pore Lining	
I —	Indicators: (Applicab	le to all LRR)		Indicators for I	Problematic Hydric Soils: ³
Histosol	• •		Sandy Redox				1 cm Muck ((A9) (LRR C)
Black His	ipedon (A2)		Stripped Matr				2 cm Muck ((A10) (LRR B)
	n Sulfide (A4)		Loamy Mucky				Reduced Ver	rtic (F18)
_ ` `	Layers (A5) (LRR C)		Loamy Gleyed	d Matrix (F	2)		Red Parent I	Material (TF2)
	ck (A9) (LRR D)		Depleted Mat	rix (F3)			Other (Expla	nin in Remarks)
	` , ` ,	4)	Redox Dark S	urface (F6)			
	Below Dark Surface (A1	1)	Depleted Darl	k Surface ((F7)			
	rk Surface (A12)		Redox depres	sions (F8)			3	ydrophytic vegetation and
	uck Mineral (S1)		Vernal Pools	(F9)			wetland hydro	ology must be present.
	eyed Matrix (S4)							
Restrictive L	ayer (if present):							
Type:							Hydric Soil Prese	ent? Yes • No O
Depth (inc	ches):						nyunc son Prese	ent: Yes S NO C
Remarks:								
no access - h	nydric soils assumed b	ased on OB	L dominant veg.					
			_					
Hydrolog	У							
Wetland Hyd	drology Indicators:							
Primary Ind	icators (minimum of	ne required	; check all that an	(ylgc			Secondar	y Indicators (2 or more required)
Surface V	Water (A1)		Salt Crust (B11)				Marks (B1) (Riverine)
	ter Table (A2)		Biotic Crust					ent Deposits (B2) (Riverine)
Saturatio	• •		Aquatic Inv		(B13)			eposits (B3) Riverine)
	arks (B1) (Nonriverine)		Hydrogen S					ge Patterns (B10)
l —	t Deposits (B2) (Nonrive	ine)			along Living	n Roots (C3)		ason Water Table (C2)
	osits (B3) (Noneriverine)	iiio)	Presence of	•	•	g 10013 (03)	= 1	h Burrows (C8)
	Soil Cracks (B6)				in Plowed S	inils (CA)	_	tion Visible on Aerial Imagery (C9)
	on Visible on Aerial Imag	ory (P7)	Thin Muck S			ouis (Co)		3 , , ,
		ery (b/)						v Aquitard (D3)
water-st	ained Leaves (B9)		U Other (Expl	alli ili Kelli	iai KS)		✓ FAC-ne	eutral Test (D5)
Field Observ		·				7		
Surface Water			Depth (inc	ches):				
Water Table F	Present? Yes	○ No •	Depth (inc	ches):				
Saturation Pre		○ No ●	Depth (inc	hes).		Wetla	nd Hydrology Pres	ent? Yes No
(includes capi	nary milge)			, ,				
	corded Data (stream	gauge, moni	tor well, aerial ph	notos, pre	evious inspe	ections), if	available:	
Aerial photo	OS .							
Remarks:								
	hydrology assumed b	ased on aeri	al photo, landsca	pe positio	on, and obs	ervations of	of adjacent river e	levation [approx. At wetland
elevation]								

	City/County:	Sunriver/De	eschutes	Sampling Date	e: 05-May-10	
			State: OR	Sampling P	oint: SI	P 206
	Section, To	wnship, Ra	ange: \$ 6 T 20) S R 1	 1 E	
	Local relief (concave, c	convex, none): flat			6 / 0.6
lat· //		•			-	_
	3.0704			cation: DCCC		
	. Voc	● No C				
-					ne 🔍 No	\bigcirc
			•			<u> </u>
					•	s oto
lowing sai	inpling po	IIIL IOCA	itions, transects,	ппрог сапт	reature	s, etc.
	Is the S	Sampled A	irea			
	within	a Wetland	_{l?} Yes 💿 No 🔾			
etland hydrolo	ogy observed i	rom aeria	I photos and veg., hydrid	: soils assume	ed [no acces	sJ
	Dit					
ints.	Species? _					
			Dominance Test works	heet:		
-		ota tus	Number of Dominant Spec	cies	2	(A)
			That are OBL, FACW, OF I	AC.		(A)
•	0.0%			t	2	(B)
0	0.0%		Species Across All Strata:			(b)
	= Total Cove				100 00/	(A /D)
			That Are OBL, FACW,	or FAC:	100.0%	(A/B)
0	0.0%		Prevalence Index work	sheet:		
0	0.0%		Total % Cover of	: Multip	ly by:	_
0	0.0%		OBL speci es	95 x 1 =	95	
0	0.0%		FACW species	5 x 2 =	10	
	0.0%		FAC speci es	<u> </u>	0	
0	= Total Cove	r	FACU speci es	0 x 4 =	0	
	√ (5.00)	ODI	UPL speci es	0 x 5 =	0	
			Column Totals: 1	00 (A)	105	(B)
			Prevalence Index	= B/A =	1.050	
		TACV				
	0.0%					
	0.0%					
	0.0%				massida assess	~ = t ! = =
	0.0%		data in Remarks o	r on a separa	roviae suppi te sheet)	orting
0	0.0%		Problematic Hydro	phytic Vegeta	ation 1 (1 (p)	lain)
	0.0%				` '	-
	0.0%		1 Indicators of hydric	oil and wetle	nd hydrolog	v must
100	= Total Cove	r				y must
			Ibidaaa 1 11			
			Vogotation			
0	= Total Cove	r	Present? Yes	$^{ u}$ No $^{ u}$		
Cover of Bioti	ic Crust ()					
	Lat.: 4: ss stime of year? significantly naturally pro howing sale vetland hydrolo no 0 0 0 0 0 0 0 0 0 0 0 0 0	Section, Tox Local relief ()	Section, Township, Ra Local relief (concave, or concave, or concav	State: Section, Township, Range: S 6	State: □R Sampling F Sampling F Store Sto	State: OR Sampling Point: Since Section, Township, Range: S 6

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

Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains	Depth	Matrix	- ==pti11icou		dox Featu		aic a	bsence of indicators.)	
Hydric Soil Indicators: (Applicable to all LRRs, wiless otherwise noted.) Histosco (Ar)		Color (moist)	% (Color (moist)	%	Type 1	Loc2	Texture	Remarks
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histoscol (Ar) Sandy Redox (55) 1 cm Muck (A9) (LRR C) Histoscol (Ar) Schipped Martix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Verific (F18) Reduced Verific (F18									
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)				-					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histos (An)									
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)								-	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histos (An)									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histos (An)									_
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1)									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histos (An)									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histos (An)									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosco (A1)	Type: C-Concep	tration D-Doplotion	DM_Poducod i	Matrix CS_Cover	nd or Coate	ad Sand Gra	ine 21 oca	tion: DI - Poro Lining M-	 Matrix
Histose (A1)							IIIS -LUCA		
Histic Epipedon (A2)	<u> </u>	cators: (Applicable	io ali ERRS, i						•
Black Histic (A3)		n (Δ2)							•
Hydrogen Sulfide (A4)			l [_		1)			, ,
Stratified Layers (A5) (LRR C) □ Depleted Matrix (F3) □ Depleted Below Dark Surface (A11) □ Depleted Below Dark Surface (A11) □ Depleted Below Dark Surface (A12) □ Sandy Muck Mineral (S1) □ Sandy Gleyed Matrix (S4) □ Vernal Pools (F9) □ Vernal Pools (F9) □ Indicators of hydrophytic vegetation and wetland hydrology must be present. □ Sandy Gleyed Matrix (S4) □ Vernal Pools (F9) □ Indicators of hydrophytic vegetation and wetland hydrology must be present. □ Sandy Gleyed Matrix (S4) □ Vernal Pools (F9) □ Indicators of hydrophytic vegetation and wetland hydrology must be present. □ Sandy Gleyed Matrix (S4) □ Vernal Pools (F9) □ Indicators of hydrophytic vegetation and wetland hydrology must be present. □ Sandy Gleyed Matrix (S4) □ Present? □ Ver Soil Present? Yes ○ No ○ No ○ Depth (inches): □ Saturation (A3) □ Aquatic Invertebrates (B13) □ Drift Deposits (B2) (Nonriverine) □ Drift deposits (B3) (Nonriverine) □ Drift de	≒ `	•	l I	_					•
□ tem Muck (A9) (LRR D) □ Redox Dark Surface (F6) □ Depleted Below Dark Surface (A12) □ Depleted Dark Surface (F7) □ Thick Dark Surface (A12) □ Redox depressions (F8) □ Redox depressions (F8) □ Redox depressions (F8) □ Redox depressions (F9)	Stratified Laye	ers (A5) (LRR C)	l I	_		<u>(</u>)			• •
Depleted Below Dark Surface (A11)	1 cm Muck (A	(9) (LRR D)	l I					✓ Other (Explain in	Remarks)
Thick Dark Surface (A12)	Depleted Belo	ow Dark Surface (A11)	l I		` ,				
Sandy Muck Mineral (S1)	Thick Dark Su	ırface (A12)	l I			-7)			
sandy Gleyed Matrix (S4)	Sandy Muck N	Mineral (S1)	l 1	_				3 Indicators of hydrop	phytic vegetation and
Pepth (inches):	_		L	vernai Poois (F9)			wetland hydrology	must be present.
Type:									
emarks: access - hydric soils assumed based on OBL dominant veg. Application Common		(p , .							
Aguatic Invertebrates (B13) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B2) (Nonriverine) Drift Deposits (B3) (Noneriverine) Dry Season Water Table (C2) Drift Deposits (B3) (Noneriverine) Dry Season Water Table (C2) Dry Seaso		•						Hydric Soil Present?	Yes 💿 No 🔾
ydrology Vetland Hydrology Indicators: Virimary Indicators (minimum of one required: check all that apply) Secondary Indicators (2 or more regulated) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Riverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Noneriverine) Drift Deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Water Atable (C2) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water Stainet Leaves (B9) Depth (inches): Wetland Hydrology Present? Yes No Popeth (inches): Depth (inches): Wetland Hydrology Present? Yes No Popeth (inches):				_					
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Sediment Deposits (B3) Riverine) Drift Deposits (B3) Riverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) 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) Water-Stained Leaves (B9) Other (Explain in Remarks) Wetland Hydrology Present? Yes No Depth (inches): Depth (i	,			J.					
Secondary Indicators (2 or more recommendation of the equired: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Sediment Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B3) Riverine) Drift Deposits (B3) Riverine) Drainage Patterns (B10) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Verace Water Present? Yes No Depth (inches): Depth (inches): Secondary Indicators (2 or more recovered to the content of the conte	ydrology								
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Drainage Patterns (B10) Drift Deposits (B3) Riverine) Drainage Patterns (B10) Drift Deposits (B3) Riverine) Drainage Patterns (B10) Drift Deposits (B3) (Noneriverine) Drainage Patterns (B10) Dry Season Water Table (C2) Drift Deposits (B3) (Noneriverine) Drainage Patterns (B10) Dry Season Water Table (C2) Drift Deposits (B3) (Noneriverine) Drainage Patterns (B10) Dry Season Water Table (C2) Drift Deposits (B3) (Noneriverine) Drainage Patterns (B10) Dry Season Water Table (C2) Drift Deposits (B3) (Noneriverine) Drainage Patterns (B10) Dry Season Water Table (C2) Drainage Patterns (B10) Drainage Patter	etland Hydrolo	ogy Indicators:							
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) 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 (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Alter Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Saturation	-		ne required: c	heck all that an	(vla			Secondary Inc	dicators (2 or more required)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Drainage Patterns (io roganica, o						
Saturation (A3)	_	• •		_ `	,				, , ,
Water Marks (B1) (Nonriverine)	¬ ~					(B13)			•
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) 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) Other (Explain in Remarks) Paperth (inches): Interacted Water Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitor well, aerial photos)		,						= '	` '
Drift deposits (B3) (Noneriverine) □ Presence of Reduced Iron (C4) □ Crayfish Burrows (C8) □ Surface Soil Cracks (B6) □ Recent Iron Reduction in Plowed Soils (C6) □ 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) □ Stauration Present? □ Yes □ No □ Depth (inches): □ Stauration Present? □ Y	_	. , .	ne)	_ , ,			n Roots (C3)		
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery 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) Wetland Hydrology Present? Yes No Depth (inches): Paturation Present? Yes No Depth (inches): Dep			٠,		•	•	g 110013 (00)		
Inundation Visible on Aerial Imagery (B7)							inils (C6)		
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Ideld Observations: Unrace Water Present? Ves No Depth (inches): Depth (inches): Unrace Water Table Present? Ves No Depth (inches): Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Depth (in	_		v (R7)				10113 (00)		
ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): under Table Present? Yes No Depth (inches):		ŭ	y (D7)						, ,
Autration Present? Yes No Depth (inches): Autration Present? Yes No Depth (inches): Autration Present? Yes No Depth (inches): Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Procludes capillary fringe) Rescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Perial photo				Outer (Expire				TAC-fledital	Test (D3)
Vater Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Concludes capillary fringe) Rescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Recorded Present? Yes No Concludes No Conclu		Y C) No 📵	D 11 (1		
Auturation Present? No Depth (inches): Wetland Hydrology Present? Yes No No Present? No Present? No Present? Wetland Hydrology Present? Yes No No Present? No Present?	urface Water Pre			Depth (inc	nes):				
Pocludes capillary fringe) Yes No Depth (inches): Escribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Erial photo	ater Table Prese	nt? Yes) No 🖭	Depth (inc	hes):				w (a) N. (
erial photo		VAC \) No •	Depth (inc	hes):		Wetla	nd Hydrology Present?	Yes No C
	escribe Record	led Data (stream ga	auge, monito	r well, aerial ph	otos, pre	vious inspe	ections), if	available:	
emarks:	erial photo								
	emarks:								
access - hydrology assumed based on aerial photo, landscape position, and observations of adjacent river elevation [wetland outlet r	access - hydi	rology assumed bas	sed on aerial	photo, landscar	oe positio	n, and obs	ervations	of adjacent river elevat	tion [wetland outlet near rive

Project/Site: DESCHUTES LWI		City/County: Sunriver/D	eschutes Sam	pling Date: 05-May-10
Applicant/Owner: DESCHUTES COUNTY			State: OR S	ampling Point: SP 207
Investigator(s): Sarah Hartung, Aaron Booy		Section, Township, R	tange: S 6 T 20 S	R 11 E
Landform (hillslope, terrace, etc.): Floodplain		Local relief (concave,	convex, none): flat	Slope: 0.5% / 0.3
Subregion (LRR): LRR B	Lat.: 4:	3 8760	Long.: -121.4628	Datum: NAD 83
		3.0707		
Soil Map Unit Name: Not available		Yes • No	NWI classificati	
re climatic/hydrologic conditions on the site typical fo				,
Are Vegetation, Soil, or Hydrology	significantly		lormal Circumstances" preser	
Are Vegetation , Soil , or Hydrology	naturally pro	•	eded, explain any answers in	•
Summary of Findings - Attach site ma		mpling point loca	ations, transects, imp	portant reatures, etc.
Hydrophytic Vegetation Present? Yes No		Is the Sampled	Area	
Hydric Soil Present? Yes No		within a Wetlan	_{d?} Yes ◉ No ○	
Wetland Hydrology Present? Yes No	<i>)</i>			
Remarks:				
Off-site determination. Area contains hydrophytic ve	g, wetland hydrold	ogy observed from aeria	al photos and veg., hydric so	Is assumed [no access].
VEGETATION	.11.			
VEGETATION - Use scientific names of	plants.	DominantSpecies?		
Tree Stratum (Plot size:	Absolute % Cover		Dominance Test workshee	t:
,	_	0.0%	Number of Dominant Species That are OBL, FACW, or FAC:	2 (A)
1		0.0%	That are OBL, FACW, OF FAC.	(n)
3.		0.0%	Total Number of Dominant	2 (B)
4.	0	0.0%	Species Across All Strata:	(b)
		= Total Cover	Percent of dominant Speci	100 00/ (*/5)
Sapling/Shrub Stratum (Plot size:			That Are OBL, FACW, or F	AC: 100.0% (A/B)
1. Salix geyeriana	100	✓ 100.0% FACW	Prevalence Index workshee	et:
2		0.0%	Total % Cover of:	Multiply by:
3	0	0.0%	OBL species 100	x 1 = 100
4		0.0%	FACW species 100	x 2 = 200
5			FAC speciles 0	_ x 3 =
Herb Stratum (Plot size:	100	= Total Cover	FACU speci es 0	_ x 4 =
1.0	100	✓ 100.0% OBL	UPL speci es0	_ x 5 =
1, Carex aquatilis 2.		0.0%	Column Totals: 200	(A) <u>300</u> (B)
3.		0.0%	Prevalence Index = B.	/A = 1.500
4.		0.0%	Hydrophytic Vegetation Inc	
5		0.0%	✓ Dominance Test is > 5	
6		0.0%	✓ Prevalence Index is ≤	
7		0.0%		tions 1 ¹ , rovide supporting
8		0.0%	data in Remarks or on	a separate sheet)
9		0.0%	Problematic Hydrophy	rtic Vegetation 1 (¹ (plain)
10,		0.0%		
11		= Total Cover	1 Indicators of hydric soil	and wetland hydrology must
Woody Vine Stratum (Plot size:	100	- IOIai COVEI	be present, unless disturbe	
1	0	0.0%		
2		0.0%	Hydrophytic	
- -	0	= Total Cover	Vegetation	No O
9/ Para Cround in Harb Stratum 2			Present? Yes	110 <u>~</u>
% Bare Ground in Herb Stratum: ()	% Cover of Bioti	ic Crust ()		
<u> </u>				

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

Profile Desc	ription: (Describe to t	he depth ne				nfirm the al	osence of indicators.)
Depth	Matrix			dox Featu				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
							-	
							-	
								<u> </u>
1 Type: C=Co	ncentration. D=Depletion	n. RM=Reduce	ed Matrix, CS=Cover	ed or Coat	ed Sand Gra	ins ² Locat	ion: PL=Pore Lining. N	1=Matrix
I —	Indicators: (Applicab	le to all LRR	s, unless otherwis	se noted.))		Indicators for Pro	blematic Hydric Soils: ³
Histosol (• •		Sandy Redox	(S5)			1 cm Muck (A9) (LRR C)
. — .	ipedon (A2)		Stripped Matr	ix (S6)			2 cm Muck (A1	0) (LRR B)
Black His	, ,		Loamy Mucky	Mineral (F	1)		Reduced Vertic	(F18)
	n Sulfide (A4)		Loamy Gleyed	d Matrix (F.	2)		Red Parent Mat	, ,
	Layers (A5) (LRR C)		Depleted Mat	rix (F3)			✓ Other (Explain	` ,
	ck (A9) (LRR D)		Redox Dark S	urface (F6)		E outer (Explain	remaine)
Depleted	Below Dark Surface (A1	1)	Depleted Dark	k Surface (F7)			
Thick Da	rk Surface (A12)		Redox depres		•		2	
Sandy Mı	uck Mineral (S1)		☐ Vernal Pools (³ Indicators of hydr	ophytic vegetation and
Sandy Gl	eyed Matrix (S4)			()			wettand nydroto	gy must be present.
Restrictive L	ayer (if present):							
Type:								
Depth (inc	ches):						Hydric Soil Present	? Yes ● No ○
Remarks:								
			2 1 1 1					
no access - r	nydric soils assumed b	based on FAG	and wetter dom	ıınant veç	J.			
Hydrolog	V							
Wetland Hyd	drology Indicators:							
Primary Ind	icators (minimum of o	one required	; check all that ar	(ylac			Secondary I	ndicators (2 or more required)
Surface V	Water (A1)		Salt Crust (I	B11)			Water Ma	rks (B1) (Riverine)
☐ High Wat	ter Table (A2)		☐ Biotic Crust	(B12)			Sediment	Deposits (B2) (Riverine)
☐ Saturatio	n (A3)		Aquatic Inv	ertebrates	(B13)		Drift Depo	osits (B3) Riverine)
☐ Water Ma	arks (B1) (Nonriverine)		Hydrogen S	ulfide Odo	r (C1)		Drainage	Patterns (B10)
Sediment	t Deposits (B2) (Nonriver	ine)	Oxidized Rh	izospheres	along Living	Roots (C3)		on Water Table (C2)
l —	osits (B3) (Noneriverine)	,	Presence of	•	-	, ,	= 1	Burrows (C8)
I — .	Soil Cracks (B6)				in Plowed S	Soils (C6)	_	n Visible on Aerial Imagery (C9)
	on Visible on Aerial Imag	erv (B7)	Thin Muck S			(00)		equitard (D3)
	ained Leaves (B9)	cry (D7)	Other (Expl					ral Test (D5)
			Other (Expi		urks)		▼ TAC-fleuti	al rest (D3)
Field Observ	I	○ No ●				7		
Surface Water			Depth (inc	ches):				
Water Table F	Present? Yes	O No ●	Depth (inc	ches):				
Saturation Pre	esent? Yes	O No ●	Depth (inc	shoc).		Wetla	nd Hydrology Presen	t? Yes 🏵 No 🔾
(includes capi	nary milige)							
Describe Re	corded Data (stream	gauge, mon	itor well, aerial ph	notos, pre	vious inspe	ections), if	available:	
Aerial photo)							
Remarks:								
no access -	hydrology assumed b	ased on aeri	al photo, landsca	pe positio	n, and obs	ervations o	of adjacent river elev	ation [approx. At wetland
elevation]								

Project/Site: Deachutes County LWI	c	ity/County: Sunri	ver/Deschutes	Sampling Date: 05-May-10
Applicant/Owner: DESCHUTES COUNTY		-	State: OR	Sampling Point: SP 208
Investigator(s): Sarah Hartung, Aaron Booy		Section, Townsh	ip, Range: S 1	T 20 S R 10 E
Landform (hillslope, terrace, etc.):		Local relief (conc	ave, convex, none): flat	Slope: 1.0% / 0.6
Subregion (LRR): LRR B	 Lat.: 43		Long.: -121.4691	Datum: NAD 83
coil Map Unit Name: Not available				ssification: PEMC
e climatic/hydrologic conditions on the site typical for this t	time of year?	Yes		
	significantly o		re "Normal Circumstances	
				F
Are Vegetation U , Soil U , or Hydrology U r Summary of Findings - Attach site map sho	naturally prob Dwing sar	•	If needed, explain any ans	
Hydrophytic Vegetation Present? Yes No	<u>-</u>			
		Is the Samp		
		within a We	tland? Yes No	
Remarks: Off-site determination.				
On-site determination.				
VEGETATION - Use scientific names of plan	ts.	Dominant		
Tree Stratum (Plot size:	Absolute % Cover	Species? Rel.Strat. Indic Cover Statu	is	
1. Pinus contorta	2	✓ 100.0% FAC	Number of Dominant That are OBL, FACW,	
2	0	0.0%		
3	0	0.0%	Total Number of Dom Species Across All Str	
4	0	0.0%	`	
Sapling/Shrub Stratum (Plot size:	2	= Total Cover	Percent of domina That Are OBL, FAC	100.00/ (4./5)
1. Salix geyeriana	60	100.0% FACV	Prevalence Index w	vorksheet:
2	0	0.0%	Total % Cove	er of: Multiply by:
3	0	0.0%	OBL speci es	80 x 1 = 80
4	0	0.0%	FACW species	60 x 2 = 120
5	0	0.0%	FAC speciles	2 x 3 = 6
Herb Stratum (Plot size:	60	= Total Cover	FACU species	0 x 4 = 0
4. Communicatillo	80	✓ 100.0% OBL	UPL speci es	0 x 5 = 0
1, Carex aquatilis 2.		0.0%	Column Totals:	142 (A) 206 (B)
3		0.0%	Prevalence Inc	dex = B/A = 1.451
4.	_	0.0%	Hydrophytic Vegeta	
5		0.0%	Dominance Te	
6.		0.0%	✓ Prevalence Inc	
7	0	0.0%		Adaptations 1 ¹ / ₂ 'rovide supporting
8		0.0%	data in Remar	ks or on a separate sheet)
9		0.0%	Problematic H	ydrophytic Vegetation 1 (¹ ːplain)
10		0.0%		
11,			1 Indicators of hyd	ric soil and wetland hydrology must
Woody Vine Stratum (Plot size:	80	= Total Cover	be present, unless	disturbed or problematic.
	0	0.0%		
1		0.0%		
2		= Total Cover	Vegetation	es • No O
	U	- I JULII JUVEI	Present? Ye	INO U
% Bare Ground in Herb Stratum: 20 % C	over of Biotic	Cmuch C		

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

Profile Desc			_					
Depth	Matrix			dox Featu				5
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
			и-					
			-					
						-		
				_				
Type: C. Co.		n DM Dodus	ad Matrix CS Cayor	od or Coat	ad Sand Cra	inc 21 ocatio	on: PL=Pore Lining. M	1 Matrix
<u>, , , , , , , , , , , , , , , , , , , </u>			·			ins -Locatio		
_	Indicators: (Applicat	ole to all LRE						blematic Hydric Soils: ³
Histosol (•		Sandy Redox				1 cm Muck (A9)	•
Black His	pedon (A2)		Stripped Matr				2 cm Muck (A1	0) (LRR B)
_	n Sulfide (A4)		Loamy Mucky				Reduced Vertic	(F18)
			Loamy Gleyed	d Matrix (F2	2)		Red Parent Mat	erial (TF2)
\neg	Layers (A5) (LRR C)		Depleted Mat	rix (F3)			✓ Other (Explain i	in Remarks)
_	ck (A9) (LRR D)	->	Redox Dark S	urface (F6)				
¬ .	Below Dark Surface (A1	1)	Depleted Darl	k Surface (F	F7)			
_	k Surface (A12)		Redox depres	sions (F8)			3	
_	uck Mineral (S1)		☐ Vernal Pools	(F9)			Indicators of hydr	ophytic vegetation and gy must be present.
	eyed Matrix (S4)						wetiand nydrolog	gy must be present.
estrictive L	ayer (if present):							
	ayer (ii present).							
Type:	ayer (ii presenty.							
Type: Depth (inc							Hydric Soil Present	? Yes ◉ No O
Depth (inc							Hydric Soil Present	? Yes • No O
Depth (inc	hes):						Hydric Soil Present	? Yes • No O
Depth (inc		based on FA	C and wetter dom	inant veg			Hydric Soil Present	? Yes • No ·
Depth (inc	hes):	based on FA	C and wetter dom	inant veg			Hydric Soil Present	? Yes • No O
Depth (inc	hes):	based on FA	C and wetter dom	inant veg			Hydric Soil Present	? Yes ● No ○
Depth (inc Remarks: access - h	hes): nydric soils assumed l	based on FA	C and wetter dom	inant veg			Hydric Soil Present	? Yes • No O
Depth (inc lemarks: paccess - h	hes): nydric soils assumed l	based on FA	C and wetter dom	ninant veg			Hydric Soil Present	? Yes • No ·
Depth (inc lemarks: paccess - h	hes): nydric soils assumed l	pased on FA	C and wetter dom	iinant veg				
Depth (included per	hes): nydric soils assumed l							? Yes • No O
Depth (included included inclu	hes): nydric soils assumed l y drology Indicators:			(ylac			Secondary I	
Depth (included included inclu	y drology Indicators:		l; check all that ar	y) B11)			Secondary II	ndicators (2 or more required)
Depth (included included inclu	y Irology Indicators: Icators (minimum of Vater (A1) er Table (A2)		l; check all that an	oply) B11) (B12)			Secondary II Water Ma	ndicators (2 or more required) rks (B1) (Riverine)
Depth (included per	y Irology Indicators: Icators (minimum of Vater (A1) er Table (A2)		l; check all that and Salt Crust (I) Biotic Crust	oply) B11) (B12) ertebrates ((B13)		Secondary II Water Ma Sediment Drift Depo	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine)
Depth (included per	y Irology Indicators: Icators (minimum of Vater (A1) Irology Indicators: Icators (Minimum of Vater (A2) Irology Indicators: Icators (Minimum of Vater (A3) Irology Indicators: Icators (Minimum of Vater (A1) Irology Indicators: Icators (Minimum of Vater (A1) Irology Indicators: Icators (Minimum of Vater (A1) Irology Indicators: Icators (Minimum of Vater (A3) Irology Indicators: Icators (Minimum of Vater (A3)) Irology Indicators (Minimum	one required	I; check all that and an all that and all that and all that all th	oply) B11) (B12) ertebrates (ulfide Odor	(B13) · (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: Daccess - h ydrolog /etland Hydrimary Ind Surface V High Wat Saturatio Water Ma Sediment	y Irology Indicators: icators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine) Deposits (B2) (Nonrive	one required	l; check all that ap Salt Crust (I) Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh	oply) B11) (B12) ertebrates (ulfide Odor izospheres	(B13) · (C1) along Livinç	J Roots (C3)	Secondary II Water Ma 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: D access - h Dydrolog Vetland Hyd Primary Ind Surface V High Wat Saturatio Water Ma Sediment Drift dep	y drology Indicators: icators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine) Deposits (B2) (Nonrive osits (B3) (Noneriverine)	one required	I; check all that and Salt Crust (In Biotic Crust In Aquatic Inv Hydrogen SOcidized Rh	oply) B11) (B12) ertebrates (ulfide Odor nizospheres FReduced I	(B13) · (C1) along Living ron (C4)	Roots (C3)	Secondary II Water Ma 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) Burrows (C8)
Depth (incomments) Permarks: Discrete Services - head of the comments of the	y drology Indicators: icators (minimum of every Table (A2) in (A3) arks (B1) (Nonriverine) icologists (B2) (Nonriverine) icologists (B3) (Noneriverine) icologists (B6)	one required	i; check all that an Salt Crust (I) Biotic Crust (I) Aquatic Inv Hydrogen S Oxidized Rh	oply) B11) (B12) ertebrates (ulfide Odor sizospheres Freduced I I Reduction	(B13) · (C1) along Living ron (C4) in Plowed S	Roots (C3)	Secondary II Water Ma 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) n Visible on Aerial Imagery (C9)
Depth (incomments) Permarks: Discrete access - has been depth of the comments of the comment	y Irology Indicators: Icators (minimum of over (A1) Irology Indicators: Icators (minimum of over (A2) Irology Indicators: Icators (Minimum of over (A3) Irology Indicators: Icators (Minimum of over (A1) Irology Indicators: Icators (Minimum of over (A3) Irology Indicators: Icators (Minimum of ove	one required	Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Rt Presence of Recent Iron	oply) B11) (B12) ertebrates (ulfide Odor ilizospheres Reduced I Reduction Surface (C7	(B13) (C1) along Living ron (C4) in Plowed S)	Roots (C3)	Secondary II Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturatior Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) quitard (D3)
Depth (income property of the	y drology Indicators: icators (minimum of every Table (A2) in (A3) arks (B1) (Nonriverine) icologists (B2) (Nonriverine) icologists (B3) (Noneriverine) icologists (B6)	one required	i; check all that an Salt Crust (I) Biotic Crust (I) Aquatic Inv Hydrogen S Oxidized Rh	oply) B11) (B12) ertebrates (ulfide Odor ilizospheres Reduced I Reduction Surface (C7	(B13) (C1) along Living ron (C4) in Plowed S)	Roots (C3)	Secondary II Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturatior Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) durrows (C8) n Visible on Aerial Imagery (C9)
pepth (included line) demarks: paccess - h ydrolog /etland Hydrian Hydrolog Surface V High Water Ma Sediment Drift dept Surface S Inundatic Water-St	y Irology Indicators: icators (minimum of vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine) Deposits (B2) (Nonriverine) ioil Cracks (B6) on Visible on Aerial Imagained Leaves (B9)	one required	I: check all that an Salt Crust (I) Biotic Crust (I) Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	oply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced I Reduction Surface (C7 ain in Rema	(B13) (C1) along Living ron (C4) in Plowed S)	Roots (C3)	Secondary II Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturatior Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) quitard (D3)
Depth (inclements) Permarks: Discrete access - h Permary Ind Dis	y drology Indicators: icators (minimum of avater (A1) er Table (A2) in (A3) arks (B1) (Nonriverine) Deposits (B2) (Nonrive osits (B3) (Noneriverine) ioil Cracks (B6) in Visible on Aerial Imagained Leaves (B9) rations:	one required	Salt Crust (i Salt Crust (i Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	oply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced I Reduction Surface (C7 ain in Rema	(B13) (C1) along Living ron (C4) in Plowed S)	Roots (C3)	Secondary II Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturatior Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) quitard (D3)
Depth (income property of the	y Irology Indicators: Icators (minimum of a Vater (A1) er Table (A2) in (A3) arks (B1) (Nonriverine) Deposits (B2) (Nonriverine) Ioil Cracks (B6) in Visible on Aerial Imagained Leaves (B9) rations: Present? Yes	one required	Salt Crust (i Salt Crust (i Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	poply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced I Reduction Surface (C7 ain in Rema	(B13) (C1) along Living ron (C4) in Plowed S)	Roots (C3)	Secondary II Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturatior Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) quitard (D3) ral Test (D5)
Depth (incomments) Permarks: Discress - h Permarks:	y Irology Indicators: icators (minimum of avater (A1) er Table (A2) in (A3) arks (B1) (Nonriverine) ioil Cracks (B3) (Noneriverine) ioil Cracks (B6) in Visible on Aerial Imagained Leaves (B9) rations: Present? Yes Present? Yes	one required rine) Hery (B7) No No No	Salt Crust (I) Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	oply) B11) (B12) ertebrates (ulfide Odor alizospheres Freduced I Reduction Surface (C7 ain in Rema	(B13) (C1) along Living ron (C4) in Plowed S)	g Roots (C3) oils (C6)	Secondary II Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturatior Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) Desits (B3) Riverine) Patterns (B10) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) quitard (D3) Teal Test (D5)
Depth (included and included an	y Irology Indicators: Icators (minimum of Vater (A1) Irology Indicators: Icators (Minimum of Vater (A2) Irology Indicators: Icators (B1) (Nonriverine) Irology Indicators: Icators (B3) (Noneriverine) Irology Indicators: Irology Indicators: Irology Indicators: Icators (B3) (Noneriverine) Irology Indicators: Irolo	one required rine) lery (B7) No No	Salt Crust (I) Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	oply) B11) (B12) ertebrates (ulfide Odor alizospheres Freduced I Reduction Surface (C7 ain in Rema	(B13) (C1) along Living ron (C4) in Plowed S)	g Roots (C3) oils (C6)	Secondary II Water Ma Sediment Drift Depo Drainage Dry Seaso Crayfish B Saturatior Shallow A FAC-neutr	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) Desits (B3) Riverine) Patterns (B10) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) quitard (D3) Teal Test (D5)
Depth (includes capi	y Irology Indicators: Icators (minimum of Vater (A1) Irology Indicators: Icators (Minimum of Vater (A2) Irology Indicators: Icators (B1) (Nonriverine) Irology Indicators: Icators (B3) (Nonriverine) Irology Indicators: Irology Indicators: Icators (B3) (Nonriverine) Irology Indicators: Icators (B3) (Nonriverine) Irology Indicators: Icators (B3) (Nonriverine) Irology Indicators: Icators (Minimum of Irology Indicators) Irology Indicators: Irology Indic	one required rine) One No One One No One One No On	Salt Crust (i) Salt Crust (i) Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	poply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced I Reduction Surface (C7 ain in Rema	(B13) (C1) along Living ron (C4) in Plowed S) arks)	J Roots (C3) oils (C6) Wetlan	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) Desits (B3) Riverine) Patterns (B10) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) quitard (D3) Teal Test (D5)
Depth (includes capille Reuters Includes capille Reuters Includes capille Reuters Includes capille Reuters Includes capille Reuters Re	y Irology Indicators: icators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) (Nonriverine) ioil Cracks (B3) (Noneriverine) ioil Cracks (B6) in Visible on Aerial Imagained Leaves (B9) rations: Present? Present? Yes esent? Ilary fringe) Corded Data (stream	one required rine) One No One One No One One No On	Salt Crust (i) Salt Crust (i) Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	poply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced I Reduction Surface (C7 ain in Rema	(B13) (C1) along Living ron (C4) in Plowed S) arks)	J Roots (C3) oils (C6) Wetlan	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) Desits (B3) Riverine) Patterns (B10) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) quitard (D3) Teal Test (D5)
Depth (income property) Permarks: Department of access - heavier access -	y Irology Indicators: icators (minimum of Vater (A1) er Table (A2) in (A3) arks (B1) (Nonriverine) ioil Cracks (B3) (Noneriverine) ioil Cracks (B6) in Visible on Aerial Imagained Leaves (B9) rations: Present? Present? Yes esent? Ilary fringe) Corded Data (stream	one required rine) One No One One No One One No On	Salt Crust (i) Salt Crust (i) Biotic Crust Aquatic Inv Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl	poply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced I Reduction Surface (C7 ain in Rema	(B13) (C1) along Living ron (C4) in Plowed S) arks)	J Roots (C3) oils (C6) Wetlan	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) Desits (B3) Riverine) Patterns (B10) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) quitard (D3) Teal Test (D5)
pepth (includes capile escribe Receial photo etemarks:	y drology Indicators: icators (minimum of evater (A1) er Table (A2) in (A3) arks (B1) (Nonriverine) in Deposits (B2) (Nonriverine) in Deposits (B3) (Noneriverine) in Oracks (B6) in Visible on Aerial Imagained Leaves (B9)	one required rine) No No No gauge, mor	i; check all that ar Salt Crust (i Biotic Crust Aquatic Inv Hydrogen S Oxidized Rr Presence of Recent Iror Thin Muck S Other (Expl	oply) B11) (B12) ertebrates (ulfide Odor nizospheres F Reduced I Reduction Surface (C7 ain in Rema	(B13) (C1) along Living ron (C4) in Plowed S) arks)	y Roots (C3) oils (C6) Wetlan ections), if a	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) Desits (B3) Riverine) Patterns (B10) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) quitard (D3) Teal Test (D5)

Project/Site: Deachutes County LWI		City/County:	Sunriver/De	eschutes	Sampling Date: 05-May-10	
Applicant/Owner: DESCHUTES COUNTY		-		State: OR	Sampling Point: S	P 209
Investigator(s): Sarah Hartung, Aaron Booy		Section, Tov	vnship, Ra	ange: S 7 T	20 S R 11 E	
Landform (hillslope, terrace, etc.): Floodplain		Local relief (concave, o	convex, none): flat	Slope: 1.0%	6 / 0.6
Subregion (LRR): LRR B	 Lat.: 4;			Long.: -121.4574	Datum: NA	D 83
				-	sification: PEMC	
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes e climatic/hydrologic conditions on the site typical for this ti	me of voor	Vac	No ○			
	-					\bigcirc
	gnificantly			ormal Circumstances"		<u> </u>
are Vegetation $\;\sqcup\;\;$, Soil $\;\sqcup\;\;$, or Hydrology $\;\sqcup\;\;$ n	aturally pro wina sai			eded, explain any ansv ntions, transects		s, etc.
Hydrophytic Vegetation Present? Yes • No		Thurs bo			-,	-, 5.5.
		Is the S	ampled A			
		within a	a Wetland	_{I?} Yes 💿 No 🔾		
Wetland Hydrology Present? Yes No						
Remarks:						
Offsite determination.						
VEGETATION - Use scientific names of plant	<u> </u>	Dominant				
	Absolute	Species? Rel.Strat.		Dominance Test wo	rksheet:	
Tree Stratum (Plot size:	% Cover		Status	Number of Dominant S		
1, Pinus contorta	3		FAC	That are OBL, FACW, o	or FAC: 3	(A)
2	0	0.0%		Total Number of Domi	nant	
3		0.0%		Species Across All Stra	_	(B)
4		0.0%		Percent of dominan	t Species	
Sapling/Shrub Stratum (Plot size:	3	= Total Cover	•	That Are OBL, FACV	100.00/	(A/B)
1. Salix geyeriana	5	100.0%	FACW	Prevalence Index wo	orksheet:	
2.	0	0.0%		Total % Cover		
3.	0	0.0%		OBL speci es	100 x 1 = 100	_ _
4.	0	0.0%		FACW species	5 x 2 = 10	
5	0	0.0%		FAC speci es	3 x 3 = 9	
	5	= Total Cover	-	FACU species	0 x 4 = 0	
Herb Stratum (Plot size:				UPL species -	0 x 5 = 0	
1. Carex aquatilis	90		OBL	Column Totals:	108 (A) 119	(B)
2. Carex nebrascensis			OBL	Prevalence Inde		
3	_	0.0%				
4 5	0	0.0%		Hydrophytic Vegetat		
6		0.0%		✓ Dominance Tes ✓ Prevalence Ind		
7		0.0%				
8		0.0%			Adaptations 1 ¹ . 'rovide supp s or on a separate sheet)	orting
9		0.0%			drophytic Vegetation 1 (1 p	lain)
10	0	0.0%				,
11,	0	0.0%		1 Indicators of hydr	ic soil and wetland hydrolog	W muct
	100	= Total Cover	-	be present, unless d	ic soll and wetland nydrolog listurbed or problematic.	y must
Woody Vine Stratum (Plot size:						
1	0	0.0%				
2	0	0.0%		Hydrophytic Vegetation		
	•	= Total Cover	_		s • No O	
	0	= Total Cover		Present? Yes	, , , , , , , , , , , , , , , , , , , ,	

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

Profile Desc	ription: (Describe to t	he depth ne				nfirm the al	bsence (of indicators.)		
Depth	Matrix			dox Featu			_			
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Тех	kture	Remarks	
									_	
							-			
									_	
1.5			111111111111111111111111111111111111111					D 11.1. M		
	ncentration. D=Depletion					ins ² Locat		=Pore Lining. M=		
I —	Indicators: (Applicab	le to all LRR)		Indic	cators for Prob	olematic Hydric Soils: ³	
Histosol	• •		Sandy Redox				1	1 cm Muck (A9)	(LRR C)	
Black His	pedon (A2)		Stripped Matr					2 cm Muck (A10)	(LRR B)	
	າ Sulfide (A4)		Loamy Mucky				F	Reduced Vertic (F18)	
_ ` `	Layers (A5) (LRR C)		Loamy Gleyed	d Matrix (F	2)		F	Red Parent Mate	rial (TF2)	
	ck (A9) (LRR D)		Depleted Mat	rix (F3)			V	Other (Explain in	Remarks)	
	` , ` ,	1)	Redox Dark S	urface (F6)					
	Below Dark Surface (A1	1)	Depleted Darl	k Surface ((F7)					
l —	rk Surface (A12)		Redox depres	sions (F8)			3 150	liantara of budro	phytic vegetation and	
I — '	uck Mineral (S1)		Vernal Pools	(F9)			W	etland hydrolog	y must be present.	
	eyed Matrix (S4)								, '	
Restrictive L	ayer (if present):									
Type:							Lludria	Soil Present?	Yes ● No ○	
Depth (inc	ches):						пуштс	Son Present?	Yes © NO C	
Remarks:										
no access - h	nydric soils assumed k	ased on OB	L dominant veg.							
Hydrolog	у									
Wetland Hyd	drology Indicators:									
Primary Ind	icators (minimum of o	ne required	; check all that an	(ylgc				Secondary In	dicators (2 or more require	ed)
Surface V	Vater (A1)		Salt Crust (B11)					ks (B1) (Riverine)	
	ter Table (A2)		Biotic Crust						Deposits (B2) (Riverine)	
Saturatio			Aquatic Inv		(B13)				sits (B3) Riverine)	
	arks (B1) (Nonriverine)		Hydrogen S						atterns (B10)	
l —	t Deposits (B2) (Nonriver	ine)			along Living	n Roots (C3)	1		Water Table (C2)	
	osits (B3) (Noneriverine)		Presence of	•	•	g 1.0015 (00)	•	Crayfish Bu		
I — .	Soil Cracks (B6)				in Plowed S	Soils (C6)		_	Visible on Aerial Imagery (C9)	
	on Visible on Aerial Imag	ory (R7)	Thin Muck S			JOII3 (CO)			uitard (D3)	
	ained Leaves (B9)	cry (D7)	Other (Expl					✓ FAC-neutra		
			Other (Expi	alli III Kelli	iai KS)			▼ FAC-neutra	ii Test (D5)	
Field Observ	M !	○ No ●				7				
Surface Water			Depth (inc	ches):						
Water Table F	Present? Yes	O No ⊙	Depth (inc	ches):						
Saturation Pre		○ No ●	Depth (inc	hes).		Wetla	nd Hydr	ology Present	? Yes ● No ○	
(includes capi	nary minge)			, ,		J > 16				
	corded Data (stream	gauge, mon	tor well, aerial pr	iotos, pre	evious inspe	ections), if	avallabl	e:		
Aerial photo										
Remarks:										
	hydrology assumed b	ased on aeri	al photo, landsca	pe positio	on, and obs	ervations of	of adjac	ent river eleva	ition [approx. At wetland	
elevation]										

Project/Site: Deachutes County LWI	Ci	ty/County:	sunriver/De	escnutes	Sampling Dat	e: 06-May-	-10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sampling F	Point:	SP 210
nvestigator(s): Sarah Hartung, Aaron Booy		Section, Tov	nship, Ra	inge: S 7 T 2	20 S R 1	1 E	
Landform (hillslope, terrace, etc.): Floodplain		Local relief (d	concave, c	convex, none): concave	Slo	pe: 1.0	0% / 0.6
subregion (LRR): LRR B	Lat.: 43.8	3599		Long.: -121.4570		Datum:	NAD 83
oil Map Unit Name: W: Water					fication: PEM(_	
e climatic/hydrologic conditions on the site typical for this	time of year?	Yes	No ○			,	
	significantly di			ormal Circumstances" p		es 💿 N	lo O
	naturally probl			ded, explain any answe			
Summary of Findings - Attach site map sh							es, etc.
Hydrophytic Vegetation Present? Yes No	-	I. H. C					
Hydric Soil Present? Yes ● No ○			ampled A	V (N- (
Wetland Hydrology Present? Yes No		within a	Wetland	? Yes S No C			
Remarks:							
VEGETATION - Use scientific names of plar	its.	Dominant					
	Absolute	Species? Rel.Strat. I		Dominance Test work	sheet:		
Tree Stratum (Plot size:			Status	Number of Dominant Sp			
1,				That are OBL, FACW, or	FAC:	1	(A)
2				Total Number of Domina	ant		
3 4.		0.0%		Species Across All Strata	:	1	(B)
±				Percent of dominant	Species		
Sapling/Shrub Stratum (Plot size:	=	= Total Cover		That Are OBL, FACW		100.0%	(A/B)
1.	0 [0.0%		Prevalence Index wor	ksheet:		
2.		0.0%		Total % Cover of		oly 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 speciles	0 x 3 =	. 0	
	0 =	= Total Cover		FACU speci es	0 x 4 =	0	_
Herb Stratum (Plot size:	Г	•		UPL speci es	0 x 5 =	0	_
1. Carex aquatilis			OBL	Column Totals:	100 (A)	100	(B)
2,		0.0%		Prevalence Index	- B/Λ -	1.000	
3 4	Г	0.0%				1.000	
5		0.0%		Hydrophytic Vegetation Dominance Test			
6		0.0%		✓ Prevalence Index	_		
7	0	0.0%		☐ Morphological Ad		rovido cu	nnortina
8	0_ [0.0%		data in Remarks	or on a separa	te sheet)	pporting
9,		0.0%		Problematic Hyd	rophytic Veget	ation 1 (1	(plain)
10				•			•
11,				1 Indicators of hydric	soil and wotls	nd hydrol	oav must
(5)	100=	= Total Cover		be present, unless dis			ogy must
Woody Vine Stratum (Plot size:	Г						
1,							
2.	0	0.0%		Hydrophytic Vegetation			
		Total Cover		Present? Yes	● No ○		

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

	iption: (De		tne aeptn ne				firm the a	absence of indicato	ors.)
Depth (inches)	Color (Matrix		Color (moist)	dox Featu %	Type 1	Loc2	Texture	Remarks
				Color (moist)		Type	LUC-		w/ roots
0-5	10YR	2/2	100%					Silt Loam	
5-20	10YR	2/1	100%					Silt	
					-			-	
		•		·			ns ² Loca	ation: PL=Pore Lining	g. M=Matrix
I —		(Applicat	ole to all LRF	Rs, unless otherwis		1		Indicators for	Problematic Hydric Soils: ³
Histosol (A	A1) bedon (A2)			Sandy Redox				1 cm Muck (
Black Histi				Stripped Matri					(A10) (LRR B)
	Sulfide (A4)			Loamy Mucky				Reduced Ve	` '
Stratified I	Layers (A5) ((LRR C)		Loamy Gleyed Depleted Matr		2)			Material (TF2)
1 cm Muck	k (A9) (LRR	D)		Redox Dark Si	. ,			✓ Other (Expla	ain in Remarks)
Depleted I	Below Dark S	Surface (A1	1)	Depleted Dark					
Thick Dark	k Surface (A1	2)		Redox depress		1 7)			
Sandy Muc	ck Mineral (S	51)		☐ Vernal Pools (³ Indicators of h	ydrophytic vegetation and
Sandy Gle	yed Matrix (54)		vernal reess (. 7)			wetland hydr	ology must be present.
Restrictive La	ayer (if pres	sent):							
Type:									
Depth (inch	nes):							Hydric Soil Prese	ent? Yes 🖲 No 🔾
Remarks:									
	S ASSUMEI	D BASED	ON PERSIST	TANT SATURATION	V				
	S ASSUMEI	D BASED	ON PERSIST	TANT SATURATION	N				
	S ASSUMEI	D BASED	ON PERSIS ⁻	FANT SATURATION	N				
HYDRIC SOIL		D BASED	ON PERSIS [*]	FANT SATURATION	N				
		D BASED	ON PERSIS	FANT SATURATION	N				
HYDRIC SOIL Hydrology Wetland Hydr	/ rology Indi	cators:							
HYDRIC SOIL Hydrology Wetland Hydr	/ rology Indi	cators:		FANT SATURATION				Secondar	y Indicators (2 or more required)
HYDRIC SOIL Hydrology Wetland Hydi Primary India Surface W	rology Indi cators (min /ater (A1)	cators:		l; check all that ap	oply) 311)			Water	Marks (B1) (Riverine)
HYDRIC SOIL Hydrology Wetland Hydrologi Primary India Surface W High Water	rology Indi cators (min /ater (A1) er Table (A2)	cators:		l; check all that ap Salt Crust (E	oply) 311) (B12)			Water Sedim	Marks (B1) (Riverine) ent Deposits (B2) (Riverine)
HYDRIC SOIL Hydrology Wetland Hydr Primary India Surface W High Wate Saturation	rology Indicators (mindicators (A1)) er Table (A2)	cators: imum of		l; check all that ap Salt Crust (E Biotic Crust Aquatic Inve	oply) 311) (B12) ertebrates			Water Sedim Drift D	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine)
HYDRIC SOIL Hydrology Wetland Hydrology Primary Indic Surface W High Wate Saturation Water Mar	rology Indi cators (min /ater (A1) er Table (A2) n (A3) rks (B1) (Non	cators: imum of one	one required	I; check all that ap Salt Crust (E Biotic Crust Aquatic Inve	oply) 311) (B12) ertebrates ulfide Odo	r (C1)		Water Sedim Drift D Draina	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10)
HYDRIC SOIL Hydrology Wetland Hydrology Primary India Surface W High Wate Saturation Water Mar Sediment	rology Indicators (min/ater (A1) er Table (A2) n (A3) rks (B1) (Noi Deposits (B2	cators: imum of inriverine)	one required	I; check all that ap Salt Crust (E Biotic Crust Aquatic Inve	oply) 311) (B12) ertebrates ulfide Odo izospheres	r (C1) along Living	Roots (C3	Water Sedim Drift D Draina Dry Se	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) age Patterns (B10) eason Water Table (C2)
HYDRIC SOIL Hydrology Wetland Hydrology Primary Indic Surface W High Water Saturation Water Mar Sediment Drift depo	rology Indicators (min /ater (A1) er Table (A2) h (A3) rks (B1) (Noi Deposits (B2 sits (B3) (No	cators: imum of of nriverine) () (Nonrive neriverine)	one required	l; check all that ap Salt Crust (E Biotic Crust Aquatic Inve	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced	r (C1) s along Living Iron (C4)		☐ Water ☐ Sedim ☐ Drift D ☐ Draina ☐ Dry Se ☐ Crayfis	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8)
HYDRIC SOIL Hydrology Wetland Hydrology Primary India Surface W High Water Saturation Water Mar Sediment Drift depor	rology Indicators (min /ater (A1) er Table (A2) i (A3) rks (B1) (Noi Deposits (B2 sits (B3) (No	cators: imum of of mriverine) () (Nonrive neriverine)	one required	I; check all that ap Salt Crust Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior	r (C1) along Living Iron (C4) in Plowed S		Water Sedim Drift D Draina Dry Se Crayfis Satura	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) deposits (B10) deson Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9)
HYDRIC SOIL Hydrology Wetland Hydrology Primary India Surface W High Water Saturation Water Mar Sediment Drift depo Surface So Inundatior	rology Indicators (min/ater (A1) er Table (A2) i (A3) rks (B1) (Noi Deposits (B2) sits (B3) (Noi Dil Cracks (B6) in Visible on A	cators: imum of officerine) () (Nonrive officerine) (s) Aerial Imag	one required	Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior surface (C:	r (C1) s along Living Iron (C4) i in Plowed S		Water Sedim Drift D Draina) Dry Se Crayfis Satura Shallo	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9) w Aquitard (D3)
HYDRIC SOIL Hydrology Wetland Hydrology Primary Indic Surface W High Wate Saturation Water Mar Sediment Drift depo Surface Sc Inundatior Water-Sta	rology Indicators (min/ater (A1) er Table (A2) n (A3) rks (B1) (Noi Deposits (B2) sits (B3) (Noi Dil Cracks (B6 n Visible on A	cators: imum of officerine) () (Nonrive officerine) (s) Aerial Imag	one required	I; check all that ap Salt Crust Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior surface (C:	r (C1) s along Living Iron (C4) i in Plowed S		Water Sedim Drift D Draina) Dry Se Crayfis Satura Shallo	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) deposits (B10) deson Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9)
HYDRIC SOIL Hydrology Wetland Hydi Primary India Surface W High Water Saturation Water Mar Sediment Drift depor Surface Sc Inundatior Water-Sta Field Observa	rology Indicators (min /ater (A1) er Table (A2) n (A3) rks (B1) (Noi Deposits (B2 sits (B3) (Noil Cracks (B6 n Visible on A ined Leaves ations:	cators: imum of orderiverine) (Nonriveneriverine) (S) Aerial Imag (B9)	one required rine)) gery (B7)	check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Explain	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (Cr	r (C1) s along Living Iron (C4) i in Plowed S		Water Sedim Drift D Draina) Dry Se Crayfis Satura Shallo	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9) w Aquitard (D3)
HYDRIC SOIL Hydrology Wetland Hydrology Primary India Surface W High Water Saturation Water Mar Sediment Drift depo Surface So Inundatior Water-Sta Field Observa Surface Water	rology Indicators (min/ater (A1) er Table (A2) n (A3) rks (B1) (Non Deposits (B2) sits (B3) (No oil Cracks (B6 n Visible on A ined Leaves ations: Present?	cators: imum of of the control of th	one required rine)) gery (B7) • No	Salt Crust (E Biotic Crust Aquatic Inverse Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Explain Depth (inc.)	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior surface (Cain in Rem	r (C1) s along Living Iron (C4) n in Plowed S arks)		Water Sedim Drift D Draina) Dry Se Crayfis Satura Shallo	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9) w Aquitard (D3)
HYDRIC SOIL Hydrology Wetland Hydrology Primary Indic Surface W High Water Saturation Water Mar Sediment Drift depo Surface Sc Inundation Water-Sta Field Observa Surface Water Water Table Pr	rology Indicators (min /ater (A1) er Table (A2) in (A3) rks (B1) (Noi Deposits (B2) sits (B3) (Noi Dil Cracks (B4) in Visible on A ined Leaves ations: Present?	cators: imum of definition of the control of the co	one required rine)) gery (B7) No No No	I; check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	oply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior surface (Cain in Rem	r (C1) s along Living Iron (C4) i in Plowed S	bils (C6)	Water Sedim Drift D Draina) Dry Se Crayfis Satura Shallo	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9) w Aquitard (D3) eutral Test (D5)
HYDRIC SOIL Hydrology Wetland Hydrology Primary India Surface W High Water Saturation Water Mar Sediment Drift depo Inundation Water-Sta Field Observa Surface Water Water Table Pr Saturation Pres (includes capill	rology Indicators (min/ater (A1) er Table (A2) in (A3) rks (B1) (Noi Deposits (B2) sits (B3) (Noi il Cracks (B6 in Visible on A ined Leaves ations: Present? resent? sent? ary fringe)	cators: imum of intriverine) () (Nonrive ineriverine) (b) Aerial Imag (B9) Yes Yes Yes	one required rine) gery (B7) No No No No No No No No	Check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Explain the company of	pply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (CT ain in Rem whes):	r (C1) s along Living Iron (C4) n in Plowed S r r arks)	wetla	Water Sedim Drift D Draina) Dry Se Crayfis Satura Shallor FAC-no	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9) w Aquitard (D3) eutral Test (D5)
HYDRIC SOIL Hydrology Wetland Hydrology Primary India Surface W High Water Saturation Water Mar Sediment Drift depo Inundation Water-Sta Field Observa Surface Water Water Table Pr Saturation Pres (includes capill	rology Indicators (min/ater (A1) er Table (A2) in (A3) rks (B1) (Noi Deposits (B2) sits (B3) (Noi il Cracks (B6 in Visible on A ined Leaves ations: Present? resent? sent? ary fringe)	cators: imum of intriverine) () (Nonrive ineriverine) (b) Aerial Imag (B9) Yes Yes Yes	one required rine) gery (B7) No No No No No No No No	I; check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	pply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (CT ain in Rem whes):	r (C1) s along Living Iron (C4) n in Plowed S r r arks)	wetla	Water Sedim Drift D Draina) Dry Se Crayfis Satura Shallor FAC-no	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9) w Aquitard (D3) eutral Test (D5)
HYDRIC SOIL Hydrology Wetland Hydrology Primary India Surface W High Water Saturation Water Mar Sediment Drift depor Inundatior Water-Sta Field Observa Surface Water Water Table Pr Saturation Pres (includes capill) Describe Rec	rology Indicators (min/ater (A1) er Table (A2) in (A3) rks (B1) (Noi Deposits (B2) sits (B3) (Noi il Cracks (B6 in Visible on A ined Leaves ations: Present? resent? sent? ary fringe)	cators: imum of intriverine) () (Nonrive ineriverine) (b) Aerial Imag (B9) Yes Yes Yes	one required rine) gery (B7) No No No No No No No No	Check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Explain the company of	pply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (CT ain in Rem whes):	r (C1) s along Living Iron (C4) n in Plowed S r r arks)	wetla	Water Sedim Drift D Draina) Dry Se Crayfis Satura Shallor FAC-no	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9) w Aquitard (D3) eutral Test (D5)
HYDRIC SOIL Hydrology Wetland Hydrology Primary India Surface W High Water Saturation Water Mar Sediment Drift depo Inundation Water-Sta Field Observa Surface Water Water Table Pr Saturation Pres (includes capill	rology Indicators (min/ater (A1) er Table (A2) in (A3) rks (B1) (Noi Deposits (B2) sits (B3) (Noi il Cracks (B6 in Visible on A ined Leaves ations: Present? resent? sent? ary fringe)	cators: imum of intriverine) () (Nonrive ineriverine) (b) Aerial Imag (B9) Yes Yes Yes	one required rine) gery (B7) No No No No No No No No	Check all that ap Salt Crust (E Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Explain the company of	pply) 311) (B12) ertebrates ulfide Odo izospheres Reduced Reductior Gurface (CT ain in Rem whes):	r (C1) s along Living Iron (C4) n in Plowed S r r arks)	wetla	Water Sedim Drift D Draina) Dry Se Crayfis Satura Shallor FAC-no	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9) w Aquitard (D3) eutral Test (D5)

roject/Site: Deachutes County LWI		City/County:	Sunriver/D	eschutes Sampling Date: 06-May-10
pplicant/Owner: DESCHUTES COUNTY				State: OR Sampling Point: SP 212
nvestigator(s): Sarah Hartung, Aaron Booy		Section, To	wnship, R	ange: S 7 T 20 S R 11 E
Landform (hillslope, terrace, etc.): Floodplain		Local relief	(concave,	convex, none): flat Slope: 1.0% / 0
ubregion (LRR): LRR B	Lat.: 43			Long.: -121.4587 Datum: NAD 83
		.0330		
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slop		Voc	• No (NWI classification: PEMF (If no, explain in Remarks.)
climatic/hydrologic conditions on the site typical for the vegetation	-			Jormal Circumstances" present? Yes ● No ○
	significantly			, , , , , , , , , , , , , , , , , , ,
re Vegetation	naturally pro			eded, explain any answers in Remarks.)
	showing sar	mpling po	oint loca	ations, transects, important features, etc
lydrophytic Vegetation Present? Yes No		Is the	Sampled A	Area
Hydric Soil Present? Yes No			a Wetland	Van 📵 Na 🔘
Vetland Hydrology Present? Yes ● No ○		WILLIIII	a wetiand	ur
Remarks:				
Off-site determination.				
EGETATION - Use scientific names of pl	ants.	DominantSpecies? .		
ree Stratum (Plot size:	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
,,	-	0.0%	Ottatus	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1,		0.0%		That are obt, facw, of fac.
3		0.0%		Total Number of Dominant Species Across All Strata: 2 (B)
4.	0	0.0%		Species Across Air 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		0.0%		Prevalence Index worksheet:
2		0.0%		Total % Cover of: Multiply by:
3. 4.		0.0%		OBL specifies 80 x 1 = 80
5.	0	0.0%		FACW specifies $20 \times 2 = 40$
				FAC species $0 \times 3 = 0$ FACU species $0 \times 4 = 0$
Herb Stratum (Plot size:	0	= Total Cove	er	A 4
1. Carex aquatilis	80	80.0%	OBL	UPL speciles x 5 =
2 Juncus balticus	20	20.0%	FACW	Collumn Totalis: 100 (A) 120 (B)
3	0	0.0%		Prevalence Index = B/A = 1.200
4		0.0%		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 1, rovide supporting data in Remarks or on a separate sheet)
9		0.0%		
10		0.0%		☐ Problematic Hydrophytic Vegetation 1 (1 splain)
11,		0.0%		1
	100	= Total Cove	er	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				, , , .
		1 0 000		
1		0.0%		
		0.0%		Hydrophytic Vegetation
			er	Hydrophytic Vegetation Present? Yes No

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

1 Fype: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains 2 Location: PL Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	exture Remarks
1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains 2 Location: PL Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	=Pore Lining. M=Matrix licators for Problematic Hydric Soils: ³ 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Sandy Redox (S5) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric	icators for Problematic Hydric Soils: ³ 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric Remarks:	icators for Problematic Hydric Soils: ³ 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric Remarks:	icators for Problematic Hydric Soils: ³ 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric Remarks:	icators for Problematic Hydric Soils: ³ 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric Remarks:	icators for Problematic Hydric Soils: ³ 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydri	icators for Problematic Hydric Soils: ³ 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: Name of the Mistosophic (S5) Depleted Matrix (S6) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox depressions (F8) 3 In Vernal Pools (F9) Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	icators for Problematic Hydric Soils: ³ 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: Name of the Mistosophic (S5) Depleted Matrix (S6) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox depressions (F8) 3 In Vernal Pools (F9) Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	icators for Problematic Hydric Soils: ³ 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric Remarks:	icators for Problematic Hydric Soils: ³ 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric Remarks:	icators for Problematic Hydric Soils: ³ 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Depleted Below Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydri	icators for Problematic Hydric Soils: ³ 1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present.
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Histic Epipedon (A2) Stratified Layers (A5) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox depressions (F8) Vernal Pools (F9) Hydric Remarks:	1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) indicators of hydrophytic vegetation and wetland hydrology must be present.
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Pestrictive Layer (if present): Type: Depth (inches): Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox depressions (F8) Vernal Pools (F9) Hydrickerarks:	2 cm Muck (A10) (LRR B) Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) indicators of hydrophytic vegetation and wetland hydrology must be present.
Black Histic (A3)	Reduced Vertic (F18) Red Parent Material (TF2) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present.
Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (F3) Vernal Pools (F9) Redox Dark Surface (F7) Redox depressions (F8) Vernal Pools (F9) Restrictive Layer (if present): Type: Depth (inches): Hydrick Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox depressions (F8) Vernal Pools (F9) Hydrick Matrix (F2) Hydrick Matrix (F2) Pepleted Matrix (F3) Vernal Pools (F7) Hydrick Matrix (F2) Pepleted Matrix (F2) Pepleted Matrix (F3) Vernal Pools (F9) Hydrick Matrix (F2) Pepleted Matrix (F2) Pepleted Matrix (F2) Pepleted Matrix (F3) Vernal Pools (F9) Hydrick Matrix (F2) Pepleted Matrix (F2) Pepleted Matrix (F2) Pepleted Matrix (F2) Pepleted Matrix (F3) Vernal Pools (F7) Hydrick Matrix (F2) Pepleted Matrix (F2) Pepleted Matrix (F3) Pepleted Matrix (F2) Pepleted Matrix (F2) Pepleted Matrix (F3) Pepleted Matrix (F2) Pepleted Matrix (F3) Pepleted Dark Surface (F7) Pepleted Dark Surface (F7)	Red Parent Material (TF2) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present.
Stratified Layers (A5) (LRR C) 1 cm Muck (A9) (LRR D) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox depressions (F8) Sandy Muck Mineral (S1) Vernal Pools (F9) Restrictive Layer (if present): Type: Depth (inches): Hydricker	Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present.
1 cm Muck (A9) (LRR D) Bepleted Matrix (F3) Redox Dark Surface (F6) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Redox depressions (F8) Sandy Muck Mineral (S1) Vernal Pools (F9) Restrictive Layer (if present): Type: Depth (inches): Hydricker	ndicators of hydrophytic vegetation and wetland hydrology must be present.
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydrick Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox depressions (F8) Vernal Pools (F9) Hydrick Remarks:	wetland hydrology must be present.
Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydrickemarks:	wetland hydrology must be present.
Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydri Remarks:	wetland hydrology must be present.
Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydri Remarks:	wetland hydrology must be present.
Sandy Gleyed Marrix (54) Restrictive Layer (if present): Type: Depth (inches): Hydri Remarks:	
Type:	ic Soil Present? Yes No
Depth (inches): Hydri	ic Soil Present? Yes No
Remarks:	ic Soil Present? Yes No
TIDRIC SOILS BASED ON PERSISTANT SATURATION	
lydrology	
lydi ology	
Vetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1) Salt Crust (B11)	Water Marks (B1) (Riverine)
High Water Table (A2) Biotic Crust (B12)	Sediment Deposits (B2) (Riverine)
Saturation (A3) Aquatic Invertebrates (B13)	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)
ield Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Wetland Hyd	
Yes No Depth (inches): 0	Irology Present? Yes • No •
	Irology Present? Yes No
(includes capillary fringe) Yes No Depth (friches):	
(includes capillary fringe) Tes No Depth (inches): U Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available	
(includes capillary fringe) Yes No Depth (friches):	

roject/Site: Deachutes County LWI		City/County:	Sunriver/De	eschutes	Sampling Date:	06-May-10	
pplicant/Owner: DESCHUTES COUNTY				State: OR	Sampling Po	int: SP 2	13
nvestigator(s): Sarah Hartung, Aaron Booy		Section, To	wnship, Ra	ange: S 7 T 2	0 S R 11	 E	
Landform (hillslope, terrace, etc.): Floodplain			•	convex, none): flat	Slope		0.6
ubregion (LRR): LRR B	 Lat.: 43		,	Long.: -121.4592		Datum: NAD 8	-
-		.0327				Jatam. Mis s	
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slope climatic/hydrologic conditions on the site typical for this		. Voc	• No (fication: <u>PEMF</u>		
re Vegetation, Soil, or Hydrology	•					No ○	
	significantly			ormal Circumstances" p			
re Vegetation , Soil , or Hydrology	naturally pro			eded, explain any answe		£4	
ummary of Findings - Attach site map sh	nowing sai	mpling po	oint ioca	itions, transects,	important	reatures, e	etc.
lydrophytic Vegetation Present? Yes No		Is the	Sampled A	irea			
Hydric Soil Present? Yes No		within	a Wetland	ı? Yes ● No ○			
/etland Hydrology Present? Yes ● No ○				•			
Remarks:							
Off-site determination.							
VEGETATION. Here of our firm of the	. 1 .	<u> </u>					
EGETATION - Use scientific names of pla	nts.	DominantSpecies?					
ree 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		1 (A	4)
2.		0.0%		That are OBL, TACW, Or	I AC.		1)
3.		0.0%		Total Number of Dominal Species Across All Strata:		1 (B	3)
4.	0	0.0%		Species Across Air Strata.	-	("
	0	= Total Cove	er	Percent of dominant S		100.0% (A	4/B)
Sapling/Shrub Stratum (Plot size:				That Are OBL, FACW,	or FAC:	100.070 (A	1/10)
1		0.0%		Prevalence Index work	sheet:		
2		0.0%		Total % Cover o	f: Multiply	by:	
3		0.0%		OBL species	100 x 1 =	100	
4		0.0%		FACW species	0 x 2 =		
J	0			FAC speciles	0 x 3 =		
Herb Stratum (Plot size:	0	= Total Cove	er	FACU speci es	0 x 4 =	0	
1. Typha latifolia	10	10.0%	OBL	UPL speci es	x 5 =		
2. Carex aquatilis		90.0%	OBL	Column Totals:	(A)	100	(B)
3	0	0.0%		Prevalence Index	= B/A =	1.000	
4		0.0%		Hydrophytic Vegetatio	n Indicators:		
5		0.0%		✓ Dominance Test i			
6		0.0%		✓ Prevalence Index	is ≤3.0 ¹		
7		0.0%		Morphological Ad	aptations 1 1. 'ro	vide supporti	ng
8,		0.0%		data in Remarks o	-		_
0.		0.0%		Problematic Hydr	ophytic Vegetat	ion 1 (ˈˈːɪplain))
11.		0.0%					
	100	= Total Cove	er	1 Indicators of hydric be present, unless dis	soil and wetland	d hydrology m	iust
Voody Vine Stratum (Plot size:				be present, unless uis	andea or proble	matic.	
	0	0.0%					
1.		0.0%		Hydrophytic			
	0			Vocatotion			
1. 2.	0	= Total Cove	er	Vocatotion	● No ○		

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

Profile Desci						iiiii tiie a	osence or indicate	,
Depth (inches)	Matrix Color (moist)		Color (moist)	dox Featu %		Loc ²	Texture	Remarks
(inches)	Color (moist)	70	Color (moist)	70	Type ¹	LOC-	rexture	Remarks
							-	
1 Typo: C-Co	ncentration. D=Depletion	n DM_Poduce	nd Matrix CS_Cover	od or Coate	od Sand Crair	as 21 ocat	ion: PL=Pore Lining	n M-Matrix
	· · · · · · · · · · · · · · · · · · ·				su Sanu Gran	15 -LUCA		
	Indicators: (Applicab	ne to an LRR						Problematic Hydric Soils: ³
Histosol ((AT) ipedon (A2)		Sandy Redox				1 cm Muck	
Black Hist			Stripped Matr				2 cm Muck	(A10) (LRR B)
	n Sulfide (A4)		Loamy Mucky				Reduced Ve	rtic (F18)
	Layers (A5) (LRR C)		Loamy Gleyed	d Matrix (F2	2)		Red Parent	Material (TF2)
	ck (A9) (LRR D)		Depleted Mat	rix (F3)			✓ Other (Expla	ain in Remarks)
	` , ` ,	4.	Redox Dark S	urface (F6)				
	Below Dark Surface (A1	1)	Depleted Dark	k Surface (I	7)			
	rk Surface (A12)		Redox depres	sions (F8)			3	
	uck Mineral (S1)		☐ Vernal Pools ((F9)			Indicators of h	ydrophytic vegetation and ology must be present.
Sandy Gle	eyed Matrix (S4)						welland flydi	ology must be present.
Restrictive L	ayer (if present):							
Type:								
Depth (inc	ches):						Hydric Soil Prese	ent? Yes • No O
Remarks:								
CELLIALKY:								
	DDIC SOILS BASED O	NI AEDIAL M		DE DOCIT	TON			
	ORIC SOILS BASED O	N AERIAL M	AP AND LANDSCA	APE POSIT	ION			
	DRIC SOILS BASED O	N AERIAL M	AP AND LANDSCA	APE POSIT	TION			
	DRIC SOILS BASED O	N AERIAL M	AP AND LANDSCA	APE POSIT	TION			
Assume hyd		N AERIAL M	AP AND LANDSCA	APE POSIT	TION			
ASSUME HYE	у	N AERIAL M	AP AND LANDSCA	APE POSIT	TION			
ASSUME HYE		N AERIAL M	AP AND LANDSCA	APE POSIT	TION			
ASSUME HYE Hydrology Wetland Hyc	у				TION		Secondar	y Indicators (2 or more required)
Hydrolog Wetland Hyd	y drology Indicators:			(ylac	TION			y Indicators (2 or more required) Marks (B1) (Riverine)
Hydrolog Wetland Hyc Primary Indi	y drology Indicators: icators (minimum of c		; check all that ar	oply) 311)	TION		Water	
Hydrolog Wetland Hyc Primary Indi	y drology Indicators: icators (minimum of o Water (A1) er Table (A2)		; check all that ar Salt Crust (I	oply) 311) (B12)			Water Sedim	Marks (B1) (Riverine) ent Deposits (B2) (Riverine)
Hydrology Wetland Hyc Primary Indi Surface V High Wat Saturation	y drology Indicators: icators (minimum of o Water (A1) ter Table (A2) n (A3)		; check all that ar Salt Crust (I Biotic Crust Aquatic Inve	oply) 311) (B12) ertebrates	(B13)		Water Sedim Drift D	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine)
Hydrolog Wetland Hyd Primary Indi Surface V High Wat Saturation Water Ma	y drology Indicators: icators (minimum of o Nater (A1) ier Table (A2) in (A3) arks (B1) (Nonriverine)	one required	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo	oply) 311) (B12) ertebrates ulfide Odor	(B13) (C1)	Roots (C3)	Water Sedim Drift D Draina	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10)
Hydrolog Wetland Hyd Primary Indi Surface V High Wat Saturation Water Ma Sediment	y drology Indicators: icators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriver	one required	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo	oply) 311) (B12) ertebrates ulfide Odor izospheres	(B13) (C1) along Living	Roots (C3)	Water Sedim Drift D Draina Dry Se	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) age Patterns (B10) deason Water Table (C2)
Hydrolog Wetland Hyc Primary Indi Surface V High Wat Saturation Water Ma Sediment Drift depo	y drology Indicators: icators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriver osits (B3) (Noneriverine)	one required	; check all that an Salt Crust (I Biotic Crust Inv. Aquatic Inv. Hydrogen S Oxidized Rh	oply) 311) (B12) ertebrates ulfide Odor izospheres Reduced I	(B13) (C1) along Living ron (C4)		Water Sedim Drift D Draina Dry Se	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) age Patterns (B10) deason Water Table (C2) sh Burrows (C8)
Hydrolog Wetland Hyc Primary Indi Surface V High Wat Saturation Water Ma Sediment Drift depo	y drology Indicators: icators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriver osits (B3) (Noneriverine)	one required	; check all that an Salt Crust (I Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh	oply) 311) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction	(B13) (C1) along Living ron (C4) in Plowed Sc		Water Sedim Drift D Draina Dry Se Crayfis	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8) tition Visible on Aerial Imagery (C9)
Hydrology Wetland Hyd Primary Indi Surface V High Wat Saturation Water Ma Sediment Drift depo	drology Indicators: icators (minimum of of Mater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) it Deposits (B2) (Nonriverine) osits (B3) (Noneriverine) Soil Cracks (B6) on Visible on Aerial Imag	one required	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	DDIY) B11) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7	(B13) (C1) along Living ron (C4) in Plowed Sc		Water Sedim Drift D Draina Dry Se Crayfis ✓ Satura Shallon	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9) w Aquitard (D3)
Hydrology Wetland Hyd Primary Indi Surface V High Wat Saturation Water Ma Sediment Drift depo	y drology Indicators: icators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriver osits (B3) (Noneriverine)	one required	; check all that an Salt Crust (I Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh	DDIY) B11) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7	(B13) (C1) along Living ron (C4) in Plowed Sc		Water Sedim Drift D Draina Dry Se Crayfis ✓ Satura Shallo	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8) tition Visible on Aerial Imagery (C9)
Hydrology Wetland Hyd Primary Indi Surface V High Wat Saturation Water Ma Sediment Drift depo	drology Indicators: icators (minimum of of Nater (A1) ier Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) soil Cracks (B6) on Visible on Aerial Imagained Leaves (B9)	one required rine) ery (B7)	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	DDIY) B11) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7	(B13) (C1) along Living ron (C4) in Plowed Sc		Water Sedim Drift D Draina Dry Se Crayfis ✓ Satura Shallon	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9) w Aquitard (D3)
Hydrolog Wetland Hyd Primary Indi Surface V High Wat Saturation Water Ma Sediment Drift depo Surface S Inundation Water-Sta	drology Indicators: icators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriver osits (B3) (Noneriverine) Soil Cracks (B6) on Visible on Aerial Imag ained Leaves (B9) rations:	one required rine) ery (B7)	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	oply) B11) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7	(B13) (C1) along Living ron (C4) in Plowed Sc		Water Sedim Drift D Draina Dry Se Crayfis ✓ Satura Shallon	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9) w Aquitard (D3)
Hydrology Wetland Hyd Primary Indi Surface V High Water Ma Sediment Drift depo Surface S Inundatio Water-Sta	drology Indicators: icators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriver osits (B3) (Noneriverine) Soil Cracks (B6) on Visible on Aerial Imag ained Leaves (B9) rations: r Present? Yes	one required rine) ery (B7) No •	; check all that ar Salt Crust (I Biotic Crust I Aquatic Involution By Bresence of Recent Iron Thin Muck S Depth (inc	oply) 311) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Remains	(B13) (C1) along Living ron (C4) in Plowed Sc		Water Sedim Drift D Draina Dry Se Crayfis ✓ Satura Shallon	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) uge Patterns (B10) deason Water Table (C2) sh Burrows (C8) ution Visible on Aerial Imagery (C9) w Aquitard (D3)
Hydrology Wetland Hyd Primary Indi Surface V High Wat Saturation Water Ma Sediment Drift depo Surface S Inundation Water-Sta	drology Indicators: icators (minimum of of Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) arks (B3) (Noneriverine) to Deposits (B2) (Noneriverine) soil Cracks (B6) on Visible on Aerial Imag ained Leaves (B9) vations: r Present? Yes	ery (B7) No • No •	; check all that ar Salt Crust (I Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	oply) 311) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Remains	(B13) (C1) along Living ron (C4) in Plowed Sc	bils (C6)	Water Sedim Drift D Draina Dry Se Crayfis ✓ Satura Shallon	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) upeposits (B3) Riverine) upeposits (B10) upeposits (B10) upeposits (B10) upeposits (B2) upeposits (B2) (C2) upeposits (B3) upeposits (B2) (Riverine) upeposits (B3) upeposits (B3) upeposits (B3) upeposits (B2) (Riverine) upeposits (B3) upeposits (
Hydrology Wetland Hyde Primary Indi Surface V High Water Ma Sediment Drift depo Surface S Inundatio Water-Sta	drology Indicators: icators (minimum of of Nater (A1) iter Table (A2) in (A3) arks (B1) (Nonriverine) it Deposits (B2) (Nonriverine) osits (B3) (Noneriverine) osit Cracks (B6) on Visible on Aerial Imagiained Leaves (B9) vations: r Present? Yes esent? Yes	ery (B7) No • No •	; check all that ar Salt Crust (I Biotic Crust I Aquatic Involution By Bresence of Recent Iron Thin Muck S Depth (inc	oply) 311) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Rema	(B13) (C1) along Living ron (C4) in Plowed Sc	bils (C6)	Water Sedim Drift D Draina Dry Se Crayfis ✓ Satura Shallo ✓ FAC-ne	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) upeposits (B3) Riverine) upeposits (B10) upeposits (B10) upeposits (B10) upeposits (B2) upeposits (B2) (C2) upeposits (B3) upeposits (B2) (Riverine) upeposits (B3) upeposits (B3) upeposits (B3) upeposits (B2) (Riverine) upeposits (B3) upeposits (
Hydrology Wetland Hyde Primary Indi Surface V High Water Ma Sediment Drift depo Surface S Inundatio Water-Sta Field Observ Surface Water Water Table P Saturation Pre (includes capil	drology Indicators: icators (minimum of of Nater (A1) iter Table (A2) in (A3) arks (B1) (Nonriverine) it Deposits (B2) (Nonriverine) osits (B3) (Noneriverine) osit Cracks (B6) on Visible on Aerial Imagiained Leaves (B9) vations: r Present? Yes esent? Ilary fringe) Vators: Yes (National Cracks (B6) (Nationa	one required rine) ery (B7) No No No No No No No No	; check all that ar Salt Crust (I Biotic Crust I Aquatic Involution By Bresence of Recent Iron Thin Muck SO Other (Expl.)	oply) 311) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Rema	(B13) (C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Water Sedim Drift D Draina Dry Se Crayfis Satura Shallor FAC-no	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) upeposits (B3) Riverine) upeposits (B10) upeposits (B10) upeposits (B10) upeposits (B2) upeposits (B2) (C2) upeposits (B3) upeposits (B2) (Riverine) upeposits (B3) upeposits (B3) upeposits (B3) upeposits (B2) (Riverine) upeposits (B3) upeposits (
Hydrolog Wetland Hyd Primary Indi Surface V High Wat Saturation Water Ma Sediment Drift depo Surface S Inundatio Water-Sta Field Observ Surface Water Water Table P Saturation Pre (includes capil) Describe Rec	drology Indicators: icators (minimum of o Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) soil Cracks (B6) on Visible on Aerial Imag ained Leaves (B9) vations: r Present? Present? Yes esent? Ilary fringe) corded Data (stream	one required rine) ery (B7) No No No No No No No No	; check all that ar Salt Crust (I Biotic Crust I Aquatic Involution By Bresence of Recent Iron Thin Muck SO Other (Expl.)	oply) 311) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Rema	(B13) (C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Water Sedim Drift D Draina Dry Se Crayfis Satura Shallor FAC-no	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) upeposits (B3) Riverine) upeposits (B10) upeposits (B10) upeposits (B10) upeposits (B2) upeposits (B2) (C2) upeposits (B3) upeposits (B2) (Riverine) upeposits (B3) upeposits (B3) upeposits (B3) upeposits (B2) (Riverine) upeposits (B3) upeposits (
Hydrology Wetland Hyde Primary Indi Surface V High Wat Saturation Water-Sta Field Observ Surface Water Water Table P Saturation Pre (includes capit Describe Rec	drology Indicators: icators (minimum of o Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) soil Cracks (B6) on Visible on Aerial Imag ained Leaves (B9) vations: r Present? Present? Yes esent? Ilary fringe) corded Data (stream	one required rine) ery (B7) No No No No No No No No	; check all that ar Salt Crust (I Biotic Crust I Aquatic Involution By Bresence of Recent Iron Thin Muck SO Other (Expl.)	oply) 311) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Remains	(B13) (C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Water Sedim Drift D Draina Dry Se Crayfis Satura Shallor FAC-no	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) upeposits (B3) Riverine) upeposits (B10) upeposits (B10) upeposits (B10) upeposits (B2) upeposits (B2) (C2) upeposits (B3) upeposits (B2) (Riverine) upeposits (B3) upeposits (B3) upeposits (B3) upeposits (B2) (Riverine) upeposits (B3) upeposits (
Hydrology Wetland Hyde Primary Indi Surface V High Water Ma Sediment Drift depo Surface S Inundatio Water-Sta Field Observ Surface Water Water Table P Saturation Pre (includes capil Describe Rec Aerial Photo	drology Indicators: icators (minimum of o Nater (A1) ter Table (A2) in (A3) arks (B1) (Nonriverine) t Deposits (B2) (Nonriverine) soil Cracks (B6) on Visible on Aerial Imag ained Leaves (B9) vations: r Present? Present? Yes esent? Ilary fringe) corded Data (stream	one required rine) ery (B7) No No No gauge, mon	check all that are Salt Crust (I Biotic Crust Aquatic Invo Presence of Recent Iron Thin Muck S Depth (inco Depth (poly) 311) (B12) ertebrates ulfide Odor izospheres Reduced I Reduction Surface (C7 ain in Rema	(B13) (C1) along Living ron (C4) in Plowed Sc) arks)	Wetlan	Water Sedim Drift D Draina Dry Se Crayfis Satura Shallor FAC-no	Marks (B1) (Riverine) ent Deposits (B2) (Riverine) deposits (B3) Riverine) upeposits (B3) Riverine) upeposits (B10) upeposits (B10) upeposits (B10) upeposits (B2) upeposits (B2) (C2) upeposits (B3) upeposits (B2) (Riverine) upeposits (B3) upeposits (B3) upeposits (B3) upeposits (B2) (Riverine) upeposits (B3) upeposits (

Project/Site: Deachutes County LWI		City/County:	Sunriver/De	eschutes Sampling Date: 06-May-10
Applicant/Owner: DESCHUTES COUNTY				State: OR Sampling Point: SP 214
nvestigator(s): Sarah Hartung, Aaron Booy		Section, To	wnship, Ra	ange: S 18 T 20 S R 11 E
Landform (hillslope, terrace, etc.): Floodplain		Local relief	(concave,	convex, none): flat Slope: 1.0% / 0
ubregion (LRR): LRR B	 Lat.: 43			Long.: -121.4595 Datum: NAD 83
		3.0404		<u> </u>
oil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 p		. Voc	● No ○	NWI classification: PEMC (If no, explain in Remarks.)
eclimatic/hydrologic conditions on the site typical for the revegetation	significantly			
				,
re Vegetation	naturally prob			eded, explain any answers in Remarks.) ations, transects, important features, etc
<u> </u>	ilowing sai		1111 1002	ations, transects, important reatures, etc
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	Area
Hydric Soil Present? Yes No		within	a Wetland	d? Yes No
Vetland Hydrology Present? Yes ● No ○				
Remarks:				
On-site determination.				
/=====================================				
/EGETATION - Use scientific names of pla	ants.	DominantSpecies? _		
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1.		0.0%	otatus	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2.		0.0%		That are obc, FACW, of FAC.
3		0.0%		Total Number of Dominant Species Across All Strata: 3 (B)
4.	0	0.0%		Species Across Air Strata.
	0	= Total Cove	r	Percent of dominant Species That Are ORL FACW or FAC: 66.7% (A/B)
Sapling/Shrub Stratum (Plot size:				That Are OBL, FACW, or FAC: 66.7% (A/B)
1. Salix geyeriana		100.0%		Prevalence Index worksheet:
2		0.0%		Total % Cover of: Multiply by:
3		0.0%		OBL specifies60 x 1 =60
45.		0.0%		FACW specifies $40 \times 2 = 80$
<u>. </u>				FAC specifies $0 \times 3 = 0$
Herb Stratum (Plot size:)	10	= Total Cove	r	FACU specifies $0 \times 4 = 0$
1. Carex aquatilis	60	✓ 60.0%	OBL	UPL Speciles x 5 =
2. Juncus balticus	40	40.0%	FACW	Collumn Totalis: 100 (A) 140 (B)
3	0	0.0%		Prevalence Index = B/A = 1.400
4		0.0%		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 1, 'rovide supporting data in Remarks or on a separate sheet)
9		0.0%		
10,		0.0%		☐ Problematic Hydrophytic Vegetation 1 (1 splain)
11,		0.0%		1
	100	= Total Cove	r	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:				
1		0.0%		
	0	0.0%		Hydrophytic
2				Vegetation
	0	= Total Cove	r	Vegetation Present? Yes No

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

Profile Descr	ription: (De		the depth n	eded to				nfirm the a	absence of indicato	ors.)	
Depth	0-1 (-	Matrix		0-1 (dox Featu		1 3	. T	Damanto	
(inches)	Color (i		<u>%</u> _	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks duff	
0-2	10YR	3/2	100%						Loam		
2-8	10YR	3/2	100%						Silt	decaying sedge material	
8-20	10YR	3/1	80%	10YR	3/4	20%	C	PL	Clay Loam		
1 Type: C=Cor	ncentration. [n. RM=Reduc	ed Matrix,	CS=Covere	ed or Coat	ed Sand Gra	ins ² Loca	ation: PL=Pore Lining	g. M=Matrix	
Hydric Soil	Indicators:	(Applicat	ole to all LR	Rs, unless	otherwis	e noted.)			Indicators for I	Problematic Hydric Soils: ³	
Histosol (ndy Redox				1 cm Muck (•	
	pedon (A2)			Str	pped Matri	x (S6)				(A10) (LRR B)	
Black Hist				Loa	ımy Mucky	Mineral (F	1)		Reduced Ve	rtic (F18)	
	Sulfide (A4)	(LDD C)		Loa	ımy Gleyed	Matrix (F2	2)		Red Parent I	Material (TF2)	
	Layers (A5) (ck (A9) (LRR I				oleted Matr				Other (Expla	ain in Remarks)	
_	Below Dark S		1)		dox Dark Sı						
I — .	k Surface (A1		1)		oleted Dark		F7)				
l —	uck Mineral (S	•			dox depress				3 Indicators of h	ydrophytic vegetation and	
	eyed Matrix (S			∟ Ver	nal Pools (F9)			wetland hydr	ology must be present.	
Restrictive L	•										
Type:	., .	,									
Depth (inc	hes):								Hydric Soil Prese	ent? Yes No	
Hydrolog	y										
Wetland Hyd	drology Indi	cators:									
Primary Indi	icators (min	imum of	one require	d; check a	all that ap	(yla			Secondar	y Indicators (2 or more required)	
Surface V	Vater (A1)				alt Crust (E	311)			Water	Marks (B1) (Riverine)	
	er Table (A2)			□ в	iotic Crust	(B12)			Sedime	ent Deposits (B2) (Riverine)	
Saturation					quatic Inve					eposits (B3) Riverine)	
	arks (B1) (Nor				lydrogen Si					ge Patterns (B10)	
	Deposits (B2					•	along Living	g Roots (C3		eason Water Table (C2)	
	osits (B3) (No Soil Cracks (B6)		resence of		iron (C4) in Plowed S	coile (C4)		sh Burrows (C8)	
	on Visible on A		iery (R7)		hin Muck S			ouis (Co)		tion Visible on Aerial Imagery (C9)	
	ained Leaves		jery (D7)		other (Expla					w Aquitard (D3) eutral Test (D5)	
Field Observ		(57)			tiror (Expir		u. 1.07		TAC III	cutui rest (55)	
Surface Water		Yes	O No @)	Depth (inc	hes):]			
Water Table P		Yes]			
Saturation Pre					Depth (inc		-	Wetla	and Hydrology Pres	sent? Yes No	
(includes capil	llary fringe)	Yes			Depth (inc		0				
Describe Rec	corded Data	(stream	gauge, moi	nitor well,	aeriai ph	otos, pre	vious inspe	ections), i	r available:		
Domarks:											
Remarks: SATURATION	NI AT CUDE <i>i</i>	VCE									
SATURATIO	IN MI SUKFA	IOL									

Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes Are climatic/hydrologic conditions on the site typical for this time of ye Are Vegetation , Soil , or Hydrology significant	Are "No Sampling point loc. Is the Sampled within a Wetlan Dominant Species? Ite Rel.Strat. Indicator	Convex, none): CONVEX Slope: 2.0% / 1.1 Long.: -121.4481 NWI classification: PSSC (If no, explain in Remarks.) Normal Circumstances" present? Yes No Peded, explain any answers in Remarks.) ations, transects, important features, etc. Area d? Yes No
Landform (hillslope, terrace, etc.): Floodplain Subregion (LRR): LRR B Lat.: Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes re climatic/hydrologic conditions on the site typical for this time of ye Are Vegetation , Soil , or Hydrology significant Are Vegetation , Soil , or Hydrology naturally p Summary of Findings - Attach site map showing s Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Off-site determination. VEGETATION - Use scientific names of plants. Tree Stratum (Plot size: , 6 Cov. 3 C	Local relief (concave, 43.8323 ar? Yes No No Ity disturbed? Are "Ity disturbed? (If ne sampling point loc. Is the Sampled within a Wetlan Dominant Species? Rel.Strat. Indicator Status	Convex, none): CONVEX Slope: 2.0% / 1.1 Long.: -121.4481 NWI classification: PSSC (If no, explain in Remarks.) Normal Circumstances" present? Yes No Peded, explain any answers in Remarks.) ations, transects, important features, etc. Area d? Yes No
Subregion (LRR): LRR B Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes re climatic/hydrologic conditions on the site typical for this time of ye Are Vegetation , Soil , or Hydrology significant Are Vegetation , Soil , or Hydrology naturally p Summary of Findings - Attach site map showing s Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Off-site determination. VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:	Are "Problematic? (If ne sampling point local within a Wetlan Dominant Species? Rel.Strat. Indicator Status	Long.: -121.4481 Datum: NAD 83 NWI classification: PSSC (If no, explain in Remarks.) Normal Circumstances" present? Yes No Rededed, explain any answers in Remarks.) ations, transects, important features, etc. Area d? Yes No
Subregion (LRR): LRR B Soil Map Unit Name: 29A: Crvaquolls, 0 to 3 percent slopes re climatic/hydrologic conditions on the site typical for this time of ye Are Vegetation , Soil , or Hydrology significant Are Vegetation , Soil , or Hydrology naturally p Summary of Findings - Attach site map showing s Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Off-site determination. VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:	Are "Problematic? (If ne sampling point local within a Wetlan Dominant Species? Rel.Strat. Indicator Status	Long.: -121.4481 Datum: NAD 83 NWI classification: PSSC (If no, explain in Remarks.) Normal Circumstances" present? Yes No Rededed, explain any answers in Remarks.) ations, transects, important features, etc. Area d? Yes No
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes re climatic/hydrologic conditions on the site typical for this time of ye Are Vegetation , Soil , or Hydrology significant Are Vegetation , Soil , or Hydrology naturally p Summary of Findings - Attach site map showing s Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Off-site determination. VEGETATION - Use scientific names of plants. Tree Stratum (Plot size: , 6 Cov. 2 1.	ar? Yes No	NWI classification: PSSC (If no, explain in Remarks.) Normal Circumstances" present? Yes No aceded, explain any answers in Remarks.) ations, transects, important features, etc. Area d? Yes No
re climatic/hydrologic conditions on the site typical for this time of yether vegetation	Is the Sampled within a Wetlan Dominant Species? Rel.Strat. Indicator Status	(If no, explain in Remarks.) Normal Circumstances" present? Yes No ededed, explain any answers in Remarks.) ations, transects, important features, etc. Area d? Yes No
Are Vegetation , Soil , or Hydrology naturally pare Vegetation , Soil naturally pare Vegetation , Soil naturally pare Vegetation naturally pare Vege	Is the Sampled within a Wetlan Dominant Species? Rel.Strat. Indicator Status	Normal Circumstances" present? Yes No ceded, explain any answers in Remarks.) ations, transects, important features, etc. Area d? Yes No Ceded, explain any answers in Remarks.)
Are Vegetation , Soil , or Hydrology naturally positive summary of Findings - Attach site map showing summary of F	Is the Sampled within a Wetlan Dominant Species? Rel.Strat. Indicator yer Cover Status	ations, transects, important features, etc. Area d? Yes No
Summary of Findings - Attach site map showing s Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No How No Hemarks: Off-site determination. VEGETATION - Use scientific names of plants. Tree Stratum (Plot size: Absolute % County of the co	Is the Sampled within a Wetlan Dominant Species? Rel.Strat. Indicator over Cover Status	ations, transects, important features, etc. Area d? Yes No
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No OR Remarks: Off-site determination. VEGETATION - Use scientific names of plants. Tree Stratum (Plot size: Absolute % Course of the cours	Dominant Species? Rel.Strat. Indicator ver Cover Status	Area d? Yes No
Hydric Soil Present? Wetland Hydrology Present? Remarks: Off-site determination. VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:) 1.	Dominant Species? Rel.Strat. Indicator yer Cover Status	d? Yes • No ·
Wetland Hydrology Present? Remarks: Off-site determination. VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:) Absolu % Cou	Dominant Species? Lite Rel.Strat. Indicator ver Cover Status	u:
Remarks: Off-site determination. VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:) Absolute % Cox 2. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	Species? ute Rel.Strat. Indicator ver Cover Status	Dominance Test worksheet:
Off-site determination. VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:) Absolu % Cox 2. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Species? ute Rel.Strat. Indicator ver Cover Status	Dominance Test worksheet:
VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:)	Species? ute Rel.Strat. Indicator ver Cover Status	Dominance Test worksheet:
Tree Stratum (Plot size:) Absolute % Cox 1. 0 2. 0 3. 0	Species? ute Rel.Strat. Indicator ver Cover Status	Dominance Test worksheet:
Tree Stratum (Plot size:) Absolute % Cox. 1. 0 2. 0 3. 0	Species? ute Rel.Strat. Indicator ver Cover Status	Dominance Test worksheet:
Tree Stratum (Plot size:) % Cov. 1. 0 2. 0 3. 0	ver Cover Status	Dominance Test worksheet:
1. 0 2. 0 3. 0		
2.		Number of Dominant Species That are OBL, FACW, or FAC:1 (A)
30	0.0%	That are OBL, FACW, or FAC: (A)
	0.0%	Total Number of Dominant Species Across All Strata: 2 (B)
4.	0.0%	Species Across All Strata: 2 (B)
0	= Total Cover	Percent of dominant Species
Sapling/Shrub Stratum (Plot size:		That Are OBL, FACW, or FAC: 50.0% (A/B)
1. Salix geyeriana 50	100.0%	Prevalence Index worksheet:
20	0.0%	Total % Cover of: Multiply by:
30	0.0%	0BL species 90 x 1 = 90
4	0.0%	FACW species $0 \times 2 = 0$
5	0.0%	FAC species $0 \times 3 = 0$
50	= Total Cover	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size:		UPL species $0 \times 5 = 0$
1. Carex aquatilis 90		Column Totals: 90 (A) 90 (B)
2, 0	0.0%	Prevalence Index = $B/A = 1.000$
30	0.0%	
50	0.0%	Hydrophytic Vegetation Indicators: Dominance Test is > 50%
6. 0	0.0%	✓ Prevalence Index is ≤3.0 1
70	0.0%	Morphological Adaptations 1 1. 'rovide supporting
80	0.0%	data in Remarks or on a separate sheet)
9		Problematic Hydrophytic Vegetation 1 (1 (plain)
10		
11,		1 Indicators of hydric soil and wetland hydrology must
90	= Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		
1. 0	0.0%	Hydrophytic
2		Hydrophytic Vegetation
0	= Total Cover	Present? Yes No
% Bare Ground in Herb Stratum: () % Cover of B	iotic Crust ()	

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

Profile Description: (Describe to the dep				iiiii tiie at	serice of indicators.)	
Depth Matrix (inches) Color (moist) %	Color (moist)	dox Featu %		Loc2	Texture	Remarks
(inches) Color (moist) %	Color (moist)		Type ¹	LUC-	rexture	Remarks
		-				
4.F. 0.0				21	DI D. III I	
1 Type: C=Concentration. D=Depletion. RM=R	<u> </u>		ed Sand Graii	is ² Locati	on: PL=Pore Lining. M	=Matrix
Hydric Soil Indicators: (Applicable to al					Indicators for Prob	olematic Hydric Soils: ³
Histosol (A1)	Sandy Redox				1 cm Muck (A9)	(LRR C)
Histic Epipedon (A2)	Stripped Mati	ix (S6)			2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky	/ Mineral (F	1)		Reduced Vertic	(F18)
Hydrogen Sulfide (A4)	Loamy Gleye	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	Surface (F6)			outlier (Explain ii	. Homano,
Depleted Below Dark Surface (A11)	Depleted Dar	k Surface (F	7)			
☐ Thick Dark Surface (A12)	Redox depres		,			
Sandy Muck Mineral (S1)	☐ Vernal Pools				³ Indicators of hydro	phytic vegetation and
Sandy Gleyed Matrix (S4)	Vernai i oois	(1 7)			wetland hydrolog	y must be present.
Restrictive Layer (if present):						
• • • •						
TADE.						
Type:					Hydric Soil Present?	Yes ● No ○
Depth (inches):					Hydric Soil Present?	Yes ● No ○
• • • • • • • • • • • • • • • • • • • •					Hydric Soil Present?	Yes ● No ○
Depth (inches):	ROLOGY INDICATOR.				Hydric Soil Present?	Yes No
Depth (inches):	ROLOGY INDICATOR.				Hydric Soil Present?	Yes ● No ○
Depth (inches):	ROLOGY INDICATOR.				Hydric Soil Present?	Yes ● No ○
Depth (inches):	ROLOGY INDICATOR.				Hydric Soil Present?	Yes No
Depth (inches):Remarks: ASSUME HYDRIC SOILS BASED ON HYDR	ROLOGY INDICATOR.				Hydric Soil Present?	Yes No
Depth (inches):Remarks: ASSUME HYDRIC SOILS BASED ON HYDRIC	ROLOGY INDICATOR.				Hydric Soil Present?	Yes No
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators:		only)				
Depth (inches): Remarks: SSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reg	uired: check all that a				Secondary In	dicators (2 or more required)
Depth (inches): Remarks: SSUME HYDRIC SOILS BASED ON HYDR Bydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reg Surface Water (A1)	uired; check all that a	B11)			Secondary In Water Mar	dicators (2 or more required) ks (B1) (Riverine)
Depth (inches): Remarks: SSUME HYDRIC SOILS BASED ON HYDR Iydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reg Surface Water (A1) High Water Table (A2)	uired; check all that a Salt Crust (B11) (B12)	(740)		Secondary In Water Mar	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine)
Depth (inches): Remarks: SSUME HYDRIC SOILS BASED ON HYDR Bydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reg Surface Water (A1) High Water Table (A2) Saturation (A3)	uired; check all that a Salt Crust (Biotic Crust	B11) (B12) ertebrates (Secondary In Water Mar Sediment I Drift Depo:	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reg Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	uired; check all that a Salt Crust (Biotic Crust Aquatic Inv	B11) (B12) ertebrates (Sulfide Odor	(C1)		Secondary In Water Mar Sediment I Drift Depos	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	uired: check all that a Salt Crust (Biotic Crust Aquatic Inv Hydrogen S	B11) (B12) ertebrates (Sulfide Odor nizospheres	(C1) along Living	Roots (C3)	Secondary In Water Mar Sediment I Drift Depos	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine)
Depth (inches):	uired: check all that a Salt Crust (Biotic Crust Aquatic Inv Hydrogen S	B11) (B12) ertebrates (Sulfide Odor	(C1) along Living	Roots (C3)	Secondary In Water Mar Sediment I Drift Depos	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reg Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	uired; check all that a Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri	B11) (B12) ertebrates (Sulfide Odor nizospheres f Reduced I	(C1) along Living		Secondary In Water Mar Sediment I Drift Depo: Drainage F Dry Seasor Crayfish Bu	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) In Water Table (C2)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one req Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine)	uired; check all that a Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Rt Presence o Recent Iror	B11) (B12) ertebrates (Sulfide Odor nizospheres f Reduced I	(C1) along Living ron (C4) in Plowed So		Secondary In Water Mar Sediment I Drift Depo: Drainage F Dry Seasor Crayfish Bu Saturation	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2) urrows (C8)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reg 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)	uired; check all that a Salt Crust (Biotic Crust) Aquatic Inv Hydrogen S Oxidized Ri Presence o Recent Iror	B11) (B12) ertebrates (Gulfide Odor nizospheres f Reduced In	(C1) along Living ron (C4) in Plowed Sc)		Secondary In Water Mar Sediment I Drift Depo: Drainage F Dry Seasor Crayfish Bu Saturation Shallow Ac	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one req 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)	uired; check all that a Salt Crust (Biotic Crust) Aquatic Inv Hydrogen S Oxidized Ri Presence o Recent Iror	B11) (B12) ertebrates (Sulfide Odor nizospheres f Reduced II n Reduction Surface (C7)	(C1) along Living ron (C4) in Plowed Sc)		Secondary In Water Mar Sediment I Drift Depo: Drainage F Dry Seasor Crayfish Bu Saturation Shallow Ac	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) quitard (D3)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reg 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)	uired: check all that a Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S Oxidized Rh Presence o Recent Iror Thin Muck	B11) (B12) ertebrates (Sulfide Odor nizospheres f Reduced II n Reduction Surface (C7) lain in Rema	(C1) along Living ron (C4) in Plowed Sc)		Secondary In Water Mar Sediment I Drift Depo: Drainage F Dry Seasor Crayfish Bu Saturation Shallow Ac	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) quitard (D3)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reg 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: Surface Water Present? Yes N	uired: check all that a Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Other (Exp	B11) (B12) ertebrates (Sulfide Odor nizospheres f Reduced II n Reduction Surface (C7) lain in Rema	(C1) along Living ron (C4) in Plowed Sc)		Secondary In Water Mar Sediment I Drift Depo: Drainage F Dry Seasor Crayfish Bu Saturation Shallow Ac	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) quitard (D3)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reg 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: Surface Water Present? Yes N	uired: check all that a Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S Oxidized Rh Presence o Recent Iror Thin Muck	B11) (B12) ertebrates (Sulfide Odornizospheres f Reduced II n Reduction Surface (C7) lain in Remainanches):	(C1) along Living ron (C4) in Plowed Sc)	ils (C6)	Secondary In Water Mar Sediment I Drift Depo: Drainage F Dry Seasor Crayfish Bu Saturation Shallow Ac FAC-neutra	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) Juitard (D3) al Test (D5)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reg 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: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present?	uired: check all that a Salt Crust (Biotic Crust Aquatic Inv Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Other (Exp	B11) (B12) ertebrates (Gulfide Odor nizospheres f Reduced II n Reduction Surface (C7) lain in Rema	(C1) along Living ron (C4) in Plowed Sc) arks)	ils (C6)	Secondary In Water Mar Sediment I Drift Depo: Drainage F Dry Seasor Crayfish Bu Saturation Shallow Ac	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) Juitard (D3) al Test (D5)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reg 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: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N Saturation Present? (includes capillary fringe)	uired: check all that all Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Other (Exp	B11) (B12) ertebrates (Sulfide Odornizospheres f Reduced II n Reduction Surface (C7) lain in Rema	(C1) along Living ron (C4) in Plowed Sc) arks)	ils (C6) Wetlar	Secondary In Water Mar Sediment I Drift Depo: Drainage F Dry Seasor Crayfish Bu Saturation Shallow Ac FAC-neutra	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) Juitard (D3) al Test (D5)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reg 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 N Saturation Present? Yes N Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge,	uired: check all that all Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Other (Exp	B11) (B12) ertebrates (Sulfide Odornizospheres f Reduced II n Reduction Surface (C7) lain in Rema	(C1) along Living ron (C4) in Plowed Sc) arks)	ils (C6) Wetlar	Secondary In Water Mar Sediment I Drift Depo: Drainage F Dry Seasor Crayfish Bu Saturation Shallow Ac FAC-neutra	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) Juitard (D3) al Test (D5)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON HYDR Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one reg 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: Surface Water Present? Water Table Present? Yes N Saturation Present? (includes capillary fringe)	uired: check all that all Salt Crust (Biotic Crust (Aquatic Inv Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Other (Exp	B11) (B12) ertebrates (Sulfide Odornizospheres f Reduced II n Reduction Surface (C7) lain in Rema	(C1) along Living ron (C4) in Plowed Sc) arks)	ils (C6) Wetlar	Secondary In Water Mar Sediment I Drift Depo: Drainage F Dry Seasor Crayfish Bu Saturation Shallow Ac FAC-neutra	dicators (2 or more required) ks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) In Water Table (C2) Jurrows (C8) Visible on Aerial Imagery (C9) Juitard (D3) al Test (D5)

Project/Site: Deachutes County LWI		City/County: Sunriver/	Deschutes Samplin	ng Date: 06-May-10
Applicant/Owner: DESCHUTES COUNTY			State: OR Samp	oling Point: SP 218
Investigator(s): Sarah Hartung, Aaron Booy		Section, Township,	Range: S 19 T 20 S	R 11 E
Landform (hillslope, terrace, etc.): Floodplain		Local relief (concave	e, convex, none): CONVEX	Slope: 2.0% / 1.1
Subregion (LRR): LRR B		3.8320	Long.: -121.4481	Datum: NAD 83
• • •		53.0320		
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 pe		r? Yes • No	NWI classification:	
re climatic/hydrologic conditions on the site ty				
Are Vegetation U , Soil U , or Hydro	logy significantly	y disturbed? Are "	'Normal Circumstances" present?	Yes ● No ○
Are Vegetation . , Soil . , or Hydro		•	eeded, explain any answers in Re	
Summary of Findings - Attach site			Lations, transects, impor	tant reatures, etc.
Hydrophytic Vegetation Present? Yes •	No O	Is the Sampled	Area	
Hydric Soil Present? Yes Yes	No O	within a Wetla	nd? Yes No	
Wetland Hydrology Present? Yes Output Description:	No O			
Remarks:				
Off-site determination.				
				
VEGETATION - Use scientific nam	nes of plants.	Dominant Species?		
Two Charters (Plot sizes	Absolut % Cove		Dominance Test worksheet:	
Tree Stratum (Plot size:			Number of Dominant Species	2 (4)
1		0.0%	That are OBL, FACW, or FAC:	2 (A)
2. 3.		0.0%	Total Number of Dominant	2 (D)
4.	0	0.0%	Species Across All Strata:	2 (B)
	0	= Total Cover	Percent of dominant Species	100.00/ (1.75)
Sapling/Shrub Stratum (Plot size:)	- Total Gover	That Are OBL, FACW, or FAC:	100.0% (A/B)
1. Salix geyeriana	30	✓ 85.7% FACW	Prevalence Index worksheet:	
2. Spiraea douglasii	5	14.3% FACW	Total % Cover of:	Multiply by:
3	0	0.0%	OBL species 50	x 1 = 50
4	0	0.0%	FACW species 35	x 2 =
5	0	0.0%	FAC speci es0	x 3 =0
Hart Charles (Diet sies)	35	= Total Cover	FACU speci es0	x 4 =0
Herb Stratum (Plot size:	F0	✓ 100.0% OBL	UPL speci es0	x 5 =
1 Carex aquatilis		✓ 100.0% OBL OBL	Column Totals: 85	(A) <u>120</u> (B)
2. 3.		0.0%	Prevalence Index = B/A =	= 1.412
4		0.0%	Hydrophytic Vegetation Indica	
5		0.0%	Dominance Test is > 50%	
6		0.0%	✓ Prevalence Index is ≤3.0	
7		0.0%	Morphological Adaptation	
8		0.0%	data in Remarks or on a s	eparate sheet)
9		0.0%	Problematic Hydrophytic	Vegetation 1 (¹ (plain)
10,		0.0%	-	
11	50	= Total Cover	1 Indicators of hydric soil and be present, unless disturbed o	
Woody Vine Stratum (Plot size:)			
1		0.0%		
2			Hydrophytic Vegetation	\bigcirc
	0	= Total Cover	Present? Yes No	\cup
% Bare Ground in Herb Stratum: 50	% Cover of Bio	tic Crust ()		

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

Profile Description: (Describe to the	ie depth nec				iiiiii tiie at	sence of indicator	3.)
Depth Matrix			dox Featu %		Loc2	Texture	Remarks
(inches) Color (moist)	7 0	Color (moist)	70	Type ¹	LOC-	rexture	Remarks
			_				
45 00 10 00 10		100.0		10.10	21 1	DI D 1111	
1 Type: C=Concentration. D=Depletion.		· · · · · · · · · · · · · · · · · · ·		ea Sana Gra	ns ² Locati	on: PL=Pore Lining.	M=Matrix
Hydric Soil Indicators: (Applicable	e to all LRR					Indicators for P	roblematic Hydric Soils: ³
Histosol (A1)		Sandy Redox				1 cm Muck (A	A9) (LRR C)
Histic Epipedon (A2)		Stripped Matr	ix (S6)			2 cm Muck (A	110) (LRR B)
Black Histic (A3)		Loamy Mucky	Mineral (F	1)		Reduced Vert	ic (F18)
Hydrogen Sulfide (A4)		Loamy Gleyed	d Matrix (F2	2)		Red Parent M	aterial (TF2)
Stratified Layers (A5) (LRR C)		Depleted Mati	rix (F3)			Other (Explain	, ,
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				2	
Sandy Muck Mineral (S1)		Vernal Pools (Indicators of hy	drophytic vegetation and
Sandy Gleyed Matrix (S4)			(/			wettand nydro	logy must be present.
Restrictive Layer (if present):							
Type:							
•						Hydric Soil Preser	nt? Yes • No O
Depth (inches):						Hydric Soil Preser	nt? Yes • No O
Depth (inches):						Hydric Soil Preser	nt? Yes • No O
Depth (inches):	HYDROLO	GY INDICATORS.				Hydric Soil Preser	nt? Yes • No O
Depth (inches):	I HYDROLO	GY INDICATORS.				Hydric Soil Preser	nt? Yes • No O
Depth (inches):	I HYDROLO	GY INDICATORS.				Hydric Soil Preser	nt? Yes • No O
Depth (inches):	I HYDROLO	GY INDICATORS.				Hydric Soil Preser	nt? Yes • No
Depth (inches):Remarks: ASSUME HYDRIC SOILS BASED ON Hydrology	I HYDROLO	GY INDICATORS.				Hydric Soil Preser	nt? Yes • No O
Depth (inches):Remarks: ASSUME HYDRIC SOILS BASED ON	I HYDROLO	GY INDICATORS.				Hydric Soil Preser	nt? Yes • No ·
Depth (inches):							Indicators (2 or more required)
Depth (inches):			(ylga			Secondary	
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of or		; check all that ar	pply) B11)			Secondary Water N	Indicators (2 or more required)
Depth (inches): Remarks: SSUME HYDRIC SOILS BASED ON Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1)		; check all that ar	oply) B11) (B12)	(B13)		Secondary Water N	Indicators (2 or more required)_ Marks (B1) (Riverine)
Depth (inches):		; check all that ar Salt Crust (I	oply) B11) (B12) ertebrates (Secondary Water N Sedimen Drift De	Indicators (2 or more required) Marks (B1) (Riverine) nt Deposits (B2) (Riverine)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)	ne required	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo	oply) B11) (B12) ertebrates (ulfide Odor	(C1)	Roots (C3)	Secondary Water N Sedimen Drift De	Indicators (2 or more required) Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10)
Depth (inches):	ne required	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo	oply) B11) (B12) ertebrates (ulfide Odor izospheres	(C1) along Living	Roots (C3)	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 (inches): Remarks: ASSUME HYDRIC SOILS BASED ON Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine)	ne required	; check all that an Salt Crust (I Biotic Crust Aquatic Invo	oply) B11) (B12) ertebrates (ulfide Odor nizospheres FReduced I	(C1) along Living ron (C4)		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) Burrows (C8)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of or 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)	ne required	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron	oply) B11) (B12) ertebrates (ulfide Odor izospheres Reduced I	(C1) along Living ron (C4) in Plowed S		Secondary Water M Sedimer Drift De Drainag Dry Sea Crayfish Saturati	Indicators (2 or more required) Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9)
Depth (inches): Remarks: SSUME HYDRIC SOILS BASED ON Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of or 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 Image	ne required	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh	DDIY) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced I n Reduction Surface (C7	along Living ron (C4) in Plowed S		Secondary Water N Sedimen Drift De Drainag Dry Sea Crayfish Saturati Shallow	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) I Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of or 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)	ne required	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron	DDIY) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced I n Reduction Surface (C7	along Living ron (C4) in Plowed S		Secondary Water M Sedimen Drift De Drainag Dry Sea Crayfish Saturati Shallow	Indicators (2 or more required) Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of or 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 Image Water-Stained Leaves (B9) Field Observations:	ne required ne) ry (B7)	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh	DDIY) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced I n Reduction Surface (C7	along Living ron (C4) in Plowed S		Secondary Water N Sedimen Drift De Drainag Dry Sea Crayfish Saturati Shallow	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) I Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of or 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 Image Water-Stained Leaves (B9) Field Observations:	ne required ne) ry (B7)	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh	oply) B11) (B12) ertebrates (ulfide Odor nizospheres Freduced I Reduction Surface (C7 ain in Rema	along Living ron (C4) in Plowed S		Secondary Water N Sedimen Drift De Drainag Dry Sea Crayfish Saturati Shallow	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) I Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of or 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 Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	ne required ne) ry (B7) No •	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explant)	polly) B11) (B12) ertebrates (ulfide Odor aizospheres Reduced I Reduction Surface (C7 ain in Rema	along Living ron (C4) in Plowed S		Secondary Water N Sedimen Drift De Drainag Dry Sea Crayfish Saturati Shallow	Indicators (2 or more required) Marks (B1) (Riverine) Int Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) I Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3) utral Test (D5)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of or 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 Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes	ne required ne) ry (B7) No No No	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain Depth (inc	oply) B11) (B12) ertebrates (ulfide Odor aizospheres Reduced I Reduction Surface (C7 ain in Rema	along Living ron (C4) in Plowed S	pils (C6)	Secondary Water N Sedimen Drift De Drainag Dry Sea Crayfish Saturati Shallow	Indicators (2 or more required) Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3) utral Test (D5)
Depth (inches): Remarks: SSUME HYDRIC SOILS BASED ON Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of or 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 Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes	ne required ne) ry (B7) No No No	; check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explant)	oply) B11) (B12) ertebrates (ulfide Odor aizospheres Reduced I Reduction Surface (C7 ain in Rema	along Living ron (C4) in Plowed S	pils (C6)	Secondary Water M Sedimer Drift De Drainag Dry Sea Crayfish Saturati Shallow FAC-nec	Indicators (2 or more required) Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3) utral Test (D5)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of or 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 Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes Saturation Present? (includes capillary fringe)	ne required ne) No No No No No No No No	; check all that ag Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain Depth (inc	DDIV) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced I Reduction Surface (C7 ain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	oils (C6) Wetlar	Secondary Water N Sedimen Drift De Drainag Dry Sea Crayfish Saturati Shallow FAC-net	Indicators (2 or more required) Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3) utral Test (D5)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON A SSUME HYDRIC SOILS BASED ON A SUME HYDRIC SUME H	ne required ne) No No No No No No No No	; check all that ag Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain Depth (inc	DDIV) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced I Reduction Surface (C7 ain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	oils (C6) Wetlar	Secondary Water N Sedimen Drift De Drainag Dry Sea Crayfish Saturati Shallow FAC-net	Indicators (2 or more required) Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3) utral Test (D5)
Depth (inches): Remarks: ASSUME HYDRIC SOILS BASED ON Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of or 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 Image Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Saturation Present? Yes	ne required ne) No No No No No No No No	; check all that ag Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain Depth (inc	DDIV) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced I Reduction Surface (C7 ain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	oils (C6) Wetlar	Secondary Water N Sedimen Drift De Drainag Dry Sea Crayfish Saturati Shallow FAC-net	Indicators (2 or more required) Marks (B1) (Riverine) nt Deposits (B2) (Riverine) posits (B3) Riverine) e Patterns (B10) son Water Table (C2) a Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3) utral Test (D5)

roject/Site: Deachutes County LWI		City/County:	Sunriver/D	eschutes Sampling Date: 07-May-10
pplicant/Owner: DESCHUTES COUNTY				State: OR Sampling Point: SP 221
nvestigator(s): Sarah Hartung, Aaron Booy		Section, To	wnship, R	ange: S 31 T 20 S R 11 E
Landform (hillslope, terrace, etc.): Swale		Local relief	(concave,	convex, none): flat Slope: 0.0% / 0.
ubregion (LRR): LRR B	 Lat.: 43			Long.: -121,4593 Datum: NAD 83
il Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 pec climatic/hydrologic conditions on the site typical for thi		. Vos	• No	NWI classification: PEMC (If no, explain in Remarks.)
re Vegetation, Soil, or Hydrology	s time or year? significantly			
re Vegetation, Soil, or Hydrology	naturally pro			eded, explain any answers in Remarks.)
<u> </u>	nowing sai	mpling po	oint loca	ations, transects, important features, etc.
ydrophytic Vegetation Present? Yes No		Is the	Sampled A	Area
Hydric Soil Present? Yes No			a Wetland	Ves (a) No (
/etland Hydrology Present? Yes No		WILLIII	a wetiand	u:
Remarks:				
Off-site determination.				
/EGETATION - Use scientific names of pla	ints.	DominantSpecies?		
ree Stratum (Plot size:	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
	-	0.0%	Jiaius	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
2.		0.0%		That are OBL, FACW, OF FAC:
3.		0.0%		Total Number of Dominant Species Across All Strata: 2 (B)
4.	0	0.0%		Species Across All Strata: 2 (B)
		= Total Cove	er	Percent of dominant Species That Are ORL FACW or FAC: 50.0% (A/B)
Sapling/Shrub Stratum (Plot size:				That Are OBL, FACW, or FAC: 50.0% (A/B)
1. Salix geyeriana	2	100.0%		Prevalence Index worksheet:
2		0.0%		Total % Cover of: Multiply by:
3		0.0%		0BL speci es 95 x 1 = 95
4		0.0%		FACW species $5 \times 2 = 10$
J	0			FAC species $0 \times 3 = 0$
lerb Stratum (Plot size:	2	= Total Cove	er	FACU species $0 \times 4 = 0$
1. Carex aquatilis	95	9 5.0%	OBL	UPL species
2. Juncus balticus	5	5.0%	FACW	Column Totals: 100 (A) 105 (B)
3	0	0.0%		Prevalence Index = $B/A = 1.050$
4		0.0%		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 1. 'rovide supporting data in Remarks or on a separate sheet)
9		0.0%		
10		0.0%		☐ Problematic Hydrophytic Vegetation 1 (1 splain)
11,		0.0%		1
	100	= Total Cove	er	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1		0.0%		
		0.0%		Hydrophytic Vegetation
			er	Hydrophytic Vegetation Present? Yes No

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

	ription: (Describe to t	ne deptime					•	
Depth	Matrix			dox Featu		1002	Tavtuma	Domonico
(inches)	Color (moist)	% _	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
1 Typo: C=Co	ncentration. D=Depletion		od Matrix CS_Cover	od or Coate	nd Sand Gra	ns 2locati	on: PL=Pore Lining. M	_Matrix
			·		su Sanu Gra	iis -Lucati		
_	Indicators: (Applicab	ie to ali LRF						blematic Hydric Soils: ³
Histosol (AT) 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 Mat	erial (TF2)
			Depleted Mat	rix (F3)			✓ Other (Explain i	n Remarks)
	ck (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)			3	
	ıck Mineral (S1)		Vernal Pools ((F9)			Indicators of hydro	ophytic vegetation and gy must be present.
Sandy Gle	eyed Matrix (S4)						wettand flydrolog	gy must be present.
Restrictive L	aver (if present).							
	ayer (ii present):							
Type:	ayer (ii present):							
							Hydric Soil Present	Yes No
Type: Depth (inc							Hydric Soil Present?	? Yes ● No ○
Type: Depth (inc Remarks:	hes):	NI WETI ANG	A LIVEDOLOGY INI	DICATORS	S AND LIVE	DODLIVI (C		? Yes ● No ○
Type: Depth (inc Remarks:		N WETLANI	O HYDROLOGY INI	DICATORS	S AND HYE	PROPHYTIC		? Yes • No O
Type: Depth (inc Remarks:	hes):	N WETLAND) HYDROLOGY INI	DICATORS	S AND HYE	PROPHYTIC		? Yes ● No ○
Type: Depth (inc Remarks:	hes):	N WETLANI	O HYDROLOGY INI	DICATORS	S AND HYE	ROPHYTIC		? Yes ● No ○
Type: Depth (inc Remarks: SSUME HYE	hes): DRIC SOILS BASED O	N WETLAND	O HYDROLOGY INI	DICATORS	S AND HYE	ROPHYTIC		? Yes • No O
Type:	hes):ORIC SOILS BASED O	N WETLANE) Hydrology ini	DICATORS	S AND HYE	ROPHYTIC		? Yes No
Type:	hes): DRIC SOILS BASED O				S AND HYE	PROPHYTIC	VEGETATION.	
Type:	hes):ORIC SOILS BASED O		1; check all that ar	(ylga	S AND HYE	ROPHYTIC	VEGETATION.	? Yes No ndicators (2 or more required)
Type:	hes): DRIC SOILS BASED O			(ylga	S AND HYE	PROPHYTIC	Secondary In	
Type:	hes):		1; check all that ar	pply) B11)	S AND HYD	ROPHYTIC	Secondary Ir	ndicators (2 or more required)
Type:	hes):		1; check all that an	oply) B11) (B12)		ROPHYTIC	Secondary Ir Water Mai	ndicators (2 or more required)_rks (B1) (Riverine)
Type:	hes):		d; check all that and Salt Crust (I	oply) B11) (B12) ertebrates ((B13)	ROPHYTIC	Secondary II Water Mai Sediment Drift Depo	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine)
Type:	hes):	one required	d: check all that ar Salt Crust (I Biotic Crust	oply) B11) (B12) ertebrates (ulfide Odor	(B13) (C1)		Secondary Ir Water Mar Sediment Drift Depo	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10)
Type:	y Irology Indicators: cators (minimum of covater (A1) er Table (A2) n (A3) urks (B1) (Nonriverine)	one required	d: check all that ar Salt Crust (I Biotic Crust Aquatic Invo	oply) B11) (B12) ertebrates (ulfide Odor izospheres	(B13) (C1) along Livinç		Secondary Ir Water Mai Sediment Drift Depo To Drainage I Dry Seaso	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2)
Type:	y Irology Indicators: cators (minimum of over (A1) er Table (A2) n (A3) urks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine)	one required	1; check all that an Salt Crust (I Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh	oply) B11) (B12) ertebrates (ulfide Odor uizospheres Reduced Ir	(B13) (C1) along Living ron (C4)	Roots (C3)	Secondary Ir Water Mai Sediment Drift Depo Dry Seaso Crayfish B	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2) urrows (C8)
Type:	y Irology Indicators: cators (minimum of over (A1) er Table (A2) n (A3) irks (B1) (Nonriverine) Deposits (B2) (Nonriverine) osits (B3) (Noneriverine) oil Cracks (B6)	one required	d: check all that ag Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron	oply) B11) (B12) ertebrates (ulfide Odor iizospheres F Reduced In Reduction	(B13) (C1) along Livinç ron (C4) in Plowed S	Roots (C3)	Secondary Ir Water Mai Sediment Drift Depo Drainage I Dry Seaso Crayfish B	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)
Type:	y Irology Indicators: cators (minimum of over (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) in Visible on Aerial Imag	one required	d: check all that ar Salt Crust (I Biotic Crust Aquatic Involution Approach S Oxidized Rh	oply) B11) (B12) ertebrates (ulfide Odor aizospheres Reduced In Reduction Surface (C7)	(B13) (C1) along Living ron (C4) in Plowed S	Roots (C3)	Secondary Ir Water Mai Sediment Drift Depo Dry Seaso Crayfish B Saturation Shallow A	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)
Type:	y Irology Indicators: cators (minimum of over (A1) er Table (A2) n (A3) urks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) en Visible on Aerial Imag	one required	d: check all that ag Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron	oply) B11) (B12) ertebrates (ulfide Odor aizospheres Reduced In Reduction Surface (C7)	(B13) (C1) along Living ron (C4) in Plowed S	Roots (C3)	Secondary II Water Mai Sediment Drift Depo Dry Seaso Crayfish B Saturation Shallow A	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)
Type:	prology Indicators: cators (minimum of oter (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) peposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Imagained Leaves (B9)	one required ine) ery (B7)	Salt Crust (I Salt Crust (I Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	oply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced In Reduction Surface (C7) ain in Rema	(B13) (C1) along Living ron (C4) in Plowed S	Roots (C3)	Secondary Ir Water Mai Sediment Drift Depo Dry Seaso Crayfish B Saturation Shallow A	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)
Type:	present? PRIC SOILS BASED O Prology Indicators: cators (minimum of or	one required ine) ery (B7) No •	Salt Crust (I Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	oply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced In Reduction Surface (C7) ain in Rema	(B13) (C1) along Living ron (C4) in Plowed S	Roots (C3)	Secondary Ir Water Mai Sediment Drift Depo Dry Seaso Crayfish B Saturation Shallow A	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)
Type:	y Irology Indicators: cators (minimum of over (A1) er Table (A2) n (A3) irks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) in Visible on Aerial Image ained Leaves (B9) rations: Present? Yes	one required ine) ery (B7) No •	Salt Crust (I Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	poply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced In Reduction Surface (C7) ain in Rema	(B13) (C1) along Living ron (C4) in Plowed S	Roots (C3)	Secondary Ir Water Mai Sediment Drift Depo Dry Seaso Crayfish B Saturation Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) sits (B3) Riverine) Patterns (B10) n Water Table (C2) urrows (C8) I Visible on Aerial Imagery (C9) quitard (D3) al Test (D5)
Type:	y Irology Indicators: cators (minimum of o Vater (A1) er Table (A2) n (A3) arks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) an Visible on Aerial Imag ained Leaves (B9) rations: Present? Yes	one required ine) ery (B7) No • No •	1: check all that ag Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	oply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced In Reduction Surface (C7) ain in Rema	(B13) (C1) along Living ron (C4) in Plowed S	Roots (C3)	Secondary Ir Water Mai Sediment Drift Depo Dry Seaso Crayfish B Saturation Shallow A	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)
Type:	y Irology Indicators: cators (minimum of or vater (A1) er Table (A2) n (A3) irks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) in Visible on Aerial Image ained Leaves (B9) rations: Present? Yes esent? Irresent? Irresent? Yes esent? Irresent? Irresent.	ine) Provided the second of t	B: check all that ag Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	poply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced In Reduction Surface (C7) ain in Rema	(B13) (C1) along Livinç ron (C4) in Plowed S) arks)	Roots (C3) oils (C6) Wetlar	Secondary II Water Mal Sediment Drift Depo Drainage I Dry Seaso Crayfish B Saturation Shallow Ar 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)
Type:	y Irology Indicators: cators (minimum of or Vater (A1) er Table (A2) n (A3) irks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) in Visible on Aerial Image inned Leaves (B9) rations: Present? Yes esent? Yes	ine) Provided the second of t	B: check all that ag Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	poply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced In Reduction Surface (C7) ain in Rema	(B13) (C1) along Livinç ron (C4) in Plowed S) arks)	Roots (C3) oils (C6) Wetlar	Secondary II Water Mal Sediment Drift Depo Drainage I Dry Seaso Crayfish B Saturation Shallow Ar 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)
Type:	y Irology Indicators: cators (minimum of or vater (A1) er Table (A2) n (A3) irks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) in Visible on Aerial Image ained Leaves (B9) rations: Present? Yes esent? Irresent? Irresent? Yes esent? Irresent? Irresent.	ine) Provided the second of t	B: check all that ag Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	poply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced In Reduction Surface (C7) ain in Rema	(B13) (C1) along Livinç ron (C4) in Plowed S) arks)	Roots (C3) oils (C6) Wetlar	Secondary II Water Mal Sediment Drift Depo Drainage I Dry Seaso Crayfish B Saturation Shallow Ar 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)
Type:	y Irology Indicators: cators (minimum of or vater (A1) er Table (A2) n (A3) irks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) in Visible on Aerial Image ained Leaves (B9) rations: Present? Yes esent? Irresent? Irresent? Yes esent? Irresent? Irresent.	ine) Provided the second of t	B: check all that ag Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	poply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced In Reduction Surface (C7) ain in Rema	(B13) (C1) along Livinç ron (C4) in Plowed S) arks)	Roots (C3) oils (C6) Wetlar	Secondary II Water Mal Sediment Drift Depo Drainage I Dry Seaso Crayfish B Saturation Shallow Ar 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)
Type:	y Irology Indicators: cators (minimum of or vater (A1) er Table (A2) n (A3) irks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) in Visible on Aerial Image ained Leaves (B9) rations: Present? Yes esent? Irresent? Irresent? Yes esent? Irresent? Irresent.	ine) Provided the second of t	B: check all that ag Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	poply) B11) (B12) ertebrates (ulfide Odor nizospheres Reduced In Reduction Surface (C7) ain in Rema	(B13) (C1) along Livinç ron (C4) in Plowed S) arks)	Roots (C3) oils (C6) Wetlar	Secondary II Water Mal Sediment Drift Depo Drainage I Dry Seaso Crayfish B Saturation Shallow Ar 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: Deachutes County LWI			City/County:	Sunriver/De	eschutes	Sampling Date	∍: 07-May-10	ı
Applicant/Owner: DESCHUTES COUNTY			_		State: OR	Sampling P	oint: S	P 222
Investigator(s): Sarah Hartung, Aaron B	ooy		Section, To	wnship, R	ange: S 31 T 2) S R 11	I E	
Landform (hillslope, terrace, etc.): V	alley bottom		Local relief	(concave,	convex, none): flat	Slop	oe: 0.0%	6 / 0.0
Subregion (LRR): LRR B		 Lat.: 43	8 8014		Long.: -121.4588		Datum: NA	D 83
-	0.1.0		0.0014		-	ication, DELIO	-	
oil Map Unit Name: 29A: Cryaquolls,			. Vaa	• No		ication: <u>PEMC</u>		
re climatic/hydrologic conditions on th		•			,		s • No	\cap
	or Hydrology	significantly			ormal Circumstances" pi			O
Are Vegetation $\;\sqcup\;$, Soil $\;\sqcup\;$, Summary of Findings - Atta	or Hydrology	naturally pro		•	eded, explain any answe		*	s atc
	Yes O No	nowing sai				Important		3, 610.
Hydric Soil Present?	Yes ○ No ●		Is the	Sampled A	rea yes ○ No •			
Wetland Hydrology Present?	Yes ○ No ●		within	a Wetland	1? Yes \cup No \odot			
Remarks:								
VEGETATION - Use scienti	ific names of pla	ants.	Dominant					
	·	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 I	AC:	2	(A)
2		0	0.0%		Tatal Namehou of Domina			
3		0	0.0%		Total Number of Dominal Species Across All Strata:		3	(B)
4			0.0%					
Sapling/Shrub Stratum (Plot size:)	0	= Total Cove	er	Percent of dominant S That Are OBL, FACW,		66.7%	(A/B)
1		0	0.0%		Prevalence Index work	sheet:		
2		0	0.0%		Total % Cover o	f: Multip	ly by:	_
3		0	0.0%		OBL speci es	0 x 1 =	0	
4		0	0.0%		FACW species	20 x 2 =	40	
5		0	0.0%		FAC speciles	50 x 3 =	150	
		0	= Total Cove	er	FACU speci es	30 x 4 =	120	
Herb Stratum (Plot size:)				UPL speci es	0 x 5 =	0	
1. Poa sp.			50.0%	FAC	Column Totals:1	00 (A)	310	(B)
Achillea millefolium Juncus balticus			✓ 20.0% ✓ 20.0%	FACU	Prevalence Index	_ D/A _	3.100	
. T			10.0%	FACU			3.100	
5			0.0%	17100	Hydrophytic Vegetation Dominance Test is			
6			0.0%		Prevalence Index			
7			0.0%					
8			0.0%		Morphological Ad data in Remarks of	aptations 1 🖫	rovide suppo :e sheet)	orting
9			0.0%		Problematic Hydro	-		lain)
10,		0	0.0%			opilytio regett	ition i (ipi	,
11,		0	0.0%		1			
		100	= Total Cove	er	1 Indicators of hydric be present, unless dist			y must
Woody Vine Stratum (Plot size:)					• •		
1			0.0%					
2			0.0%		Hydrophytic Vegetation			
		0	= Total Cove	er	Present? Yes	● No ○		
% Bare Ground in Herb Stratum: () %	6 Cover of Bioti	ic Crust ()					
Remarks:					1			
Poa sp. assumed FAC.								

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

Profile Desci	•	the depth ne				firm the a	absence of indicators.)	
Depth (inches)	Color (moist)		Color (moist)	dox Featu %	Type 1	Loc2	Texture	Remarks
			Color (Holst)		Туре	LUC-		Remarks
0-20	10YR 3/2			-			Silt Loam	
1 Type: C=Cor	ncentration. D=Depletion	n. RM=Reduce	ed Matrix, CS=Covere	ed or Coat	ted Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=	Matrix
Hydric Soil	Indicators: (Applical	ble to all LRR	s, unless otherwis	e noted.))		Indicators for Prob	ematic Hydric Soils: ³
Histosol (•		Sandy Redox	(S5)			1 cm Muck (A9) (LRR C)
	pedon (A2)		Stripped Matri	x (S6)			2 cm Muck (A10)	(LRR B)
Black Hist			Loamy Mucky	Mineral (F	1)		Reduced Vertic (F	18)
	Sulfide (A4)		Loamy Gleyed	Matrix (F.	2)		Red Parent Mater	ial (TF2)
	Layers (A5) (LRR C)		Depleted Matr	ix (F3)			Other (Explain in	Remarks)
l —	ck (A9) (LRR D)	11)	Redox Dark S	urface (F6)			
I — .	Below Dark Surface (A	11)	Depleted Dark	Surface ([F7)			
	k Surface (A12)		Redox depres	sions (F8)			³ Indicators of hydrop	shutic vogetation and
	uck Mineral (S1)		Vernal Pools (F9)			wetland hydrology	must be present.
-	eyed Matrix (S4)							
	ayer (if present):							
Type:							Hydric Soil Present?	Yes ○ No •
Depth (inc	hes):							103 0 100 0
Remarks:								
Hydrolog	у							
Wetland Hyd	drology Indicators:							
Primary Indi	cators (minimum of	one required	; check all that ap	(yla			Secondary Inc	licators (2 or more required)
Surface V	Vater (A1)		Salt Crust (E	311)			Water Mark	s (B1) (Riverine)
High Wat	er Table (A2)		Biotic Crust	(B12)			Sediment D	eposits (B2) (Riverine)
Saturation Saturation	` '		Aquatic Inve	ertebrates	(B13)		Drift Deposi	ts (B3) Riverine)
Water Ma	arks (B1) (Nonriverine)		Hydrogen S	ulfide Odo	r (C1)		Drainage Pa	itterns (B10)
Sediment	Deposits (B2) (Nonrive	rine)	Oxidized Rh	izospheres	s along Living	Roots (C3) Dry Season	Water Table (C2)
Drift depo	osits (B3) (Noneriverine)	Presence of	Reduced	Iron (C4)		Crayfish Bur	rows (C8)
	oil Cracks (B6)		Recent Iron	Reduction	n in Plowed S	oils (C6)	Saturation \	isible on Aerial Imagery (C9)
Inundatio	on Visible on Aerial Imaç	gery (B7)	Thin Muck S	Surface (C7	7)		Shallow Aqu	uitard (D3)
☐ Water-Sta	ained Leaves (B9)		U Other (Expla	ain in Rem	arks)		FAC-neutral	Test (D5)
Field Observ		_				1		
Surface Water			Depth (inc	hes):				
Water Table P	Present? Yes	O No •	Depth (inc	hes):				
Saturation Pre		O No ●	Depth (inc	hes):		Wetla	and Hydrology Present?	Yes ○ No •
(includes capil	corded Data (stream				evious inspe	ections), if	f available:	
	(<u> </u>	,	F		,,		
Remarks:								

Project/Site: Deachutes County LWI		City/County: Deschutes	Sampling Date: 07-May-10
Applicant/Owner: DESCHUTES COUNTY			State: OR Sampling Point: 223
nvestigator(s): Sarah Hartung, Aaron Booy		Section, Township, I	Range: S 31 T 20 S R 11 E
Landform (hillslope, terrace, etc.): Floodplain		Local relief (concave	, convex, none): convex Slope: 1.0% / 0.6
ubregion (LRR): LRR B	Lat.: 43		Long.: -121.4545 Datum: NAD 83
pil Map Unit Name: 29A: Cryaquolls, 0 to 3 pero		5.0000	NWI classification: PSSC
e climatic/hydrologic conditions on the site typic		? Yes • No	
re Vegetation , Soil , or Hydrolo			Normal Circumstances" present? Yes No
			F
re Vegetation 🔲 , Soil 🔲 , or Hydrolo	gy 🔲 naturally pro	oblematic? (If ne	eeded, explain any answers in Remarks.)
summary of Findings - Attach site	map showing sa	mpling point loc	eations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No O	In the Commission	Avec
Hydric Soil Present? Yes Yes	No O	Is the Sampled	Vac (Na (
Wetland Hydrology Present? Yes	No O	within a Wetlar	nd? Tes © NO C
Remarks:			
VEGETATION - Use scientific name	s of plants.	DominantSpecies?	
	Absolute	Rel.Strat. Indicato	r Dominance Test worksheet:
Tree Stratum (Plot size:	% Cover		Number of Dominant Species
1,		0.0%	That are OBL, FACW, or FAC:3(A)
2		0.0%	Total Number of Dominant
3 4.		0.0%	Species Across All Strata: 3 (B)
	0	= Total Cover	Percent of dominant Species
Sapling/Shrub Stratum (Plot size:)		That Are OBL, FACW, or FAC: 100.0% (A/B)
1. Salix geyeriana		✓ 100.0% FACW	Prevalence Index worksheet:
2		0.0%	Total % Cover of: Multiply by:
3		0.0%	OBL species x 1 =100
4. 5.		0.0%	FACW species x 2 =
J		0.0%	FAC speciles x 3 = 0
Herb Stratum (Plot size:)	50	= Total Cover	FACU species0 x 4 =0
1 Carex aquatilis	60	✓ 60.0% OBL	UPL species x 5 =
2. Carex nebrascensis	40	✓ 40.0% OBL	Column Totals: 150 (A) 200 (B)
3		0.0%	Prevalence Index = B/A = 1.333
4		0.0%	Hydrophytic Vegetation Indicators:
5		0.0%	Dominance Test is > 50%
6		0.0%	Prevalence Index is ≤3.0 1
7 8		0.0%	Morphological Adaptations 1 \(\frac{1}{a} \) rovide supporting data in Remarks or on a separate sheet)
9		0.0%	Problematic Hydrophytic Vegetation 1 (1 splain)
10		0.0%	Problematic Hydrophytic vegetation 1 (tpiani)
11		0.0%	1
	100	= Total Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		
1.		0.0%	
2			Hydrophytic Vegetation Present? Yes No
% Bare Ground in Herb Stratum: ()	0 % Cover of Biot	= Total Cover	Present? Yes No V

^{*}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 d	ocument	the indic	ator or co	nfirm the a	absence of indicators.)	
Depth		Matrix				lox Featu				
(inches)	Color (ı	moist)		Color (n	noist)	%	Type 1	Loc2	Texture	Remarks
0-7	10YR	3/2	80%	7.5YR	4/6	20%	C	M	Loam	
7-20	10YR	3/1	70%	7.5YR	4/6	30%	С	M	Clay Loam	
	<u>-</u>	-							-	
	-									
	-				-					
1 Type: C=Co	ncentration. [D=Depletio	n. RM=Reduc	ed Matrix, (CS=Covere	ed or Coate	ed Sand Gra	ains ² Loca	ation: PL=Pore Lining. M=N	Matrix
Hydric Soil	Indicators:	(Applicat	ole to all LRF	Rs, unless	otherwis	e noted.)			Indicators for Proble	ematic Hydric Soils: ³
Histosol ((A1)			Sand	dy Redox ((S5)			1 cm Muck (A9) (L	•
I — .	pedon (A2)			Strip	oped Matrix	x (S6)			2 cm Muck (A10)	•
Black His				Loar	my Mucky	Mineral (F	1)		Reduced Vertic (F	•
	n Sulfide (A4)			Loar	my Gleyed	Matrix (F2	2)		Red Parent Materia	al (TF2)
	Layers (A5) (Dep	leted Matri	ix (F3)			Other (Explain in F	Remarks)
	ck (A9) (LRR I	•	4)	✓ Red	ox Dark Su	ırface (F6)				
I — .	Below Dark S	•	1)	Dep	leted Dark	Surface (I	7)			
	rk Surface (A1	•		Red	ox depress	sions (F8)			³ Indicators of hydroph	nutic vogotation and
	uck Mineral (S			Verr	nal Pools (f	F9)			wetland hydrology	
<u> </u>	eyed Matrix (S									
Restrictive L	ayer (if pres	sent):								
Type:	1								Hydric Soil Present?	Yes ● No ○
Depth (inc	:nes):									
Remarks:										
Hydrolog	v									
Wetland Hyd										
Primary Ind		imum of	one required							cators (2 or more required)
	Water (A1)				alt Crust (B	,				(B1) (Riverine)
	er Table (A2)				otic Crust ((540)			posits (B2) (Riverine)
Saturatio		!!\			quatic Inve					s (B3) Riverine)
	arks (B1) (Nor	•	rin a)		ydrogen Su			a Doots (C2	Drainage Pat	• •
	t Deposits (B2 osits (B3) (No				esence of	•	along Livin	y Roots (Ca		Vater Table (C2)
	Soil Cracks (Bé)				in Plowed S	Soile (C4)	Crayfish Burr	ows (C8) sible on Aerial Imagery (C9)
	on Visible on A	,	ion/ (P7)		nin Muck S			ouis (Co)	✓ Saturation Vi Shallow Aqui	5 3 . ,
	ained Leaves		jery (b/)		ther (Expla				FAC-neutral	` '
		(67)			пот (Ехріа		ai K3)		▼ TAC-Heutral	Test (D3)
Field Observ		Yes	O No 🖲) ,	Depth (incl	hoo).		7		
Surface Water					Depth (inci	nes):				
Water Table F		Yes		-	Depth (incl	hes):		\MotIs	and Hydrology Present?	Yes ● No ○
Saturation Pre (includes capi		Yes	O No 🖲	' I	Depth (incl	hes):		wetia	and Hydrology Present?	res C NO C
Describe Re		(stream	gauge, mor	nitor well,	aerial pho	otos, pre	vious insp	ections), if	f available:	
		•		· · ·				,,		
Remarks:										

Project/Site: Deschutes County LWI		City/County:	Sunriver/De	eschutes	Sampling Date	e: 06-May-10	0
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sampling P	oint:S	SP 400
Investigator(s): John Gordon		Section, To	wnship, R	ange: S 34 T_	20 S R 10) E	
Landform (hillslope, terrace, etc.): OXDOW		Local relief	(concave,	convex, none): concave	Slop	oe: 0.09	<u>%</u> /0.0
Gubregion (LRR): LRR B	Lat.: 43	3.7908		Long.: -121.5198		Datum: N	AD 83
oil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 per	ent slopes			NWI class	ification:		
e climatic/hydrologic conditions on the site typical for this		? Yes	● No ○	(If no, explain in	Remarks.)		
Are Vegetation , Soil , or Hydrology	significantly	disturbed?	Are "N	lormal Circumstances"	resent? Ye	s 💿 No	
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?		eded, explain any answ)	
Summary of Findings - Attach site map sho							es, etc.
Hydrophytic Vegetation Present? Yes No					<u> </u>		•
Hydric Soil Present? Yes ● No ○			Sampled A	Vaa 📵 Na 🔾			
Wetland Hydrology Present? Yes ● No ○		within	a Wetland	1? res 🔾 140 🔾			
Remarks:							
In oxbow south of Fall River.							
VEGETATION - Use scientific names of plan	its.	DominantSpecies?					
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test work	sheet:		
1. Pinus contorta	10	1 00.0%	FAC	Number of Dominant Sp That are OBL, FACW, or		4	(A)
2.	0	0.0%					.,
3	0	0.0%		Total Number of Domina Species Across All Strata		4	(B)
4	0	0.0%					. ,
Sapling/Shrub Stratum (Plot size:	10	= Total Cove	er	Percent of dominant That Are OBL, FACW		100.0%	(A/B)
1. Salix geyeriana	15	✓ 60.0%	FACW	Prevalence Index wor	ksheet:		
2. Betula glandulosa	10	40.0%	OBL	Total % Cover	of: Multip	ly by:	
3	0	0.0%		OBL speci es	100 x 1 =	100	_
4 5.		0.0%		FACW species	15 x 2 =		-
J	0	0.0%		FAC speciles	10 x 3 =		_
Herb Stratum (Plot size:	25	= Total Cove	er	FACU speci es	0 x 4 =	0	-
1 Carex aquatilis	80	✓ 88.9%	OBL	UPL speci es —	х 5 =		_
2. Carex nebrascensis	10	11.1%	OBL	Column Totals:	125 (A)	160	_ (B)
3	0	0.0%		Prevalence Index	c = B/A =	1.280	
4		0.0%		Hydrophytic Vegetation	on Indicators:		
5		0.0%		✓ Dominance Test	_		
6		0.0%		✓ Prevalence Inde	k is ≤3.0 ¹		
78		0.0%		Morphological Addata in Remarks	daptations 1 (1)	rovide supp	oorting
9		0.0%			•	•	
10.		0.0%		Problematic Hyd	rophytic Vegeta	ation 1 (' k	olain)
11		0.0%					
	90	= Total Cove	er	1 Indicators of hydric be present, unless dis			gy must
Woody Vine Stratum (Plot size:				p			
1	0	0.0%					
2		0.0%		Hydrophytic Vegetation	0 0		
	0	= Total Cove	er	Present? Yes	● No ○		

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

Profile Desc	ription: (Des		the depth nee				nfirm the a	absence of indicators.)	
Depth		Matrix			dox Featu		1 . 2		B I
(inches)	Color (ı			Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	7.5YR	2.5/1						organic	
14-20	7.5YR	3/2	100%					organic	
					-				
									_
1 Type: C=Co	ncentration. D	=Depletio	n. RM=Reduced	Matrix, CS=Cover	ed or Coat	ted Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=	Matrix
Hydric Soil	Indicators:	(Applicat	ole to all LRRs	, unless otherwis	e noted.))		Indicators for Probl	ematic Hydric Soils: ³
✓ Histosol ((A1)			Sandy Redox	(S5)			1 cm Muck (A9) (•
I — .	pedon (A2)			Stripped Matr	ix (S6)			2 cm Muck (A10)	•
Black His				Loamy Mucky	Mineral (F	- 1)		Reduced Vertic (F	• •
_ , ,	n Sulfide (A4)			Loamy Gleyed	l Matrix (F	2)		Red Parent Mater	<i>'</i>
	Layers (A5) (Depleted Mati	rix (F3)			Other (Explain in	• •
	ck (A9) (LRR I			Redox Dark S	urface (F6)			,
	Below Dark S		1)	Depleted Dark	Surface ((F7)			
	rk Surface (A1	•		Redox depres	sions (F8)			3	
	uck Mineral (S			☐ Vernal Pools ((F9)			³ Indicators of hydrop wetland hydrology	hytic vegetation and must be present
Sandy Gle	eyed Matrix (S	64)							act Do processit
Restrictive L	ayer (if pres	sent):							
Type:								Undein Cail Decount?	Yes ● No ○
Depth (inc	ches):							Hydric Soil Present?	Yes S NO C
Remarks:									
Depths appro	oximate; soi	l very we	t and unconso	olidated except 0	-14" is ve	ery full of r	oots maki	ng extraction of sample	difficult
Livelesism									
Hydrolog	у								
Wetland Hyd	drology Indi	cators:							
Primary Indi	icators (min	imum of	one required;	check all that an	(ylac			Secondary Inc	licators (2 or more required)
Surface V	` ,			Salt Crust (F	311)			Water Mark	s (B1) (Riverine)
✓ High Wat				Biotic Crust	(B12)			Sediment D	eposits (B2) (Riverine)
✓ Saturation	, ,			Aquatic Inve	ertebrates	(B13)		Drift Deposi	ts (B3) Riverine)
Water Ma	arks (B1) (Nor	riverine)		Hydrogen S	ulfide Odo	r (C1)		Drainage Pa	tterns (B10)
Sediment	t Deposits (B2) (Nonrive	rine)	Oxidized Rh	izospheres	s along Living	g Roots (C3	B) Dry Season	Water Table (C2)
Drift depo	osits (B3) (No	neriverine))	Presence of	Reduced	Iron (C4)		Crayfish Bur	rows (C8)
Surface S	Soil Cracks (Bé	b)		Recent Iron	Reduction	n in Plowed S	Soils (C6)	Saturation V	isible on Aerial Imagery (C9)
Inundatio	on Visible on A	Aerial Imag	jery (B7)	Thin Muck S	Surface (C	7)		Shallow Aqu	itard (D3)
☐ Water-Sta	ained Leaves	(B9)		U Other (Explanation	ain in Rem	arks)		FAC-neutral	Test (D5)
Field Observ	ations:						_		
Surface Water	r Present?	Yes	● No ○	Depth (inc	ches):	1			
Water Table P	Present?	Yes	● No ○	Depth (inc	hes).	0			
Saturation Pre	esent?	Yes			_		Wetla	and Hydrology Present?	Yes 💿 No 🔾
(includes capi	llary fringe)			Depth (inc		0			
Describe Re	corded Data	(stream	gauge, monit	or well, aerial ph	otos, pre	evious inspe	ections), if	f available:	
Remarks:									
Surface water	er varies, to	2 inches	deep to 1 inc	h near pit.					

Project/Site: Deschutes County LWI		City/County:_S	unriver/De	eschutes	Samplii	ng Date: 06	-May-10	
Applicant/Owner: DESCHUTES COUNTY		-		State: OR	Sam	pling Point:	SP	402
Investigator(s): John Gordon		Section, Tow	nship, Ra	nge: S 30	T 20 S	R 11 E		
Landform (hillslope, terrace, etc.): Floodplain		Local relief (c	oncave, c	convex, none): CONC	ave	Slope:	1.0%	/ 0.6
Subregion (LRR): LRR B	Lat.: 43			Long.: -121.4514		 Dat	um: NAD	3 83
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes		.0107		-	assification:			
e climatic/hydrologic conditions on the site typical for this t	imo of voar?	Vac	● No C					
	ime or year: ignificantly			ormal Circumstance			No C	\supset
					•		110	
Are Vegetation $\ igsqcup$, Soil $\ igsqcup$, or Hydrology $\ igsqcup$ n Summary of Findings - Attach site map sho	aturally prob			ded, explain any and			atures	etc
Hydrophytic Vegetation Present? Yes • No		pg po						, 010.
Hydric Soil Present? Yes • No		Is the Sa	ampled A					
		within a	Wetland	? Yes • No)			
Remarks:								
VEGETATION - Use scientific names of plant	ts.	Dominant						
Two Startum (Diet size)	Absolute % Cover	Species? — Rel.Strat. II Cover S	ndicator tatus	Dominance Test w	orksheet:			
Tree Stratum (Plot size:	_	0.0%	latus	Number of Dominant			า	(4)
1. 2.		0.0%		That are OBL, FACW	, or fac:	-	2	(A)
2	0	0.0%		Total Number of Dor			2	(D)
34.	0	0.0%		Species Across All St	rata:		2	(B)
-	0	= Total Cover		Percent of domina	int Species	100	00/	
Sapling/Shrub Stratum (Plot size:				That Are OBL, FAC	CW, or FAC:		.0%	(A/B)
1. Salix geyeriana	30	✓ 100.0% F	ACW	Prevalence Index v	worksheet:			
2	0	0.0%		Total % Cov	er of:	Multiply by	:	_
3	0	0.0%		OBL speci es	80	x 1 = _	80	
4	0	0.0%		FACW species	30	x 2 = _	60	
5	0	0.0%		FAC speci es	0	x 3 = _	0	
Herb Stratum (Plot size:	30	= Total Cover		FACU species		x 4 = _	0	
1 Carey aguatilis	75	✓ 93.8% (OBL	UPL speci es	0	x 5 = _	0	
Carex aquatilis Carex nebrascensis			OBL OBL	Column Totals:	110	(A) _	140	(B)
2. Carex nebrascensis 3.		0.0%	JDL	Prevalence In	dex = B/A :	= 1.3	273	
4		0.0%		Hydrophytic Veget				
5		0.0%		✓ Dominance Te				
6		0.0%		✓ Prevalence In				
7	0	0.0%		Morphologica	I Adaptatio	ns 1 ¹ rovio	le supnoi	rtina
8		0.0%		data in Remai	rks or on a s	eparate sh	eet)	. 3
9		0.0%		Problematic H	lydrophytic	Vegetation	1 (¹ (pla	ain)
10		0.0%						
11,		= Total Cover		1 Indicators of hyd	dric soil and	wetland h	ydrology	must
Woody Vine Stratum (Plot size:	<u>80</u>	- rotal cover		be present, unless	disturbed o	or problema	tic.	
1.	0	0.0%						
	0	0.0%		Hydrophytic				
∠.				Vegetation	es 💿 No	\sim		
2	Ω	= lotal cover		Drocont?	E2 🕝 141			
	0 over of Bioti	= Total Cover		Present? Y	es 🙂 NC	,		

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

Profile Descr	ription: (Des		ne deptir ne	cucu to t					D3CHCC OF HIC			
Depth	0-1	Matrix		0-1 (ox Featu		1 2	T4		Damanta	
(inches)	Color (n			Color (moist)	%	Type 1	Loc ²	Texture		Remarks many roots	
0-3	7.5YR	2.5/2				-			Sandy Loam		many 100ts	
3-12	7.5YR	3/2							Silt			
12-20	7.5YR	3/1	95%	7.5YR	3/3	5%	C	PL	Sandy Loam			
1 Type: C=Cor		•						ins ² Loca	tion: PL=Pore	Lining. M=N	Matrix	
Hydric Soil I		(Applicab	le to all LRF						Indicator	s for Probl	ematic Hydric Soils: ³	
Histosol (ndy Redox (Muck (A9) (L	·	
Black Hist	pedon (A2)				ipped Matrix		- >			Muck (A10)	` ,	
	Sulfide (A4)				amy Mucky				Reduc	ed Vertic (F	18)	
	Layers (A5) (I	RR C)			amy Gleyed		2)			arent Materi	, ,	
	ck (A9) (LRR D				pleted Matri				✓ Other	(Explain in I	Remarks)	
_	Below Dark S	,	1)		dox Dark Su							
	k Surface (A1		•		pleted Dark		-/)					
Sandy Mu	ıck Mineral (S	1)			dox depress				3 Indicator	s of hydrop	hytic vegetation and	
	eyed Matrix (S			∟ ver	rnal Pools (F	.9)			wetland	d hydrology	must be present.	
		am#\.										
Restrictive L	aver (II bres	enu:										
Restrictive L	ayer (ii pres	ent):										
Type:		ent):							Hydric Soil	Present?	Yes No	
Type: Depth (inc		enty:							Hydric Soil	Present?	Yes ● No ○	
Type: Depth (inc Remarks:	hes):		-DOLOTENIT	CATUDA	TION				Hydric Soil	Present?	Yes ● No ○	
Type: Depth (inc	hes):		ERSISTENT	SATURA ⁻	TION.				Hydric Soil	Present?	Yes No	
Type: Depth (inc Remarks:	hes):		ERSISTENT	SATURA	TION.				Hydric Soil	Present?	Yes ● No ○	
Type: Depth (inc Remarks:	hes):		ERSISTENT	SATURA	TION.				Hydric Soil	Present?	Yes ● No ○	
Type: Depth (inc Remarks: SSUME HYD	hes):		ERSISTENT	SATURA ⁻	TION.				Hydric Soil	Present?	Yes No	
Type: Depth (inc Remarks: .SSUME HYD	hes): DRIC SOILS	BASED PI	ERSISTENT	SATURA	TION.				Hydric Soil	Present?	Yes No	
Type: Depth (inc Remarks: SSUME HYD	hes): DRIC SOILS Y Irology Indic	BASED PI				alv)						.ed)
Type:	hes): DRIC SOILS Y Irology Indic cators (mini	BASED PI		l; check a	all that ap				Seco	ondary Ind	icators (2 or more requi	
Type:	hes):	BASED PI		d; check a	all that api	11)			Seco	ondary Ind Water Marks	icators (2 or more requi (B1) (Riverine)	red)
Type:	hes):	BASED PI		l; check a	all that api alt Crust (B Biotic Crust (11) [B12)	(B13)		Secc	ondary Ind Water Marks Sediment De	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine)	red)
Type:	y Irology Indicators (minivater (A1) er Table (A2) in (A3)	BASED PI		d: check a	all that app alt Crust (B Biotic Crust (11) [B12) rtebrates			Secc	ondary Ind Water Marks Sediment De Drift Deposit	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine)	red)
Type:	y Irology Indicators (minivater (A1) er Table (A2) in (A3) irks (B1) (Non	BASED PI	one requirec	1; check a	all that api alt Crust (B siotic Crust (quatic Inve lydrogen Su	11) [B12) rtebrates Ilfide Odor	(C1)	a Roots (C3)	Seco	ondary Ind Water Marks Sediment De Drift Deposit Drainage Pat	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10)	red)
Type:	y Irology Indicators (minivater (A1) er Table (A2) in (A3) urks (B1) (Non Deposits (B2)	BASED PI cators: mum of c	one required	I; check a	all that applicate Crust (Biotic Crust (Inquatic Inve	11) [B12) rtebrates Ilfide Odor zospheres	(C1) along Living	g Roots (C3)	Seco	ondary Ind Water Marks Sediment De Drift Deposit Drainage Pai	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2)	red)
Type:	y Irology Indicators (minivater (A1) er Table (A2) n (A3) urks (B1) (Non Deposits (B2) osits (B3) (Nor	BASED PI cators: mum of of riverine) (Nonriver neriverine)	one required	I; check a	all that applicant Crust (Bushington, Crust (Auguatic Inversed Rhizer)	11) (B12) rtebrates Ilfide Odor zospheres Reduced I	(C1) along Living ron (C4)		Secco	ondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V Crayfish Buri	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8)	
Type:	y Irology Indicators (minivater (A1) er Table (A2) n (A3) urks (B1) (Non Deposits (B2) osits (B3) (Noi oil Cracks (B6)	BASED PI cators: mum of (inverine) inverine) inveriverine)	one required	i; check a	all that appliant Crust (Belotic Crust (Auguatic Inversed Rhizer) Dividized Rhizer Cresence of Recent Iron	11) (B12) rtebrates Ilfide Odor zospheres Reduced I	along Living ron (C4) in Plowed S		Secco	ondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V Crayfish Buri Saturation V	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9	
Type:	y Irology Indicators (minivater (A1) er Table (A2) in (A3) urks (B1) (Non Deposits (B2) posits (B3) (Non oil Cracks (B6 in Visible on A	BASED PI sators: mum of (riverine)) (Nonriver neriverine)) erial Imag	one required	1; check 3	all that applicate Crust (Bushington, Crust (Bushington, Crust) advantic Inverse of Crust (Bushington, Crust) by the country of the Crust (Bushington, Crust) country of the country of the Crust (Bushington, Crust) country of the country of th	11) (B12) rtebrates Ilfide Odor zospheres Reduced I Reduction urface (C7	c (C1) along Living ron (C4) in Plowed S		Secc	ondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V Crayfish Buri Saturation V Shallow Aqu	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9	
Type:	y Irology Indicators (minivater (A1) er Table (A2) n (A3) arks (B1) (Non Deposits (B2) osits (B3) (Noi oil Cracks (B6 en Visible on A	BASED PI sators: mum of (riverine)) (Nonriver neriverine)) erial Imag	one required	1; check 3	all that appliant Crust (Belotic Crust (Auguatic Inversed Rhizer) Dividized Rhizer Cresence of Recent Iron	11) (B12) rtebrates Ilfide Odor zospheres Reduced I Reduction urface (C7	c (C1) along Living ron (C4) in Plowed S		Secc	ondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V Crayfish Buri Saturation V	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9	
Type:	y Irology Indicators (minivater (A1) er Table (A2) n (A3) urks (B1) (Non Deposits (B2) osits (B3) (Nor oil Cracks (B6 un Visible on A ained Leaves (attions:	BASED PI cators: mum of (neriverine)) (Nonriverineriverine)) erial Imag (B9)	one required rine) ery (B7)	1; check a	all that applicant Crust (Bushington, Crust (Augustic Inversed Presence of Becent Iron Chin Muck Subther (Expla	11) (B12) rtebrates Ilfide Odor zospheres Reduced I Reduction urface (C7	c (C1) along Living ron (C4) in Plowed S		Secc	ondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V Crayfish Buri Saturation V Shallow Aqu	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9	
Type:	y Irology Indicators (minivater (A1) er Table (A2) in (A3) irks (B1) (Non Deposits (B2) iosits (B3) (Nor ioil Cracks (B6 in Visible on A ained Leaves (irations:	BASED PI cators: mum of (inverine) inverine(inverine) inverine	one required rine) ery (B7)	I; check a	all that applicate Crust (Bushington, Crust (Bushington, Crust) advantic Inverse of Crust (Bushington, Crust) by the country of the Crust (Bushington, Crust) country of the country of the Crust (Bushington, Crust) country of the country of th	11) (B12) rtebrates Ilfide Odor zospheres Reduced I Reduction urface (C7	along Living ron (C4) in Plowed S) arks)		Secc	ondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V Crayfish Buri Saturation V Shallow Aqu	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9	
Type:	y Irology Indicators (minivater (A1) er Table (A2) in (A3) erks (B1) (Non Deposits (B2) esits (B3) (Non oil Cracks (B6 en Visible on A ained Leaves (erations: Present?	riverine) (Nonriverine) erial Imag (B9) Yes	one required rine) ery (B7) No No No No No No No No No No	; check a S S B A C C C C C C C C C	all that applicant Crust (Bushington, Crust (Augustic Inversed Presence of Becent Iron Chin Muck Subther (Expla	11) (B12) rtebrates lifide Odor zospheres Reduced I Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed S	doils (C6)	Secco	ondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V Crayfish Buri Saturation V Shallow Aqu FAC-neutral	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9 itard (D3) Test (D5)	
Type:	y Irology Indicators (minivater (A1) er Table (A2) in (A3) irks (B1) (Non Deposits (B2) iosits (B3) (Non oil Cracks (B6 in Visible on A ained Leaves (irations: iresent?	BASED PI cators: mum of (inverine) inverine(inverine) inverine	one required rine) ery (B7) No No No No No No No No No No	; check a S S B A C C C C C C C C C	all that applicate Crust (Business (11) (B12) rtebrates Iffide Odor zospheres Reduced I Reduction urface (C7 in in Remaines):	along Living ron (C4) in Plowed S) arks)	doils (C6)	Secc	ondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V Crayfish Buri Saturation V Shallow Aqu FAC-neutral	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9	
Type:	y Irology Indicators (minivater (A1) er Table (A2) in (A3) irks (B1) (Non Deposits (B2) iosits (B3) (Nor ioil Cracks (B6 in Visible on A ained Leaves (irations: iresent? iresent? iresent? ilary fringe)	riverine) (Nonriverine) (Nonriverine) erial Imag (B9) Yes Yes	one required rine) ery (B7) No No No No No No No No	1; check a S S B A C C C C C C C C C	all that applicate Crust (Business Crust (Business Crust (Business Crust (Business Crust) (ntebrates Iffide Odor zospheres Reduced I Reduction urface (C7 in in Remaines): mes):	along Living ron (C4) in Plowed S) arks)	Soils (C6)	Second Se	ondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V Crayfish Buri Saturation V Shallow Aqu FAC-neutral	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9 itard (D3) Test (D5)	
Type:	y Irology Indicators (minivater (A1) er Table (A2) in (A3) irks (B1) (Non Deposits (B2) iosits (B3) (Nor ioil Cracks (B6 in Visible on A ained Leaves (irations: iresent? iresent? iresent? ilary fringe)	riverine) (Nonriverine) (Nonriverine) erial Imag (B9) Yes Yes	one required rine) ery (B7) No No No No No No No No	1; check a S S B A C C C C C C C C C	all that applicate Crust (Business Crust (Business Crust (Business Crust (Business Crust) (ntebrates Iffide Odor zospheres Reduced I Reduction urface (C7 in in Remaines): mes):	along Living ron (C4) in Plowed S) arks)	Soils (C6)	Second Se	ondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V Crayfish Buri Saturation V Shallow Aqu FAC-neutral	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9 itard (D3) Test (D5)	
Type:	y Irology Indicators (minivater (A1) er Table (A2) in (A3) irks (B1) (Non Deposits (B2) iosits (B3) (Nor ioil Cracks (B6 in Visible on A ained Leaves (irations: iresent? iresent? iresent? ilary fringe)	riverine) (Nonriverine) (Nonriverine) erial Imag (B9) Yes Yes	one required rine) ery (B7) No No No No No No No No	1; check a S S B A C C C C C C C C C	all that applicate Crust (Business Crust (Business Crust (Business Crust (Business Crust) (ntebrates Iffide Odor zospheres Reduced I Reduction urface (C7 in in Remaines): mes):	along Living ron (C4) in Plowed S) arks)	Soils (C6)	Second Se	ondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V Crayfish Buri Saturation V Shallow Aqu FAC-neutral	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9 itard (D3) Test (D5)	
Type:	y Irology Indicators (minivater (A1) er Table (A2) in (A3) irks (B1) (Non Deposits (B2) iosits (B3) (Nor ioil Cracks (B6 in Visible on A ained Leaves (irations: iresent? iresent? iresent? ilary fringe)	riverine)) (Nonriver neriverine)) erial Imag (B9) Yes (Yes (Stream	one required rine) ery (B7) No No No gauge, mon	I; check a	all that appliant Crust (Biotic Crust (Augustic Inverse Presence of Presence of Presence of Presence (Explain Depth (inchamber) Depth (inc	ntebrates Iffide Odor Zospheres Reduced I Reduction Larface (C7 in in Remaines): Lenes): Lenes	along Living ron (C4) in Plowed S) arks) 6 0	Soils (C6)	Second Se	ondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V Crayfish Buri Saturation V Shallow Aqu FAC-neutral	icators (2 or more requi (B1) (Riverine) eposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9 itard (D3) Test (D5)	

Project/Site: Deschutes County LWI		City/County:	Sunriver/De	eschutes	Samp	oling Date: 06	-May-10
Applicant/Owner: DESCHUTES COUNTY		-		State: OR	Sa	mpling Point:	SP 403
Investigator(s): John Gordon		Section, Tow	nship, Ra	ange: S 30	T 20 S	R 11 E	
Landform (hillslope, terrace, etc.):		Local relief (d	oncave, o	convex, none):		Slope:	0.0% / 0.0
Subregion (LRR): LRR B	Lat.: 43	.8178		Long.: -121.45	64	Dat	um: NAD 83
-				-	classification		· ···
ioil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 per e climatic/hydrologic conditions on the site typical for thi		Voc	• No C		lain in Rema		
Are Vegetation, Soil, or Hydrology	significantly of			ormal Circumstar			No O
					•		110
Are Vegetation	naturally prol			eded, explain any			atumos ata
Summary of Findings - Attach site map s	nowing sar	npling poi	nt ioca	itions, trans	ects, imp	ortant lea	atures, etc.
Hydrophytic Vegetation Present? Yes No		Is the S	ampled A	rea			
Hydric Soil Present? Yes No •		within a	Wetland	_? Yes O No	o		
Wetland Hydrology Present? Yes No No							
Remarks:							
No access to wetland to the west. Vegetation communit	y is similar, exc	cept it has larg	e patches	s of Juncus baltic	us.		
VEGETATION - Use scientific names of pla	ints.	Dominant					
Tree Stratum (Plot size:	Absolute % Cover	Species? — Rel.Strat. I Cover S	ndicator status	Dominance Tes	t worksheet	:	
1.		0.0%	ratus	Number of Domir That are OBL, FA			1 (A)
2.		0.0%		That are OBL, TA	CW, OF TAC.		<u> </u>
3		0.0%		Total Number of			2 (B)
4.		0.0%		Species Across Al	ı sırata.		(b)
Sapling/Shrub Stratum (Plot size:)	0	= Total Cover		Percent of dom That Are OBL,		- ΓΛ	0% (A/B)
1.	0	0.0%		Prevalence Inde	ex workshee	t:	
2	0	0.0%		Total % C	Cover of:	Multiply by	:
3	0	0.0%		OBL species	0	x 1 =	0
4	0	0.0%		FACW species	35	x 2 =	70
5	0	0.0%		FAC species	25	x 3 = _	75
	0	= Total Cover		FACU speciles	30	x 4 = _	120
Herb Stratum (Plot size:	0.5	2 22 224		UPL species	0	x 5 = _	0
1 Juncus balticus	35		FACU	Column Totals	g 90	(A)	265 (B)
2 Achillea millefolium 3 Poa sp.	- 45		FACUFAC	Prevalence	Index = B/	A = 2.9	944
Poa sp. Taraxacum officinale			FACU			-	
5. Agropyron repens	- 10		FAC	Hydrophytic Veg	e Test is > 5		
6.		0.0%		✓ Prevalence			
7	0	0.0%				ions 1 ¹ . 'rovic	lo supporting
8,		0.0%		data in Rer	marks or on	a separate sh	eet)
9		0.0%		Problemati	ic Hydrophyt	ic Vegetation	1 (¹ (plain)
10,		0.0%					
11,		0.0%		1 Indicators of	hvdric soil a	nd wetland h	ydrology must
Mondy Vine Stratum (Diet size)	90	= Total Cover		be present, unl	ess disturbe	d or problema	tic.
Woody Vine Stratum (Plot size:)	2						
1		0.0%		Hydrophytic			
2				Vegetation	Yes 💿	No O	
	0	= Total Cover		Present?	res 🍮	NO U	
% Bare Ground in Herb Stratum: 10 %	Cover of Biotic						

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

Profile Descr	iption: (Des		the depth ne				nfirm the a	absence of indicators.)	
Depth	0-1 (-	Matrix			dox Feat		1 3	Tt	Damada
(inches)	Color (ı		<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR	2/2	100%					Sand	
4-8	10YR	4/2	100%					Sand	
8-20	10YR	6/2						Sand	
								-	
1 Type: C=Con	centration. D	=Depletio	n. RM=Reduc	ed Matrix, CS=Cover	ed or Coa	ted Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=	Matrix
Hydric Soil I	ndicators:	(Applical	ble to all LRF	Rs, <u>un</u> less otherwis	e noted.))		Indicators for Prob	ematic Hydric Soils: ³
Histosol (A	A1)			Sandy Redox	(S5)			1 cm Muck (A9) (LRR C)
	pedon (A2)			Stripped Matr	ix (S6)			2 cm Muck (A10)	(LRR B)
Black Hist				Loamy Mucky	Mineral (- 1)		Reduced Vertic (F	18)
	Sulfide (A4)	I DD C)		Loamy Gleyed	l Matrix (F	2)		Red Parent Mater	ial (TF2)
	Layers (A5) (Depleted Mati	rix (F3)			Other (Explain in	Remarks)
	k (A9) (LRR I	•	11)	Redox Dark S	urface (F6)			
	Below Dark S k Surface (A1		11)	Depleted Dark	Surface ((F7)			
	ck Mineral (S	•		Redox depres	sions (F8)			³ Indicators of hydrop	shytic vegetation and
	eyed Matrix (S			Vernal Pools ((F9)			wetland hydrology	
Restrictive La	ayer (if pres	sent):							
Type:								Hydric Soil Present?	Yes ○ No •
Depth (inch	nes):								
Remarks:									
Hydrology									
nyar ology	<i>y</i>								
Wetland Hyd	rology Indi	cators:							
Primary India	cators (min	imum of	one required	d; ch <u>eck all that ar</u>	(ylac			Secondary Inc	licators (2 or more required)
Surface W	/ater (A1)			Salt Crust (E	311)			Water Mark	s (B1) (Riverine)
High Wate	er Table (A2)			Biotic Crust	(B12)			Sediment D	eposits (B2) (Riverine)
Saturation	n (A3)			Aquatic Inve	ertebrates	(B13)		Drift Deposi	ts (B3) Riverine)
Water Mai	rks (B1) (Nor	nriverine)		Hydrogen S	ulfide Odo	r (C1)		Drainage Pa	itterns (B10)
Sediment	Deposits (B2) (Nonrive	rine)	Oxidized Rh	izosphere	s along Livin	g Roots (C3	B) Dry Season	Water Table (C2)
Drift depo	sits (B3) (No	neriverine)	Presence of	Reduced	Iron (C4)		Crayfish Bur	rows (C8)
Surface So	oil Cracks (Bé	b)		Recent Iron	Reduction	n in Plowed S	Soils (C6)	Saturation \	isible on Aerial Imagery (C9)
Inundation	n Visible on A	Aerial Imaç	gery (B7)	Thin Muck S	Surface (C	7)		Shallow Aqu	iitard (D3)
■ Water-Sta	ined Leaves	(B9)		Other (Expl	ain in Rem	arks)		FAC-neutral	Test (D5)
Field Observa	ations:								
Surface Water	Present?	Yes	O No 🖲	Depth (inc	ches):				
Water Table Pr	resent?	Yes	O No €) Depth (inc	hes).		1		
Saturation Pres							Wetla	and Hydrology Present?	Yes ○ No •
(includes capill		Yes	O No 🖲	Depth (inc	ches):				
Describe Rec	orded Data	(stream	gauge, mor	nitor well, aerial ph	otos, pre	evious insp	ections), i	f available:	
Remarks:									
Soil is very w	ell drained,	porous,	slightly moi	st.					
•			=						

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Deschutes County LWI		City/County:_	Sunriver/De	eschutes	Sampling D	ate: 07-May	<i>-</i> 10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sampling	Point:	SP 404
Investigator(s): John Gordon		Section, To	vnship, Ra	ange: S 6	 Г 21 S R	 11 E	
Landform (hillslope, terrace, etc.): Floodplain			-	convex, none): conca			_ .0% / 0.6
Subregion (LRR): LRR B	Lat.: 43		•	Long.: -121.4623			NAD 83
		.7073			scification, DCC		
oil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes		. Voc	● No ○		ssification: PSS	<u>sc</u>	
e climatic/hydrologic conditions on the site typical for this re Vegetation	-			,		Yes I	No O
	significantly			ormal Circumstances	•		10 ©
re Vegetation U , Soil U , or Hydrology U Summary of Findings - Attach site map sh	naturally pro			eded, explain any ans			ros oto
	Owing Sai		IIII IUCa	itions, transect	.s, importa	iii ieatu	ies, etc.
Hydrophytic Vegetation Present? Yes No O		Is the S	Sampled A	rea			
Hydric Soil Present? Yes No O		within	a Wetland	_? Yes 💿 No 🗆)		
Wetland Hydrology Present? Yes No							
Remarks:							
VEGETATION - Use scientific names of plan	ntc.	Dominant					
- Use scientific flames of plai		Species? _		·			
Tree Stratum (Plot size:	Absolute % Cover	_	Indicator Status	Dominance Test wo			
1,	0	0.0%		Number of Dominant That are OBL, FACW,		2	(A)
2.		0.0%				-	- ` `
3		0.0%		Total Number of Dom Species Across All Str		2	(B)
4	0	0.0%		.,			
	0	= Total Cove	-	Percent of dominate That Are OBL, FAC		100.0%	(A/B)
Sapling/Shrub Stratum (Plot size:			E40'**	-			
1. Salix geyeriana			FACW	Prevalence Index w			
2		0.0%		Total % Cove		tiply by:	
4.		0.0%		OBL species	70 x 1		
5.		0.0%		FACW species			
	30	= Total Cove	.	FACUL species	^ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
Herb Stratum (Plot size:		- Total Cove		FACU species	^		
1. Carex aquatilis		100.0%	OBL	UPL species	х 5	-	
2,		0.0%		Column Totals:		130	(B)
3	_	0.0%		Prevalence Inc	dex = B/A =	1.300	
4		0.0%		Hydrophytic Vegeta		:	
5		0.0%		✓ Dominance Te			
6		0.0%		✓ Prevalence Inc		1	
8		0.0%			Adaptations 1 ks or on a separ	(_'rovide su	pporting
9		0.0%			ydrophytic Veg		(nlain)
10		0.0%		FIODICITATIC H	yaropriyuc veg	ciation I (wiaiii)
11,		0.0%		1 Indicators of byd			
	70	= Total Cove	-	¹ Indicators of hyd be present, unless	ric soil and wet disturbed or pr	nand hydro oblematic.	logy must
Woody Vine Stratum (Plot size:							
4		0.0%					
1	_	0.0%		Hydrophytic			
2				Venetation			
	0	= Total Cove	-	Venetation	es • No O		

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

Soil Sampling Point: SP 404

Profile Descri	iption. (Dc.		no doptii ii	ceded to di					absence of indicat	013.7
Depth	0-1 (-	Matrix		0-1 (-		ox Featu		1 2	. T	Damanda
(inches)	Color (ı			Color (n	-	<u>%</u>	Type 1	Loc2	Texture	Remarks
0-4	7.5YR	2.5/2	95%	7.5YR	3/3	5%		PL	Sand	
4-9	7.5YR	2.5/1	95%	7.5YR	3/3	5%	C	PL	Sand	
9-20	7.5YR	2.5/1	100%						Sand	
									-	
1 Type: C=Con	centration. D	=Depletio	n. RM=Redu	ced Matrix, C	CS=Covere	d or Coate	ed Sand Gra	ns ² Loca	ation: PL=Pore Linin	g. M=Matrix
Hydric Soil I	ndicators:	(Applicab	le to all LR	Rs, unless	otherwise	e noted.)			Indicators for	Problematic Hydric Soils: ³
Histosol (A	•			✓ Sand	dy Redox (S5)			1 cm Muck	(A9) (LRR C)
	pedon (A2)			Strip	ped Matrix	(S6)			2 cm Muck	(A10) (LRR B)
Black Histi	Sulfide (A4)			Loar	ny Mucky	Mineral (F	1)		Reduced Ve	ertic (F18)
_ ` `	Layers (A5) (I DD C)			ny Gleyed		2)		Red Parent	Material (TF2)
_	k (A9) (LRR I				leted Matri				Other (Expl	lain in Remarks)
_	Below Dark S	•	1)		ox Dark Su					
	k Surface (A1		1)		leted Dark		7)			
_	ck Mineral (S	•			ox depress				3 Indicators of I	hydrophytic vegetation and
_	yed Matrix (S			Vern	nal Pools (F	- 9)			wetland hyd	rology must be present.
Restrictive La	ayer (ii pres	sent):								
Type:										
-	nec).								Hydric Soil Pres	ent? Yes • No
Depth (inch	nes):								Hydric Soil Pres	ent? Yes • No
-	nes):								Hydric Soil Pres	ent? Yes • No O
Depth (inch	nes):								Hydric Soil Pres	ent? Yes • No O
Depth (inch	nes):								Hydric Soil Pres	eent? Yes • No O
Depth (inch	nes):								Hydric Soil Pres	ent? Yes No
Depth (inch									Hydric Soil Pres	ent? Yes • No O
Depth (inches Remarks:	1								Hydric Soil Pres	ent? Yes No
Depth (inches Remarks:	1	cators:								
Depth (inch Remarks: ydrology Vetland Hydi	/ rology Indi		one require	d; check al	ll that ap	ply)				ry Indicators (2 or more required)
Depth (inch Remarks: ydrology /etland Hydi	/ rology Indicators (min		one require		II that ap				Seconda	
Depth (inch Remarks: ydrology Vetland Hydrimary Indic	rology Indicators (min		one require	Sa		11)			Seconda	ry Indicators (2 or more required)
Depth (inch Remarks: ydrology Vetland Hydi rimary Indic Surface W High Wate Saturation	rology Indicators (min /ater (A1) er Table (A2)	imum of o	one require	Sa Bio	Ilt Crust (Botic Crust (guatic Inve	11) (B12) rtebrates			Seconda Water	ry Indicators (2 or more required) r Marks (B1) (Riverine)
Depth (inch Remarks: ydrology Vetland Hydi Primary Indic Surface W High Wate Saturation Water Mar	rology Indicators (min /ater (A1) er Table (A2) n (A3) rks (B1) (Nor	imum of o		Sa Bio	ult Crust (B potic Crust (quatic Inve ydrogen Su	11) (B12) rtebrates ulfide Odor	(C1)		Secondal Water Sedim Drift I	ry Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine)
Depth (inch Remarks: ydrology Vetland Hydi Primary Indic Surface W High Wate Saturation Water Mar	rology Indicators (min /ater (A1) er Table (A2)	imum of o		Sa Bio	ult Crust (B potic Crust (quatic Inve ydrogen Su	11) (B12) rtebrates ulfide Odor		Roots (C3	Secondal Water Sedim Drift I	ry Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) Riverine)
Depth (inche Depth	rology Indicators (min vater (A1) er Table (A2) In (A3) rks (B1) (Nor Deposits (B2 sits (B3) (No	imum of on inriverine) (Nonriverine)	rine)	Sa Sa Si	ult Crust (B potic Crust (quatic Inve ydrogen Su	11) (B12) rtebrates ulfide Odor zospheres	(C1) along Living	Roots (C3	Seconda Water Sedim Drift I Drain. Dry S	ry Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) Riverine) age Patterns (B10)
Depth (inche Depth	rology Indicators (min /ater (A1) er Table (A2) h (A3) rks (B1) (Nor Deposits (B2	imum of on inriverine) (Nonriverine)	rine)	Sa Sa Si Sa Si	alt Crust (B potic Crust (quatic Inve ydrogen Su kidized Rhi. esence of	11) (B12) rtebrates ulfide Odor zospheres Reduced I	(C1) along Living		Seconda Water Sedin Drift (Drain: Dry S Crayfi	ry Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) Riverine) age Patterns (B10) eason Water Table (C2)
Depth (inch Remarks: ydrology Vetland Hydri Surface W ✓ High Water ✓ Saturation Water Mar Sediment Drift depo Surface Sc	rology Indicators (min vater (A1) er Table (A2) In (A3) rks (B1) (Nor Deposits (B2 sits (B3) (No	imum of on imiverine) (Nonriverine) (neriverine)	rine)	Sa Sa Bio	alt Crust (B potic Crust (quatic Inve ydrogen Su kidized Rhi. esence of	11) (B12) rtebrates ulfide Odor zospheres Reduced I	(C1) along Living ron (C4) in Plowed S		Seconda Water Sedin Drift I Drain: Dry S Crayfi	ry Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8)
Depth (inche Permarks: ydrology	rology Indicators (min /ater (A1) er Table (A2) In (A3) rks (B1) (Nor Deposits (B2 sits (B3) (No	imum of on the control of one	rine)	Sa Bic Aq Hy Ox Pro	olt Crust (B potic Crust (quatic Invergen Su kidized Rhi esence of ecent Iron	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction urface (C7	(C1) along Living ron (C4) in Plowed S		Secondal Sedim Drift I Drain: Dry S Crayfi Satura	ry Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9)
Depth (inche Primary Indication Water Marks) Depth (inche Primary Indication Water Marks) Drift depois Surface Solinundation Water-Sta	rology Indicators (min vater (A1) er Table (A2) in (A3) rks (B1) (Nor Deposits (B2) sits (B3) (No bil Cracks (B6 in Visible on A	imum of of one o	rine) ery (B7)	Sa S	alt Crust (B potic Crust (quatic Inve ydrogen Su kidized Rhi: esence of ecent Iron hin Muck Si	11) (B12) rtebrates ulfide Odor zospheres Reduced I Reduction urface (C7	(C1) along Living ron (C4) in Plowed S		Secondal Sedim Drift I Drain: Dry S Crayfi Satura	ry Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3)
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Depth (inche lemarks: ydrology /etland Hydrology /estrace Water Mare Sediment /estrace Water Water Table Properties Water Table Properties /estrace Water Complete Properties /estr	rology Indicators (min later (A1) er Table (A2) n (A3) rks (B1) (Nor Deposits (B2) sits (B3) (No bill Cracks (B6) n Visible on A lined Leaves ations: Present? resent? resent? sent? ary fringe)	imum of of one o	ery (B7) No No No No gauge, mod	Sa Bic Aq Hy Ox Prr Re Th Ot	olt Crust (Botic Crust (Juatic Invended	11) (B12) rtebrates Ilfide Odor zospheres Reduced I Reduction urface (C7 in in Rem: nes): nes): nes):	(C1) along Living ron (C4) in Plowed S) arks) 12 0 vious inspe	wetla	Secondal Water Sedim Drift I Drain: Crayfi Satur: FAC-r	ry Indicators (2 or more required) r Marks (B1) (Riverine) nent Deposits (B2) (Riverine) Deposits (B3) Riverine) age Patterns (B10) eason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C9) ow Aquitard (D3) neutral Test (D5)

WETLAND DETERMINATION DATA FORM - Arid West Region

Project/Site: Deschutes County LWI				City/County:	Sunriver/De	eschutes	Sampling Da	te: 12-M	ay-10
Applicant/Owner: DESCHUTES COUNTY	/					State: OR	Sampling	Point:	SP 405
Investigator(s): John Gordon				Section, To	wnship, Ra	ange: S 24 T_	20 S R	10 E	
Landform (hillslope, terrace, etc.):	Геггасе			Local relief	(concave, o	convex, none): flat	SI	ope:	0.0% /0.0
Subregion (LRR): LRR B			Lat.: 43	.8202		Long.: -121.4668		Datun	n:_NAD 83
Soil Map Unit Name: 115A: Shanahan	loamy coa	arse sand, 0	to 3 percent	slopes		NWI class	ification:		
re climatic/hydrologic conditions on t					● No ((If no, explain in	Remarks.)		
Are Vegetation, Soil	, or Hydro	ogy 🗌	significantly	disturbed?	Are "N	ormal Circumstances"	present?	'es ⊙	No O
Are Vegetation, Soil	, or Hydrol	ogy	naturally pro	blematic?	(If nee	eded, explain any answ	ers in Remark	s.)	
Summary of Findings - Att	-	•••							ures, etc.
Hydrophytic Vegetation Present?	Yes O	No •	<u> </u>				, 1		
Hydric Soil Present?	Yes	No			Sampled A	vaa O Na 📵			
Wetland Hydrology Present?	Yes	No		within	a Wetland	i? res UNO S			
Remarks:				l l					
Offsite determination. No visual or p	physical ac	cess. Deterr	mination base	d on aerial p	hotos, NW	I, soil maps and projec	t experience.		
VEGETATION - Use scient	ific nam	es of plar	nts.	DominantSpecies?					
T CI / Diet sies			Absolute	Rel.Strat.	Indicator Status	Dominance Test worl	ksheet:		
Tree Stratum (Plot size:)		<u>% Cover</u> 0		Status	Number of Dominant Sp		0	(4)
1 2				0.0%		That are OBL, FACW, or	FAC:		(A)
3.				0.0%		Total Number of Domini		0	(B)
4.			0	0.0%		Species Across All Strata	1:		(D)
Sapling/Shrub Stratum (Plot size:)	0	= Total Cove	er	Percent of dominant That Are OBL, FACW		0.09	6 (A/B)
1			0	0.0%		Prevalence Index wor	ksheet:		
2			0	0.0%		Total % Cover	of: Mult	iply by:	
3			0	0.0%		OBL speci es	0 x 1		0
4 5.			0	0.0%		FACW species	0 x 2		0
5				0.0%		FAC speci es	<u>0</u> x 3		0
Herb Stratum (Plot size:)		0	= Total Cove	er	FACU speci es	<u>0</u> x 4		0
1 Carex sp.	,		0	0.0%	FACW	UPL speci es —	x 5	=	0
2,				0.0%		Column Totals:	0 (A)		0 (B)
3				0.0%		Prevalence Inde	x = B/A =	0.00	0
4				0.0%		Hydrophytic Vegetation	on Indicators		
5				0.0%		☐ Dominance Test	is > 50%		
6			0	0.0%		Prevalence Inde	x is ≤3.0 ¹		
7				0.0%		Morphological A	daptations 1	. 'rovide	supporting
8 9				0.0%		data in Remarks	-		
10				0.0%		Problematic Hyd	rophytic Vege	tation 1	(ˈːːˈːˈtplain)
11.				0.0%		1			
			0	= Total Cove	er	1 Indicators of hydric be present, unless di	soil and wet	land hyd blematic	rology must c.
Woody Vine Stratum (Plot size:)				,			
1				0.0%					
2				0.0%		Hydrophytic Vegetation	0 0		
			0	= Total Cove	er	Present? Yes	○ No ●		
% Bare Ground in Herb Stratum:	0	% (Cover of Bioti	c Crust ()					
Remarks:									
Vegetatoin appears similar to veget	ation in fla	odnlain and	l ovhovi wotla	nde in etudu	D	ominant omorgant ara	un la Caray C		

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

Soil Sampling Point: SP 405

	ription: (Describe to t	he depth ne					serioe or indioa	•		
Depth	Matrix			dox Featu		Loc2	Texture Remarks			
(inches)	Color (moist)		Color (moist)	76	Type ¹	LUC-	rexture	Remarks		
1 Type: C=Cor	ncentration. D=Depletion		od Matrix CS_Cover	od or Coate	nd Sand Gra	ns 2l ocati	on: PL=Pore Lini	ing M-Matrix		
, ·	· · · · · · · · · · · · · · · · · · ·		·		eu Sanu Gra	IIS -LUCAU				
	ndicators: (Applicab	le to all LRF						r Problematic Hydric Soils: ³		
Histosol (•		Sandy Redox				1 cm Mucl	k (A9) (LRR C)		
	pedon (A2)		Stripped Matr				2 cm Mucl	k (A10) (LRR B)		
Black Hist	ic (A3) i Sulfide (A4)		Loamy Mucky	Mineral (F	1)		Reduced \	Vertic (F18)		
	, ,		Loamy Gleyed	d Matrix (F2	2)		Red Paren	nt Material (TF2)		
	Layers (A5) (LRR C)		Depleted Mat	rix (F3)			✓ Other (Exp	plain 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)			3			
	ıck Mineral (S1)		Vernal Pools ((F9)			Indicators of	f hydrophytic vegetation and drology must be present.		
Sandy Gle	eyed Matrix (S4)						wettand ny	drology must be present.		
Restrictive L	ayer (if present):									
Type:										
1 J PC										
Depth (inc	hes):						Hydric Soil Pre	esent? Yes No		
Depth (inc	hes):						Hydric Soil Pre	esent? Yes No		
Depth (inc		in dia da la					Hydric Soil Pre	esent? Yes • No		
Depth (inc	hes):osition and vegetation	n indicate hy	ydric conditions.				Hydric Soil Pre	esent? Yes • No		
Depth (inc		n indicate hy	ydric conditions.				Hydric Soil Pre	esent? Yes No		
Depth (inc		n indicate hy	ydric conditions.				Hydric Soil Pre	esent? Yes No		
Depth (inc Remarks: .andscape po	osition and vegetation	n indicate h	ydric conditions.				Hydric Soil Pre	esent? Yes No		
Depth (inc Remarks: andscape po	osition and vegetation	n indicate h	ydric conditions.				Hydric Soil Pre	esent? Yes • No		
Depth (inc Remarks: andscape po	osition and vegetation	n indicate h	ydric conditions.				Hydric Soil Pre	esent? Yes • No ·		
Depth (inc Remarks: andscape po Hydrology Wetland Hyd	osition and vegetation			(ylac				esent? Yes No O		
Depth (inc Remarks: andscape po Hydrology Wetland Hyd Primary Indi	osition and vegetation y Irology Indicators:						Second			
Depth (incomplete Control of Cont	osition and vegetation y Irology Indicators: cators (minimum of o		d; check all that ag	B11)			Seconda	ary Indicators (2 or more required)		
Depth (incomplete Control of Cont	y Irology Indicators: cators (minimum of over (A1) er Table (A2)		d; check all that an	B11) (B12)	(B13)		Second: Wate	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine)		
Depth (incomplete in the content of	y Irology Indicators: cators (minimum of over (A1) er Table (A2) n (A3)		d; check all that ar Salt Crust (I Biotic Crust Aquatic Inv	B11) (B12) ertebrates (Seconda Wate	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine)		
Depth (incomplete Control of Cont	y Irology Indicators: cators (minimum of over (A1) er Table (A2) n (A3) rks (B1) (Nonriverine)	one required	d; check all that ar Salt Crust (I Biotic Crust Aquatic Invo	B11) (B12) ertebrates (ulfide Odor	(C1)	Roots (C3)	Seconda Wate Sedi Drift Drait	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10)		
Depth (incomplete in the content of	y Irology Indicators: cators (minimum of over (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine)	one required	d: check all that ag Salt Crust (I Biotic Crust Aquatic Inv	B11) (B12) ertebrates (ulfide Odor iizospheres	(C1) along Living	Roots (C3)	Seconda Wate Sedi Drift Drait Dry	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2)		
Depth (incomplete in the content of	psition and vegetation y Irology Indicators: cators (minimum of over (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine)	one required	d; check all that an Salt Crust (I Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh	B11) (B12) ertebrates (ulfide Odor nizospheres Reduced In	(C1) along Living ron (C4)		Seconda Wate Sedi Drift Drait Dry Cray	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) (fish Burrows (C8)		
Depth (incident line) Remarks: Landscape pool Hydrology Wetland Hyd Primary Indi Surface W High Water Saturation Water Ma Sediment Drift depool Surface S	psition and vegetation y Irology Indicators: cators (minimum of or vater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6)	one required	d: check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates (ulfide Odor izospheres Reduced II I Reduction	(C1) along Living ron (C4) in Plowed S		Second: Wate Sedi Drift Draii Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) uration Visible on Aerial Imagery (C9)		
Depth (incomplete incomplete inco	psition and vegetation Irology Indicators: cators (minimum of over (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) n Visible on Aerial Imag	one required	d: check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates (ulfide Odor nizospheres Reduced II Reduction Surface (C7)	(C1) along Living ron (C4) in Plowed S)		Second: Wate Sedi Drift Drait Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) Infish Burrows (C8) Irration Visible on Aerial Imagery (C9) low Aquitard (D3)		
Depth (incomplete in the content of	psition and vegetation y Irology Indicators: cators (minimum of or vater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6)	one required	d: check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron	B11) (B12) ertebrates (ulfide Odor nizospheres Reduced II Reduction Surface (C7)	(C1) along Living ron (C4) in Plowed S)		Seconda Wate Sedi Drift Drai Cray Satu Shal	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) uration Visible on Aerial Imagery (C9)		
Depth (incident of the content of th	psition and vegetation Irology Indicators: Cators (minimum of of vater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) n Visible on Aerial Imagained Leaves (B9) ations:	one required ine)	Salt Crust (I Salt Crust (I Aquatic Involution Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	B11) (B12) ertebrates (ulfide Odor nizospheres Reduced II Reduction Surface (C7)	(C1) along Living ron (C4) in Plowed S)		Second: Wate Sedi Drift Drait Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) Infish Burrows (C8) Irration Visible on Aerial Imagery (C9) low Aquitard (D3)		
Depth (incomplete in the content of	psition and vegetation y Irology Indicators: cators (minimum of or vater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) n Visible on Aerial Imag sined Leaves (B9) ations:	one required ine)	Salt Crust (I Salt Crust (I Aquatic Involution Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	B11) (B12) ertebrates (ulfide Odor nizospheres Reduced II Reduction Surface (C7) ain in Rema	(C1) along Living ron (C4) in Plowed S)		Second: Wate Sedi Drift Drait Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) Infish Burrows (C8) Irration Visible on Aerial Imagery (C9) low Aquitard (D3)		
Depth (incomplete incomplete inco	psition and vegetation y Irology Indicators: cators (minimum of or vater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) n Visible on Aerial Imagonined Leaves (B9) ations: Present? Yes	one required ine) ery (B7) No •	Salt Crust (I Salt Crust (I Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	B11) (B12) ertebrates (ulfide Odor aizospheres Reduced In Reduction Surface (C7) ain in Rema	(C1) along Living ron (C4) in Plowed S)		Second: Wate Sedi Drift Drait Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) uration Visible on Aerial Imagery (C9) low Aquitard (D3) -neutral Test (D5)		
Depth (incomplete Remarks: Landscape poor landscape	psition and vegetation y Irology Indicators: cators (minimum of orwater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) n Visible on Aerial Imagonined Leaves (B9) ations: Present? Yes	one required ine) ery (B7) No No	d: check all that ag Salt Crust (I Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	B11) (B12) ertebrates (ulfide Odor nizospheres F Reduced II I Reduction Surface (C7) ain in Rema	(C1) along Living ron (C4) in Plowed S)	pils (C6)	Second: Wate Sedi Drift Drait Cray Satu	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) aration Visible on Aerial Imagery (C9) low Aquitard (D3) -neutral Test (D5)		
Depth (incomplete incomplete inco	position and vegetation y Irology Indicators: cators (minimum of or vater (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 sent? Yes	one required ine) ery (B7) No No	d: check all that ag Salt Crust (I Biotic Crust Aquatic Inv. Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.	B11) (B12) ertebrates (ulfide Odor nizospheres F Reduced II I Reduction Surface (C7) ain in Rema	(C1) along Living ron (C4) in Plowed S)	pils (C6)	Second: Wate Sedi Drift Drain Dry Cray Satu Shal	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) aration Visible on Aerial Imagery (C9) low Aquitard (D3) -neutral Test (D5)		
Depth (incidence of the control of t	position and vegetation y Irology Indicators: cators (minimum of or vater (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 sent? Yes	one required ine) ery (B7) No No No No No No No No	Depth (ind	B11) (B12) ertebrates (ulfide Odor aizospheres Reduced In Reduction Surface (C7) ain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	Wetlan	Seconda Wate Sedi Drift Drain Cray Satu Shal FAC:	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) aration Visible on Aerial Imagery (C9) low Aquitard (D3) -neutral Test (D5)		
Depth (incides capillate) Depth (incides capillate) Depth (incides capillate) Remarks: andscape po Wetland Hyd Primary Indi Surface W High Water Saturation Water Ma Sediment Drift depo Surface S Inundatio Water-Sta Field Observ Surface Water Water Table P Saturation Pre (includes capil	psition and vegetation y Irology Indicators: cators (minimum of orwater (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 sent? lary fringe) y y y y y y y y y y y y y	one required ine) ery (B7) No No No No No No No No	Depth (ind	B11) (B12) ertebrates (ulfide Odor aizospheres Reduced In Reduction Surface (C7) ain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	Wetlan	Seconda Wate Sedi Drift Drain Cray Satu Shal FAC:	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) aration Visible on Aerial Imagery (C9) low Aquitard (D3) -neutral Test (D5)		
Depth (incidence of the content of t	psition and vegetation y Irology Indicators: cators (minimum of orwater (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 sent? lary fringe) y y y y y y y y y y y y y	one required ine) ery (B7) No No No No No No No No	Depth (ind	B11) (B12) ertebrates (ulfide Odor aizospheres Reduced In Reduction Surface (C7) ain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	Wetlan	Seconda Wate Sedi Drift Drain Cray Satu Shal FAC:	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) rfish Burrows (C8) aration Visible on Aerial Imagery (C9) low Aquitard (D3) -neutral Test (D5)		
Depth (incidence Remarks: Andscape pools Aydrology Wetland Hyde Primary Indi Surface W High Water Saturation Water-State Water Table P Saturation Pre (includes capil) Describe Rec	psition and vegetation y Irology Indicators: cators (minimum of orwater (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 sent? lary fringe) y y y y y y y y y y y y y	ine) Property (B7) No No No gauge, mor	d: check all that ar Salt Crust (I Biotic Crust Aquatic Invo Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expl.) Depth (inc	B11) (B12) ertebrates (ulfide Odor nizospheres Reduced In Reduction Surface (C7) ain in Rema	(C1) along Living ron (C4) in Plowed S) arks)	Wetlan	Second: Wate Sedi Drift Dry Cray Satu Shal FAC:	ary Indicators (2 or more required) er Marks (B1) (Riverine) ment Deposits (B2) (Riverine) Deposits (B3) Riverine) nage Patterns (B10) Season Water Table (C2) rifish Burrows (C8) irration Visible on Aerial Imagery (C9) low Aquitard (D3) -neutral Test (D5) resent? Yes No		

WETLAND DETERMINATION DATA FORM - Arid West Region

Soil Map Unit Name: Not available re climatic/hydrologic conditions on the site typical for this time of yea Are Vegetation , Soil , or Hydrology significantle	Local relief (43.8105 Ar? Yes by disturbed? ampling po Is the significant within Dominant Species? Rel.Strat.	No Are "N (If need int local Sampled Ara Wetland	eded, explain any answers in Remarks.) ations, transects, important features, etc. Area d? Yes No
Landform (hillslope, terrace, etc.): Flat Subregion (LRR): LRR B	Local relief (43.8105 Ar? Yes by disturbed? roblematic? ampling po Is the within Dominant Species? Rel.Strat. cr Cover 100.0% 100.0% 100.0% 100.0%	No Are "No (If need) (If n	Long.: -121.4888 Datum: NAD 83 NWI classification: PEMA (If no, explain in Remarks.) Jormal Circumstances" present? Yes No ordered, explain any answers in Remarks.) ations, transects, important features, etc. Area d? Yes No ordered Dominance Test worksheet: Number of Dominant Species
Subregion (LRR): LRR B Soil Map Unit Name: Not available re climatic/hydrologic conditions on the site typical for this time of year Are Vegetation , Soil , or Hydrology significantly Are Vegetation , Soil , or Hydrology naturally p Summary of Findings - Attach site map showing s Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Xemarks: VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:	yes y disturbed? roblematic? ampling po Is the within Dominant Species? Rel.Strat. cover 100.0% 0.0% 0.0%	No CARRENT	NWI classification: PEMA (If no, explain in Remarks.) Jormal Circumstances" present? Yes No oeded, explain any answers in Remarks.) ations, transects, important features, etc. Area d? Yes No oeded.
Soil Map Unit Name: Not available re climatic/hydrologic conditions on the site typical for this time of year Are Vegetation	Dominant Species? Rel.Strat. er Cover 100.0% 0.0%	Are "N (If nee pint local Sampled A a Wetland	NWI classification: PEMA (If no, explain in Remarks.) Jormal Circumstances" present? Yes No oeded, explain any answers in Remarks.) ations, transects, important features, etc. Area d? Yes No oeded Dominance Test worksheet: Number of Dominant Species
Soil Map Unit Name: Not available Soil Map Unit Name: Not avai	Dominant Species? Rel.Strat. er Cover 100.0% 0.0%	Are "N (If nee pint local Sampled A a Wetland	NWI classification: PEMA (If no, explain in Remarks.) Jormal Circumstances" present? Yes No oeded, explain any answers in Remarks.) ations, transects, important features, etc. Area d? Yes No oeded Dominance Test worksheet: Number of Dominant Species
e climatic/hydrologic conditions on the site typical for this time of year are Vegetation	Dominant Species? Rel. Strat. cr Cover 100.0% 0.0%	Are "N (If nee pint local Sampled A a Wetland	(If no, explain in Remarks.) Jormal Circumstances" present? Yes No eded, explain any answers in Remarks.) Ations, transects, important features, etc. Area d? Yes No Dominance Test worksheet: Number of Dominant Species
Are Vegetation	Dominant Species? Rel.Strat. cr Cover 100.0% 0.0%	(If nee	Area d? Yes No Dominance Test worksheet: No No No No No No No No No N
Are Vegetation , Soil , or Hydrology naturally p Summary of Findings - Attach site map showing s Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: VEGETATION - Use scientific names of plants. Tree Stratum (Plot size: , 20 1. Pinus contorta , 20 2. , 0 3. , 0 4. , 0 Sapling/Shrub Stratum (Plot size: , 20 1. Spiraea douglasii , 5 2. , 3. , 5 4. , 0	Dominant Species? Rel.Strat. Cover 100.0% 0.0%	(If nee	eded, explain any answers in Remarks.) ations, transects, important features, etc Area d? Yes No Dominance Test worksheet: Number of Dominant Species
Summary of Findings - Attach site map showing s Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:	Dominant Species? Rel.Strat. cr Cover	Sampled A a Wetland Indicator Status	Area d? Yes No Dominance Test worksheet: Number of Dominant Species
Hydric Soil Present? Wetland Hydrology Present? Remarks: VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:)	Dominant Species? Rel.Strat. Cover 100.0% 0.0% 0.0%	a Wetland	Dominance Test worksheet: Number of Dominant Species
Wetland Hydrology Present? Remarks: VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:)	Dominant Species? Rel.Strat. Cover 100.0% 0.0% 0.0%	a Wetland	Dominance Test worksheet: Number of Dominant Species
VEGETATION - Use scientific names of plants. Absolute	Dominant Species? te Rel.Strat. cover 100.0% 0.0% 0.0%	Indicator Status	Dominance Test worksheet: Number of Dominant Species
VEGETATION - Use scientific names of plants. Absolute	Species? Rel.Strat. Cover 100.0% 0.0% 0.0%	Status	Number of Dominant Species
VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:	Species? Rel.Strat. Cover 100.0% 0.0% 0.0%	Status	Number of Dominant Species
Tree Stratum (Plot size:) Absolut % Cove 1_Pinus contorta 20 2_ 0 3_ 0 4_ 0 Sapling/Shrub Stratum (Plot size:) 1. Spiraea douglasii 5 2_	Species? Rel.Strat. Cover 100.0% 0.0% 0.0%	Status	Number of Dominant Species
Tree Stratum (Plot size:) Absolut % Cover %	Species? Rel.Strat. Cover 100.0% 0.0% 0.0%	Status	Number of Dominant Species
Tree Stratum (Plot size:) Absolut % Cover	Rel.Strat. cover 100.0% 0.0% 0.0%	Status	Number of Dominant Species
Tree Stratum (Plot size:) % Cover. 1. Pinus contorta 20 2. 0 3. 0 4. 0 Sapling/Shrub Stratum (Plot size: 1. Spiraea douglasii 5 2. 5 3. 5 4. 0	er Cover	Status	Number of Dominant Species
2. 0 3. 0 4. 0 Sapling/Shrub Stratum (Plot size:) 1. Spiraea douglasii 5 2. 5 4. 0	0.0%	FAC	
3. 0 4. 0 Sapling/Shrub Stratum (Plot size:) 1. Spiraea douglasii 5 2. 5 4. 5	0.0%		
4. 0 Sapling/Shrub Stratum (Plot size:) 1. Spiraea douglasii 5 2. 5 4. 0			Total Number of Dominant
20 Sapling/Shrub Stratum (Plot size:)	0.0%		Species Across All Strata: 5 (B)
Sapling/Shrub Stratum (Plot size:) 1. Spiraea douglasii 5 2. 5 4. 0			Dercent of deminent Species
2. 3. 5 4. 0	= Total Cove	er	Percent of dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)
3. 5 4. 0	50.0%	FACW	Prevalence Index worksheet:
4. 0	0.0%		Total % Cover of: Multiply by:
	50.0%		0BL species 0 x 1 = 0
50	0.0%		FACW species15 x 2 =30
	0.0%		FAC species x 3 = 150
Herb Stratum (Plot size:	_ = Total Cove	er	FACU speci es $5 \times 4 = 20$
1 Juncus sp. 10	✓ 22.2%	FACW	UPL speci es x 5 =0
2. Poa sp. 30	66.7%	FAC	Column Totals: (A) (B)
3 Fragaria virginiana 5	11.1%	FACU	Prevalence Index = B/A = 2.857
4. 0	0.0%		Hydrophytic Vegetation Indicators:
50	0.0%		✓ Dominance Test is > 50%
60	0.0%		✓ Prevalence Index is ≤3.0 ¹
70	0.0%		☐ 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,	0.0%		1 Indicators of hydric soil and wetland hydrology must
45 (Plat size)	_ = Total Cove	er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:			
1,0	0.0%		I hydrau hydio
2	0.0%		Hydrophytic Vegetation
0	= Total Cove	er	Present? Yes No
% Bare Ground in Herb Stratum: 55 % Cover of Bio	_		

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

Soil Sampling Point: SP 408

Profile Desc	ription: (De	scribe to	the depth n	eeded to d	ocument	the indic	ator or co	nfirm the a	absence of indicators.)	
Depth		Matrix				lox Featu				
(inches)	Color (moist)		Color (n	noist)	%	Type ¹	Loc2	Texture	Remarks
0-4	10YR	3/2	100%						Loam	
4-20	10YR	3/2	90%	10YR	4/3	10%	C	M	Silty Clay	
-	-									
	-									
1 Type: C=Co	ncentration. [D=Depletio	n. RM=Reduc	ed Matrix, (CS=Covere	ed or Coat	ed Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=N	Matrix
Hydric Soil	Indicators:	(Applicat	ole to all LR	Rs, unless	otherwis	e noted.)			Indicators for Proble	ematic Hydric Soils: ³
Histosol ((A1)			Sand	dy Redox ((S5)			1 cm Muck (A9) (L	.RR C)
I — .	pedon (A2)			Strip	ped Matri	x (S6)			2 cm Muck (A10)	(LRR B)
Black His				Loar	ny Mucky	Mineral (F	1)		Reduced Vertic (F	18)
	Sulfide (A4)			Loar	ny Gleyed	Matrix (F2	2)		Red Parent Materi	al (TF2)
l —	Layers (A5)			Dep	leted Matri	ix (F3)			Other (Explain in F	Remarks)
l —	ck (A9) (LRR		4)	✓ Red	ox Dark Su	ırface (F6))			
I — .	Below Dark S	•	1)	Dep	leted Dark	Surface (F7)			
	rk Surface (A1	•		Red	ox depress	sions (F8)			³ Indicators of hydropl	autic vogotation and
	uck Mineral (S eyed Matrix (S			Verr	nal Pools (F	F9)			wetland hydrology	
<u> </u>										
Restrictive L	ayer (if pre	sent):								
Type: Depth (inc	shoc).								Hydric Soil Present?	Yes ● No ○
- ' '										
Remarks:										
Hydrolog	v									
Wetland Hyd					II 41 4				Consequence level	(2
Primary Ind		imum of	one require							cators (2 or more required)
	Water (A1)				It Crust (B	,				(B1) (Riverine)
✓ Flight Wat	er Table (A2)				otic Crust (Juatic Inve		(D12)			posits (B2) (Riverine)
	rrks (B1) (Noi	arivorino)			/drogen Su				Drainage Pat	s (B3) Riverine)
	t Deposits (B2	,	rino)				along Livin	a Poots (C3		Nater Table (C2)
	osits (B3) (No				esence of		-	g Roots (CS	Crayfish Buri	
I — .	Soil Cracks (Be		,				in Plowed S	Soils (C6)		sible on Aerial Imagery (C9)
l	on Visible on A	•	iery (B7)		nin Muck S			JOII3 (00)	Shallow Aqui	* *
	ained Leaves		,0.5 (2.7)		her (Expla				FAC-neutral	
Field Observ					· · · · ·		,			
Surface Water		Yes	O No @) ,	Depth (incl	hes).		7		
		Yes)				_ 		
Water Table F					Depth (incl	hes):	7	Wetla	and Hydrology Present?	Yes ● No ○
Saturation Pre (includes capi		Yes	● No ○) [Depth (incl	hes):	1		and my discount	
Describe Re		(stream	gauge, moi	nitor well,	aerial pho	otos, pre	vious inspe	ections), i	f available:	
Remarks:										

	Lat.: 43.7 me of year? gnificantly d	Yes isturbed?	No C	Long.: -121.4654 NWI cl (If no, explain ormal Circumstance eded, explain any ar	T 20 S nt concave lassification: I in in Remarks. es" present?	Datum PEMC .) Yes	SP 600 1.0% / 0.0 n: NAD83
Investigator(s): Sarah Hartung Landform (hillslope, terrace, etc.): Valley bottom Subregion (LRR): LRR A Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes re climatic/hydrologic conditions on the site typical for this till Are Vegetation □ , Soil □ , or Hydrology ✓ sig Are Vegetation □ , Soil □ , or Hydrology □ na Summary of Findings - Attach site map shot Hydrophytic Vegetation Present? Yes ○ No ○ Hydric Soil Present? Yes ○ No ○	Lat.: 43.7 me of year? gnificantly d	Yes isturbed?	No C	Long.: -121.4654 NWI cl (If no, explain ormal Circumstance eded, explain any ar	lassification: [in in Remarks.	Datum PEMC Yes	n:_NAD83
Landform (hillslope, terrace, etc.): Valley bottom Subregion (LRR): LRR A Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes re climatic/hydrologic conditions on the site typical for this til Are Vegetation □ , Soil □ , or Hydrology ☑ signature vegetation □ , Soil □ , or Hydrology □ na Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes ○ No ○ Hydric Soil Present? Yes ○ No ○	Lat.: 43.7 me of year? gnificantly d	Yes isturbed?	No C	Long.: -121.4654 NWI cl (If no, explain ormal Circumstance eded, explain any ar	lassification: [in in Remarks.es" present?	Datum PEMC .) Yes	n:_NAD83
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes re climatic/hydrologic conditions on the site typical for this tir Are Vegetation , Soil , or Hydrology signature states are Vegetation , Soil , or Hydrology naws Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	me of year? gnificantly d	Yes isturbed? ilematic?	Are "No	NWI ci (If no, explain ormal Circumstance	lassification: [in in Remarks.es" present?	PEMC .) Yes	
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent slopes re climatic/hydrologic conditions on the site typical for this tir Are Vegetation , Soil , or Hydrology signature states are Vegetation , Soil , or Hydrology naws Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	me of year? gnificantly d	Yes isturbed? ilematic?	Are "No	NWI ci (If no, explain ormal Circumstance	lassification: [in in Remarks.es" present?	PEMC .) Yes	
re climatic/hydrologic conditions on the site typical for this tinder vegetation , Soil , or Hydrology signare vegetation , Soil , or Hydrology naws are vegetation , Soil , or Hydrology naws are vegetation present? Yes No Yes No Yes No	gnificantly d	isturbed? llematic?	Are "No	(If no, explai ormal Circumstance ded, explain any ar	in in Remarks. es" present?	.) Yes O	No •
Are Vegetation , Soil , or Hydrology signature states and states are vegetation , Soil , or Hydrology and summary of Findings - Attach site map show the hydrophytic Vegetation Present? Yes No Yes No Yes No	gnificantly d	isturbed? llematic?	Are "No	ormal Circumstance	es" present?	Yes O	No •
Are Vegetation , Soil , or Hydrology na Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Yes No Yes No Yes No Yes No Yes	iturally prob	lematic?	(If nee	eded, explain any ar	-		
Summary of Findings - Attach site map shown the street of			•		nswers in Ren	narks.)	
Hydrophytic Vegetation Present? Yes No Yes No Yes No No Yes No Yes No Yes	wing san	npling po	int laca				
Hydric Soil Present? Yes No			1111 1002	ations, transe	cts, impor	rtant feat	tures, et
		Is the S	ampled A	rea			
Wetland Hydrology Present? Yes No			-	Vac (Na (\circ		
		within a	Wetland	,			
Remarks:							
Site is normally irrigated, but has not been irrigated in the p	ast 3-4 year	rs.					
VEGETATION - Use scientific names of plants	5.	Dominant _Species?					
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat. I Cover S	ndicator tatus	Dominance Test v	vorksheet:		
1,	0	0.0%		Number of Dominar That are OBL, FACW		2	(A)
2,	0	0.0%					
3	0[0.0%		Total Number of Do Species Across All S		2	(B)
4	0	0.0%					_
Sapling/Shrub Stratum (Plot size:		= Total Cover		Percent of domina That Are OBL, FA		100.0%	(A/B)
1,	_0[0.0%		Prevalence Index	worksheet:		
2	_0_	0.0%		Total % Cov	ver of: N	/lultiply by:	
3	Г	0.0%		OBL species			0
4 5.	0	0.0%		FACW specifes			50
3		0.0%		FAC species			60
Herb Stratum (Plot size:	=	= Total Cover		FACU species		4 =	<u>0 </u>
1 Juncus balticus	75	✓ 75.0%	FACW	UPL species		5 =	
2. Poa spp.			FAC	Column Totals:		(A)	35 (B)
3 Thinopyrum intermedium	5[5.0%	UPL	Prevalence In	ndex = B/A =	2.350	<u>) </u>
4	_0	0.0%		Hydrophytic Vege			
5	_0	0.0%		✓ Dominance T			
6	0 [0.0%		✓ Prevalence II	ndex is ≤3.0 ¹		
8-		0.0%			al Adaptations arks or on a se		
9	_ [0.0%			n-Vascular Pla	•	i)
10	0	0.0%			Hydrophytic V		(Evnlain)
11.———	0	0.0%					
	100 =	= Total Cover		¹ Indicators of hyd be present, unless			
Woody Vine Stratum (Plot size:	_ [
1,	0	0.0%		Hydrophytic			
2		0.0%		Vegetation	res No	\cap	
9/ Para Craund in Harb Strations 0	=	= Total Cover		Present?	C2 (NO	\smile	
% Bare Ground in Herb Stratum: 0							
Remarks:							
Poa spp. assumed FAC.							

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

Soil									Sampling Point:	SP 600
Profile Desci	ription: (Des	cribe to t	he depth r	needed to documen	t the ind	licator or co	nfirm the	absence of indicat		
Depth		Matrix		Rec	dox Feat	ures		_		
(inches)	Color (n	noist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR	3/2	100%					Sandy Loam	dense w/roots	
3-4	10YR	2/2	100%					loamy duff	many composite	colors
4-8	10YR	4/2	100%					Sandy Loam	many composite	colors
8-20	10YR	4/3	100%					Loamy Sand	many composite	colors
		-		ced Matrix, CS=Cover			ains ² Loc	ation: PL=Pore Linin	•	- 2
l —		Applicab	le to all LR	Rs, unless otherwi		.)			Problematic Hydric Soi	ls: ³
Histosol ((A1) ipedon (A2)			Sandy Redox Stripped Matr				2 cm Muck	(A10) Material (TF2)	
Black Hist				Loamy Mucky		F1) (except i	n MLRA 1)		ain in Remarks)	
	n Sulfide (A4)			Loamy Gleyed	l Matrix (I	-2)		E ottor (Exp.	an in itematics	
	Below Dark S	•	1)	Depleted Mat	` '					
	rk Surface (A1:	•		Redox Dark S Depleted Darl		•			drophytic vegetation and	
l — ´	uck Mineral (S´ eyed Matrix (S	•		Redox depres					logy must be present, ed or problematic.	
	ayer (if pres			·						
Type:	ayer (ii pres	city.								
Depth (inc	ches):							Hydric Soil Prese	ent? Yes • No	\bigcirc
Remarks:										
Hydric soils a	ssumed has	ed on irri	nated conc	litions. Site receive	s overflo	w from irrid	nation cha	nnels		
	ioodiiiod bao	Ju 0	garoa oone		0 0 0 0 1 1 1 0		gation ona			
Hydrolog	v									
Wetland Hyd		ators:								
,	33		ne require	d; check all that ap	ply)			Secondar	y Indicators (minimum	of two required)
	Water (A1)					s (B9) (excep	ot MLRA		-Stained Leaves (B9) (MLF	•
☐ High Wa	ter Table (A2)			1, 2, 4A, an	d 4B)			4A, an		
Saturatio	on (A3)			Salt Crust (I	311)			Draina	ge Patterns (B10)	
Water Ma	arks (B1)			Aquatic Inv	ertebrates	s (B13)		☐ Dry Se	eason Water Table (C2)	
Sedimen	t Deposits (B2)		Hydrogen S	ulfide Od	or (C1)		✓ Satura	tion Visible on Aerial Imaç	gery (C9)
l —	osits (B3)					s on Living F	Roots (C3)	Geomo	orphic Position (D2)	
	t or Crust (B4)			Presence of					w Aquitard (D3)	
	oosits (B5)					n in Tilled So			eutral Test (D5)	_
	Soil Cracks (B6		(DZ)			Plants (D1) (I	_RR A)		Ant Mounds (D6) (LRR A)
	on Visible on A	,	, ,	✓ Other (Expl	ain in Rer	narks)		☐ Frost F	Heave Hummocks (D7)	
□ Sparsely	Vegetated Co	ncave Suri	ace (B8)							
Field Observ	ations:			_			_			
Surface Water	r Present?	Yes	O No 🤄	Depth (inc	ches):					
Water Table P	Present?	Yes	O No 🤄	Depth (inc	ches):					
Saturation Pre	esent?	Yes	O No @		. –		Wetla	and Hydrology Pres	sent? Yes 🖲 No	o O
(includes capi								Facilian I		
Describe Red	corded Data	(stream (gauge, moi	nitor well, aerial ph	otos, pre	evious inspe	ections), if	avallable:		
Remarks:										
Saturation p	resent in ear	ıy part of	growing s	eason. Very moist	at 0.5",	sand layer i	moist 8-13	s" put no saturatio	n, lots of organic decay	/ing.

Project/Site: DESCHUTES LWI	c	city/County:	SUNRIVER/	DESCHUTES	Sampling Da	ite: 17-Nov	<i>ı</i> -10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sampling	Point:	SP 601
Investigator(s): Sarah Hartung			wnship, Ra	ange: S 24	T 21 S R	10 E	
Landform (hillslope, terrace, etc.): Flat		Local relief	(concave, o	convex, none): none	SI	ope: 1.	.0% / 0.0
Subregion (LRR): LRR A	Lat.: 43.	.7413		Long.: -121.4689		Datum:	NAD83
Soil Map Unit Name: 115A: Shanahan loamy coarse sand					ssification:		-
re climatic/hydrologic conditions on the site typical for			● No ○				
Are Vegetation . , Soil . , or Hydrology .	significantly			ormal Circumstances	•	res 💿 🛚 ı	No O
	_				•		
Are Vegetation . , Soil . , or Hydrology .				eded, explain any ans			
Summary of Findings - Attach site map	showing sa	mpling p	oint loc	ations, transec	ts, importa	nt featu	ıres, et
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	irea			
Hydric Soil Present? Yes No		within	a Wetland	Yes O No 🖲	•)		
Wetland Hydrology Present? Yes O No							
Remarks:							
VECETATION . Her exicutific person of m	la saka	Dominant					
VEGETATION - Use scientific names of p		_Species?		1			
Tree Stratum (Plot size:	Absolute % Cover		Indicator Status	Dominance Test we			
1,	0	0.0%		Number of Dominant That are OBL, FACW,		2	(A)
2		0.0%					. ,
3		0.0%		Total Number of Dom Species Across All Str		4	(B)
4		0.0%					
Sapling/Shrub Stratum (Plot size:	0	= Total Cove	er	Percent of dominal That Are OBL, FAC		0.0%	(A/B)
1,		0.0%		Prevalence Index v	vorksheet:		
2		0.0%		Total % Cove	er of: Multi	iply by:	
3		0.0%		OBL species	x 1	= 0	
4		0.0%		FACW species	x 2		
5		0.0%		FAC species	x 3		
Herb Stratum (Plot size:	0	= Total Cove	er	FACU species	x 4		
1 Juncus balticus	10	10.0%	FACW	UPL species	x 5		
2. Carex sp.		10.0%	FACW	Column Totals:	(A)	340	<u>O</u> (B)
3 Trifolium repens	20	20.0%	FAC	Prevalence Inc	dex = B/A =	3.400	_
4. Taraxacum officinale		20.0%	FACU	Hydrophytic Vegeta	ation Indicators	:	
5 Thinopyrum intermedium		20.0%	UPL	Dominance Te			
6. Poa sp.		20.0%	FAC	Prevalence In	dex is ≤3.0 ¹		
7.————————————————————————————————————		0.0%			Adaptations 1 (
8		0.0%			ks or on a separ Vascular Plants	•	
10		0.0%			lydrophytic Vege		(volain)
11		0.0%			, , , ,	•	
	100	= Total Cove	er	Indicators of hydr be present, unless			
Woody Vine Stratum (Plot size:					-		
1		0.0%					
2		0.0%		Hydrophytic Vegetation	O @		
	0	= Total Cove	r	Present? Ye	es O No •		
% Bare Ground in Herb Stratum: 0							
Remarks:							
Carex sp. assumed FACW and Poa sp. assumed FAC.							

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

				optil lie					absence of indic	u (O) 3. <i>j</i>		
Depth _		Matrix	%			edox Feat		1 2	Tavtuna		Damas	leo.
(inches)	Color (n		100		Color (moist)	%_	Type ¹	Loc ²	Texture	Н	Remar lense roots	
		3/3							Sandy Loam			<u>, </u>
0-8.5	10YR	3/2	100	J% —— —					Sandy Loam			
8.5-20	10YR	5/4	50	<u> </u>					Sand	m	i xed color	`S
	10YR	4/4	50	<u> </u>					Sand	n	o redox	
no. C. Consor	atration D	Donlotion		- Poduco	d Matrix, CS=Cove			rains 21 as	ation, DI Pero Lin	ing M M	otriv	
•					s, unless otherw			airis -Loc	ation: PL=Pore Lin			Soile.3
Histosol (A1) Histic Epiped Black Histic Hydrogen St) don (A2) (A3) ulfide (A4)			dii LKK	Sandy Redo Stripped Ma	x (S5) trix (S6) xy Mineral (ed Matrix (I	(F1) (except	in MLRA 1)	2 cm Muc		(TF2)	30113
Depleted Be Thick Dark S Sandy Muck Sandy Gleye	Surface (A1 Mineral (S	2)	1)		Redox Dark Depleted Da Redox depre	Surface (Fourth	(F7)		³ Indicators of h wetland hydr unless distur	rology mu	st be present	
strictive Lay	er (if pres	ent):										
Туре:									Hydric Soil Pre	cont2	Yes O	No 💿
Depth (inche emarks:	s):								Tiyuno son rie	Sent:	res \bigcirc	110
	s):								Tyune 3011116	Sent:	res U	
emarks:	s):								Tryune 3011 Te	Sent:	Tes U	
emarks: /drology etland Hydro	logy India								Tryune 3011 Te	Sent:	Tes U	
emarks: /drology etland Hydro	logy India		one re	equired	; check all that a	apply)			-			num of two requ
rdrology etland Hydro imary Indica Surface Wa	logy Indic tors (mini ter (A1)	mum of o	one re	equired		ined Leave	s (B9) (exce	pt MLRA	Seconda Wate	ary Indica		num of two requ
rdrology etland Hydro imary Indica Surface Wa High Water	logy Indictors (miniter (A1)	mum of o	one re	equired	☐ Water-Sta	ined Leave and 4B)	s (B9) (exce	pt MLRA	Seconda Wate 4A, a	ary Indica er-Stained and 4B)	ators (minim Leaves (B9)	num of two requ
emarks: odrology etland Hydro imary Indica Surface Wa High Water Saturation (logy Indictors (miniter (A1) Table (A2)	mum of o	one r	equired	Water-Sta 1, 2, 4A, a	ined Leave and 4B) (B11)		pt MLRA	Seconda Wate 4A, a	ary Indica er-Stained and 4B) nage Patte	ators (minim Leaves (B9) erns (B10)	num of two requ (MLRA 1, 2,
rdrology etland Hydro imary Indica Surface Wa High Water	logy Indictors (miniter (A1) Table (A2) (A3) s (B1)	mum of c	one r	equired	Water-Sta 1, 2, 4A, a Salt Crust Aquatic In	ined Leave and 4B)	s (B13)	pt MLRA	Seconda Wate 4A, a Drain Dry 9	ary Indica er-Stained and 4B) nage Patte Season Wa	ators (minim Leaves (B9)	num of two requ (MLRA 1, 2,
rdrology etland Hydro imary Indica Surface Wa High Water Saturation (logy India tors (mini ter (A1) Table (A2) (A3) s (B1) eposits (B2	mum of c	one re	equired	Water-Sta 1, 2, 4A, a Salt Crust Aquatic In Hydrogen	ined Leave and 4B) (B11) overtebrates Sulfide Ode	s (B13)		Seconda Wate 4A, a Drain Dry: Satu	ary Indica er-Stained and 4B) nage Patte Season Wa ration Visi	ators (minim Leaves (B9) erns (B10) ater Table (C2	num of two requ (MLRA 1, 2,
rdrology etland Hydro imary Indica Surface Wa High Water Saturation (Water Mark Sediment D	logy Indictors (miniter (A1) Table (A2) (A3) s (B1) eposits (B2) ts (B3)	mum of c	one r	equired	Water-Sta 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F	ined Leave and 4B) (B11) overtebrates Sulfide Ode	s (B13) or (C1) es on Living I		Seconda Wate 4A, a Drait Dry 5 Satu Geor	ary Indica er-Stained and 4B) nage Patte Season Wa ration Visi	ators (minim Leaves (B9) erns (B10) ater Table (C2 ble on Aerial osition (D2)	num of two requ (MLRA 1, 2,
rdrology etland Hydro imary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi	logy Indictors (miniter (A1) Table (A2) (A3) s (B1) eposits (B2) ts (B3)	mum of c	one r	equired	Water-Sta 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F	ined Leave and 4B) (B11) Invertebrates Sulfide Ode Rhizosphere of Reduced	s (B13) or (C1) es on Living I	Roots (C3)	Seconda Wate 4A, a Drait Dry 5 Satu Geor	ary Indica er-Stained and 4B) nage Patte Season Wa ration Visi morphic Po	ators (minim Leaves (B9) erns (B10) ater Table (C2 ble on Aerial osition (D2) ard (D3)	num of two requ (MLRA 1, 2,
rdrology etland Hydro imary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or	logy India tors (mini ter (A1) Table (A2) (A3) s (B1) eposits (B2 ts (B3) · Crust (B4)	mum of c	one ro	equired	Water-Sta 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence of Recent Iro	ined Leaver and 4B) (B11) Ivertebrates Sulfide Odi Rhizosphere of Reduced on Reductio	s (B13) or (C1) es on Living I Iron (C4)	Roots (C3)	Seconda Wate 4A, a Drain Dry: Satu Geor Shall FAC-	ary Indica er-Stained and 4B) nage Patte Season Wa ration Visi morphic Po low Aquita neutral Te	ators (minim Leaves (B9) erns (B10) ater Table (C2 ble on Aerial osition (D2) ard (D3)	num of two requ (MLRA 1, 2, 2) Imagery (C9)
rdrology etland Hydro imary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi	logy Indictors (miniter (A1) Table (A2) (A3) s (B1) eposits (B2) ts (B3) Crust (B4) ts (B5) Cracks (B6	mum of c			Water-Sta 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence of Recent Iro	ined Leaver and 4B) (B11) Ivertebrates Sulfide Odi Rhizosphere of Reduced on Reductio	s (B13) or (C1) es on Living l Iron (C4) on in Tilled So Plants (D1) (Roots (C3)	Seconda Wate 4A, a Drain Dry: Satu Geor Shall FAC- Raise	ary Indica er-Stained and 4B) nage Patte Season Wa ration Visi norphic Po low Aquita neutral Te ed Ant Mo	ators (minim Leaves (B9) erns (B10) ater Table (C2 ble on Aerial position (D2) ard (D3) est (D5)	num of two requ (MLRA 1, 2, 2) Imagery (C9)
rdrology etland Hydro imary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi Surface Soil	logy Indictors (minister (A1) Table (A2) (A3) s (B1) eposits (B2) ts (B3) Crust (B4) ts (B5) Cracks (B6)	mum of o	gery (B7)	Water-Sta 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence of Recent Iro	ined Leaver and 4B) (B11) (B11	s (B13) or (C1) es on Living l Iron (C4) on in Tilled So Plants (D1) (Roots (C3)	Seconda Wate 4A, a Drain Dry: Satu Geor Shall FAC- Raise	ary Indica er-Stained and 4B) nage Patte Season Wa ration Visi norphic Po low Aquita neutral Te ed Ant Mo	ators (minim Leaves (B9) erns (B10) ater Table (C2 ble on Aerial osition (D2) ard (D3) est (D5) unds (D6) (LF	num of two requ (MLRA 1, 2, 2) Imagery (C9)
rdrology etland Hydro imary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi Surface Soil Inundation Sparsely Ve	logy Indictors (miniter (A1) Table (A2) (A3) s (B1) eposits (B2) ts (B3) Crust (B4) ts (B5) Cracks (B6 Visible on A getated Co	mum of c	gery (face (B7)	Water-Sta 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted oi Other (Exp	ined Leaver and 4B) (B11) (B	s (B13) or (C1) es on Living l Iron (C4) on in Tilled So Plants (D1) (Roots (C3)	Seconda Wate 4A, a Drain Dry: Satu Geor Shall FAC- Raise	ary Indica er-Stained and 4B) nage Patte Season Wa ration Visi norphic Po low Aquita neutral Te ed Ant Mo	ators (minim Leaves (B9) erns (B10) ater Table (C2 ble on Aerial osition (D2) ard (D3) est (D5) unds (D6) (LF	num of two requ (MLRA 1, 2, 2) Imagery (C9)
drology etland Hydro imary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi Surface Soil Inundation Sparsely Ve	logy Indictors (miniter (A1) Table (A2) (A3) s (B1) eposits (B2) ts (B3) Crust (B4) ts (B5) Cracks (B6 Visible on A getated Co	mum of c	ggery (B7) B8)	Water-Sta 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence of Recent Iro	ined Leaver and 4B) (B11) (B	s (B13) or (C1) es on Living l Iron (C4) on in Tilled So Plants (D1) (Roots (C3)	Seconda Wate 4A, a Drain Dry: Satu Geor Shall FAC- Raise	ary Indica er-Stained and 4B) nage Patte Season Wa ration Visi norphic Po low Aquita neutral Te ed Ant Mo	ators (minim Leaves (B9) erns (B10) ater Table (C2 ble on Aerial osition (D2) ard (D3) est (D5) unds (D6) (LF	num of two requ (MLRA 1, 2, 2) Imagery (C9)
ydrology Yetland Hydro rimary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi Surface Soil Inundation Sparsely Ve eld Observati arface Water Preservater Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi Surface Soil Inundation	logy Indictors (miniter (A1) Table (A2) (A3) s (B1) eposits (B2) ts (B3) Crust (B4) ts (B5) Cracks (B6 Visible on A getated Co ions: resent?	mum of c	ggery (B7)	Water-Sta 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted oi Other (Exp	ined Leave: and 4B) (B11) wertebrates Sulfide Odi Rhizosphere of Reduced on Reduction r Stressed F plain in Rer	s (B13) or (C1) es on Living l Iron (C4) on in Tilled So Plants (D1) (Roots (C3) oils (C6) LRR A)	Seconda Wate 4A, a Drain Dry: Satu Geor Shall FAC- Raise Frost	ary Indica er-Stained and 4B) nage Patte Season Wa ration Visi morphic Po low Aquita neutral Te ed Ant Mo t Heave Hu	ators (minim Leaves (B9) erns (B10) ater Table (C2) ble on Aerial osition (D2) ard (D3) est (D5) unds (D6) (LF ummocks (D7	num of two requ (MLRA 1, 2, 2) Imagery (C9) RR A)
ydrology Yetland Hydro rimary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi Surface Soil Inundation Sparsely Ve Yetla Observation Vater Table Presentation Presentation Presentation	logy Indictors (miniter (A1) Table (A2) (A3) s (B1) eposits (B2) ts (B3) Crust (B4) ts (B5) Cracks (B6 Visible on A getated Co ions: eesent? sent?	mum of c	ggery (B7) B8)	Water-Sta 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Stunted or Other (Exp	ined Leave: and 4B) (B11) (CHOOLE (CHOO	s (B13) or (C1) es on Living l Iron (C4) on in Tilled So Plants (D1) (Roots (C3) oils (C6) LRR A)	Seconda Wate 4A, a Drain Dry: Satu Geor Shall FAC- Raise	ary Indica er-Stained and 4B) nage Patte Season Wa ration Visi morphic Po low Aquita neutral Te ed Ant Mo t Heave Hu	ators (minim Leaves (B9) erns (B10) ater Table (C2 ble on Aerial osition (D2) ard (D3) est (D5) unds (D6) (LF	num of two requ (MLRA 1, 2, 2) Imagery (C9)
emarks: ydrology etland Hydro rimary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat or Iron Deposi Surface Soil Inundation Sparsely Ve eld Observation arface Water Presented of the present couldes capillar	logy Indictors (miniter (A1) Table (A2) (A3) s (B1) eposits (B2) ts (B3) Crust (B4) ts (B5) Cracks (B6 Visible on A getated Co tions: eesent? sent? y fringe)	mum of o	ggery (B7) B8) No • No •	Water-Sta 1, 2, 4A, a 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted on Other (Exp	ined Leave: and 4B) (B11) (B11) (B11) (B12) (B13) (B14) (B15) (B16) (B17) (B17) (B18) (B18) (B18) (B19) (B	s (B13) or (C1) es on Living l Iron (C4) on in Tilled Si Plants (D1) (marks)	Roots (C3) oils (C6) LRR A) Wetla	Seconda Wate 4A, a Drain Dry : Satu Geor Shall FAC- Raise Frost	ary Indica er-Stained and 4B) nage Patte Season Wa ration Visi morphic Po low Aquita neutral Te ed Ant Mo t Heave Hu	ators (minim Leaves (B9) erns (B10) ater Table (C2) ble on Aerial osition (D2) ard (D3) est (D5) unds (D6) (LF ummocks (D7	num of two requ (MLRA 1, 2, 2) Imagery (C9) RR A)

Project/Site: DESCHUTES LWI	Ci	ty/County:	SUNRIVER/	DESCHUTES Sampling Date: 17-Nov-10
Applicant/Owner: DESCHUTES COUNTY				State: OR Sampling Point: SP 602
Investigator(s): Sarah Hartung		Section, To	wnship, Ra	ange: S 24
Landform (hillslope, terrace, etc.): Flat		Local relief ((concave, o	convex, none): none
Subregion (LRR): LRR A	 Lat.: 43.	7453		Long.: -121.4694 Datum: NAD83
Soil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 per		, 100		NWI classification: PEMA
Are climatic/hydrologic conditions on the site typical for this		Ves	● No (
	significantly d			Iormal Circumstances" present? Yes No
	-			F
-	naturally prob			eded, explain any answers in Remarks.)
Summary of Findings - Attach site map sh	lowing sar	npling po	oint ioc	ations, transects, important features, et
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	Area
Hydric Soil Present? Yes No		within	a Wetland	d2 Yes ● No ○
Wetland Hydrology Present? Yes No		Within	a wettane	•
Remarks:				
VEGETATION - Use scientific names of plan	its.	Dominant _Species? _		
Tree Stratum (Plot size:	Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1	0	0.0%	Jiaius	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2		0.0%		That are obc, FACW, or FAC.
3		0.0%		Total Number of Dominant Species Across All Strata: 2 (B)
4	_	0.0%		Species vicioss viii strata.
Sapling/Shrub Stratum (Plot size:	=	= Total Cove	r	Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
1,	0	0.0%_		Prevalence Index worksheet:
2		0.0%		Total % Cover of: Multiply by:
3		0.0%		0BL speci es0 x 1 =0
4	0	0.0%		FACW species60 x 2 =120
5		0.0%		FAC species 35 x 3 = 105
Herb Stratum (Plot size:	=	= Total Cove	r	FACU speciles $\frac{5}{}$ x 4 = $\frac{20}{}$
1 Juncus balticus	60	✓ 60.0%	FACW	UPL species $0 \times 5 = 0$
2. Trifolium repens		30.0%	FAC	Column Totals:
3 Festuca arundinacea	5	5.0%	FAC	Prevalence Index = B/A =2.450
4. Taraxacum officinale	5	5.0%	FACU	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)
9		0.0%		☐ Wetland Non-Vascular Plants ¹
11.		0.0%		☐ Problematic Hydrophytic Vegetation ¹ (Explain)
11;		= Total Cove		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:				be present, unless disturbed or problematic.
1	0	0.0%		
2	0	0.0%		Hydrophytic
	0 =	= Total Cove	r	Vegetation 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:	SP 602
Profile Desc	ription: (Des	scribe to t	he depth ne	eeded to documen	t the ind	licator or c	onfirm the	absence of indicat	ors.)	
Depth		Matrix		Re	dox Feat	ures		_		
(inches)	Color (r	noist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks	
0-3	7.5YR	3/3	100%					Loam	40% organic	
3-6	10YR	3/2	100%					Loamy Sand		
6-18	10YR	4/3	80%		-		-	Sand	20% silts	
	10YR	5/6	20%	-				Sand	no streaking	
				 -						
¹ Type: C=Cor	ncentration. D	=Depletion	. RM=Reduce	ed Matrix, CS=Cover	ed or Coa	ated Sand G	rains ² Loc	ation: PL=Pore Linin	g. M=Matrix	
Hydric Soil	Indicators:	(Applicab	le to all LRR	Rs, unless otherwi	se noted	l.)		Indicators for	Problematic Hydric Soi	ils: ³
Histosol (Sandy Redox				2 cm Muck	(A10)	
	ipedon (A2)			Stripped Matr		(F1) (avaant	in MLDA 1)	=	Material (TF2)	
Black His	n Sulfide (A4)			Loamy Gleyed			III WILKA I)	✓ Other (Expl	ain in Remarks)	
	Below Dark S	Surface (A1	1)	Depleted Mat		,				
	rk Surface (A1	•	-,	Redox Dark S	urface (F	6)		³ Indicators of hyd	rophytic vegetation and	
	uck Mineral (S	•		Depleted Darl	k Surface	(F7)		wetland hydro	ogy must be present,	
Sandy Gl	eyed Matrix (S	64)		Redox depres	sions (F8)		unless disturbe	ed or problematic.	
Restrictive L	ayer (if pres	sent):								
Type:										\bigcirc
Depth (inc	ches):							Hydric Soil Prese	ent? Yes • No	0
Hydrolog	у									
Wetland Hyd	drology Indi	cators:								
Primary Ind	icators (mini	mum of o	ne required	l; check all that ap	pply)			Secondar	y Indicators (minimum	of two required
Surface	Water (A1)					s (B9) (exce	pt MLRA		Stained Leaves (B9) (MLI	RA 1, 2,
	ter Table (A2))		1, 2, 4A, an				4A, an	•	
Saturation				Salt Crust (I	,				ge Patterns (B10)	
	arks (B1)			Aquatic Inv					ason Water Table (C2)	
	it Deposits (B2	2)		☐ Hydrogen S			D 1 (00)		tion Visible on Aerial Ima	gery (C9)
	oosits (B3)	`				es on Living	Roots (C3)		orphic Position (D2)	
	t or Crust (B4))		☐ Presence of			" (0()		v Aquitard (D3)	
	oosits (B5) Soil Cracks (Be	۷)				on in Tilled S			eutral Test (D5)	`
	on Visible on A	•	iory (P7)	Stunted or S			(LRR A)		Ant Mounds (D6) (LRR A	1)
	Vegetated Co	· ·		Utner (Expi	ain in Rer	narks)		☐ F1051 F	leave Hummocks (D7)	
зрагзету	vegetateu co	incave sui i	ace (bb)							
Field Observ	ations:	_			_		_			
Surface Water	r Present?	Yes			ches):					
Water Table F	Present?	Yes	O No 💿	Depth (inc	ches):					
Saturation Pre		Yes	O No ●	Depth (inc	ches):		Wetla	and Hydrology Pres	sent? Yes 🖲 No	o
(includes capi				itor well, aerial ph		evious insn	ections) if	f available:		
Pegering IVE	Jordon Dala	(Stream 9	jaage, mom	nor won, acriai pri	otos, pri	orious irisp	octions), II	avanabic.		
Remarks:										
	information	about irria	ating the s	ito in the enrine						
Landowner	inionnation a	about IIIIg	jaung me S	ite in the spring.						

Project/Site: DESCHUTES LWI			City/County:	SUNRIVER/	DESCHUTES	Sampling Date: 03-D	Dec-10
Applicant/Owner: DESCHUTES COUNT	ΓΥ				State: OR	_ Sampling Point:_	SP 603
Investigator(s): Sarah Hartung			Section, To	wnship, R	ange: S T_	R	
Landform (hillslope, terrace, etc.):			Local relief	(concave,	convex, none): concave		
Subregion (LRR): LRR A		Lat.:			Long.:	Datu	m: NAD83
Soil Map Unit Name:					NWI classi	fication:	-
are climatic/hydrologic conditions on			? Yes	• No	(If no, explain in	Remarks.)	
Are Vegetation, Soil	, or Hydrology s	ignificantly	disturbed?	Are "N	lormal Circumstances" p	oresent? Yes	No O
Are Vegetation, Soil	, or Hydrology 🔲 r	naturally pro	blematic?	(If ne	eded, explain any answe	ers in Remarks.)	
Summary of Findings - At				-			atures, et
Hydrophytic Vegetation Present?	Yes No		Is the	Sampled A	Area		
Hydric Soil Present?	Yes No		within	a Wetland	Yes No		
Wetland Hydrology Present?	Yes ● No ○		Within	a wetland	4 : 		
VEGETATION - Use scien	itific names of plant	ts.	Dominant Species?				
Tree Stratum (Plot size:)	Absolute % Cover		Indicator Status	Dominance Test work	sheet:	
1	,		0.0%	<u> </u>	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%		Developed to the state of the		
Sapling/Shrub Stratum (Plot size:)	0	= Total Cove	er	Percent of dominant S That Are OBL, FACW,		% (A/B)
1. Salix geyeriana		0	0.0%	FACW	Prevalence Index wor	ksheet:	
2			0.0%		Total % Cover o		
34.		_	0.0%			0 x 1 =	0
4 5.			0.0%		FACW species	0 x 2 =	0
<u> </u>		0	= Total Cove		FAC species	^ ^ -	0
Herb Stratum (Plot size:)		= Total Cove	-1	FACU speciles	0 x 4 =	0
1 Carex aquatilis			70.0%	FACW	UPL species — Column Totals:	$\frac{0}{0} x 5 = -$	0 (B)
2. Veronica americana			10.0%	OBL		(%)	
3 Poa sp. A Agrostis sp.			10.0%	FAC FAC	Prevalence Index		<u></u>
4. Agrostis sp. 5.			0.0%	TAC	Hydrophytic Vegetation Dominance Test i		
6			0.0%		Prevalence Index		
7		0	0.0%			laptations ¹ (Provide	supporting
8.—		_	0.0%			or on a separate she	
9			0.0%		Wetland Non-Vas	cular Plants ¹	
10		_	0.0%		Problematic Hydr	rophytic Vegetation ¹	(Explain)
_		100	= Total Cove	er	¹ Indicators of hydric s be present, unless dis		
Woody Vine Stratum (Plot size:)	0	0.0%				
1,		0	0.0%		Hydrophytic		
2		0	= Total Cove		Vegetation	● No ○	
% Bare Ground in Herb Stratum	ı: O		. I Star Cove	··•	Present? Yes	- 1,5 -	
Remarks:	··· <u>·</u>						
Poa sp. and Agrostis sp. assumed	FAC.						

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

Soil										Sampling Po	oint: SP 603
Profile Desc	ription: (Des	cribe to th	e depth ne	eded to	documen	t the indi	cator or c	onfirm the	absence of indicato	rs.)	
Depth		Matrix				dox Featu			_		
(inches)	Color (n		<u></u> %	Color	(moist)	%	Type ¹	Loc ²	Texture	Rema	arks
0-6	10YR	2/2	100%						peat		
6-18	10YR	3/1	90%	10YR	3/3	10%	C	M	Clay Loam	Remarks Remarks Lining. M=Matrix Sefor Problematic Hydric Soils: Muck (A10) Parent Material (TF2) r (Explain in Remarks) Of hydrophytic vegetation and hydrology must be present, isturbed or problematic. Present? Yes No No No No No No No No No No	
									-		
					_						
Type: C=Con	centration. D	=Depletion.	RM=Reduce	ed Matrix	c, CS=Covere	ed or Coat	ed Sand G	rains ² Loc	ation: PL=Pore Lining.	M=Matrix	
lydric Soil	Indicators:	(Applicable	e to all LRF	Rs, unle	ss otherwis	se noted.)		Indicators for Pr	oblematic Hydr	ic Soils:3
Histosol ((A1)			☐ Sa	andy Redox	(S5)			2 cm Muck (A	ر10)	
Histic Epi	pedon (A2)			St	tripped Matri	ix (S6)			Red Parent M	aterial (TF2)	
Black His	. ,				oamy Mucky	-		in MLRA 1)	Other (Explain	n in Remarks)	
	n Sulfide (A4)		_		oamy Gleyed		2)				
	Below Dark S)		epleted Matr edox Dark Si		١		2		
	rk Surface (A1	-		=	epleted Dark		•				
	uck Mineral (S eyed Matrix (S	•			edox depres		,				iit,
	ayer (if pres	-			·						
Type:	ayer (ii pres	ent).									
Depth (inc	h o o \ .								Hydric Soil Presen	it? Yes •	No O
Remarks:											
lydrolog	у										
,	drology India										
Primary Indi	icators (mini	mum of or	ne required	l; check	all that ap	ply)			Secondary	Indicators (mini	imum of two requir
Surface \	Water (A1)				Water-Stain		(B9) (exce	ept MLRA) (MLRA 1, 2,
High Wa	ter Table (A2)				1, 2, 4A, and	d 4B)				•	
✓ Saturatio	on (A3)				Salt Crust (E	,			Drainage	e Patterns (B10)	
Water M	arks (B1)				Aquatic Inve	ertebrates	(B13)		Dry Seas	son Water Table (C2)
	t Deposits (B2	2)			Hydrogen Si	ulfide Odo	r (C1)		Saturation	on Visible on Aeria	al Imagery (C9)
	osits (B3)				Oxidized Rh		-	Roots (C3)	Geomor	ohic Position (D2)	
	t or Crust (B4))			Presence of	Reduced I	ron (C4)				
	osits (B5)				Recent Iron	Reduction	in Tilled S	oils (C6)	☐ FAC-neu	tral Test (D5)	
_	Soil Cracks (Bé	•			Stunted or S	Stressed Pl	ants (D1)	(LRR A)	Raised A	int Mounds (D6) ([LRR A)
Inundati	on Visible on A	Aerial Image	ery (B7)	✓	Other (Expla	ain in Rem	arks)		Frost He	ave Hummocks ([07)
Sparsely	Vegetated Co	ncave Surfa	ce (B8)								
ield Observ	ations.										
Surface Water		Yes C	No 💿		Depth (inc	hes).		7			
		Yes •					4,				
Water Table F		_			Depth (inc	:hes):	16	Wetla	and Hydrology Prese	nt? Yes •	No 🔾
Saturation Pre includes capi		Yes 🤄	No 🔾		Depth (inc	:hes):	12	wette	iijaiology i iese		
	corded Data	(stream ga	auge, mon	itor wel	I, aerial ph	otos, pre	vious insp	ections), if	f available:		
		Ü	=		•	•		-			
emarks:											
	long pod au	faces Bee	t professio	امينا امرا	nomont o	most sat:	ıration iin	unnor nor	t during early growir	na coscon	
aturatiUII d	iong peu sul	iaces. Des	r broig2210	ııaı juu(gernent- ex	ipeui sall	arauvii IIII	apper par	t during early grown	ig scasuii.	

Project/Site: DESCHUTES LWI			City/County:	SUNRIVER/	DESCHUTES	Sampling Date: 17-1	Nov-10
Applicant/Owner: DESCHUTES COUNT	ТҮ				State: OR	_ Sampling Point:_	SP 604
Investigator(s): Sarah Hartung			Section, To	wnship, R	ange: S 2 T 2	1 S R 10 E	
Landform (hillslope, terrace, etc.):	Valley bottom		Local relief	(concave,	convex, none): concave	Slope:	2.0% / 0.0°
Subregion (LRR): LRR A		Lat.: 43	.7892		Long.: -121.5030	Datu	ım: NAD83
Soil Map Unit Name: 29A: Cryaquolls	s, 0 to 3 percent slopes				NWI classif	fication: PFOA	
Are climatic/hydrologic conditions on	the site typical for this	time of year	? Yes	• No	(If no, explain in	Remarks.)	
Are Vegetation $\ \square$, Soil $\ \square$, or Hydrology 🔲 s	ignificantly	disturbed?	Are "N	lormal Circumstances" p	resent? Yes •	No 🔾
Are Vegetation, Soil	, or Hydrology 🔲 r	naturally pro	blematic?	(If ne	eded, explain any answe	ers in Remarks.)	
Summary of Findings - At	tach site map sho	owing sa	mpling p	oint loc	ations, transects,	, important fea	atures, et
Hydrophytic Vegetation Present?	Yes ● No ○		Is the	Sampled A	Area		
Hydric Soil Present?	Yes No				Vac (Na (
Wetland Hydrology Present?	Yes No		within	a Wetland	17 100 - 110 -		
Remarks:							
VEGETATION - Use scien	ntific names of plant	ts.	Dominant Species?				
Tree Stratum (Plot size:)	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test works	sheet:	
1,	,	0	0.0%		Number of Dominant Spe That are OBL, FACW, or		(A)
2,		0	0.0%				` ` '
3,		_	0.0%		Total Number of Domina Species Across All Strata:		(B)
4		0	0.0%		Derecht of deminent (
Sapling/Shrub Stratum (Plot size:)	0	= Total Cove	er	Percent of dominant S That Are OBL, FACW,		% (A/B)
1,		0	0.0%		Prevalence Index work	ksheet:	-
2			0.0%		Total % Cover of	f: Multiply by:	
3		_	0.0%			80 x 1 =	80
4 5.			0.0%			10 x 2 =	20
J					- No speed es	10 x 3 =	0
Herb Stratum (Plot size:)	0	= Total Cove	er	FACU speci es	0 x 4 =	0
1 Carex aquatilis		80	✓ 80.0%	OBL	UPL species —	^	130 (B)
2. Phalaris arundinacea		10	10.0%	FACW	Cordiiii Totars.	(^)	
3 Hordeum jubatum			10.0%	FAC	Prevalence Index		<u>30</u>
4		_	0.0%		Hydrophytic Vegetatio Dominance Test is		
5			0.0%		Prevalence Index		
7			0.0%			laptations ¹ (Provide	supporting
8.—			0.0%			or on a separate she	
9			0.0%		☐ Wetland Non-Vas	cular Plants ¹	
10.		_	0.0%		Problematic Hydr	ophytic Vegetation ¹	(Explain)
11.———		100	= Total Cove	er	¹ Indicators of hydric s be present, unless dis		
Woody Vine Stratum (Plot size:)				be present, unless dis	turbed or problemai	IIC.
1		0	0.0%				
2			0.0%		Hydrophytic Vegetation		
		0	= Total Cove	er	Present? Yes	● No ○	
% Bare Ground in Herb Stratum	n: <u>0</u>						
Remarks:							

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

Soil								San	npling Point:	SP 604
Profile Descr	iption: (De	scribe to	the depth n	eeded to docu			onfirm the	absence of indicators.)		
		Redox Featu								
		•		Color (moist	:) %	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR	2/2	100%					peat		
6-20	10YR	3/1	60%	10YR 4	/1 30%	D	M	Silty Clay Loam		
								P		
Type: C=Cond	 centration. D	=Depletio	n. RM=Reduc	ced Matrix, CS=C	overed or Coa	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=Mat	rix	
Hydric Soil I	ndicators:	(Applicat	ble to all LR	Rs, unless othe	rwise noted.)		Indicators for Problema	atic Hydric So	oils:3
Histosol (A					edox (S5)	•		2 cm Muck (A10)	,	
Histic Epip	pedon (A2)			Stripped	Matrix (S6)			Red Parent Material (TF2)	
Black Hist					ucky Mineral (I	, , ,	in MLRA 1)	Other (Explain in Ren	narks)	
	Sulfide (A4)				leyed Matrix (F	2)				
Depleted	Below Dark S	Surface (A	11)		Matrix (F3)					
Thick Darl	k Surface (A1	12)			ark Surface (F6	-		³ Indicators of hydrophytic v		l
	ck Mineral (S	•			Dark Surface			wetland hydrology must unless disturbed or prob		
Sandy Gle	eyed Matrix (S4)		Redox de	pressions (F8)			unless disturbed or prob	iematic.	
estrictive La	ayer (if pre	sent):								
Type:										
Depth (incl	hes):							Hydric Soil Present?	Yes 💿 No	, O
Remarks:										
lydrology										
Vetland Hyd			ono roquiro	d; check all tha	at apply)			Secondary Indicate	ore (minimur	m of two roqui
		iiiiuiii oi	one require			(DO) (-+ MI DA			
_	Vater (A1) er Table (A2))			Stained Leaves A, and 4B)	(B9) (exce	pt MLRA	Water-Stained L 4A, and 4B)	eaves (B9) (Mi	LRA 1, 2,
Saturation	n (A3)			Salt Cri	ust (B11)			☐ Drainage Patterr	ns (B10)	
Water Ma	arks (B1)			Aquatio	Invertebrates	(B13)		Dry Season Water	er Table (C2)	
Sediment	Deposits (B2	2)		Hydrog	en Sulfide Odo	or (C1)		Saturation Visible	e on Aerial Im	agery (C9)
Drift depo	osits (B3)			Oxidize	d Rhizosphere:	s on Living I	Roots (C3)	Geomorphic Pos		3 , (,
Algal Mat	or Crust (B4	1)			ce of Reduced	-	. ,	Shallow Aquitard		
Iron Depo		.,			Iron Reduction		nils (C6)	FAC-neutral Test		
_	oil Cracks (B	66)			d or Stressed P			Raised Ant Mour		۸١
_	on Visible on	•	gery (R7)				LKK A)			A)
_				Utner (Explain in Rem	iarks)		Frost Heave Hun	IIIIOCKS (D7)	
Sparsely	Vegetated Co	oncave Sur	rrace (B8)							
ield Observa	ations:									
Surface Water	Present?	Yes	O No @	Depth	(inches):		1			
Water Table Pi	resent?	Yes	• No	Depth	n (inches):	11			6	
Saturation Predincludes capill		Yes	● No C) Depth	n (inches):	6	Wetla	and Hydrology Present?	Yes	No O
		(stream	gauge, mor	nitor well, aeria	l photos, pre	vious insp	ections), if	f available:		
om orles										
emarks:										

Project/Site: DESCHUTES LWI		City/County:	SUNRIVER/	DESCHUTES Sampling	Date: 17-Nov-10
Applicant/Owner: DESCHUTES COUNTY				State: OR Sampl	ing Point: SP 605
Investigator(s): Sarah Hartung		Section, To	wnship, R	ange: S 2	R 10 E
Landform (hillslope, terrace, etc.): swale, valley bottom		Local relief	(concave,	convex, none): concave	Slope: 2.0% / 0.0 °
Subregion (LRR): LRR A	 Lat.: 43			Long.: -121.5067	Datum: NAD83
				NWI classification: F	
Soil Map Unit Name: 144A: Sunriver sandy loam, 0 to 3 per ure climatic/hydrologic conditions on the site typical for this		2 Vac	• No (
Are Vegetation . , Soil . , or Hydrology .	significantly			ormal Circumstances" present?	yes ● No ○
	-			-	
Are Vegetation . , Soil . , or Hydrology .	naturally pro			eded, explain any answers in Rem	
Summary of Findings - Attach site map sh	nowing sa	mpling p	oint ioc	ations, transects, impor	tant reatures, et
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	irea	
Hydric Soil Present? Yes No		within	a Wetland	yes ● No ○	
Wetland Hydrology Present? Yes No		Within	a wettane		
Remarks:					
VEGETATION - Use scientific names of plan	nts.	DominantSpecies? .			
Tree Stratum (Plot size:	Absolute % Cover		Indicator Status	Dominance Test worksheet:	
1 Pinus contorta	30	100.0%	FAC	Number of Dominant Species That are OBL, FACW, or FAC:	3 (A)
2.	0	0.0%			
3		0.0%		Total Number of Dominant Species Across All Strata:	3 (B)
4	0	0.0%			
Sapling/Shrub Stratum (Plot size:	30	= Total Cove	er	Percent of dominant Species That Are OBL, FACW, or FAC:	0.0% (A/B)
1 Salix geyeriana	50	100.0%	FACW	Prevalence Index worksheet:	
2	0	0.0%		Total % Cover of: M	fultiply by:
3	0	0.0%		OBL species10 x	1 = 10
4		0.0%		FACW species55 x	2 = 110
5		0.0%		FAC speci es115 x	3 = <u>345</u>
Herb Stratum (Plot size:	50	= Total Cove	er	•	4 = 0
1 Geum macrophyllum	5	5.0%	FACW	•	5 =
Veronica americana	10	10.0%	OBL	Column Totals: 180 (A) <u>465</u> (B)
3 Agrostis sp.	75	75.0%	FAC	Prevalence Index = B/A =	0.000
4. Bromus sp.	10	10.0%	FAC	Hydrophytic Vegetation Indicat	ors:
5	0	0.0%		☐ Dominance Test is > 50%	
6		0.0%		Prevalence Index is ≤3.0 ¹	
7.		0.0%		Morphological Adaptations	
8.		0.0%		data in Remarks or on a se	•
9		0.0%		Wetland Non-Vascular Plan	
11		0.0%		Problematic Hydrophytic V	egetation (Explain)
	100	= Total Cove	er	¹ Indicators of hydric soil and w be present, unless disturbed or	
Woody Vine Stratum (Plot size:	-			be present, unless disturbed of	problematic.
1	0	0.0%			
2	0	0.0%		Hydrophytic Vegetation	_
	0	= Total Cove	er	Present? Yes • No	\circ
% Bare Ground in Herb Stratum: 0					
Remarks:					
Agrostis sp. and Bromus sp. assumed FAC.					

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

Soil									Sampling Point:	SP 605
Profile Descript	ion: (Des	cribe to t	he depth r	needed to documer	t the ind	licator or co	onfirm the	absence of indicate	ors.)	
Depth		Matrix			dox Feat	ures				
(inches)	Color (n	noist)	<u>%</u>	Color (moist)	%_	Type ¹	Loc ²	Texture	Remarks	
0-6	10YR	2/2	100%					peat		
6-20	10YR	2/1	70%					Silt Loam	mixed matrix	
	10YR	3/2	30%							
Type: C=Concent	tration. D	=Depletion	. RM=Redu	ced Matrix, CS=Cover	ed or Coa	ited Sand Gr	ains ² Loc	ation: PL=Pore Lining	g. M=Matrix	
Hydric Soil Indi	icators:	(Applicab	le to all LR	Rs, unless otherwi	se noted	.)		Indicators for F	Problematic Hydric So	oils:3
Histosol (A1)				Sandy Redox				2 cm Muck (A10)	
Histic Epipedo	` '			Stripped Mati					Material (TF2)	
Black Histic (A	-			Loamy Mucky			in MLRA 1)	✓ Other (Expla	in in Remarks)	
Hydrogen Su		5 (84	4)	Loamy Gleye		F2)				
Depleted Belo		•	1)	Redox Dark S		6)		2		
Thick Dark Su		•		Depleted Dark		•			rophytic vegetation and ogy must be present,	
Sandy Muck I	•	•		Redox depres					d or problematic.	
Sandy Gleyed		-				,				
•	i (ii pies	sent):								
Type:	`							Hydric Soil Prese	nt? Yes 💿 No	\circ
Depth (inches)):							•	105 - 110	
Remarks:										
lydrology										
Netland Hydrol	ogy India	cators:								
Primary Indicate	ors (mini	mum of o	ne require	ed; check all that a	oply)			Secondary	Indicators (minimur	n of two requir
Surface Wate	er (A1)			Water-Stair	ned Leave	s (B9) (exce	pt MLRA	Water-	Stained Leaves (B9) (MI	RA 1. 2.
High Water 1				1, 2, 4A, ar				4A, and		
Saturation (A	,			Salt Crust (B11)			Drainac	ge Patterns (B10)	
Water Marks	•			Aquatic Inv	ertebrates	s (B13)			ason Water Table (C2)	
Sediment De))		Hydrogen S					ion Visible on Aerial Ima	agery (C9)
Drift deposits		-)				es on Living I	Roots (C3)		rphic Position (D2)	agery (C3)
Algal Mat or		`		Presence of	•	_	(0013 (03)			
Iron Deposits		,					" (0()		Aquitard (D3)	
·		/ \				n in Tilled S			utral Test (D5)	• >
Surface Soil	•	•	(DZ)			Plants (D1) (LRR A)		Ant Mounds (D6) (LRR	A)
Inundation V		`		✓ Other (Expl	ain in Rer	narks)		☐ Frost H	eave Hummocks (D7)	
Sparsely Veg	jetated Co	ncave Sur	face (B8)							
ield Observation	ons:			_						
Surface Water Pre	esent?	Yes (O No 🤄	Depth (in	ches):					
Water Table Prese	ent?	Yes (O No	Depth (in	ches):					
Saturation Presen		Yes	O No G				Wetla	and Hydrology Pres	ent? Yes 💿 N	lo \cup
(includes capillary Describe Record				nitor well, aerial ph	-	evious insp	= ections), if	f available:		
			,	, 22 6.	/ p					
emarks:										
	Rest nr	nfessiona	Liudaemer	nt indicates area w	nuld ha s	aturated fo	nr at least	2 weeks during the	arowina season	
ory 1110131 0-9	, bost pit	or CoolUlia	, judgemen	ii iiididates area W	ouid DE 3	aturatou II	or utileast.	2 WOORS during the	growing scason.	

Project/Site: DESCHUTES LWI		City/County:	SUNRIVER/	DESCHUTES	Sampling Date: 17-1	Nov-10
Applicant/Owner: DESCHUTES COUNTY				State: OR	Sampling Point:_	SP 606
Investigator(s): Sarah Hartung		Section, To	wnship, R	ange: \$ 2 T 2	1 S R 10 E	
Landform (hillslope, terrace, etc.): bottom of slope		Local relief	(concave, o	convex, none): flat	Slope:	2.0% / 0.0°
Subregion (LRR): LRR A	Lat .: 43	3.7856		Long.: -121.5067	Datu	m:_NAD83
Soil Map Unit Name: 29A: Cryaquolls, 0 to 3 percent	slopes			NWI classif	fication: PFOA	
Are climatic/hydrologic conditions on the site typical		? Yes	● No ((If no, explain in	Remarks.)	
Are Vegetation \square , Soil \square , or Hydrology	significantly	disturbed?	Are "N	lormal Circumstances" p	oresent? Yes •	No \bigcirc
Are Vegetation , Soil , or Hydrology	naturally pro	blematic?	(If nee	eded, explain any answe	ers in Remarks.)	
Summary of Findings - Attach site ma	ap showing sa	mpling po			•	atures, et
Hydrophytic Vegetation Present? Yes No		Is the	Sampled A	Area		
Hydric Soil Present? Yes No		within	a Wetland	Yes No		
Wetland Hydrology Present? Yes No	0	Within	a wetiane	··		
VEGETATION - Use scientific names o	•	Dominant —Species?				
Tree Stratum (Plot size:	Absolute % Cover		Indicator Status			
1. Pinus contorta	50	1 00.0%	FAC	Number of Dominant Spo That are OBL, FACW, or		(A)
2		0.0%		Total Number of Domina	ant .	
3		0.0%		Species Across All Strata	•	(B)
4		0.0%		Percent of dominant S	Snecies	
Sapling/Shrub Stratum (Plot size:		= Total Cove	r	That Are OBL, FACW,		% (A/B)
1,		0.0%		Prevalence Index worl	ksheet:	
2		0.0%		Total % Cover o		
34.	•	0.0%			0 x 1 =	0
5.		0.0%		-	0 x 2 =	<u>0</u> 360
	0	= Total Cove			12 x 4 =	48
Herb Stratum (Plot size:		- Total cove	•	UPL species —	x 4 = 0	0
1 Achillea millefolium		2.2%	FACU	•	x 5	408 (B)
2. Fragaria virginiana		<u>10.9%</u> ✓ 43.5%	FACU	Cordiiii Totars.	(7)	
3 <u>Carex sp.</u> 4 Poa sp.	<u>40</u> 30	✓ 43.5% ✓ 32.6%	FAC FAC	Prevalence Index		<u></u>
5 Unknown herb	10	10.9%		Hydrophytic Vegetatio Dominance Test i		
6	0	0.0%		Prevalence Index		
7		0.0%		Morphological Ad	laptations 1 (Provide	supporting
8.		0.0%		data in Remarks	or on a separate she	et)
9		0.0%		Wetland Non-Vas		
11		0.0%		☐ Problematic Hydr	rophytic Vegetation ¹	(Explain)
Woody Vine Stratum (Plot size:	92	= Total Cove	r	¹ Indicators of hydric s be present, unless dis		
1	0	0.0%				
2.	0	0.0%		Hydrophytic		
		= Total Cove		Vegetation Present? Yes	● No ○	
% Bare Ground in Herb Stratum: 8						
Remarks:				1		
Carex sp. and Poa sp. assumed to be FAC.						

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

Soil										Sampling Point:	SP 606
Profile Desc	ription: (Des	scribe to	the depth n	eeded to	document	t the indi	cator or co	onfirm the	absence of indicator	rs.)	
Depth		Matrix				lox Featu			_		
(inches)	Color (r	-	%	Color ((moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-3	10YR	2/1							Silt Loam	with 30% duff/d	organi cs
3-10	10YR	4/1	90%	10YR	4/4	10%	C	M	Clay Loam		
10-20	10YR	6/2	80%	10YR	4/4	20%	C	M	Sand	streaking in sa	and
· · · · · · · · · · · · · · · · · · ·	centration. D							rains ² Loc	 ration: PL=Pore Lining.		
Histosol (Histic Epi Black His Hydroger	pedon (A2)			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 (A	aterial (TF2)	s: ³
Thick Dar Sandy Mu Sandy Glo	rk Surface (A1 uck Mineral (S eyed Matrix (S ayer (if pres	2) 1) 54)	1)	Re	dox Dark Su pleted Dark dox depress	urface (F6) Surface (phytic vegetation and yy must be present, or problematic.	
Depth (inc Remarks:	леѕ):									t? Yes • No ·	
lydrolog Wetland Hyd	y drology Indic	cators:									
Primary Indi	icators (mini	mum of o	one require	d; check	all that ap	ply)			Secondary I	ndicators (minimum	of two require
	Water (A1) ter Table (A2)				Vater-Staine , 2, 4A, and		(B9) (exce	pt MLRA	Water-St 4A, and	ained Leaves (B9) (MLR 4B)	A 1, 2,
Saturation	on (A3)				Salt Crust (B	311)			Drainage	Patterns (B10)	
Water M	arks (B1)				Aquatic Inve	ertebrates	(B13)		☐ Dry Seas	on Water Table (C2)	
Sedimen	t Deposits (B2	2)		_ ⊦	Hydrogen Su	ulfide Odoi	(C1)		☐ Saturatio	n Visible on Aerial Imag	ery (C9)
Drift dep	osits (B3)				Oxidized Rhi	izospheres	on Living I	Roots (C3)	Geomorp	hic Position (D2)	
	t or Crust (B4))		F	Presence of	Reduced I	ron (C4)		Shallow A	Aquitard (D3)	
	osits (B5)				Recent Iron					ral Test (D5)	
_	Soil Cracks (Bo	•			Stunted or S	Stressed Pl	ants (D1) (LRR A)		nt Mounds (D6) (LRR A)	
_	on Visible on <i>i</i> Vegetated Co			✓ (Other (Expla	in in Rema	arks)		☐ Frost Hea	ave Hummocks (D7)	
ield Observ	ations:		0 0					=			
Surface Water	r Present?	Yes			Depth (inc	hes):					
Nater Table F		Yes			Depth (inc	hes):		\\/o+!	and Hydrology Proces	nt? Yes • No	\circ
Saturation Pre (includes capi		Yes (stream)			Depth (incl		ilous lass		and Hydrology Preser	it: 165 C 110	
	Jorden Dala	(Suequi)	yauye, mor	iitoi well,	аснан рпс	uius, pre\	/10us 1115P	ections), II	i avaiiable.		
emarks:			1		6			1. 90			
	n spring base ghout spring		uowner info	rmation.	springs lo	ocated at	pase of th	ne nili prov	viae nyarology for the	e area. Water ponds (on nearby