Cliff Mort c/o: Big Creek Land Company 1950 W. Bellerive Lane, Suite B107, Coeur d'Alene, Idaho 83814 (208) 691-4654 Cliff@buildmort.com

Re: Wetland Letter Report for Litehouse Property; Woodland Dr, ID RPS00000103605A; 10-57N-2W N2SWNW LESS N 30FT E OF CO RD; SESWNW

#### Dear Cliff:

Per your request for environmental services, I am submitting this Wetland Delineation Letter Report for the above-referenced property (Figures 1, 2). On April 16, 2021, I used the Regional Supplement to the Corps of Engineers (Corps) Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region U.S. Army Corps of Engineers 2010, to determine whether the three required wetland parameters (<u>vegetation</u>, <u>soils</u>, and <u>hydrology</u>) were present. I completed 11 Data Plots and found no evidence of hydrology. For a wetland to be jurisdictional, it is required that all three parameters be observed, or indicators thereof.

#### **Site Conditions**

The property consists of undeveloped open pasture that has been mowed regularly. The property is in an area mapped by the National Wetland Inventory as completely within a PEM1C (palustrine, emergent, persistent, seasonally flooded) wetland. The soils were mapped as Odenson silt loam (a hydric soil).

#### Vegetation

The site investigation was completed early in the season to ascertain whether or not wetland hydrology could be present. As such, the vegetation was just "emerging" and consisted of pastures grasses, clearly bentgrass (*Agrostis stolonifera* [FAC]), timothy (*Phleum pratense* [FAC]), and likely in some areas, meadow foxtail (*Alopcurus pratensis* [FAC]). Essentially all pasture grasses are considered hydrophytes, thus the site has hydrophytic vegetation.

#### Soils

The site soils were mapped as Odenson silt loam (a hydric soil). Most soils had matrix chromas of 3 or 4 with or without redoximorphic features. Two Plots showed reducing conditions. Table 1 summarizes the soil data plot characteristics.

**Table 1 Data Plot Summary (forms attached)** 

Data Plot	Vegetation (hydrophytic?*)	Soils: (hydric?)	Hydrology (present?)	Wetland?
1	yes	2.5Y 5/3 w M; no	no	no
2	yes	2.5Y 5/3 w M; no	no	no
3	yes	10YR 4/4 w M; no	no	no
4	yes	10YR 5/2 w M; yes	no	no
5	yes	10YR 5/2 w M; yes	no	no
6	yes	2.5Y 5/3 w M; no	no	no
7	yes	2.5Y 5/3 w M; no	no	no
8	yes	2.5Y 5/3 w M; no	no	no
9	yes	10YR 5/3; no	no	no
10	yes	2.5Y 5/3 w M; no	no	no
11	yes	2.5Y 5/3 w M; no	no	no

<sup>\*</sup> all pastures grasses are FAC and considered hydrophytes; "M" = mottles (redoximorphic features). Hydric indicators require a chroma of 2 or less and value of 4 or more to be considered a reduced matrix.

#### Hydrology

The National Wetland Inventory (NWI) mapped the entire property as PEM1C wetland. The site investigation occurred early in the spring to ascertain potential wetland hydrology given the low areas near the airport. None of the soil Data Plots showed any indication of a high water table or surface expressions of wetland hydrology. Since it has been a relatively dry spring, I completed some data plots on the property immediately west of and adjacent the Litehouse property and found surface hydrology and water in some of those soil pits - attesting to spring hydrology being present in the general vicinity - but not on the subject property.

#### **Wetland Determination**

Since wetland hydrology was lacking, none of the property would be considered wetland. It is possible however, in severe rainfall / precipitation events in very wet years, that some surface hydrology could be present — however the soils did not demonstrate clear reducing conditions (in most cases). The entire region has been significantly developed and it is possible that ditches, or re-routing of surface waters throughout the vicinity have altered the former "natural" state of hydrology. Even if some very small areas could be ponded for short duration, there did not appear to be any hydrologic connections with off-site "Waters of the US", and hence any potential wetland areas (if present) would likely be considered "isolated" by the Corps, and hence not regulated.

### I conclude there are no wetlands on the Litehouse Property

Thank you for requesting my services. Let me know if you have any questions or need additional information.

Sincerely,

Tom Duebendorfer, MA, PWS (Emeritus)

encls: Figure 1: Vicinity Map

Figure 2: National Wetland Inventory and NRCS Soils Map

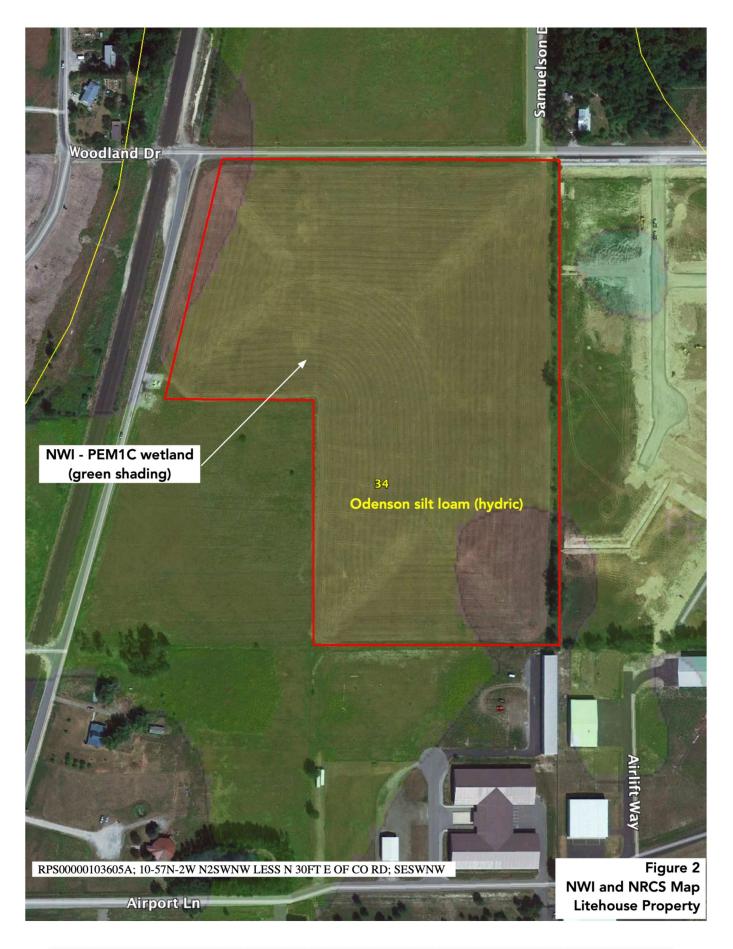
Figure 3: Data Plot Location Map Data Plots (11) 2-page forms

Résumé

### References Used (not necessarily cited):

- Bonner County Viewer (on-line mapping tool)
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- USDI. National Wetland Inventory mapping (website).
- USGS. Sandpoint, ID 7.5' topographic quadrangle.







Project/Site: Litehouse		City/County:_E	Bonner		Sampli	ng Date: 16	-Apr-21	
Applicant/Owner: Cliff Mort				State: ID	Sam	pling Point:	DI	P 1
•		Section, Tov	vnship, Ra	ange: <b>S</b> 10	<b>T</b> 57N	<b>R</b> 2W		
Landform (hillslope, terrace, etc.): Flat		Local relief (	concave, o	convex, none): fla	t	Slope:	0.C <b>% /</b>	0.0
ubregion (LRR): LRR E	Lat.: 48	3°18'14.93"N		Long.: 116°33'5	51.21"W	— Datı	um: WGS	 5 84
pil Map Unit Name: Odenson silt loam					classification			
e climatic/hydrologic conditions on the site typical	for this time of year	·2 Yes	● No ○		ain in Remar			
re Vegetation , Soil , or Hydrology				lormal Circumstan			No C	)
					·		110 -	
re Vegetation 🔲 , Soil 🔲 , or Hydrology	naturally pro	obiematic?	(If ne	eded, explain any	answers in R	emarks.)		
ummary of Findings - Attach site m	ap showing sa	impling po	int loc	ations, trans	ects, imp	ortant fe	eatures	s, etc.
Hydrophytic Vegetation Present? Yes 🌘 No	0	To the	Sampled A	Aron				
Hydric Soil Present? Yes $\bigcirc$ No	•		-	Vac O Na				
Wetland Hydrology Present? Yes O No	lacktriangle	within	a Wetland	1? les ○ 140				
Remarks:								
Although hydrophytic vegetation is present (2 FAC	pasture grasses), h	ydric soil and	wetland h	nydrology not obse	erved. Plot n	ot in a wetla	ınd.	
<b>VEGETATION -</b> Use scientific names of	f plants.	Dominant _Species? _						
		Rel.Strat.	ndicator	Dominance Test	worksheet:			
Tree Stratum (Plot size:)	% Cover		Status	Number of Domin		,	•	
1,		0.0%		That are OBL, FAG	CW, or FAC:		2	(A)
2		0.0%		Total Number of I		,	2	<b>-</b> ->
4		0.0%		Species Across All	Strata:		2	(B)
1.	0	= Total Cove		Percent of domi			00/	(
Sapling/Shrub Stratum (Plot size:		- 100010010		That Are OBL, F	ACW, or FAC	:	.0%	(A/B)
1,		0.0%		Prevalence Inde	x worksheet:			
2		0.0%		Total % C	over of:	Multiply by	:	
3		0.0%		OBL species	0	x 1 = _	0	
4				FACW species	0	x 2 = _	0	
5				FAC species		x 3 = _	300	
Herb Stratum (Plot size:		= Total Cove	r	FACU species	0	x 4 = _	0	
1 Agrostis stolonifera	50	<b>✓</b> 50.0%	FAC	UPL species	0	x 5 = _	0	
2 Alopecurus pratensis	50		FAC	Column Totals:	100	(A) _	300	(B)
3		0.0%		Prevalence	Index = B/A	= 3.0	000	
4		0.0%		Hydrophytic Veg	etation Indi	ratore		
5		0.0%		1 - Rapid Tes			ion	
6		0.0%		✓ 2 - Dominane	-	-		
7		0.0%		✓ 3 - Prevalence				
8	•	0.0%		4 - Morpholo			ide sunna	ortina
9.————————————————————————————————————		0.0%			emarks or on			
11	0	0.0%		5 - Wetland	Non-Vasculai	· Plants <sup>1</sup>		
117		= Total Cove	r	Problematic	Hydrophytic '	Vegetation 1	(Explain)	)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of h				must
1,		0.0%		be present, unle	ess disturbed	or problema	atic.	
		0.0%		Hydrophytic Vegetation		_		
2				. veueldLION		$\bigcirc$		
2	0	= Total Cove	r	Present?	Yes   N	o ()		

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

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	ription: (Des	Matrix	tne aeptn i	neeaea to		t tne indic lox Featu		ontirm the	absence of indicators.)	
Depth (inches)	Color (r			Color (		%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR	3/3	100%				-7,5-		Silt Loam	
6-14	2.5YR	 5/3	70%	10YR	4/4	30%			Silt Loam	
			7070	10110		5070			Site Eduli	
pe: C=Con	 ncentration. D	=Depletio	n. RM=Redu	Iced Matrix,		ed or Coate	ed Sand Gr	rains <sup>2</sup> Loc	ation: PL=Pore Lining. M=	- - -Matrix
Histosol ( Histic Epi Black Hist Hydroger	pedon (A2) tic (A3) n Sulfide (A4)			Sai	ndy Redox ipped Matr amy Mucky amy Gleyec	(S5) ix (S6) Mineral (F l Matrix (F2	1) (except	in MLRA 1)	2 cm Muck (A10) Red Parent Mate	rial (TF2)
Thick Dar	Below Dark S rk Surface (A: uck Mineral (S eyed Matrix (S	12) 51)	11)	Red	pleted Mati dox Dark S pleted Darl dox depres	urface (F6)			<sup>3</sup> Indicators of hydroph wetland hydrology i unless disturbed or	must be present,
strictive L	ayer (if pre	sent):								
Туре:										
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	tors not obs	served - r	matrix chro	ma too hig	gh				Hydric Soil Present?	Yes ○ No ●
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roject/Site: Litehouse		City/County:	Bonner		Sampli	ng Date: <u>16</u> -	Apr-21
pplicant/Owner: Cliff Mort				State: ID	Sam	pling Point:	DP 2
nvestigator(s): Tom Duebendorfer, PWS		Section, To	wnship, Ra	ange: S 10	<b>T</b> _57N	<b>R</b> _2W	
Landform (hillslope, terrace, etc.): Flat		Local relief	(concave, o	convex, none): flat	:	Slope:	0.0 % /
ubregion (LRR): LRR E	<b>Lat.:</b> 48	°18'14.84"N		Long.: 116°33'4	8.75"W	Date	ım: WGS 84
il Map Unit Name: Odenson silt loam				NWI	classification	PEM1C	
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re Vegetation $\qed$ , Soil $\qed$ , or Hydrology $\qed$	significantly	disturbed?	Are "N	lormal Circumstan	ces" present?	Yes 💿	No $\bigcirc$
re Vegetation 🔲 , Soil 🔲 , or Hydrology 🗆	naturally pro	blematic?	(If ne	eded, explain any a	answers in Re	emarks.)	
Summary of Findings - Attach site map	showing sa	mnlina n	oint loc	ations trans	ects imn	ortant fe	atures e
Hydrophytic Vegetation Present? Yes • No	Showing Su			acionis/ cianis	- CCCS/ IIIIp		
Hydric Soil Present? Yes No		Is the	Sampled A				
Wetland Hydrology Present? Yes No		within	a Wetland	$_{ exttt{1?}}$ Yes $^{ exttt{O}}$ No	•		
Remarks: Although hydrophytic vegetation is present (2 FAC pasterns)  /EGETATION - Use scientific names of p		ydric soil and  Dominant _Species?	wetland h	nydrology not obse	rved. Plot no	ot in a wetla	nd.
Tues Chartery (Diet size)	Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test	worksheet:		
Free Stratum (Plot size:)		0.0%	Status	Number of Domina That are OBL, FAC		3	2 (A)
1,		0.0%		That are Obt, TAC	.vv, or rac.		- (A)
3		0.0%		Total Number of D Species Across All		2	2 (B)
4		0.0%					
Sapling/Shrub Stratum (Plot size:)	0	= Total Cove	er	Percent of domi That Are OBL, F			.0% (A/B
1,				Prevalence Inde	x worksheet:		
2		0.0%		Total % Co		Multiply by:	
34.		0.0%		OBL species		x 1 = _	0
45.		0.0%		FACW species	100	x 2 = _	300
<u> </u>		= Total Cove		FAC species	0	x 3 =	0
Herb Stratum (Plot size:)		- Total Cove	21	FACU species	0	x 4 = _	0
1_Agrostis stolonifera		50.0%	FAC	UPL species Column Totals:	100	x 5 =	300 <b>(B</b> )
2. Alopecurus pratensis		50.0%	FAC			(A) _	
3		0.0%		Prevalence .	Index = B/A	= 3.0	
4		0.0%		Hydrophytic Veg			
6		0.0%		1 - Rapid Tes			on
7		0.0%		2 - Dominano			
8		0.0%		3 - Prevalenc			
9		0.0%		4 - Morpholo data in Re	gical Adaptat emarks or on	ions + (Provi a separate s	de supportin heet)
10	_	0.0%		5 - Wetland I		_	•
11,		= Total Cove		Problematic I	lydrophytic \	egetation 1	(Explain)
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of h be present, unle	ydric soil and	wetland hy	drology must
1		0.0%		Hydrophytic			
2	0	= Total Cove		Vegetation	Yes • No	0	
		- Iotal Cove	••	Present?		<b>.</b>	
% Bare Ground in Herb Stratum: ()							

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil									Sampling Point:	DP 2
Profile Desc	ription: (Desc	ribe to th	e depth n	eeded to docur	nent the ind	licator or c	onfirm the	absence of indicators.)		
Depth		1atrix			Redox Feat				_	
(inches)	Color (m		<u> </u>	Color (moist	<u> </u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rem	arks
8	10YR	3/3	100%					Silt Loam		
8-16	2.5YR	5/3	90%	10YR 4/	4 10%	C	M	Silt Loam		
<sup>1</sup> Type: C=Cor		Depletion.	 RM=Reduc	ed Matrix, CS=C	overed or Coa	ted Sand Gi	 rains ²Loca	ation: PL=Pore Lining. M=	 =Matrix	
Hydric Soil	Indicators: (	Applicable	to all LR	Rs, unless othe	rwise noted	l.)		Indicators for Prob	•	oils <sup>3</sup> :
Histosol				Sandy Re				2 cm Muck (A10)		
☐ Histic Ep☐ Black His	ipedon (A2)				Matrix (S6) ucky Mineral (	F1) (excent	in MIRA 1)	Red Parent Mate	` '	
	n Sulfide (A4)				eyed Matrix (	. ,		U Other (Explain in	і кетагку	
	l Below Dark Su	ırface (A11	)		Matrix (F3)	,				
☐ Thick Da	rk Surface (A12	2)			rk Surface (F	•		<sup>3</sup> Indicators of hydroph	ytic vegetation and	
Sandy M	uck Mineral (S1	.)			Dark Surface	. ,		wetland hydrology	must be present,	
Sandy Gl	leyed Matrix (S4	4)		Redox de	pressions (F8	)		unless disturbed or	problematic.	
Restrictive I	Layer (if prese	ent):								
Type:								Hardala Call Davis and D	v	. •
Depth (in	ches):							Hydric Soil Present?	Yes ○ No	
Hydric indica	ators not obse	rved - ma	itrix chron	na too high						
Hydrolog Wetland Hyd	l <b>y</b> drology Indica	ators:								
-			ne require	d; check all tha	t apply)			Secondary Indi	cators (minimum	of two required
Surface	Water (A1)				Stained Leave	s (B9) (exce	pt MLRA		ed Leaves (B9) (ML	RA 1, 2,
∐ High Wa	ater Table (A2)				, and 4B)			4A, and 4B)	)	
Saturation	on (A3)				st (B11)			Drainage Pa	atterns (B10)	
	larks (B1)				Invertebrate	` '			Water Table (C2)	
Sedimen	nt Deposits (B2)	1			en Sulfide Od			Saturation \	visible on Aerial Ima	agery (C9)
1 1	oosits (B3)				d Rhizosphere	•	Roots (C3)		Position (D2)	
Drift dep				Drocono	e of Reduced	Iron (C4)		☐ Shallow Aqu	uitard (D3)	
Algal Ma	at or Crust (B4)									
Algal Ma	posits (B5)			Recent	Iron Reductio		` '		Test (D5)	
Algal Ma Iron Dep Surface	posits (B5) Soil Cracks (B6)	•	(57)	Recent Stunted	or Stressed	Plants (D1) (	` '	Raised Ant	Mounds (D6) (LRR A	<b>A</b> )
Algal Ma Iron Dep Surface Inundati	posits (B5) Soil Cracks (B6) ion Visible on A	erial Image		Recent Stunted		Plants (D1) (	` '	Raised Ant	` ,	<b>A</b> )
Algal Ma Iron Dep Surface Inundati	posits (B5) Soil Cracks (B6)	erial Image		Recent Stunted	or Stressed	Plants (D1) (	` '	Raised Ant	Mounds (D6) (LRR A	4)
Algal Ma Iron Dep Surface Inundati	posits (B5) Soil Cracks (B6) ion Visible on A Vegetated Cor	erial Image	ice (B8)	Recent Stunted Other (	or Stressed	Plants (D1) (	` '	Raised Ant	Mounds (D6) (LRR A	<b>A</b> )
Algal Ma Iron Dep Surface Inundati Sparsely	posits (B5) Soil Cracks (B6) ion Visible on A Vegetated Cor	erial Image ncave Surfa Yes	No •	Recent Stuntec Other (	or Stressed	Plants (D1) (	` '	Raised Ant	Mounds (D6) (LRR A	Α)
Algal Ma Iron Dep Surface Inundati Sparsely  Field Observ	posits (B5) Soil Cracks (B6) ion Visible on Av Vegetated Cor  vations: er Present?  Present?	erial Image	No •	Recent Stunted Other (	or Stressed l Explain in Rer	Plants (D1) (	(LRR A)	Raised Ant	Mounds (D6) (LRR A	A) Io •

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

No water in soil pit April 16, 2021.

Project/Site: Litehouse				City/County:	Bonner		Sampli	ng Date: <u>16</u> -	Apr-21	
Applicant/Owner: Cliff Mort						State: ID	Sam	pling Point:	DP	3
Investigator(s): Tom Duebendorfer, P	NS			Section, To	ownship, Ra	ange: <b>S</b> 10	<b>T</b> _57N	R 2W		
Landform (hillslope, terrace, etc.):	Flat			Local relief	(concave,	convex, none): flat		Slope:	0.0 % /	0.0
Subregion (LRR): LRR E			<b>Lat.:</b> 48	°18'14.78"N		Long.: 116°33'46	5.43"W	Datu	ım: WGS 8	84
Soil Map Unit Name: Odenson silt loa	m					NWI c	lassification	PEM1C		
e climatic/hydrologic conditions on	the site typ	oical for this	time of year	? Ye	s • No	(If no, expla	in in Remarl	ks.)		
Are Vegetation 🔲 , Soil 🗌	, or Hydrol		significantly		Are "N	Iormal Circumstanc	es" present?	Yes 💿	No O	
Are Vegetation $\square$ , Soil $\square$	, or Hydrol	logy 🗌	naturally pro	blematic?	(If ne	eded, explain any a	nswers in R	emarks.)		
Summary of Findings - At					•			•	atures,	etc.
Hydrophytic Vegetation Present?	Yes	No O		To the	Sampled A	Aron.				
Hydric Soil Present?	Yes $\bigcirc$	No 💿			•	Vaa O Na	•			
Wetland Hydrology Present?	Yes 🔾	No 💿		within	n a Wetland	19 163 6 110	0			
Remarks: Although hydrophytic vegetation is  VEGETATION - Use scien		•		ydric soil and	d wetland h	nydrology not obser	ved. Plot n	ot in a wetla	nd.	
				_Species? Rel.Strat.	Indicator	Dominance Test	worksheet			
Tree Stratum (Plot size:	)		% Cover		Status	Number of Domina				
1,				0.0%		That are OBL, FAC		2	. (A	۹)
2,				0.0%		Total Number of Do	ominant			
3,				0.0%		Species Across All S	Strata:	2	(E	В)
4				0.0%		Percent of domin	ant Species			
Sapling/Shrub Stratum (Plot size:		)	0	= Total Cov	er	That Are OBL, FA			0% (A	A/B)
1,			0	0.0%		Prevalence Index	worksheet:			
2			0	0.0%		Total % Co	ver of:	Multiply by:		
3			0	0.0%		OBL species	0	x 1 =	0	
4				0.0%		FACW species	0	x 2 =	0	
5			0_	0.0%		FAC species	100	x 3 =	300	
Herb Stratum (Plot size:	1		0	= Total Cov	er	FACU species	0	x 4 =	0	
1 Agrostis stolonifera			50	<b>5</b> 0.0%	FAC	UPL species	0	x 5 =	0	
2. Alopecurus pratensis				<b>✓</b> 50.0%	FAC	Column Totals:	100	(A) _	300	(B)
3.			0	0.0%		Prevalence I	ndex = B/A	= 3.0	00_	
4			_ 0_	0.0%		Hydrophytic Vege	station India	atore:		
5				0.0%		1 - Rapid Test			on	
6				0.0%		✓ 2 - Dominance		-	o	
7				0.0%		✓ 3 - Prevalence				
8				0.0%		4 - Morpholog	ical Adaptat	ions <sup>1</sup> (Provi	de suppor	rtina
9				0.0%		data in Re	marks or on	a separate s	heet)	
11			_	0.0%		5 - Wetland N	on-Vascular	Plants 1		
11,			100	= Total Cov	er	Problematic H	ydrophytic \	/egetation $^1$	(Explain)	
Woody Vine Stratum (Plot size:		_	0	0.0%		<sup>1</sup> Indicators of hy be present, unles	dric soil and s disturbed	l wetland hy or problema	drology m tic.	ıust
2.			0	0.0%		Hydrophytic				
			0	= Total Cov	er	Vegetation Present?	Yes 💿 N	$\circ$		
% Bare Ground in Herb Stratum	0									

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil										Sampling Point:	DP 3
Profile Descr	iption: (Des	cribe to the	depth nee	eded to de	ocument the	e indi	cator or co	onfirm the	absence of indicators.)		
Depth		Matrix			Redox					_	
(inches)	Color (m	noist)	<u>%</u>	Color (m	oist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rem	arks
0-10	10YR	3/3 1	00%						Silt Loam		
10-18	10YR	4/4 7	70%	7.5YR	4/4	30%	C	M	Silt Loam		
										-	
										-	
<sup>1</sup> Type: C=Con								ains <sup>2</sup> Loca	ation: PL=Pore Lining. M=		
Hydric Soil 1		(Applicable 1	to all LRR	_		_	)		Indicators for Prob	-	oils <sup>3</sup> :
Histosol (	A1) pedon (A2)				ly Redox (S5) ped Matrix (S				2 cm Muck (A10)		
Black Hist					ny Mucky Min	•	1) (except	in MLRA 1)	Red Parent Mate Other (Explain in	` '	
	Sulfide (A4)			Loam	ny Gleyed Ma	trix (F2	2)			Remarks)	
Depleted	Below Dark S	urface (A11)			eted Matrix (I	,	_				
	k Surface (A1	•			x Dark Surfa eted Dark Su				<sup>3</sup> Indicators of hydroph		
	ıck Mineral (S:	•			ox depression	-	(17)		wetland hydrology i unless disturbed or		
Restrictive L	eyed Matrix (S				ч орг осолог	- ()					
Type:	ayei (ii pies	ent).									
Depth (inc	hes):								Hydric Soil Present?	Yes O No	•
Remarks:											
Hydric indicat	tors not obse	erved - matr	ix chroma	too hiah	1						
,				,							
Hydrology	v <b>r</b>										
Wetland Hyd		rators:									
Primary Indi			reauired:	check all	l that apply	)			Secondary Indi	cators (minimum	of two required)
	Vater (A1)				iter-Stained L		(B9) (exce	pt MLRA		ed Leaves (B9) (ML	
	er Table (A2)				2, 4A, and 4E		` / `	•	4A, and 4B)		
Saturatio	n (A3)			Sal	t Crust (B11)				☐ Drainage Pa	atterns (B10)	
☐ Water Ma	arks (B1)			☐ Aqı	uatic Invertel	orates	(B13)		☐ Dry Season	Water Table (C2)	
Sediment	t Deposits (B2	)		□ Нус	drogen Sulfid	le Odo	r (C1)		Saturation \	isible on Aerial Ima	agery (C9)
Drift dep	osits (B3)			U Oxi	idized Rhizos	pheres	on Living	Roots (C3)	Geomorphic	Position (D2)	
	or Crust (B4)	)			esence of Red				Shallow Aqu		
	osits (B5)				cent Iron Rec			` '	FAC-neutral	` '	
	Soil Cracks (B6		(DZ)		inted or Stres		• • • •	LRR A)		Mounds (D6) (LRR	A)
	on Visible on A	•	,	∐ Oth	ner (Explain i	n Rem	arks)		☐ Frost Heave	Hummocks (D7)	
Sparsely	Vegetated Co	ncave Surrace	e (B8)								
Field Observ	ations:										
Surface Water	Present?	Yes O	No 💿	D	epth (inches	):					
Water Table P	resent?	Yes 🔾	No 💿	D	epth (inches	):				· ·	
Saturation Pre (includes capil		Yes O	No •	D	epth (inches	):		Wetla	nd Hydrology Present?	Yes ON	lo 💿

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

No water in soil pit April 16, 2021.

roject/Site: Litehouse				City/County:	Bonner	Sampling Date: 16-Apr-21
pplicant/Owner: Cliff Mort						State: ID Sampling Point: DP 4
nvestigator(s): Tom Duebendorfer, P	WS			Section, To	ownship, R	tange: S 10 T 57N R 2W
Landform (hillslope, terrace, etc.):	Flat			Local relief	(concave,	convex, none): flat Slope: 0.0 % /
ubregion (LRR): LRR E			 Lat.: 48	°18'13.33"N		Long.: 116°33'46.87"W Datum: WGS 84
oil Map Unit Name: Odenson silt lo						NWI classification: PEM1C
e climatic/hydrologic conditions on		nical for this	time of year		s • No	
are Vegetation $\square$ , Soil $\square$	, or Hydro		significantly			Normal Circumstances" present? Yes  No  No
are Vegetation, Soil	, or Hydro		naturally pro			
•	•	•			•	eded, explain any answers in Remarks.) Cations, transects, important features, et
Hydrophytic Vegetation Present?	Yes •	No O				
Hydric Soil Present?	Yes	No $\bigcirc$		Is the	Sampled A	
Wetland Hydrology Present?	Yes 🔾	No 💿		withi	n a Wetland	<sub>d?</sub> Yes ○ No
Remarks:						
in a wetland.		•		nd hydric soil  Dominant	indicators	s observed, but wetland hydrology not observed. Plot not
<b>VEGETATION -</b> Use scien	tiric nam	es of plan		_Species?		_
Tree Stratum (Plot size:	)		Absolute % Cover		Indicator Status	Dominance Test worksheet:
1,			0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2,			0	0.0%		(,,
3.				0.0%		Total Number of Dominant Species Across All Strata: 2 (B)
4			0	0.0%		
Sapling/Shrub Stratum (Plot size:		)	0	= Total Cov	er	Percent of dominant Species That Are OBL, FACW, or FAC:  100.0% (A/B)
1,			0	0.0%		Prevalence Index worksheet:
2				0.0%		Total % Cover of: Multiply by:
3				0.0%		OBL species 0 x 1 = 0
4			0	0.0%		FACW species $0 \times 2 = 0$
5				0.0%		FAC species $100 \times 3 = 300$
(5)			0	= Total Cov	er	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size:	)			<b>✓</b> 50.0%		UPL species $0 \times 5 = 0$
1 Agrostis stolonifera					FAC	Column Totals:
2. Alopecurus pratensis 3.				<b>✓</b> 50.0% 0.0%	FAC	Prevalence Index = $B/A = 3.000$
<i>5 1</i>				0.0%		<u> </u>
5				0.0%		Hydrophytic Vegetation Indicators:
6			^	0.0%		1 - Rapid Test for Hydrologic Vegetation
7				0.0%		✓ 2 - Dominance Test is > 50%
8			0	0.0%		✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
9			0	0.0%		<ul> <li>4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>
10				0.0%		5 - Wetland Non-Vascular Plants 1
11				0.0%		
			100	= Total Cov	er	Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum (Plot size:			0			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1			0_	0.0%		Hydrophytic
2			0_	0.0%		Vegetation V A
% Bare Ground in Herb Stratum			0	= Total Cov	er	Present? Yes No

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desci	ription: (De	scribe to t	the depth	needed to d	locument t	the indic	ator or co	onfirm the	absence of indicators.	)
Depth		Matrix			Redo	x Featu	res			
(inches)	Color (r	moist)	%	Color (r	noist)	%	Type <sup>1</sup>	Loc2	Texture	Remarks
0-7	10YR	3/3	100%						Silt Loam	
7-16	2.5Y	5/2	50%	7.5YR	4/6	50	С	М	Silt Loam	
										-
								<u> </u>		
 Гуре: C=Con	 ncentration. D	 =Depletion	 n. RM=Redu		 CS=Covered	l or Coate	ed Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M	 =Matrix
ydric Soil	Indicators:	(Applicat	le to all Li	RRs, unless	otherwise	noted.)	)		Indicators for Prol	plematic Hydric Soils <sup>3</sup> :
Histosol (					dy Redox (S				2 cm Muck (A10	)
Histic Epi	pedon (A2)				oped Matrix	` '			Red Parent Mat	erial (TF2)
Black His					my Mucky M	•	, · · ·	in MLRA 1)	Other (Explain i	n Remarks)
	n Sulfide (A4)				my Gleyed N	•	2)			
	Below Dark S	•	11)		leted Matrix ox Dark Sur	. ,			2	
_	rk Surface (A:	•			leted Dark S				<sup>3</sup> Indicators of hydropl wetland hydrology	
<b>–</b> ′	uck Mineral (S eyed Matrix (S	,			ox depression		,,,		unless disturbed o	
	ayer (if pre	-			•	• •				
Type:	ayer (ii pre	sent).								
Type.										
	hes).								Hydric Soil Present?	Yes ● No ○
Depth (inc	ches):								Hydric Soil Present?	Yes   No
Depth (inc	<u> </u>	ad matri	v chroma	of 2 with w	olug of 41	with ros	dov indica	tos rodusir	<u>.                                    </u>	Yes   No
Depth (inc	<u> </u>	ed - matri	x chroma	of 2 with va	alue of 4+	with red	dox indica	tes reducir	Hydric Soil Present?	Yes   No
Depth (inc	<u> </u>	ed - matri	x chroma	of 2 with va	alue of 4+	with red	dox indica	tes reducir	<u>.                                    </u>	Yes ● No ○
Depth (inc	<u> </u>	ed - matri	x chroma	of 2 with v	alue of 4+	with rec	dox indica	tes reducir	<u>.                                    </u>	Yes ● No ○
Depth (inc Remarks: ydric indica	tors observe	ed - matri	x chroma	of 2 with va	alue of 4+	with red	dox indica	tes reducir	<u>.                                    </u>	Yes  No
Depth (inc demarks: vdric indica	tors observe		x chroma	of 2 with va	alue of 4+	with rec	dox indica	tes reducir	<u>.                                    </u>	Yes  No
Depth (inclease depth (incleas	tors observe  Y  drology Indi	icators:					dox indica	tes reducir	ng conditions	
Depth (inc emarks: vdric indica ydrolog vetland Hyd rimary Indi	tors observe	icators:		ed; check a	ill that app ater-Stainec	ly)			Secondary Ind	icators (minimum of two requin ned Leaves (B9) (MLRA 1, 2,
Depth (included included inclu	y  drology Indi icators (min Water (A1) ter Table (A2)	icators: imum of (		ed; check a	ill that app ater-Stained 2, 4A, and	ly) d Leaves 4B)			Secondary Ind  Water-Stai 4A, and 4E	icators (minimum of two requir ned Leaves (B9) (MLRA 1, 2, )
Depth (inc Remarks: ydric indica ydrolog yetland Hyd rimary Indi Surface V High Wa	y  drology Indi icators (min Water (A1) ter Table (A2 on (A3)	icators: imum of (		ed; check a	ill that app ater-Stainec 2, 4A, and alt Crust (B1	ly) d Leaves 4B)	(B9) (exce		Secondary Ind  Water-Stai 4A, and 4E	icators (minimum of two requin ned Leaves (B9) (MLRA 1, 2,
Depth (inc Remarks: ydric indica ydrolog yetland Hyd rimary Indi Surface V High Wa Saturatic Water M	y  drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1)	icators: imum of (		ed; check a	all that app ater-Stainec 2, 4A, and alt Crust (B1 quatic Invert	ly) d Leaves 4B) 1) tebrates	(B9) (exce (B13)		Secondary Ind  Water-Stai 4A, and 4E  Drainage F	icators (minimum of two requirenced Leaves (B9) (MLRA 1, 2, ) atterns (B10)
Depth (inc Remarks: ydric indica ydrolog yetland Hyd Primary Indi Surface V High Wa Saturatic Water M	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B.	icators: imum of (		ed; check a	all that app later-Stained 2, 4A, and alt Crust (B1 quatic Inverl ydrogen Sul'	ly) d Leaves 4B) 1) tebrates	(B9) (exce (B13)	pt MLRA	Secondary Ind  Water-Stai 4A, and 4E  Drainage F  Dry Seasor  Saturation	icators (minimum of two require ned Leaves (B9) (MLRA 1, 2, ) atterns (B10) n Water Table (C2) Visible on Aerial Imagery (C9)
Depth (inc Remarks: ydric indica ydric indica ydrolog yetland Hyd Primary Indi Surface V High Wa Saturatic Water M Sedimen Drift dep	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3)	icators: iimum of (		ed; check a	all that app later-Stained 2, 4A, and alt Crust (B1 quatic Invert ydrogen Suli xidized Rhiz	ly) d Leaves 4B) 1) tebrates of fide Odorospheres	(B9) (exce (B13) - (C1) on Living I	pt MLRA	Secondary Ind  Water-Stai 4A, and 4E  Drainage F  Dry Seasor  Saturation  Geomorph	icators (minimum of two requirence Leaves (B9) (MLRA 1, 2, ) latterns (B10) latterns (B10) latterns (B10) latterns (C2) Visible on Aerial Imagery (C9) loc Position (D2)
Depth (inc Remarks: ydric indica ydric indica ydric indica yetland Hyd Primary Indi Surface N High Wa Saturatic Water M Sedimen Drift dep	y dirology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3 oosits (B3) t or Crust (B4	icators: iimum of (		ed; check a  W 1, Sa AG H OG	all that app later-Stained 2, 4A, and alt Crust (B1 quatic Invert ydrogen Sult ydrogen Sult ydrogen Rhize resence of R	ly)  I Leaves 4B)  1) tebrates fide Odor ospheres educed I	(B9) (exce (B13) · (C1) on Living I ron (C4)	pt MLRA Roots (C3)	Secondary Ind  Water-Stai 4A, and 4E  Drainage F  Dry Seasor  Saturation  Geomorph  Shallow Ac	icators (minimum of two requiremed Leaves (B9) (MLRA 1, 2, ) reatterns (B10) reatterns (B10) reatterns (B10) reatterns (C2) Visible on Aerial Imagery (C9) reatterns (D2) uitard (D3)
Depth (inc Remarks: ydric indica ydric indica ydric indica yetland Hyd Primary Indi Surface v High Wa Saturatic Water M. Sedimen Drift dep Algal Ma Iron Dep	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) t or Crust (B4 oosits (B5)	icators: imum of o		ed; check a  W 1, A A H O Pr	all that app later-Stained 2, 4A, and alt Crust (B1 quatic Invert ydrogen Suli xidized Rhizd resence of R ecent Iron R	ly)  I Leaves 4B)  1) tebrates fide Odor ospheres educed I eduction	(B9) (exce (B13) (C1) on Living I ron (C4) in Tilled S	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Water-Stai 4A, and 4E  Drainage F  Dry Seasor  Saturation  Geomorph  Shallow Ac  FAC-neutra	icators (minimum of two requirement Leaves (B9) (MLRA 1, 2, 1) latterns (B10) latterns (B10) latterns (B10) latterns (B10) latterns (C2) Visible on Aerial Imagery (C9) latterns (D3) latterns (D3)
Depth (incomplete in the content of	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) ot or Crust (B4 oosits (B5) Soil Cracks (B	icators: iimum of (  2)  2)	one requir	ed; check a  W 1, Ac H' O: Pr Re	all that app later-Stained 2, 4A, and alt Crust (B1 quatic Invert ydrogen Sult xidized Rhiza resence of R ecent Iron R runted or Str	ly)  d Leaves 4B)  1) tebrates fide Odor ospheres educed I teduction ressed Pla	(B9) (exce (B13) (C1) on Living I ron (C4) in Tilled Seants (D1) (	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Water-Stai 4A, and 4E  Drainage F  Dry Seasor  Saturation  Geomorph  Shallow Ac  FAC-neutra  Raised Ant	icators (minimum of two requiremed Leaves (B9) (MLRA 1, 2, ) atterns (B10) Mattern Table (C2) Visible on Aerial Imagery (C9) C Position (D2) uitard (D3) Al Test (D5) Mounds (D6) (LRR A)
Depth (incomplete in the control of	y  drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) t or Crust (B4 oosits (B5) Soil Cracks (B on Visible on	icators: iimum of ( )  2)  4)  36) Aerial Ima	one require	ed; check a  W 1, Ac H' O: Pr Re	all that app later-Stained 2, 4A, and alt Crust (B1 quatic Invert ydrogen Sult xidized Rhizd resence of R ecent Iron R	ly)  d Leaves 4B)  1) tebrates fide Odor ospheres educed I teduction ressed Pla	(B9) (exce (B13) (C1) on Living I ron (C4) in Tilled Seants (D1) (	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Water-Stai 4A, and 4E  Drainage F  Dry Seasor  Saturation  Geomorph  Shallow Ac  FAC-neutra  Raised Ant	icators (minimum of two requirement Leaves (B9) (MLRA 1, 2, 1) latterns (B10) latterns (B10) latterns (B10) latterns (B10) latterns (C2) Visible on Aerial Imagery (C9) latterns (D3) latterns (D3)
Depth (incomplete in the control of	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) ot or Crust (B4 oosits (B5) Soil Cracks (B	icators: iimum of ( )  2)  4)  36) Aerial Ima	one require	ed; check a  W 1, Ac H' O: Pr Re	all that app later-Stained 2, 4A, and alt Crust (B1 quatic Invert ydrogen Sult xidized Rhiza resence of R ecent Iron R runted or Str	ly)  d Leaves 4B)  1) tebrates fide Odor ospheres educed I teduction ressed Pla	(B9) (exce (B13) (C1) on Living I ron (C4) in Tilled Seants (D1) (	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Water-Stai 4A, and 4E  Drainage F  Dry Seasor  Saturation  Geomorph  Shallow Ac  FAC-neutra  Raised Ant	icators (minimum of two requiremed Leaves (B9) (MLRA 1, 2, ) atterns (B10) Mattern Table (C2) Visible on Aerial Imagery (C9) C Position (D2) uitard (D3) Al Test (D5) Mounds (D6) (LRR A)
Depth (incomplete in the content of	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) t or Crust (B4 oosits (B5) Soil Cracks (B on Visible on Vegetated Co	icators: iimum of ( )  2)  4)  36) Aerial Ima	one require	ed; check a  W 1, Ac H' O: Pr Re	all that app later-Stained 2, 4A, and alt Crust (B1 quatic Invert ydrogen Sult xidized Rhiza resence of R ecent Iron R runted or Str	ly)  d Leaves 4B)  1) tebrates fide Odor ospheres educed I teduction ressed Pla	(B9) (exce (B13) (C1) on Living I ron (C4) in Tilled Seants (D1) (	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Water-Stai 4A, and 4E  Drainage F  Dry Seasor  Saturation  Geomorph  Shallow Ac  FAC-neutra  Raised Ant	icators (minimum of two requiremed Leaves (B9) (MLRA 1, 2, ) atterns (B10) Mattern Table (C2) Visible on Aerial Imagery (C9) C Position (D2) uitard (D3) Al Test (D5) Mounds (D6) (LRR A)
Depth (incomplete in the control of	y  drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) t or Crust (B4 oosits (B5) Soil Cracks (B on Visible on Vegetated Co	icators: iimum of ( )  2)  4)  36) Aerial Ima	one require gery (B7) face (B8)	ed; check a  W 1, Ac H Co R R S S Co Oc	all that app later-Stained 2, 4A, and alt Crust (B1 quatic Invert ydrogen Sult xidized Rhiza resence of R ecent Iron R runted or Str	ly) I Leaves 4B) 1) tebrates fide Odor ospheres educed I eduction ressed Planin Rema	(B9) (exce (B13) (C1) on Living I ron (C4) in Tilled Seants (D1) (	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Water-Stai 4A, and 4E  Drainage F  Dry Seasor  Saturation  Geomorph  Shallow Ac  FAC-neutra  Raised Ant	icators (minimum of two requiremed Leaves (B9) (MLRA 1, 2, ) atterns (B10) Mattern Table (C2) Visible on Aerial Imagery (C9) C Position (D2) uitard (D3) Al Test (D5) Mounds (D6) (LRR A)
Depth (incomplete in the control of	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) t or Crust (B4 oosits (B5) Soil Cracks (B on Visible on Vegetated Co vations: r Present?	icators: iimum of o  2)  4)  Aerial Imaconcave Sur	gery (B7) face (B8)	ed; check a  W 1, Ac H O R Si Si O O	all that app later-Stained 2, 4A, and alt Crust (B1 quatic Invert ydrogen Sult ydrogen Sult ydro	ly) d Leaves 4B) 1) tebrates fide Odor ospheres educed I eduction ressed Plan in Remain	(B9) (exce (B13) (C1) on Living I ron (C4) in Tilled Seants (D1) (	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Water-Stai 4A, and 4E  Drainage F  Dry Seasor  Saturation  Geomorph  Shallow Ac  FAC-neutra  Raised Ant	icators (minimum of two requiremed Leaves (B9) (MLRA 1, 2, ) atterns (B10) Mattern Table (C2) Visible on Aerial Imagery (C9) C Position (D2) uitard (D3) Al Test (D5) Mounds (D6) (LRR A)
Depth (income line) Remarks: ydric indica  lydrolog Vetland Hyd Primary Indi Surface V High Wa Saturatic Water M Sedimen Drift dep Algal Ma Iron Dep Surface S Inundatic Sparsely	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) t or Crust (B4 oosits (B5) Soil Cracks (B on Visible on Vegetated Co vations: r Present?	icators: imum of	gery (B7) face (B8)  No	ed; check a  W 1, Sa AG HY OG Pr St	all that app fater-Stained 2, 4A, and alt Crust (B1 quatic Invert ydrogen Sult xidized Rhiza resence of R ecent Iron R unted or Stather (Explain	ly) I Leaves 4B) 1) tebrates fide Odor ospheres educed I deduction ressed Plan in Remai	(B9) (exce (B13) (C1) on Living I ron (C4) in Tilled Seants (D1) (	pt MLRA Roots (C3) pils (C6) LRR A)	Secondary Ind  Water-Stai 4A, and 4E  Drainage F  Dry Seasor  Saturation  Geomorph  Shallow Ac  FAC-neutra  Raised Ant	icators (minimum of two requirement Leaves (B9) (MLRA 1, 2, 1) atterns (B10) a Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)

roject/Site: Litehouse				City/County:	Bonner		Sampling	Date: 16-	Apr-21	
pplicant/Owner: Cliff Mort						State: ID	Sampl	ing Point:	DP !	5
nvestigator(s): Tom Duebendorfer, F	WS			Section, To	ownship, R	ange: S 10 T	57N	R 2W		
Landform (hillslope, terrace, etc.):	Flat			Local relief	(concave,	convex, none): flat		Slope:	0.0 % /	0.0
ubregion (LRR): LRR E			Lat.: 48	°18'12.59"N		Long.: 116°33'49.3	 9"W	Datu	m: WGS 8	34
oil Map Unit Name: Odenson silt lo							sification: [	_		
e climatic/hydrologic conditions on		ical for this	time of vear	? Ye	s • No		_			
Are Vegetation $\square$ , Soil $\square$	, or Hydrok		significantly			lormal Circumstances		´ Yes	No O	
Are Vegetation, Soil	, or Hydrok		naturally pro				-			
Summary of Findings - At	•				•	eded, explain any ansv cations, transect		•	atures,	etc.
Hydrophytic Vegetation Present?	Yes •	No O				·			<u> </u>	
Hydric Soil Present?	Yes	No O		Is the	Sampled A	Area <sub>da</sub> Yes O No 💿				
Wetland Hydrology Present?	Yes 🔾	No 💿		withi	n a Wetland	d? Yes UND S				
Remarks:										
Although hydrophytic vegetation is in a wetland.	. ,			•	indicators	observed, but wetland	l hydrology	not observ	ved. Plot i	not
<b>VEGETATION -</b> Use scier	itific name	es of plan	ts.	DominantSpecies?						
Tree Stratum (Plot size:	)		Absolute % Cover	Rel.Strat.	Indicator Status	Dominance Test wo				
1,			0	0.0%		Number of Dominant S That are OBL, FACW, 6		2	(A	١)
2,			0	0.0%						
3,				0.0%		Total Number of Domi Species Across All Stra		2	(B	3)
4			0	0.0%						
Sapling/Shrub Stratum (Plot size		)	0	= Total Cov	er	Percent of dominan That Are OBL, FACV		100.	0% (A	(B)
1			0	0.0%		Prevalence Index we	orksheet:			
2			0	0.0%		Total % Cover	of: M	ultiply by:		
3				0.0%		OBL species	0 x	1 =	0	
4				0.0%		FACW species _	x	2 =	0	
5				0.0%		FAC species _		3 =	300	
Herb Stratum (Plot size:	)		0	= Total Cov	er	FACU species _		4 =	0	
1 Agrostis stolonifera			50	<b>✓</b> 50.0%	FAC	UPL species —		5 =	0	
Alopecurus pratensis			50	<b>✓</b> 50.0%	FAC	Column Totals: _		A) _	300 (	(B)
3				0.0%		Prevalence Inde	ex = B/A =	3.0	00_	
4			0	0.0%		Hydrophytic Vegeta	tion Indicat	ore		
5			0	0.0%		1 - Rapid Test fo			nn.	
6				0.0%		✓ 2 - Dominance Te		_	J.1.	
7				0.0%		✓ 3 - Prevalence Ir				
8.			•	0.0%		4 - Morphologica			de sunnort	tina
9				0.0%		data in Rema	rks or on a	separate s	heet)	9
10				0.0%		5 - Wetland Non-	-Vascular P	lants <sup>1</sup>		
11,			100	= Total Cov	er	Problematic Hydi	ophytic Ve	getation <sup>1</sup> (	(Explain)	
Woody Vine Stratum (Plot size:			0	0.0%		<sup>1</sup> Indicators of hydri be present, unless d	c soil and w isturbed or	etland hyd	drology mu tic.	ust
1				0.0%		Hydrophytic				
2			- 0	= Total Cov	er	Vegetation	s • No	$\circ$		
				- 10tal Cov	<u>.</u>	Present? Yes	· · · · · · · · · · · · · · · · · · ·	_		
% Bare Ground in Herb Stratum	: 0									

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

onie Desci	ription: (Des	scribe to	the depth	needed to do	cument the	indic	ator or co	onfirm the	absence of indicators	s.)
Depth		Matrix			Redox F	_				
(inches)	Color (r	noist)	<u>%</u>	Color (mo	ist) (	<u>%</u>	Type 1	Loc <sup>2</sup>	Texture	Remarks
0-7	10YR	3/3	100%						Silt Loam	
7-9	10YR	4/3	100%						Silt Loam	_
9-16	2.5YR	5/2	60%	10YR	4/4 4	10%	C	M	Silt Loam	
			<u> </u>							
/pe: C=Cor		 =Depletion	n. RM=Redu		=Covered or	r Coate	ed Sand Gr	rains <sup>2</sup> Loc	ation: PL=Pore Lining. I	M=Matrix
dric Soil	Indicators:	(Applical	ble to all L	RRs, unless of	therwise no	oted.)			Indicators for Pro	blematic Hydric Soils <sup>3</sup> :
Histosol (	(A1)				Redox (S5)	_			2 cm Muck (A1	0)
_	pedon (A2)				ed Matrix (Se	,			Red Parent Ma	terial (TF2)
Black His	tic (A3) n Sulfide (A4)				Mucky Mine Gleyed Mat	-		in MLRA 1)	Other (Explain	in Remarks)
Thick Dai	Below Dark S rk Surface (Al uck Mineral (S eyed Matrix (S	12) 51)	11)	Redox Deplet	ed Matrix (F Dark Surfacted Dark Sur depressions	ce (F6) face (F			<sup>3</sup> Indicators of hydrop wetland hydrolog unless disturbed o	y must be present,
strictive L	ayer (if pre	sent):								
estrictive L Type:	ayer (if pre	sent):								
Type: Depth (ince emarks:	ches):			- 6 2					Hydric Soil Present	? Yes • No O
Type: Depth (incemarks:	ches):		ix chroma	of 2 with valu	ie of 4+ wi	th rec	dox indica	tes reduci	<b>Hydric Soil Present</b> ng conditions	? Yes ● No ○
Type: Depth (inc emarks: dric indica	tors observe		ix chroma	of 2 with valu	ue of 4+ wi	th rec	dox indica	tes reduci		? Yes • No O
Type:	tors observe  Y drology Indi	ed - matri					dox indica	tes reduci		? Yes • No ·
Type:	tors observe  y drology Indi icators (min	ed - matri		of 2 with valued			dox indica	tes reduci	ng conditions Secondary In	dicators (minimum of two requ
Depth (incommarks:  Iric indica  drolog  etland Hyd  mary Indi  Surface	tors observe  Y drology Indi	ed - matri		ed; check all  Wate 1, 2,		eaves (			Secondary In  Water-Sta 4A, and 4	dicators (minimum of two requ nined Leaves (B9) (MLRA 1, 2,
Depth (incommarks:  dric indica  drolog  etland Hyd  mary Indi  Surface V	tors observe  y drology Indi icators (min Water (A1) ter Table (A2)	ed - matri		ed; check all Watt 1, 2,	that apply) er-Stained Le	eaves (			Secondary In  Water-Sta 4A, and 4	dicators (minimum of two requ nined Leaves (B9) (MLRA 1, 2,
Depth (incernaries:  dric indication indicat	y drology Indi icators (min Water (A1) ter Table (A2) on (A3) arks (B1)	cators:		ed; check all  Wati 1, 2, Salt Aqua	that apply) er-Stained Le 4A, and 4B Crust (B11) atic Inverteb	eaves (	(B9) (exce (B13)		Secondary In  Water-Sta 4A, and 4	dicators (minimum of two requ nined Leaves (B9) (MLRA 1, 2, B)
Depth (incemarks: dric indication	y drology Indi icators (min Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B:	cators:		ed; check all  Wate 1, 2,  Salt  Aqua	that apply) er-Stained Le 4A, and 4B; Crust (B11) atic Inverteb rogen Sulfide	eaves () orates (	(B9) (exce (B13)	pt MLRA	Secondary In  Water-Sta 4A, and 4  Drainage Dry Seaso	dicators (minimum of two requ nined Leaves (B9) (MLRA 1, 2, B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9)
Depth (incernaries: dric indication drice)  Todrologetiand Hydrimary India   Surface   High Wa   Saturation   Water M   Sedimen   Drift dep	y drology Indi icators (min Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B3) oosits (B3)	icators:		ed; check all  Wate 1, 2,  Salt  Aqua Hyde	that apply) er-Stained Le 4A, and 4B; Crust (B11) atic Inverteb rogen Sulfide ized Rhizosp	eaves ( ) orates ( e Odor oheres	(B9) (exce (B13) - (C1) on Living I	pt MLRA	Secondary In  Water-Sta 4A, and 4  Drainage Dry Seaso Saturation Geomorp	dicators (minimum of two requ nined Leaves (B9) (MLRA 1, 2, B) Patterns (B10) on Water Table (C2) n Visible on Aerial Imagery (C9) nic Position (D2)
Depth (incemarks: dric indication	y drology Indi icators (min Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B3) t or Crust (B4)	icators:		ed; check all  Wate 1, 2, Salt Aqua Hyde Oxid	that apply) er-Stained Le 4A, and 4B; Crust (B11) atic Inverteb rogen Sulfide ized Rhizosp ence of Redu	eaves ( )  prates ( e Odor  pheres  uced I	(B9) (exce (B13) • (C1) on Living I ron (C4)	pt MLRA Roots (C3)	Secondary In  Secondary In  Water-Sta 4A, and 4  Drainage Dry Sease Saturation Geomorpi Shallow A	dicators (minimum of two requined Leaves (B9) (MLRA 1, 2, B) Patterns (B10) On Water Table (C2) On Visible on Aerial Imagery (C9) Onic Position (D2) Quitard (D3)
Type:	y drology Indi icators (min Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B3) t or Crust (B4) oosits (B5)	cators: imum of		ed; check all  Wate 1, 2, Salt Aque Hyde Oxid Pres	that apply) er-Stained Le 4A, and 4B; Crust (B11) atic Inverteb rogen Sulfide ized Rhizosp ence of Redu	eaves ( )  orates ( e Odor oheres uced In	(B9) (exce (B13) (C1) on Living I ron (C4) in Tilled S	pt MLRA Roots (C3) oils (C6)	Secondary In  Water-Sta 4A, and 4  Drainage Dry Seasc Saturation Geomorpi Shallow A FAC-neut	dicators (minimum of two requined Leaves (B9) (MLRA 1, 2, B) Patterns (B10) On Water Table (C2) On Visible on Aerial Imagery (C9) Onic Position (D2) Oquitard (D3) Tal Test (D5)
Type:	y drology Indi icators (min Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B3) ot or Crust (B4) oosits (B5) Soil Cracks (B	cators: imum of (1)	one requir	ed; check all  Wati 1, 2,  Salt  Aqua Hydi  Oxid  Pres  Rece	that apply) er-Stained Le 4A, and 4B; Crust (B11) atic Inverteb rogen Sulfide ized Rhizosp ence of Redu ent Iron Redu ted or Stress	eaves ( )  orates ( e Odor oheres uced III uction	(B9) (exce (B13) (C1) on Living I ron (C4) in Tilled So	pt MLRA Roots (C3) oils (C6)	Secondary In  Water-Sta 4A, and 4  Drainage Dry Seasc Saturation Geomorpi Shallow A FAC-neut Raised Ar	dicators (minimum of two required Leaves (B9) (MLRA 1, 2, B) Patterns (B10) On Water Table (C2) On Visible on Aerial Imagery (C9) Onic Position (D2) Oquitard (D3) Oral Test (D5) Other Mounds (D6) (LRR A)
Type:	y drology Indi icators (min Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B3) t or Crust (B4) oosits (B5)	cators: imum of  )  2)  Aerial Ima	one requir	ed; check all  Wati 1, 2,  Salt  Aqua Hydi  Oxid  Pres  Rece	that apply) er-Stained Le 4A, and 4B; Crust (B11) atic Inverteb rogen Sulfide ized Rhizosp ence of Redu	eaves ( )  orates ( e Odor oheres uced III uction	(B9) (exce (B13) (C1) on Living I ron (C4) in Tilled So	pt MLRA Roots (C3) oils (C6)	Secondary In  Water-Sta 4A, and 4  Drainage Dry Seasc Saturation Geomorpi Shallow A FAC-neut Raised Ar	dicators (minimum of two requined Leaves (B9) (MLRA 1, 2, B) Patterns (B10) On Water Table (C2) On Visible on Aerial Imagery (C9) Onic Position (D2) Oquitard (D3) Tal Test (D5)
Type:	y drology Indi icators (min Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B3) t or Crust (B4) oosits (B5) Soil Cracks (B on Visible on Vegetated Co	cators: imum of  )  2)  Aerial Ima	one requir	ed; check all  Wati 1, 2,  Salt  Aqua Hydi  Oxid  Pres  Rece	that apply) er-Stained Le 4A, and 4B; Crust (B11) atic Inverteb rogen Sulfide ized Rhizosp ence of Redu ent Iron Redu ted or Stress	eaves ( )  orates ( e Odor oheres uced III uction	(B9) (exce (B13) (C1) on Living I ron (C4) in Tilled So	pt MLRA Roots (C3) oils (C6)	Secondary In  Water-Sta 4A, and 4  Drainage Dry Seasc Saturation Geomorpi Shallow A FAC-neut Raised Ar	dicators (minimum of two required Leaves (B9) (MLRA 1, 2, B) Patterns (B10) On Water Table (C2) On Visible on Aerial Imagery (C9) Onic Position (D2) Oquitard (D3) Oral Test (D5) Other Mounds (D6) (LRR A)
Type:	y drology Indi icators (min Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B3) t or Crust (B4) posits (B5) Soil Cracks (B on Visible on Vegetated Co	cators: imum of  )  2)  Aerial Ima	one requir	ed; check all  Wati 1, 2, Salt Aqua Hydi Oxid Pres Rece Stun	that apply) er-Stained Le 4A, and 4B; Crust (B11) atic Inverteb rogen Sulfide ized Rhizosp ence of Redu ent Iron Redu ted or Stress	eaves ( )  orates ( e Odor otheres uced I uction sed Pla n Rema	(B9) (exce (B13) (C1) on Living I ron (C4) in Tilled So	pt MLRA Roots (C3) oils (C6)	Secondary In  Water-Sta 4A, and 4  Drainage Dry Seasc Saturation Geomorpi Shallow A FAC-neut Raised Ar	dicators (minimum of two required Leaves (B9) (MLRA 1, 2, B) Patterns (B10) On Water Table (C2) On Visible on Aerial Imagery (C9) Onic Position (D2) Oquitard (D3) Oral Test (D5) Other Mounds (D6) (LRR A)
Type:	y drology Indi icators (min Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B3) t or Crust (B4) oosits (B5) Soil Cracks (B on Visible on Vegetated Co vations: r Present?	cators: imum of  )  2)  Aerial Ima	one requir	ed; check all  Wate 1, 2, Salt Aqua Hyde Oxid Pres Rece Stun Othe	that apply) er-Stained Le 4A, and 4B, Crust (B11) atic Inverteb rogen Sulfide ized Rhizosp ence of Redu ent Iron Redu ited or Stress	eaves ( )  orates ( e Odor otheres uced II uction sed Pla n Rema	(B9) (exce (B13) (C1) on Living I ron (C4) in Tilled So	pt MLRA Roots (C3) oils (C6)	Secondary In  Water-Sta 4A, and 4  Drainage Dry Seasc Saturation Geomorpi Shallow A FAC-neut Raised Ar	dicators (minimum of two required Leaves (B9) (MLRA 1, 2, B) Patterns (B10) On Water Table (C2) On Visible on Aerial Imagery (C9) Onic Position (D2) Oquitard (D3) Oral Test (D5) Other Mounds (D6) (LRR A)

Project/Site: Litehouse			City/County:	Bonner		Sampli	ing Date: 16-	Apr-21	
Applicant/Owner: Cliff Mort					State: ID	Sam	pling Point:	DP	6
Investigator(s): Tom Duebendorfer, PWS			Section, To	ownship, R	ange: S 10	<b>T</b> 57N	<b>R</b> 2W		
Landform (hillslope, terrace, etc.): Flat			Local relief	(concave,	convex, none): fla	t	Slope:	0.0 % /	0.0
Gubregion (LRR): LRR E		 Lat.: 48	°18'12.52"N		Long.: 116°33'5	52.34"W	Datu	ım: WGS	84
oil Map Unit Name: Odenson silt loam						classification		-	
e climatic/hydrologic conditions on the sit	e typical for this	time of year	? Ye	s • No		ain in Remar			
		significantly			lormal Circumstan			No O	ı
_ , _ ,		naturally pro				•			
Summary of Findings - Attach					eded, explain any ations, trans		_	atures,	, etc.
Hydrophytic Vegetation Present? Yes	● No ○		To the	. Campled /	Aron				
Hydric Soil Present? Yes	O No 💿			Sampled A	Vac O Na	. 💿			
Wetland Hydrology Present? Yes	O No 💿		within	n a Wetland	d? 163 © 140				
Remarks:			<u> </u>						
Although hydrophytic vegetation is prese wetland.	nt (2 FAC pasture	e grasses), n	either hydric	soil indica	tors nor wetland h	ydrology not	observed. F	Plot not in	ı a
<b>VEGETATION -</b> Use scientific r	names of plan	its.	Dominant Species 2						
Tree Stratum (Plot size:	)	Absolute % Cover		Indicator Status	Dominance Test				
1,		0	0.0%		Number of Domin That are OBL, FAG		2	2 (,	(A)
2		0	0.0%		Tatal Novales and 6				
3		0	0.0%		Total Number of I Species Across All		2	2 (	(B)
4			0.0%						
Sapling/Shrub Stratum (Plot size:	)	0	= Total Cov	er	Percent of domi			.0% (	(A/B)
1,			0.0%		Prevalence Inde	x worksheet:	1		
2			0.0%		Total % C	over of:	Multiply by:		
3			0.0%		OBL species	0	x 1 = _	0	
4			0.0%		FACW species	0	x 2 = _	0	
5			0.0%		FAC species		x 3 = _	300	
Herb Stratum (Plot size:	)	0	= Total Cov	er	FACU species		x 4 =	0	
1 Agrostis stolonifera	,	50	<b>50.0</b> %	FAC	UPL species	0	x 5 =	0	
2 Alopecurus pratensis		50	50.0%	FAC	Column Totals:	100	(A) _	300	(B)
3		0	0.0%		Prevalence	Index = B/A	= 3.0	000	
4			0.0%		Hydrophytic Veg	etation Indi	rators		
5			0.0%		1 - Rapid Tes	=		on	
6			0.0%		✓ 2 - Dominan	-	-		
7			0.0%		✓ 3 - Prevalence	ce Index is ≤	3.0 <sup>1</sup>		
8.———			0.0%		4 - Morpholo	gical Adapta	tions <sup>1</sup> (Provi	de suppoi	rting
10			0.0%			emarks or on			-
11		•	0.0%		5 - Wetland	Non-Vasculai	r Plants <sup>1</sup>		
11,		100	= Total Cov	er	Problematic	Hydrophytic '	Vegetation <sup>1</sup>	(Explain)	
Woody Vine Stratum (Plot size:		0	0.0%		<sup>1</sup> Indicators of h be present, unle				nust
2.			0.0%		Hydrophytic				
			= Total Cov	er	Vegetation Present?	Yes • N	o O		
					1				
% Bare Ground in Herb Stratum: 0									

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

rofile Desc	ription: (De	scribe to t	he depth r	needed to	document	the indi	cator or co	onfirm the	absence of indicators.	)
Depth	(DC:	Matrix	aoptii i			ox Featu				,
(inches)	Color (r		%	Color (		%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR	3/3	100%						Silt Loam	
8-10	10YR	3/6	100%						Silt Loam	
10-17	2.5YR	5/3	70%	10YR	4/4	30%	С	M	Silt Loam	
										_
	  ncentration. D		PM-Redu	ced Matrix	CS=Covered	d or Coat	ed Sand Gr	rains 21 oc	ation: PL=Pore Lining. M	
	Indicators:	-						all is -Loc		olematic Hydric Soils <sup>3</sup> :
Black His Hydroge	ipedon (A2) tic (A3) n Sulfide (A4) Below Dark S	Surface (A1	1)	Str Loa Loa De	ndy Redox (S ripped Matrix amy Mucky N amy Gleyed I pleted Matrix	( (S6) Mineral (F Matrix (F x (F3)	2)	in MLRA 1)	2 cm Muck (A10 Red Parent Mate Other (Explain in	erial (TF2)
Sandy M	rk Surface (A: uck Mineral (S eyed Matrix (	S1)		De	dox Dark Su pleted Dark dox depressi	Surface (	•		<sup>3</sup> Indicators of hydroph wetland hydrology unless disturbed or	must be present,
	ayer (if pre									
Type:	ayer (if pre	sent):	atrix chro	ma of 3 v	vith value c	of 4+ wi	th redox c	loes not in	Hydric Soil Present?	
Restrictive I Type: Depth (inc Remarks: ydric indica	ayer (if preches):	sent): served - m	atrix chroi	ma of 3 v	vith value c	of 4+ wi	th redox c	loes not in	<b>Hydric Soil Present?</b> dicate reducing conditi	
Restrictive I Type: Depth (inc Remarks: ydric indica	ches): tors not obs	sent): served - m icators:					th redox c	loes not in	dicate reducing conditi	ons
Type:	ayer (if preches):	sent): served - m icators:		ed; check	all that app	oly)ed Leaves			dicate reducing conditi	ons icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2,
Restrictive I Type: Depth (inc Remarks: ydric indica  Iydrolog Vetland Hyd Primary Ind Surface High Wa	y drology Indi icators (min Water (A1) ter Table (A2	sent): served - m icators: iimum of o		ed; check	all that app Water-Staine I, 2, 4A, and	oly) ed Leaves 4B)			dicate reducing conditions of the secondary Ind  Secondary Ind  Water-Stain 4A, and 4B	icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2,
Restrictive I Type: Depth (inc Remarks: ydric indica  lydrolog Vetland Hyd Primary Ind Surface High Wa Saturatio	y drology Indicators (min Water (A1) ter Table (A2 on (A3)	sent): served - m icators: iimum of o		ed; check	all that app Water-Staine L, 2, 4A, and Galt Crust (B:	oly) d Leaves 4B)	(B9) (exce		Secondary Ind  Water-Stain 4A, and 4B	icators (minimum of two red ned Leaves (B9) (MLRA 1, 2, ) atterns (B10)
Restrictive I Type: Depth (inc Remarks: ydric indica  lydrolog Vetland Hyd Primary Ind Surface High Wa Saturatic Water M	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1)	sent): served - m icators: imum of o		ed; check	all that app Water-Staine 1, 2, 4A, and Galt Crust (B: Aquatic Inver	oly) d Leaves 4B) 11) rtebrates	(B9) (exce		Secondary Ind  Water-Stain 4A, and 4B  Drainage P  Dry Seasor	icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2, ) atterns (B10)
Restrictive I Type: Depth (included) Remarks: ydric indicate  ydrolog Vetland Hyd Primary Ind Surface High Water M Sedimer	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B.	sent): served - m icators: imum of o		ed; check	all that app Water-Staine I, 2, 4A, and Salt Crust (B: Aquatic Inver Hydrogen Su	oly) d Leaves 4B) 11) rtebrates lfide Odo	(B9) (exce (B13) r (C1)	pt MLRA	Secondary Ind  Secondary Ind  Water-Stain 4A, and 4B  Drainage P  Dry Seasor  Saturation	icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2, ) atterns (B10) i Water Table (C2) Visible on Aerial Imagery (C9)
ydrolog Vetland Hydrolog Wetland Hydrolog Saturation Water M Sedimen Drift dep	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) posits (B3)	sent): served - m icators: simum of o		ed; check	all that app Water-Staine I, 2, 4A, and Salt Crust (B: Aquatic Inver Hydrogen Su Oxidized Rhiz	oly) d Leaves 4B) 11) rtebrates lifide Odo	(B9) (exce (B13) r (C1) s on Living	pt MLRA	Secondary Ind  Secondary Ind  Water-Stain 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi	icators (minimum of two reduced Leaves (B9) (MLRA 1, 2, ) atterns (B10) i Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2)
Restrictive I Type: Depth (inc Remarks: ydric indica  Sufface High Wa Saturatic Water M Sedimen Drift dep Algal Ma	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) t or Crust (B4)	sent): served - m icators: simum of o		ed; check	all that app Water-Staine I, 2, 4A, and Salt Crust (B: Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of F	oly)  d Leaves 4B)  11)  rtebrates  lifide Odo zospheres Reduced	(B9) (exce (B13) r (C1) s on Living	pt MLRA Roots (C3)	Secondary Ind  Secondary Ind  Water-Stain 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi  Shallow Aq	icators (minimum of two received Leaves (B9) (MLRA 1, 2, ) atterns (B10) a Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3)
Restrictive I Type: Depth (inc Remarks: ydric indica  Aydrolog Vetland Hy Primary Ind Surface High Wa Saturatic Water M Sedimen Drift dep Algal Ma Iron Dep	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) t or Crust (B4 oosits (B5)	sent): served - m icators: simum of o		ed; check	all that app Water-Staine L, 2, 4A, and Salt Crust (B: Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of F Recent Iron F	oly)  Id Leaves 4B)  11)  rtebrates  Ifide Odo  zospheres  Reducted  Reductior	(B9) (exce (B13) r (C1) s on Living I Iron (C4) n in Tilled S	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi  Shallow Aq  FAC-neutra	icators (minimum of two recent Leaves (B9) (MLRA 1, 2, ) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) at Test (D5)
estrictive I Type: Depth (inclemarks: /dric indical /dr	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) t or Crust (B4 oosits (B5) Soil Cracks (B	sent): served - m scators: simum of o	ne require	ed; check	all that app Water-Staine I, 2, 4A, and Salt Crust (B: Aquatic Inver Hydrogen Su Dividized Rhiz Presence of F Recent Iron F Stunted or St	oly) d Leaves 4B) 11) rtebrates lifide Odo zospheres Reduced 1	(B9) (exce (B13) r (C1) s on Living liron (C4) n in Tilled S lants (D1) (	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two received Leaves (B9) (MLRA 1, 2, ) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) il Test (D5) Mounds (D6) (LRR A)
Restrictive I Type: Depth (inca Remarks: ydric indica  lydrolog Vetland Hydrolog Vetland Hydrolog Surface High Wa Saturatio Water M Sedimen Drift dep Algal Ma Iron Dep Surface Inundati	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) t or Crust (B4 oosits (B5)	icators: iimum of o	ne require	ed; check	all that app Water-Staine L, 2, 4A, and Salt Crust (B: Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of F Recent Iron F	oly) d Leaves 4B) 11) rtebrates lifide Odo zospheres Reduced 1	(B9) (exce (B13) r (C1) s on Living liron (C4) n in Tilled S lants (D1) (	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two recent Leaves (B9) (MLRA 1, 2, ) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) at Test (D5)
Restrictive I Type: Depth (inca Remarks: ydric indica  lydrolog Vetland Hydrolog Vetland Hydrolog Surface High Wa Saturatio Water M Sedimen Drift dep Algal Ma Iron Dep Surface Inundati	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) ot or Crust (B4 oosits (B5) Soil Cracks (B on Visible on Vegetated Co	icators: iimum of o	ne require	ed; check	all that app Water-Staine I, 2, 4A, and Salt Crust (B: Aquatic Inver Hydrogen Su Dividized Rhiz Presence of F Recent Iron F Stunted or St	oly) d Leaves 4B) 11) rtebrates lifide Odo zospheres Reduced 1	(B9) (exce (B13) r (C1) s on Living liron (C4) n in Tilled S lants (D1) (	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two received Leaves (B9) (MLRA 1, 2, ) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) il Test (D5) Mounds (D6) (LRR A)
Restrictive I Type: Depth (inc Remarks: ydric indica  lydrolog Vetland Hyd Primary Ind Surface High Wa Saturatic Water M Sedimen Drift dep Algal Ma Iron Dep Surface Inundati Sparsely	y drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) t or Crust (B4 oosits (B5) Soil Cracks (B on Visible on Vegetated Co	icators: iimum of o	ne require lery (B7) face (B8)	ed; check  V 1 S S S S S S S S S S S S S S S S S	all that app Water-Staine I, 2, 4A, and Salt Crust (B: Aquatic Inver Hydrogen Su Dividized Rhiz Presence of F Recent Iron F Stunted or St	oly) d Leaves 4B) 11) rtebrates lifide Odo zospheres Reduced : Reductior tressed P in in Rem	(B9) (exce (B13) r (C1) s on Living liron (C4) n in Tilled S lants (D1) (	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two received Leaves (B9) (MLRA 1, 2, ) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) il Test (D5) Mounds (D6) (LRR A)
Restrictive I Type: Depth (inc Remarks: ydric indica  lydrolog Vetland Hyd Primary Ind Surface High Wa Saturatic Water M Sedimen Drift dep Algal Ma Iron Dep Surface Inundati Sparsely	y  drology Indi icators (min Water (A1) ter Table (A2 on (A3) arks (B1) t Deposits (B3) ot or Crust (B4 oosits (B5) Soil Cracks (B on Visible on Vegetated Co vations: r Present?	sent): served - m icators: simum of o 2) 4) Aerial Imagoncave Surf	pery (B7) Face (B8)	ed; check	all that app Water-Staine I, 2, 4A, and Salt Crust (B: Aquatic Inver Hydrogen Su Dxidized Rhiz Presence of F Recent Iron F Stunted or St Other (Explai	oly)  Ind Leaves  4B)  It is the braces  If ide Odo  cospheres  Reduction  tressed P  in in Rem  mes):	(B9) (exce (B13) r (C1) s on Living liron (C4) n in Tilled S lants (D1) (	pt MLRA  Roots (C3)  oils (C6)  LRR A)	Secondary Ind  Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two reduced Leaves (B9) (MLRA 1, 2, ) atterns (B10) water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) il Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)

Project/Site: Litehouse		City/County:	Bonner		Sampli	ing Date: 16	-Apr-21	
Applicant/Owner: Cliff Mort				State: ID	Sam	pling Point:	DP	7
Investigator(s): Tom Duebendorfer, PWS		Section, To	ownship, R	ange: S 10	<b>T</b> 57N	<b>R</b> 2W		
Landform (hillslope, terrace, etc.): Flat		Local relief	(concave,	convex, none): fla	t	Slope:	0.C <b>% /</b>	0.0
Gubregion (LRR): LRR E	Lat.:	48°18'9.75"N		Long.: 116°33'5	3.55"W	Dati	um: WGS	84
oil Map Unit Name: Odenson silt loam				NWI	classification	: PFM1C	-	
e climatic/hydrologic conditions on the site	typical for this time of ver	ar? Yes	s   No		ain in Remar			
		ly disturbed?	Are "N	Iormal Circumstan			No C	)
		roblematic?		eded, explain any	•			
Summary of Findings - Attach s			•			-	atures	, etc.
Hydrophytic Vegetation Present? Yes	No O	Takka	. Campulad (	N				
Hydric Soil Present? Yes	No 💿		Sampled A	Vac O Na				
Wetland Hydrology Present? Yes	No 💿	within	n a Wetland	d? Tes UNO				
Remarks:		l .						
Although hydrophytic vegetation is present wetland.	(2 FAC pasture grasses),	neither hydric	soil indica	tors nor wetland h	ydrology not	observed. I	Plot not ir	n a
<b>VEGETATION</b> - Use scientific na	mes of plants.	Dominant						
Tree Stratum (Plot size:)		Species? e Rel.Strat. er Cover	Indicator Status	Dominance Test				
1,		0.0%		Number of Domin That are OBL, FAC		2	2 (	(A)
2,		0.0%		Tatal Novales 6 F				
3,		0.0%		Total Number of E Species Across All		2	2 (	(B)
4	0	0.0%						
Sapling/Shrub Stratum (Plot size:	)	_ = Total Cov	er	Percent of domi That Are OBL, F			.0% (	(A/B)
1	0	0.0%		Prevalence Inde	x worksheet:	1		
2		0.0%		Total % Co	over of:	Multiply by	:	
3		0.0%		OBL species	0	x 1 = _	0	
4		0.0%		FACW species	0	x 2 = _	0	
5		0.0%		FAC species	100	x 3 = _	300	
Herb Stratum (Plot size: )	0	_ = Total Cov	er	FACU species	0	x 4 = _	0	
1 Agrostis stolonifera	50	<b>50.</b> 0%	FAC	UPL species	0	x 5 = _	0	
Alopecurus pratensis	50	✓ 50.0%	FAC	Column Totals:	100	(A) _	300	(B)
3		0.0%	1710	Prevalence	Index = B/A	= 3.0	000	
4	0	0.0%						
5	0	0.0%		Hydrophytic Veg				
6		0.0%		☐ 1 - Rapid Tes	-	-	ion	
7		0.0%		✓ 3 - Prevalence				
8.—	•	0.0%		4 - Morpholo				
9		0.0%			emarks or on			n unig
10.	0	0.0%		5 - Wetland	Non-Vascular	$^{ m l}$ Plants $^{ m l}$		
11	100	= Total Cov	er	Problematic I	Hydrophytic \	Vegetation <sup>1</sup>	(Explain)	)
Woody Vine Stratum (Plot size:	)	_		<sup>1</sup> Indicators of h be present, unle				must
1 2.		0.0%		Hydrophytic				
<u> </u>		= Total Cov	 er	Vegetation Present?	Yes   N	o O		
j				riesent?				
% Bare Ground in Herb Stratum: 0								

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil									Sampling Point: DP 7
Profile Desci	-		the depth r	needed to docu			onfirm the	absence of indicators.)	
Depth (inches)		Matrix		Color (moist	Redox Featu		Loc <sup>2</sup>	Texture	Remarks
(inches)	Color (r			Color (moist	<u> </u>	Type 1	LOC-		Remarks
0-9	10YR	3/3						Silt Loam	
9-16	2.5Y	5/3	90%	10YR 4	/4 10%	_ <u>C</u>	M	Silt Loam	
								Silt Loam	
									-
1									
				ced Matrix, CS=C			ains ²Loca	ation: PL=Pore Lining. M=	
Histosol (		(Applica	DIE TO AII LE	RRs, unless othe	e <b>rwise notea.</b> edox (S5)	-)		2 cm Muck (A10)	lematic Hydric Soils <sup>3</sup> :
	pedon (A2)				Matrix (S6)			Red Parent Mate	
☐ Black Hist				Loamy M	ucky Mineral (I	F1) (except	in MLRA 1)	Other (Explain in	` '
Hydroger	n Sulfide (A4)			′	leyed Matrix (F	=2)			,
	Below Dark 9	•	11)		Matrix (F3)	-\			
	rk Surface (A1	•			ark Surface (F6 Dark Surface	•		<sup>3</sup> Indicators of hydrophy wetland hydrology r	
_ '	uck Mineral (S eyed Matrix (S	•			pressions (F8)			unless disturbed or	
Restrictive L									
Type:	ayer (ii pre	schej.							
Depth (inc	hes).							<b>Hydric Soil Present?</b>	Yes O No 💿
Remarks:	·								
Hydric indica	tors not obs	served - r	natrix chro	na of 3 with v	alue of 4+ wi	ith redox o	loes not ind	dicate reducing condition	ons
Hydrolog	у								
Wetland Hyd	rology Indi	cators:							
Primary Indi	icators (min	imum of	one require	ed; check all tha	at apply)			Secondary Indi	cators (minimum of two required)
Surface \	Water (A1)				Stained Leaves	s (B9) (exce	pt MLRA	Water-Stain	ed Leaves (B9) (MLRA 1, 2,
High Wat	ter Table (A2)	)		1, 2, 4,	A, and 4B)			4A, and 4B)	
Saturatio	on (A3)			Salt Cr	ust (B11)			Drainage Pa	itterns (B10)
	arks (B1)				Invertebrates	. ,		☐ Dry Season	Water Table (C2)
	t Deposits (B	2)			en Sulfide Odo	` '		Saturation V	isible on Aerial Imagery (C9)
	osits (B3)				d Rhizosphere	_	Roots (C3)		Position (D2)
	t or Crust (B4	ł)			ce of Reduced	, ,	:1 (06)	☐ Shallow Aqu	` '
	osits (B5) Soil Cracks (B	(C)			Iron Reduction		` '	FAC-neutral	` '
	on Visible on	•	agery (R7)		d or Stressed P	• •	LKK A)		Mounds (D6) (LRR A) Hummocks (D7)
	Vegetated Co			□ Other (	Explain in Rem	narks)		Trost neave	Tidillillocks (D7)
Field Observ	ations:								
Surface Water	r Present?	Yes	O No	Depti	n (inches):				
Water Table P	Present?	Yes	O No	Dent!	n (inches):				
		- <del>-</del>		Бери				nd Hydrology Present?	Yes O No 🖲

(includes capillary fringe)

Remarks:

Yes O No •

Depth (inches):

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

Project/Site: Litehouse				City/County:	Bonner		Sampli	ing Date: 16	-Apr-21	
Applicant/Owner: Cliff Mort						State: ID	Sam	pling Point:	DP	8
Investigator(s): Tom Duebendorfer, PW				Section, To	ownship, R	ange: S 10	<b>T</b> 57N	R 2W		
Landform (hillslope, terrace, etc.): Fl	lat			Local relief	(concave,	convex, none): fla	t	Slope:	0.C <b>% /</b>	0.0
			Lat.: 48	°18'9.16"N		Long.: 116°33'5	51.31"W	Dat	um: WGS	84
oil Map Unit Name: Odenson silt loam							classification	 PFM1C		
e climatic/hydrologic conditions on the		pical for this	time of vear	? Ye	s   No		ain in Remar			
	or Hydro		ignificantly		Are "N	Iormal Circumstan			No O	)
_ , _ ,	-		naturally pro			eded, explain any	•			
Summary of Findings - Atta	-	-			•			-	atures	, etc.
Hydrophytic Vegetation Present?	Yes •	No O		To the	. Commind (	N				
Hydric Soil Present?	Yes 🔾	No 💿			Sampled A	Vac O Na				
Wetland Hydrology Present?	Yes 🔾	No 💿		withi	n a Wetland	d? res ⊖ No				
Remarks:										
Although hydrophytic vegetation is pwetland.	oresent (2	? FAC pasture	grasses), n	either hydric	soil indicat	tors nor wetland h	ydrology not	observed.	Plot not in	n a
<b>VEGETATION</b> - Use scienti	fic nam	es of plant	ts.	Dominant						
Tree Stratum (Plot size:	)		Absolute % Cover		Indicator Status	Dominance Test				
1,			0	0.0%		Number of Domin That are OBL, FAG			2 (	(A)
2			0	0.0%		Tatal Novales and 6	Na			
3			0	0.0%		Total Number of I Species Across All		:	2 (	(B)
4				0.0%						
Sapling/Shrub Stratum (Plot size:		)	0	= Total Cov	er	Percent of domi			.0% (	(A/B)
1				0.0%		Prevalence Inde	x worksheet	:		
2				0.0%		Total % C		Multiply by		
3			_	0.0%		OBL species		x 1 = _	0	
4 5.			0	0.0%		FACW species	0	x 2 = _	0	
J						FAC species	0	x 3 = _	300	
Herb Stratum (Plot size:	)		0	= Total Cov	er	FACU species	0	x 4 = _	0	
1 Agrostis stolonifera			50	<b>✓</b> 50.0%	FAC	UPL species		x 5 = _		
2 Alopecurus pratensis			50	<b>✓</b> 50.0%	FAC	Column Totals:		(A) _	300	(B)
3				0.0%_		Prevalence	Index = B/A	= 3.0	000_	
4				0.0%		Hydrophytic Veg	etation Indi	cators:		
5				0.0%		1 - Rapid Tes			ion	
6			•	0.0%		✓ 2 - Dominan	ce Test is > 5	50%		
7				0.0%		✓ 3 - Prevalence	e Index is ≤	<b>3.0</b> <sup>1</sup>		
9				0.0%		4 - Morpholo				orting
10				0.0%		l	emarks or on	•	sheet)	
11			^	0.0%		5 - Wetland				
			100	= Total Cov	er	Problematic	Hydrophytic '	Vegetation <sup>1</sup>	(Explain)	)
Woody Vine Stratum (Plot size:			0	0.0%		<sup>1</sup> Indicators of h be present, unle				must
2.			0	0.0%		Hydrophytic				
			0	= Total Cov	er	Vegetation Present?	Yes   N	lo O		
						1				
% Bare Ground in Herb Stratum: (	)									

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

oil										Sampling Point: DP 8
rofile Desci	-		he depth	needed to				onfirm the	absence of indicators.	)
Depth		Matrix		Color (		ox Featu			Toytura	Bomarko
(inches) 0-9	Color (r		<u>%</u> 100%	COIOF	(moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Silt Loam	Remarks
	10YR	3/3		10\/D		100/			-	_
9-16		5/3	90%	10YR	4/4	10%	_ <u>C</u>	M	Silt Loam	
										_
										_
	centration. D							rains <sup>2</sup> Loo	cation: PL=Pore Lining. M	
	Indicators:	(Applicab	le to all L				)			olematic Hydric Soils <sup>3</sup> :
Histosol (					ndy Redox ( ripped Matri	. ,			2 cm Muck (A10	<b>,</b>
Black His	pedon (A2)				amy Mucky	` '	=1) (except	in MIRA 1)	Red Parent Mate	, ,
Hydroger	n Sulfide (A4)			_ Lo	amy Gleyed	Matrix (F	, , ,	mrietov 1)	Other (Explain ir	n kemarks)
	Below Dark S	,	.1)		epleted Matr edox Dark Su		<b>N</b>		2	
	rk Surface (A1	•			pleted Dark		-		<sup>3</sup> Indicators of hydroph wetland hydrology	
	uck Mineral (S eyed Matrix (S	-			dox depress		. , ,		unless disturbed or	
-		J 1)								
strictive L	aver (if pres	sent):								
	ayer (if pre	sent):								
Туре:		sent):							Hydric Soil Present?	Yes ○ No •
Type: Depth (inc emarks:			natrix chro	oma of 3 w	vith redox o	does not	indicate r	educing co	<u> </u>	Yes ○ No •
Type: Depth (inc emarks: dric indica	tors not obs		natrix chro	oma of 3 w	rith redox (	does not	indicate r	educing co	<u> </u>	Yes ○ No •
Type:	tors not obs	served - m	natrix chro	oma of 3 w	vith redox o	does not	indicate r	educing co	<u> </u>	Yes ○ No •
Type:	tors not obs	eerved - m					indicate r	educing co	onditions	Yes ○ No ●
Depth (incommarks: dric indication indicatio	tors not obs  y drology Indicators (Miniwater (A1)	cators:		ed; check		ply)ed Leaves			onditions  Secondary Ind	icators (minimum of two requested Leaves (B9) (MLRA 1, 2,
Depth (incommarks:  dric indicated and Hydrian Surface Manner High War	tors not obs  y  drology Indi icators (mini Water (A1) ter Table (A2)	cators:		ed; check	all that ap Water-Staine 1, 2, 4A, and	ply) ed Leaves d 4B)			Secondary Ind  Water-Stair 4A, and 4B	icators (minimum of two requested Leaves (B9) (MLRA 1, 2,
Depth (incommarks: dric indication indicatio	y  Irology Indi icators (mini Water (A1) ter Table (A2)	cators:		ed; check	all that ap Water-Staine 1, 2, 4A, and Salt Crust (B	ply) ed Leaves d 4B) s11)	(B9) (exce		Secondary Ind  Water-Stair 4A, and 4B	icators (minimum of two requ ned Leaves (B9) (MLRA 1, 2, ) atterns (B10)
Type:	y irology Indi icators (mini Water (A1) ter Table (A2) on (A3) arks (B1)	cators:		red; check	all that ap Water-Staine 1, 2, 4A, and Salt Crust (B Aquatic Inve	ply) ed Leaves 1 4B) 111) ertebrates	(B9) (exce		Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Season	icators (minimum of two req ned Leaves (B9) (MLRA 1, 2, ) atterns (B10)
Type:	y Irology Indi icators (mini Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2)	cators:		ed; check	all that ap Water-Staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen Su	ply) ed Leaves 1 4B) s11) ertebrates ulfide Odo	(B9) (exce (B13) or (C1)	pt MLRA	Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Season  Saturation	icators (minimum of two req ned Leaves (B9) (MLRA 1, 2, ) atterns (B10) i Water Table (C2) Visible on Aerial Imagery (C9)
Depth (incemarks: dric indicated and Hydrian Hydrology etland Hydrimary Indi    Surface Note     High War More     Water More     Sedimen     Drift dep	y trology Indi icators (mini Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3)	cators: imum of (		ed; check	all that ap Water-Staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi	ply) ed Leaves 1 4B) s11) ertebrates ulfide Odo	(B9) (exce (B13) or (C1) s on Living	pt MLRA	Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Season  Saturation  Geomorphi	icators (minimum of two request Leaves (B9) (MLRA 1, 2, ) atterns (B10) water Table (C2) Visible on Aerial Imagery (C9) c Position (D2)
Depth (incommarks:  dric indicated and Hydrian High Water Marks Sedimen Drift dep  Algal Marks:	y drology Indi icators (mini Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) oosits (B3) t or Crust (B4)	cators: imum of (		ed; check	all that ap Water-Staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of	ply) ed Leaves 1 4B) 111) ertebrates ulfide Odo zospheres Reduced	(B9) (exce (B13) or (C1) s on Living Iron (C4)	pt MLRA	Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Season  Saturation  Geomorphi  Shallow Aq	icators (minimum of two request Leaves (B9) (MLRA 1, 2, ) atterns (B10) water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3)
Depth (incemarks: dric indicated and Hydrology etland Hydrology etland Hydrology imary Indi   Surface North     Saturation     Water Modern     Sedimen     Drift dep     Algal Ma     Iron Dep	y drology Indi icators (mini Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B3) t or Crust (B4) oosits (B5)	cators: imum of o		ed; check	all that ap Water-Staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron	ply) ed Leaves d 4B) entebrates ulfide Odo zospheres Reduced i	(B9) (exce (B13) or (C1) s on Living Iron (C4) on in Tilled S	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Season  Saturation  Geomorphi  Shallow Aq  FAC-neutra	icators (minimum of two required Leaves (B9) (MLRA 1, 2, ) atterns (B10) water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3)
Depth (incommarks:  dric indicated and Hydrogomethand Hydrogometha	y drology Indi icators (mini Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B3) ot or Crust (B4 oosits (B5) Soil Cracks (B	cators: imum of (	one requir	ed; check	all that ap Water-Staind 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Stunted or S	ply) ed Leaves d 4B) st1) ertebrates ulfide Odo zospheres Reduced 1 Reduction itressed Pl	(B9) (exce (B13) or (C1) s on Living Iron (C4) or in Tilled S lants (D1) (	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Season  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two requed Leaves (B9) (MLRA 1, 2, ) atterns (B10) water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A)
Depth (incommarks: dric indication indicatio	y drology Indi icators (mini Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B3) t or Crust (B4) oosits (B5)	cators: imum of (	one requir gery (B7)	ed; check	all that ap Water-Staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron	ply) ed Leaves d 4B) st1) ertebrates ulfide Odo zospheres Reduced 1 Reduction itressed Pl	(B9) (exce (B13) or (C1) s on Living Iron (C4) or in Tilled S lants (D1) (	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Season  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two required Leaves (B9) (MLRA 1, 2, ) atterns (B10) water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3)
Type:	y drology Indi icators (mini Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B3) ot or Crust (B4) oosits (B5) Soil Cracks (B on Visible on Vegetated Co	cators: imum of (	one requir gery (B7) face (B8)	ed; check	all that ap Water-Staind 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Stunted or S	ply) ed Leaves d 4B) st1) ertebrates ulfide Odo zospheres Reduced 1 Reduction itressed Pl	(B9) (exce (B13) or (C1) s on Living Iron (C4) or in Tilled S lants (D1) (	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Season  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two requed Leaves (B9) (MLRA 1, 2, ) atterns (B10) water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A)
Type:	y drology Indi icators (mini Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B3) t or Crust (B4) osits (B5) Soil Cracks (B on Visible on Vegetated Co	cators: imum of (	one requir gery (B7) face (B8)	ed; check	all that ap Water-Staind 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Stunted or S	ply) ed Leaves d 4B) ertebrates ulfide Odo zospheres Reduced i Reductior itressed Pl in in Rem	(B9) (exce (B13) or (C1) s on Living Iron (C4) or in Tilled S lants (D1) (	pt MLRA Roots (C3) oils (C6)	Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Season  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two requed Leaves (B9) (MLRA 1, 2, ) atterns (B10) water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A)
Type:	y drology Indi icators (mini Water (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B3) t or Crust (B4) oosits (B5) Soil Cracks (B on Visible on Vegetated Co vations: r Present?	cators: imum of (	gery (B7) face (B8)	ed; check	all that ap Water-Staine 1, 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Stunted or S Other (Expla	ply) ed Leaves 1 4B) st11) ertebrates ulfide Odo zospheres Reductior stressed Pl iin in Rem	(B9) (exce (B13) or (C1) s on Living Iron (C4) or in Tilled S lants (D1) (	pt MLRA  Roots (C3)  oils (C6) (LRR A)	Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Season  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two required Leaves (B9) (MLRA 1, 2, ) atterns (B10) a Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)

	Lat.: 48 ne of year nificantly of turally pro	Yedisturbed?  Is the within	(concave, o	lormal Circumstances" present? Yes No No eded, explain any answers in Remarks.)  ations, transects, important features, e
Landform (hillslope, terrace, etc.): Flat  subregion (LRR): LRR E  oil Map Unit Name: Odenson silt loam  e climatic/hydrologic conditions on the site typical for this tin  Are Vegetation , Soil , or Hydrology sig  Are Vegetation , Soil , or Hydrology nate  Summary of Findings - Attach site map show  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks:  Although hydrophytic vegetation is present (2 FAC pasture g	Lat.: 48 ne of year nificantly fro	Yedisturbed?  Is the within	(concave, o	Convex, none): flat  Long.: 116°33'49.19"W  NWI classification: PEM1C  (If no, explain in Remarks.)  cormal Circumstances" present? Yes No  eded, explain any answers in Remarks.)  ations, transects, important features, e
Landform (hillslope, terrace, etc.): Flat  subregion (LRR): LRR E  oil Map Unit Name: Odenson silt loam  e climatic/hydrologic conditions on the site typical for this tin  Are Vegetation , Soil , or Hydrology sig  Are Vegetation , Soil , or Hydrology nate  Summary of Findings - Attach site map show  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks:  Although hydrophytic vegetation is present (2 FAC pasture g	Lat.: 48 ne of year nificantly fro	°18'8.85"N  ? Ye disturbed? blematic? mpling p  Is the within	Are "N  (If necessary of the second of the s	Long.: 116°33'49.19"W Datum: WGS 84  NWI classification: PEM1C  (If no, explain in Remarks.)  formal Circumstances" present? Yes No oeded, explain any answers in Remarks.)  ations, transects, important features, explain any answers in Remarks.
oil Map Unit Name: Odenson silt loam  e climatic/hydrologic conditions on the site typical for this tin  Are Vegetation , Soil , or Hydrology sig  Are Vegetation , Soil , or Hydrology nat  Summary of Findings - Attach site map show  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks:  Although hydrophytic vegetation is present (2 FAC pasture g	ne of year nificantly turally pro wing sa	? Ye disturbed? blematic? impling p Is the within	Are "N (If nec	NWI classification: PEM1C  (If no, explain in Remarks.)  lormal Circumstances" present? Yes No Ceded, explain any answers in Remarks.)  ations, transects, important features, explain any answers in Remarks.
oil Map Unit Name: Odenson silt loam  e climatic/hydrologic conditions on the site typical for this tin  Are Vegetation , Soil , or Hydrology sig  Are Vegetation , Soil , or Hydrology nat  Summary of Findings - Attach site map show  Hydrophytic Vegetation Present? Yes No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks:  Although hydrophytic vegetation is present (2 FAC pasture g	ne of year nificantly turally pro wing sa	? Ye disturbed? blematic? impling p Is the within	Are "N (If nec	NWI classification: PEM1C  (If no, explain in Remarks.)  lormal Circumstances" present? Yes No Ceded, explain any answers in Remarks.)  ations, transects, important features, explain any answers in Remarks.
e climatic/hydrologic conditions on the site typical for this tine.  Are Vegetation	nificantly turally pro wing sa	disturbed? blematic? mpling p  Is the	Are "N (If nec	(If no, explain in Remarks.) formal Circumstances" present? Yes No No eded, explain any answers in Remarks.)  ations, transects, important features, e
Are Vegetation , Soil , or Hydrology signare Vegetation , Soil , or Hydrology and Summary of Findings - Attach site map show the Hydrophytic Vegetation Present? Yes No Hydrology Present? Yes No Wetland Hydrology Present? Yes No Femarks:  Although hydrophytic vegetation is present (2 FAC pasture g	nificantly turally pro wing sa	disturbed? blematic? mpling p  Is the	Are "N (If nec	lormal Circumstances" present? Yes No No eded, explain any answers in Remarks.)  ations, transects, important features, e
Are Vegetation , Soil , or Hydrology and national nationa	turally pro	iblematic? impling p Is the	(If ned	ations, transects, important features, e
Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes No No  Hydric Soil Present? Yes No  Wetland Hydrology Present? Yes No  Remarks: Although hydrophytic vegetation is present (2 FAC pasture g	wing sa	Is the	Sampled A	ations, transects, important features, e
Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Although hydrophytic vegetation is present (2 FAC pasture g	rasses), n	withi	-	Vac O Na 🔘
Wetland Hydrology Present?  Remarks:  Although hydrophytic vegetation is present (2 FAC pasture g	rasses), n	withi	-	Vac O Na 🔘
Wetland Hydrology Present? Yes No  Remarks:  Although hydrophytic vegetation is present (2 FAC pasture g	rasses), n		n a Wetland	1? res UNO S
Remarks: Although hydrophytic vegetation is present (2 FAC pasture g	rasses), n	either hydric		
	rasses), n	either hydric		
			soil indicat	ors nor wetland hydrology not observed. Plot not in a
<b>VEGETATION</b> - Use scientific names of plants.		Dominant		
Tree Stratum (Plot size:)	Absolute % Cover		Indicator Status	Dominance Test worksheet:
1,	0	0.0%		Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2,	0	0.0%		Takal Number of Demission
3	0	0.0%		Total Number of Dominant Species Across All Strata: 2 (B)
4	0	0.0%		
Sapling/Shrub Stratum (Plot size:)	0	= Total Cov	er	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B
1	0	0.0%		Prevalence Index worksheet:
2	0	0.0%		Total % Cover of: Multiply by:
3		0.0%		OBL species $0 \times 1 = 0$
4		0.0%		FACW species $0 \times 2 = 0$
J				FAC species $\frac{100}{0}$ x 3 = $\frac{300}{0}$
Herb Stratum (Plot size:	0	= Total Cov	er	FACU species $0 \times 4 = 0$
	50	<b>50.0</b> %	FAC	UPL species x 5 =
2 Alopecurus pratensis	50	<b>50.0</b> %	FAC	Column Totals: $100$ (A) $300$ (B)
3	0	0.0%		Prevalence Index = $B/A = 3.000$
4	0	0.0%		Hydrophytic Vegetation Indicators:
5		0.0%		1 - Rapid Test for Hydrologic Vegetation
6		0.0%		✓ 2 - Dominance Test is > 50%
7		0.0%		✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
9	0	0.0%		4 - Morphological Adaptations <sup>1</sup> (Provide supportin
10	0	0.0%		data in Remarks or on a separate sheet)
11	0	0.0%		5 - Wetland Non-Vascular Plants 1
	100	= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:) 1.	0	O.0%		<sup>1</sup> Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.
2.	0	0.0%		Hydrophytic
	0	= Total Cov	er	Vegetation Present? Yes ● No ○
% Bare Ground in Herb Stratum: 0				

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

rofile Desc	ription: (Des	cribe to	the depth r	eeded to document	t the indicator or	confirm the	absence of indicators.	
Depth	-	Matrix	the depth i		lox Features		absence of indicators	
(inches)	Color (n		%	Color (moist)	% Type <sup>1</sup>	Loc2	Texture	Remarks
0-11	10YR	3/3	100%				Silt Loam	
11-18		5/3	100%		-		Silt Loam	
					-		-	
							-	
								_
Type: C=Coi	ncentration D	=Depletio	n RM=Redu	ced Matrix, CS=Covere	ed or Coated Sand (	 Grains 21 oc	ation: PL=Pore Lining. M	– =Matrix
•				RRs, unless otherwis		Sidilis Loc		lematic Hydric Soils <sup>3</sup> :
Histosol		(Арриса	JIC to all EN	Sandy Redox	=		2 cm Muck (A10	•
	ipedon (A2)			Stripped Matri	• •		Red Parent Mate	•
Black His				Loamy Mucky	Mineral (F1) (excep	t in MLRA 1)	Other (Explain in	` '
Hydroge	n Sulfide (A4)			Loamy Gleyed	` '		, ,	•
	Below Dark S	•	11)	Depleted Matr	` '			
	rk Surface (A1	•		Redox Dark So			<sup>3</sup> Indicators of hydroph	
_ ′	uck Mineral (S	,		Redox depres	` ,		wetland hydrology unless disturbed or	
	leyed Matrix (S							<u> </u>
	Layer (if pres	sent):						
		•						
Туре:	chos).						Hydric Soil Present?	Yes ○ No ●
Type: Depth (in Remarks:			natrix chror	ma of 3 lacking redo	ox does not indica	te reducing	·	Yes ○ No •
Type: Depth (in Remarks:			natrix chror	ma of 3 lacking redo	ox does not indica	te reducing	·	Yes ○ No •
Type: _ Depth (in Remarks: ydric indica	ntors not obs		natrix chror	ma of 3 lacking redo	ox does not indica	te reducing	·	Yes ○ No •
Type:	ntors not obs	erved - n	natrix chror	ma of 3 lacking redo	ox does not indica	te reducing	·	Yes ○ No •
Type:	itors not obs	erved - n		ma of 3 lacking redo		te reducing	conditions	Yes ○ No ●
Type:	itors not obs	erved - n		ed; check all that ap	oply) ed Leaves (B9) (exc		conditions  Secondary Ind	icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2,
Type:	itors not obs  Y  drology Indicators (mini	erved - n		ed; check all that ap Water-Stain 1, 2, 4A, an	oply) ed Leaves (B9) (exc d 4B)		Secondary Ind  Water-Stain 4A, and 4B	icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2, )
Type:	y drology Indii icators (mini Water (A1) ater Table (A2)	erved - n		ed; check all that ap	oply) ed Leaves (B9) (exc d 4B)		conditions  Secondary Ind	icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2, )
Type:	drology Indicators (minicators (minicators (A1) atter Table (A2) on (A3) larks (B1)	cators:		ed; check all that ap Water-Stain 1, 2, 4A, an	oply) ed Leaves (B9) (exc d 4B)		Secondary Ind  Water-Stain 4A, and 4B  Drainage P	icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2, )
Type:	drology Indicitators (minimum (A1) atter Table (A2) on (A3) larks (B1) at Deposits (B2)	cators:		ed; check all that ap Water-Stain 1, 2, 4A, and Salt Crust (E Aquatic Inve	oply) ed Leaves (B9) (exc d 4B) B11) ertebrates (B13) ulfide Odor (C1)	ept MLRA	Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Seasor  Saturation	icators (minimum of two red ned Leaves (B9) (MLRA 1, 2, ) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9)
Type:	drology Indicators (minicators (minicators (A1) atter Table (A2) on (A3) larks (B1)	cators:		ed; check all that ap Water-Stain 1, 2, 4A, and Salt Crust (E Aquatic Inve	oply) ed Leaves (B9) (exc d 4B) B11) ertebrates (B13)	ept MLRA	Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Seasor  Saturation	icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2, ) atterns (B10) Water Table (C2)
Type:	drology Indicitators (minimum (A2) on (A3) larks (B1) at Deposits (B3) at or Crust (B4)	erved - n		ed; check all that ap Water-Stain- 1, 2, 4A, and Salt Crust (E Aquatic Inve	oply) ed Leaves (B9) (exc d 4B) B11) ertebrates (B13) ulfide Odor (C1)	ept MLRA	Secondary Ind  Water-Stair 4A, and 4B  Drainage P  Dry Seasor  Saturation	icators (minimum of two red ned Leaves (B9) (MLRA 1, 2, ) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2)
Type:	drology India icators (mini Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) oosits (B3) at or Crust (B4)	cators:		ed; check all that ap Water-Stain 1, 2, 4A, and Salt Crust (E Aquatic Inve	oply) ed Leaves (B9) (exc d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres on Living	ept MLRA	Secondary Ind  Water-Stain 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi	icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2, ) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3)
Type:	drology Indicators (minimater Table (A2) on (A3) larks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) Soil Cracks (B6)	cators: imum of	one require	ed; check all that ap  Water-Stain 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen So Oxidized Rh Presence of Recent Iron	oply) ed Leaves (B9) (exc d 4B) B11) ertebrates (B13) ulfide Odor (C1) izospheres on Living Reduced Iron (C4)	ept MLRA  J Roots (C3)  Soils (C6)	Secondary Ind  Water-Stain 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2, ) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A)
Type:	drology India icators (mini Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) oosits (B3) at or Crust (B4)	cators: imum of	one require	ed; check all that ap  Water-Stain. 1, 2, 4A, and Salt Crust (E Aquatic Inve. Hydrogen St Oxidized Rh Presence of Recent Iron Stunted or S	ed Leaves (B9) (exc d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres on Living Reduced Iron (C4) Reduction in Tilled	ept MLRA  J Roots (C3)  Soils (C6)	Secondary Ind  Water-Stain 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2, ) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) I Test (D5)
Type:	drology Indicators (minimater Table (A2) on (A3) larks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) Soil Cracks (B6)	cators: imum of  )  2)  Aerial Ima	one require	ed; check all that ap  Water-Stain. 1, 2, 4A, and Salt Crust (E Aquatic Inve. Hydrogen St Oxidized Rh Presence of Recent Iron Stunted or S	oply) ed Leaves (B9) (exc d 4B) B11) ertebrates (B13) ulfide Odor (C1) izospheres on Living Reduced Iron (C4) Reduction in Tilled Stressed Plants (D1)	ept MLRA  J Roots (C3)  Soils (C6)	Secondary Ind  Water-Stain 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2, ) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A)
Type:	drology Indicators (minimater Table (A2) on (A3) larks (B1) at Deposits (B3) at or Crust (B4) cosits (B5) Soil Cracks (Bino Visible on Andrews (B5)	cators: imum of ) 2) ) Aerial Ima	one require gery (B7) face (B8)	ed; check all that ap  Water-Stain 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen So Oxidized Rh Presence of Recent Iron Stunted or S	oply) ed Leaves (B9) (exc d 4B) B11) ertebrates (B13) ulfide Odor (C1) izospheres on Living Reduced Iron (C4) Reduction in Tilled Stressed Plants (D1)	ept MLRA  J Roots (C3)  Soils (C6)	Secondary Ind  Water-Stain 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2, ) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A)
Type:	droingy Indicitators (minimum (Mater (A1)) atter Table (A2) and (A3) atter Table (B3) attor Crust (B4) attor Crust (B4) attor Crust (B4) attor Crust (B5) Soil Cracks (B6) attor Crust (B6) attor	cators: imum of  )  2)  Aerial Ima	one require gery (B7) face (B8)	ed; check all that ap  Water-Stain 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen So Oxidized Rh Presence of Recent Iron Stunted or S	oply) ed Leaves (B9) (exc d 4B) B11) ertebrates (B13) ulfide Odor (C1) izospheres on Living Reduced Iron (C4) Reduction in Tilled Stressed Plants (D1) ain in Remarks)	ept MLRA  J Roots (C3)  Soils (C6)	Secondary Ind  Water-Stain 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two rec ned Leaves (B9) (MLRA 1, 2, ) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9) c Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A)
Type:	drology Indicitators (minimulators (minimula	cators: imum of  )  Aerial Ima oncave Sui	gery (B7) face (B8)	ed; check all that ap  Water-Stain 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	pply) ed Leaves (B9) (excd 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres on Living Reduced Iron (C4) Reduction in Tilled Stressed Plants (D1) ain in Remarks)	ept MLRA  J Roots (C3)  Soils (C6)	Secondary Ind  Water-Stain 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two reduced Leaves (B9) (MLRA 1, 2, 1) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9) C Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A) E Hummocks (D7)
Type:	drology Indicitators (minimulators (minimula	cators: imum of ) 2) ) Aerial Ima	gery (B7) face (B8)  No	ed; check all that ap  Water-Stain- 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	oply) ed Leaves (B9) (excel de 4B) B11) ertebrates (B13) ulfide Odor (C1) izospheres on Living Reduced Iron (C4) Reduction in Tilled Stressed Plants (D1) ain in Remarks)	ept MLRA J Roots (C3) Soils (C6) (LRR A)	Secondary Ind  Water-Stain 4A, and 4B  Drainage P  Dry Seasor  Saturation  Geomorphi  Shallow Aq  FAC-neutra  Raised Ant	icators (minimum of two reduced Leaves (B9) (MLRA 1, 2, 1) atterns (B10) Water Table (C2) Visible on Aerial Imagery (C9) C Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)

roject/Site: Litehouse			City/County:	Bonner	Sampling Date: 16-Apr-21
pplicant/Owner: Cliff Mort					State: ID Sampling Point: DP 10
nvestigator(s): Tom Duebendorfer, F	PWS		Section, T	ownship, R	tange: S 10 T 57N R 2W
Landform (hillslope, terrace, etc.):	Flat		Local relief	(concave,	convex, none): flat Slope: 0.0 % /
ubregion (LRR): LRR E		 Lat.: 48	8°18'15.31"N		Long.: 116°33'55.98"W Datum: WGS 84
oil Map Unit Name: Odenson silt lo					NWI classification: PEM1C
climatic/hydrologic conditions on		or this time of year	2 Ye	s • No	
re Vegetation $\square$ , Soil $\square$	, or Hydrology	significantly			Normal Circumstances" present? Yes No
e Vegetation 🔲 , Soil 🔲	, or Hydrology	naturally pro	blematic?	(If ne	eded, explain any answers in Remarks.)
ummary of Findings - At	tach site ma	p showing sa	mpling p	oint loc	cations, transects, important features, e
ydrophytic Vegetation Present?	Yes   No	$\supset$			
lydric Soil Present?	Yes O No	•	15 the	e Sampled A	<sub>d2</sub> Yes ○ No ●
/etland Hydrology Present?	Yes O No	•	withi	n a Wetland	d? Tes O NO O
Remarks:					
Although hydrophytic vegetation is	s present (2 FAC p	oasture grasses), h	ydric soil an	d wetland h	hydrology not observed. Plot not in a wetland.
<b>/EGETATION -</b> Use scier	ntific names of	plants.	Dominant		
			_Species? Rel.Strat.	Indicator	Dominance Test worksheet:
ree Stratum (Plot size:		% Cover	_	Status	Number of Dominant Species
1,			0.0%		That are OBL, FACW, or FAC: 2 (A)
2			0.0%		Total Number of Dominant
3			0.0%		Species Across All Strata: 2 (B)
T					Percent of dominant Species
Sapling/Shrub Stratum (Plot size:	: )	0	= Total Cov	ег	That Are OBL, FACW, or FAC: 100.0% (A/B
1,		0	0.0%		Prevalence Index worksheet:
2		0	0.0%		Total % Cover of: Multiply by:
3			0.0%		OBL species 0 x 1 = 0
4			0.0%		FACW species $0 \times 2 = 0$
5			0.0%		FAC species $100 \times 3 = 300$
Laula Churchum (Diet eizer		0	= Total Cov	er	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size:		50	<b>✓</b> 50.0%	F4.C	UPL species $0 \times 5 = 0$
1 Agrostis stolonifera 2 Alopecurus pratensis			<b>✓</b> 50.0%	FAC FAC	Column Totals:
3.			0.0%	TAC	Prevalence Index = B/A = 3.000
4		0	0.0%		
5		0	0.0%		Hydrophytic Vegetation Indicators:
6		0	0.0%		<ul> <li>1 - Rapid Test for Hydrologic Vegetation</li> <li>2 - Dominance Test is &gt; 50%</li> </ul>
7			0.0%		✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
8.———			0.0%_		
9			0.0%		4 - Morphological Adaptations 1 (Provide supportin data in Remarks or on a separate sheet)
10.————		_	0.0%		5 - Wetland Non-Vascular Plants <sup>1</sup>
11					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:	,		= Total Cov	er	<sup>1</sup> Indicators of hydric soil and wetland hydrology musi
1		0	0.0%		be present, unless disturbed or problematic.
2			0.0%		Hydrophytic
					Vegetation Var A Na O
		0	= Total Cov	Ωr	Dunanta   YES   YO   NO   /
% Bare Ground in Herb Stratum	. O		= Total Cov	er	Present? Yes No

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil										Sampling Point	DP 10
Profile Descr	iption: (Des	cribe to the	depth nee	ded to do	cument the	indica	ator or co	onfirm the	absence of indicators.)	,	
Depth		Matrix			Redox Fe	_					
(inches)	Color (m	noist)	<u> </u>	Color (mo	ist) 9	<u></u> -	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Ren	narks
0-6	10YR	3/3 1	00%						Silt Loam		
6-14	2.5YR	5/3 7	70%	10YR	4/4 30	0%	C	M	Silt Loam		
										=	
						—					
									-		
<sup>1</sup> Type: C=Con	centration. D=	=Depletion. R	M=Reduced	l Matrix, CS	=Covered or	Coate	d Sand Gr	ains <sup>2</sup> Loca	ation: PL=Pore Lining. M		
Hydric Soil 1		(Applicable 1	to all LRRs	_		ted.)			Indicators for Prob	-	oils <sup>3</sup> :
Histosol (	•				Redox (S5) ed Matrix (S6				2 cm Muck (A10)	•	
Black Hist	oedon (A2)				/ Mucky Miner		) (except	in MLRA 1)	Red Parent Mate Other (Explain in	` '	
	Sulfide (A4)				, , Gleyed Matri	-		,	Other (Explain ii	Kemarks)	
Depleted	Below Dark S	urface (A11)			ted Matrix (F3	•					
	k Surface (A1	,			Dark Surface		:7)		<sup>3</sup> Indicators of hydroph		i
	ick Mineral (S:	-			ted Dark Surfa depressions	-	7)		wetland hydrology unless disturbed or		
	eyed Matrix (S										
Restrictive L Type:	ayer (IT pres	ent):									
Depth (inc	hes).								Hydric Soil Present?	Yes O No	o
Remarks:											
Hydric indicat	ors not obse	erved - matr	rix chroma	too hiah							
in y arre marca	.010 1100 0000	orrea man	ix cili cili c	too mgm							
Usalvalaas	_										
Hydrology											
Wetland Hyd Primary Indi			roquirod	chock all	that apply)				Cocondany Indi	cators (minimum	of two required)
	Vater (A1)	illulli oi one	required,		er-Stained Lea	(	BO) (avca	nt MIDA		•	• • • • • • • • • • • • • • • • • • • •
	er Table (A2)				, 4A, and 4B)		D9) (EXCE	pt MLKA	4A, and 4B)	ned Leaves (B9) (M )	LKA 1, 2,
Saturatio	, ,			Salt	Crust (B11)				Drainage Pa	atterns (B10)	
☐ Water Ma	• •				atic Invertebra	ates (I	B13)			Water Table (C2)	
	Deposits (B2	)		Hyd	rogen Sulfide	Odor	(C1)			Visible on Aerial Im	agery (C9)
☐ Drift dep	osits (B3)			Oxic	dized Rhizosph	neres (	on Living I	Roots (C3)	Geomorphic	Position (D2)	
Algal Mat	or Crust (B4)	)		Pres	ence of Redu	ced Ir	on (C4)		Shallow Aqu	uitard (D3)	
Iron Dep	osits (B5)			Rece	ent Iron Redu	ction i	in Tilled S	oils (C6)	☐ FAC-neutra	Test (D5)	
	Soil Cracks (B6			Stur	nted or Stress	ed Pla	ints (D1) (	LRR A)	Raised Ant	Mounds (D6) (LRR	A)
Inundatio	on Visible on A	Aerial Imagery	/ (B7)	Othe	er (Explain in	Rema	rks)		Frost Heave	Hummocks (D7)	
Sparsely	Vegetated Co	ncave Surface	e (B8)								
Field Observ	ations:										
Surface Water		Yes 🔾	No 💿	D€	epth (inches):						
Water Table P	resent?	Yes 🔾	No 💿	De	epth (inches):			1		_	
Saturation Pre		Yes O	No ●					Wetla	nd Hydrology Present?	? Yes ○ I	No 💿
(includes capil	lary fringe)	res $\smile$	NO S	De	epth (inches):						

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

No water in soil pit April 16, 2021.

Project/Site: Litehouse		City/County:	Bonner		Sampli	ng Date: 16	-Apr-21	
Applicant/Owner: Cliff Mort				State: ID	Sam	pling Point:	DP	11
•		Section, To	ownship, R	ange: <b>S</b> 10	<b>T</b> 57N	<b>R</b> 2W		
Landform (hillslope, terrace, etc.): Flat		Local relief	(concave,	convex, none): fla	t	Slope:	0.0 % /	0.0
Subregion (LRR): LRR E	Lat.: 48	8°18'17.25"N		Long.: 116°33'	17.21"W	Dati	um: WGS	3 84
oil Map Unit Name: Odenson silt loam					classification			
e climatic/hydrologic conditions on the site typi	for this time of year	r? Ye	s • No		ain in Remar			
Are Vegetation  , Soil , or Hydrold				lormal Circumstan			No C	)
					-			
Are Vegetation $\;\sqcup\;\;$ , Soil $\;\sqcup\;\;$ , or Hydrok Summary of Findings - Attach site			•	eded, explain any cations, trans		-	atures	s. etc.
				<u> </u>				<del>,, e.c</del>
Hydric Soil Present? Yes	$\bullet$	Is the	Sampled A					
	•	withir	n a Wetland	<sub>d?</sub> Yes O No	•			
Remarks:								
Although hydrophytic vegetation is present (2	pasture grasses), h	nydric soil and	d wetland h	nydrology not obse	erved. Plot n	ot in a wetla	nd.	
<b>VEGETATION -</b> Use scientific name	of plants.	Dominant						
Tree Stratum (Plot size:)	Absolute % Cover		Indicator Status	Dominance Test	worksheet:			
1,	0	0.0%	-	Number of Domin That are OBL, FAC		2	2	(A)
2.		0.0%			·			( )
3,	0	0.0%		Total Number of I Species Across All		2	2	(B)
4	0	0.0%		Species / tel 033 / til	Stratar			(-)
Sapling/Shrub Stratum (Plot size:		= Total Cov	er	Percent of domi That Are OBL, F			.0%	(A/B)
1,		0.0%		Prevalence Inde	x worksheet:	1		
2		0.0%		Total % C	over of:	Multiply by	:	
3		0.0%		OBL species	0	x 1 =	0	
4		0.0%		FACW species	0	x 2 = _	0	
5		0.0%		FAC species	100	x 3 = _	300	
Hards Charterns (Diet size)	0	= Total Cov	er	FACU species	0	x 4 = _	0	
Herb Stratum (Plot size:)	50	<b>✓</b> 50.0%	E4.C	UPL species	0	x 5 = _	0	
1 Agrostis stolonifera 2 Alopecurus pratensis		<b>✓</b> 50.0%	FAC FAC	Column Totals:	100	(A) _	300	(B)
3		0.0%	TAC	Prevalence	Index = B/A	= 3.0	000	
<i>Δ</i>		0.0%			•			
5	0	0.0%		Hydrophytic Veg				
6		0.0%		1 - Rapid Tes	-	-	ion	
7		0.0%_		2 - Dominan				
8.				3 - Prevalence				
9		0.0%		4 - Morpholo	gical Adaptat emarks or on			orting
10.———		0.0%		5 - Wetland		-	,	
11.				Problematic			(Eynlain)	١.
Woody Vine Stratum (Plot size:	100	= Total Cov	er	1 Indicators of h	ydric soil and	d wetland hy	drology i	
1		0.0%		be present, unle	ess disturbed	or problema	atic.	
2		0.0%		Hydrophytic				
	0	= Total Cov	er	Vegetation Present?	Yes   N	o O		

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: DP 11 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth % (inches) Color (moist) % Color (moist) Loc2 **Texture** Remarks 10YR 100% Silt Loam 0-6 3/3 2.5YR 6-14 5/3 70% 10YR 4/4 30% С М Silt Loam <sup>1</sup>Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains <sup>2</sup>Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) 2 cm Muck (A10) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except in MLRA 1) Other (Explain in Remarks) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) ☐ Thick Dark Surface (A12) Redox Dark Surface (F6) <sup>3</sup>Indicators of hydrophytic vegetation and Depleted Dark Surface (F7) Sandy Muck Mineral (S1) wetland hydrology must be present, unless disturbed or problematic. Redox depressions (F8) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: No 💿 **Hydric Soil Present?** Yes C Depth (inches): Remarks: Hydric indicators not observed - matrix chroma too high **Hydrology Wetland Hydrology Indicators:** Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Aquatic Invertebrates (B13) Dry Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) ☐ Drift deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Frost Heave Hummocks (D7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Yes O No 💿 Depth (inches): Surface Water Present?

No water in soil pit April 16, 2021.

Water Table Present?

(includes capillary fringe)

Saturation Present?

Remarks:

Yes 🔾

Yes O

No 💿

No 💿

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

Depth (inches):

Depth (inches):

Yes 🔾

Wetland Hydrology Present?

No 💿

### Tom Duebendorfer - Professional Wetland Scientist (#000157), Biologist, Botanist

#### **OBJECTIVE**

Provide botanical and ecological services to a wide range of organizations and individuals for projects involving land development, wetland delineation, vegetation mapping, rare plant surveys, resource inventories, Environmental Assessments, Biological Evaluations and Assessments, and research-level studies on specific habitats or species.

#### **EDUCATION**

WSPSS, SWS Hydric Soils Workshop, Soils and Hydrology, June 2009
Wetland Training Institute, Soils and Hydrology, August 1990
Humboldt State University, Arcata, California
M.A. Biology May 1987
California State Teaching Credential May 1987
B.A. Biology June 1977
University of California, Irvine (2 years - biology major)

#### **EMPLOYMENT**

#### • Self-employed wetland and botanical consultant (1981 to present)

Provided botanical and wildlife surveys, floristic research, habitat characterization, ecological sampling, synecological analysis, aerial photo mapping, wetland delineation, impact analysis, restoration and mitigation, resource planning, permitting, rare and endangered plant surveys, plant taxonomy, soil analysis, computer-aided multivariate analyses and statistics, computer-aided graphics and drafting. Involved with design (as part author/editor) of Washington Dept of Ecology Hydrogeomorphic approach to wetland function assessment program (Assessment Team). Trained in E WA DOE Assessment Methodology (assisted in development of the methodology). Wetland Mitigation Bank preparation. Teaches wetland delineation and plant identification courses to Tribes, agencies, and groups.

Project locations include rare plant surveys/studies and wetland work in southern, central, northern and coastal California; coastal, southwestern, and northeastern Oregon; north, east-central, and southwest Idaho; eastern and western Washington; and northwest Montana.

# • Senior Wetland Ecologist, Client/Project Manager, Corporate Botanist (1989-1994)

David Evans and Associates, Inc. Bellevue, Washington

Provided wetland delineation, impact assessment, conceptual and final mitigation design, monitoring, cumulative impact assessment, wetland permitting, habitat characterization, rare plant and T&E animal surveys, Biological Evaluations and Assessments, as well as instruction and guidance in systematics and classification to staff in 7 west coast offices. Maintained excellent rapport with clients and other project team members (both in office and as field crew leader). Managed projects from proposals, contracting, budgeting, scheduling and invoicing, to collections.

Project locations include: Pacific Northwest, from central and coastal Oregon to eastern, western, and coastal Washington, and northwest Montana.

#### CERTIFICATIONS

Professional Wetland Scientist, Society of Wetland Scientists (#000157)

Certified Wetland Delineator, Corps of Engineers (Seattle District)

Qualified Wetland Specialist, Spokane County, Washington

Qualified Wetland Specialist, City of Spokane, Washington

Completed Training in NEPA/EPA Process

Completed Soils and Hydrology workshops (WTI); Hydric Soils (WSSPSS - Updates 2009)

#### Tom Duebendorfer - Professional Wetland Scientist (#000157), Biologist, Botanist

#### SPECIFIC EXPERIENCE

Habitats include: dune coastline, coastal and inland forested, scrub, and marsh wetlands, oak woodlands, steppe scrubland, grasslands, sagebrush, agricultural areas (wetlands), coniferous and deciduous montane, alpine, bog (fen), and serpentine vegetation.

Permitting knowledge and direct use of wetland methodologies (USFWS, US Army Corps of Engineers, WA Dept of Ecology, and local county and city jurisdictions); knowledge of Corps Permit process. Restoration activities. Biological Assessments (BA), USFS Evaluations (BE), Environmental Assessments (EA); SEPA/NEPA; T&E species monitoring, Raptor Monitoring, Wetland Mitigation Bank Design.

Rare plant studies include approximately 45 sensitive plant and vegetation surveys on private, state, and federal lands for small to medium scale hydroelectric plants, stream corridors, sewage treatment facilities, water treatment facilities, prison site, seeding experiments, road and highway construction, transmission corridors (utilities), fiber optic cable routes, and mining companies. Biological Evaluations for USFS-listed sensitive species in four states.

<u>Clients</u> (independently and during tenure as employee) include:

Small- and Large-scale Developers:

Burlington-Northern, Puget Western, Glacier Park Company, Trillium Corporation, Quadrant, Blackhawk/Port Blakely Communities, Coldwater Creek, Valencia Wetlands Trust, Waterfront Property Mgmt., Kirk-Hughes Development, Fortress LLC, & others

#### Public Entities:

Washington Department of Ecology, Benewah County (through EDA), Federal Highways Administration, Bureau of Reclamation, King Co., US Army Corps of Engineers, Spokane County Engineering and Public Works, Oregon Nature Conservancy, Humboldt County Planning, Humboldt State University Research Program; Benewah County; Idaho Soil and Conservation District, City of Winchester, Idaho Transportation Department, Washington Department of Transportation, Kalispell Indian Tribe, City of Colville, Rathdrum

Communications (fiber optic projects):

AT&T, MCI/WorldCom, Cascade Utilities

Exploratory and Active Mining Companies:

Emerald Creek Garnet Company, American Gold Resources, Cal Nickel Corp., Baretta, Noranda

Assisting other Consulting Firms and Numerous Private Landowners.

The Soils Group, Intermountain Resources, Inc., Hart-Crowser, Inc., Welch-Comer Eng., Land Profile, Inc., Selkirk Environmental, David Evans and Associates, J.A. Sewell and Assoc., EarthTech, ALSC Architects; Ecological Resources, Forsgren Assoc., JUB Eng., Adolfson Assoc. Copper Basin Constr., Toothman-Orton Eng., Rocky Point Investments, HAWKEFA, Tate Engineering.

# **PUBLICATIONS**

- Duebendorfer, T.E. 1990. "An Integrated Approach to Enhancing Rare Plant Populations through Habitat Restoration: II. Habitat Characterization through Classification of Dune Vegetation." Pp. 478-487 in: Bonnicksen, T.M. and H.G. Hughes, eds. Proceedings of the first annual meeting of the Society for Ecological Restoration and Management. Also presented at Society of Wetland Scientists, May 1993.
- Pickart, A.J., L.M. Miller, and T.E. Duebendorfer. 1998. "Yellow bush lupine invasion in northern California coastal dunes. I. Ecological impacts and manual restoration techniques". Restoration Ecology Vol 6 No 1, pp59-68.
- Seattle Audubon Series, "Wetland Plants of the Western Washington and NW Oregon" (Cooke 1997, editor): My role was as a contributor and technical editor.
- Hruby, T., S. Stanley, T. Granger, T. Duebendorfer, R. Friesz, B. Lang, B. Leonard, K. March, and A. Wald. 2000. Methods for Assessing Wetlands Functions. Volume II, Part 1: Assessment Methods Depressional Wetlands in the Columbia Basin of Eastern Washington, WA State Department of Ecology Publication #00-06-47.