WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	rough Sampling Date:02-Aug-13		
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T149_08		
Investig	gator(s): SLI, EAC		Landform (hill	side, terrac	e, hummocks etc.): Floodplain		
-	elief (concave, convex, none): flat		Slope:	%/ 10.7	•		
	ion : Interior Alaska Mountains	L at :	· ·				
-		Lal	63.384058309	90			
	p Unit Name:				NWI classification: PSS1C		
Are V Are V	egetation, Soil, or Hydrologyr	significant naturally p wing sar	ly disturbed? roblematic?	(If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes 🖲 No)		41	ulad Ana		
	Hydric Soil Present? Yes ● No C)			1pled Area /etland? Yes		
	Wetland Hydrology Present? Yes No C)	wi	ithin a W	etland? Yes Vio C		
	TATION -Use scientific names of plants. Li						
		Absolute	Dominant	Indicator	Dominance Test worksheet:		
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)		
1.		0			Total Number of Dominant		
2.		0	_		Species Across All Strata: <u>2</u> (B)		
3.		0			Percent of dominant Species		
4.		0	_		That Are OBL, FACW, or FAC: (A/B)		
5.		0	. 🗆		Prevalence Index worksheet:		
	Total Cover:	0			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species x 1 =90.2		
1.	Myrica gale	90	\checkmark	OBL	FACW Species <u>5.1</u> x 2 = <u>10.2</u>		
	Dasiphora fruticosa	0.1		FAC	FAC Species x 3 =28.9		
	Salix pseudomonticola	50		FAC	FACU Species <u>0.1</u> x 4 = <u>0.400</u>		
4.	Salix alaxensis	5		FAC	UPL Species x 5 =		
5.	Salix arbusculoides	5		FACW	Column Totals: <u>171.7</u> (A) <u>329.7</u> (B)		
6.	Salix barclayi	20		FAC			
7.		0			Prevalence Index = B/A = <u>1.920</u>		
8.		0			Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
		0			✓ Prevalence Index is \leq 3.0		
	Total Cover: b Stratum 50% of Total Cover: _ {			: 34.02	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Carex aquatilis	0.1		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Equisetum arvense	1		FAC	¹ Indicators of hydric soil and wetland hydrology must		
3.	Parnassia palustris	0.1		FACW	be present, unless disturbed or problematic.		
4.	Carex Ioliacea	0.1		OBL	Plot size (radius, or length x width) 10m		
5.	Phleum alpinum	0.1		FACU	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes		
6.	Agrostis scabra	0.1		FAC	(Where applicable)		
7.	Trisetum spicatum	0.1		FAC	% Bare Ground		
8.		0			Total Cover of Bryophytes		
9.		0					
10.		0			Hydrophytic		
	Total Cover:	1.6			Vegetation		
	50% of Total Cover:	<u>0.8</u> 20%	6 of Total Cover:	0.32	Present? Yes No		
Rema	arks: no dominant herbs as total herb cover <5%.						

Depth		the depth ne Matrix	eeded to docu	iment the ind		firm the ab ox Featu	sence of indic I res	ators)		
(inches)	Color (moist)		%	Color (m	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-2	10YR	4/1	100						Loam	rooted
2-13	5PB	4/1	70	2.5YR	4/6	30	C	PL	Very Fine Sandy Loam	
13-18	10B	4/1	80	2.5YR	4/6	20	С	PL	Very Fine Sandy Loam	
	·		,						-	
	· ·		,						-	
¹ Type: C=Cor	ncentration. D:	=Depletion	. RM=Redu	ced Matrix	² Location	: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil II	ndicators:			Indicate	ors for Pro	oblematio	c Hydric So	oils ³		
_	r Histel (A1)				a Color Ch		4	_	Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	Alaska Alpine swales (TA5)					Underlying Layer				
	Sulfide (A4)			Alask	Alaska Redox With 2.5Y Hue Other (Explain in Remarks)					
Thick Dark	k Surface (A12)		30						
Alaska Gle	eyed (A13)			^a One ir and an	dicator of appropriate	hydrophyt e landscap	tic vegetation i	n, one prir nust be pre	nary indicator of wetland I esent	hydrology,
✓ Alaska Rec	. ,						e in Remark			
Alaska Gle	eyed Pores (A1	5)		Give u				5		
Restrictive Laye	er (if present):									0 0
Type:									Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inch	nes):									
sand lenses thre	oughout profil	e, 0.5in thi	ck and 2-7i	n long						
HYDROLO	GY									
Wetland Hydi	rology Indica	ators:								
Primary Indica	ators (any one	is sufficient	t)						Secondary Ind	cators (two or more are required)
										cators (two or more are required) ined Leaves (B9)
Surface W	High Water Table (A2)						erial Image	ry (B7)	Water Sta	
							5	, , ,	Water Sta	ined Leaves (B9)
High Wate	er Table (A2) n (A3)			Sp Ma	arsely Vege rl Deposits	etated Cor (B15)	ncave Surfac	, , ,	Water Sta Urainage I Oxidized F Presence o	ined Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
High Wate	er Table (A2) n (A3) ırks (B1)			Sp Ma Hy	arsely Vege rl Deposits drogen Sul	etated Cor (B15) fide Odor	ncave Surfac	, , ,	Water Sta	ned Leaves (B9) Patterns (B10) thizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
High Wate	er Table (A2) n (A3) ırks (B1) Deposits (B2)			Sp. Ma Hy Dr	arsely Vege rl Deposits drogen Sul v-Season W	etated Cor (B15) fide Odor /ater Tabl	(C1) e (C2)	, , ,	Water Sta	ned Leaves (B9) Patterns (B10) thizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) • Stressed Plants (D1)
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High Wate	er Table (A2) n (A3) Irks (B1) Deposits (B2) osits (B3) or Crust (B4)			Sp. Ma Hy Dr	arsely Vege rl Deposits drogen Sul v-Season W	etated Cor (B15) fide Odor /ater Tabl	(C1) e (C2)	, , ,	Water Sta	ined Leaves (B9) Patterns (B10) chizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) ic Position (D2) quitard (D3)
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High Wate Saturation Water Mai Sediment Drift Depo Algal Mat	er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4) psits (B5) oil Cracks (B6)			Sp. Ma Hy Dr	arsely Vege rl Deposits drogen Sul v-Season W	etated Cor (B15) fide Odor /ater Tabl	(C1) e (C2)	, , ,	Water Sta	ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) • Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4)
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Nenana River floodplain