WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		rough/City:		a-Susitna Borough Sampling Date	e: 28-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point:	SW15_T332_02
Investigator(s): SLI, SCB	L	andform (hill	side, terrac	e, hummocks etc.): Footslope	
Local relief (concave, convex, none): hummocky		Slope: 0.0	%/ 0.0	* Elevation:	
Subregion : Interior Alaska Mountains	Lat.:			Long.:	Datum: WGS84
Soil Map Unit Name:				NWI classification: PSS	1B
Are climatic/hydrologic conditions on the site typical for this	time of vear?	Yes	• No ()	(If no, explain in Remarks.)	
Are Vegetation , Soil , or Hydrology	significantly				es 🔍 No 🔾
Are Vegetation , Soil , or Hydrology	naturally pro			ded, explain any answers in Remarks	
SUMMARY OF FINDINGS - Attach site map sho			,		,
Hydrophytic Vegetation Present? Yes No					, 0.0.
Hydric Soil Present? Yes • No		ls	the Sam	pled Area	
Wetland Hydrology Present? Yes No (~	wi	thin a W	etland? Yes 🖲 No 🔾	
Remarks: standing water in troughs between hummocks.	<u> </u>				
VEGETATION - Use scientific names of plants. I	List all spec	ies in the	plot.		
Troo Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
Tree Stratum1.	-% Cover		Status	That are OBL, FACW, or FAC:	4 (A)
2.				Total Number of Dominant Species Across All Strata:	4 (B)
3. 4.				Percent of dominant Species That Are OBL, FACW, or FAC:	(A/B)
5				Prevalence Index worksheet:	
Total Cove		(=		Total % Cover of: Multip	ly by:
Sapling/Shrub Stratum 50% of Total Cover:	<u> 0 </u>	of Total Cover:	0	OBL Species <u>5</u> x 1	
1. Betula glandulosa	30		FAC	FACW Species 21 x 2	
2. Salix pulchra	20		FACW	FAC Species 71 x 3	
3. Empetrum nigrum	10		FAC	FACU Species 0.1 x 4	000
4. Vaccinium uliginosum			FAC	UPL Species0 x 5	= <u>0</u>
5. Vaccinium vitis-idaea	5		FAC	Column Totals: <u>97.1</u> (A)	<u>260.4</u> (B)
6	0			Prevalence Index = B/A =	2.682
7					
8				Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%	
9	0			✓ Prevalence Index is ≤ 3.0	
Total Cove				Morphological Adaptations (Provid	de auspartine data in
Herb Stratum 50% of Total Cover:		of Total Cover	: 15	Remarks or on a separate sheet)	de supporting data in
1. Calamagrostis canadensis	15	\checkmark	FAC	Problematic Hydrophytic Vegetation	n (Explain)
2. Carex aquatilis	5	\checkmark	OBL	¹ Indicators of hydric soil and wetland hy	drology must
3. Polemonium acutiflorum	1		FAC	be present, unless disturbed or problem	atic.
4. Rubus chamaemorus	1		FACW	Plot size (radius, or length x width)	10m
5. Lycopodium clavatum	0.1		FACU	% Cover of Wetland Bryophytes	<u>10m</u>
6				(Where applicable)	
7				% Bare Ground	10
8				Total Cover of Bryophytes	30
9					
10	0			Hydrophytic	

Remarks: low open birch will with calcan on hummocks, wetland graminoids in lower areas between hummocks. cover estimates approximate due to snow cover

Total Cover: 22.1

50% of Total Cover: ______ 20% of Total Cover: ______4.42

Hydrophytic Vegetation

Present?

Yes 💿 No 🔾

SOIL

Depth	M	atrix		Red	lox Featu	res			
(inches)	Color (mois	t)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9								Mucky Peat	
9-16								Muck	
									_
									-
									-
						-		-	-
¹ Type: C=Co	ncentration. D=D	epletion. R	M=Reduce	ed Matrix ² Location	: PL=Pore	e Lining. RC	C=Root Cha	nnel. M=Matrix	
Hydric Soil I	ndicators:			Indicators for Pro	oblematio	: Hydric So	oils: ³		
 Histosol o 	r Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	lue 5Y or Redder
	bedon (A2)			Alaska Alpine sv		-		Underlying Layer	
✓ Hydrogen				Alaska Redox W	•	,		Other (Explain in Remar	ks)
	k Surface (A12)								
Alaska Gle	. ,			³ One indicator of	hydrophyt	ic vegetatio	on, one prin	nary indicator of wetland I	nydrology,
Alaska Ok				and an appropriat	e landscap	e position r	must be pre	esent	
	eyed Pores (A15)			⁴ Give details of co	olor change	e in Remark	ks		
	er (if present):								
								Hydric Soil Present	:? Yes 🖲 No 🔾
Type: sea	sonal frost							Hydric Soli Present	r tes \odot no \bigcirc
Donth (inc	(16)								
Depth (inc Remarks:	hes): 16								
	hes): 16								
Remarks:		Drs:						_Secondary Ind	icators (two or more are required)
Remarks: HYDROLO Wetland Hyd	GY								icators (two or more are required) ined Leaves (B9)
Remarks: HYDROLO Wetland Hyd Primary Indica Surface V	GY rology Indicato ators (any one is Vater (A1)			Inundation Vi	isible on A	erial Image	гу (В7)	Water Sta	ined Leaves (B9) Patterns (B10)
Remarks: HYDROLO Wetland Hyd Primary Indica Surface V W High Wat	GY rology Indicato tors (any one is Vater (A1) er Table (A2)			Inundation Vi Sparsely Vege				Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
Remarks: HYDROLO Wetland Hyd Primary Indica Surface V	GY rology Indicato tors (any one is Vater (A1) er Table (A2)			Sparsely Vege	etated Con 5 (B15)	icave Surfa		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
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