WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	prough Sampling Date: 08-Aug-13			
Applica	ant/Owner: Alaska Energy Authority		Sampling Point: SW13_T169_08					
Investi	gator(s): BAB	side, terrac	ide, terrace, hummocks etc.): Gulch or Gully					
Local r	elief (concave, convex, none): undulating	Slope: 14.0		° Elevation: 701				
Subrec	ion : Interior Alaska Mountains	Lat: 6	 33.418542472		Long.: -148.629090646 Datum: WGS84			
	p Unit Name:		00.410042472					
			. V	No ○	NWI classification: PSS1B			
Are V		significantly naturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No eded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No C)	_					
	Hydric Soil Present? Yes ● No ○)	Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes ● No ○)						
Rem	arks: small active channels running through drainage fluvaquent soils	completely	overhung by	vegetation	1			
VEGE	ETATION - Use scientific names of plants. Li	st all spe	cies in the	plot.				
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tre	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)			
1.	Picea glauca	10	✓	FACU	Total Number of Dominant			
2.		0			Species Across All Strata: 4 (B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 75.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover:			Total % Cover of: Multiply by:				
Sap	ling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover:		OBL Species <u>3</u> x 1 = <u>3</u>			
1.	Picea glauca	5		FACU	FACW Species <u>11.1</u> x 2 = <u>22.20</u>			
2.	Salix alaxensis	15	✓	FAC	FAC Species <u>89</u> x 3 = <u>267</u>			
3.	Salix barclayi	10		FAC	FACU Species <u>15</u> x 4 = <u>60</u>			
4.	Salix pulchra	10		FACW	UPL Species 2 x 5 = 10			
5.	Salix reticulata	30	✓	FAC	Column Totals: <u>120.1</u> (A) <u>362.2</u> (B)			
6.	Vaccinium uliginosum	5		FAC				
7.	Empetrum nigrum	1		FAC	Prevalence Index = B/A = 3.016			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
Her	Total Cover: b Stratum 50% of Total Cover:		of Total Cover	:15.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
	Equisetum arvense	25	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Carex rotundata	3		OBL	Indicators of hydric soil and wetland hydrology must			
3.	Polemonium pulcherrimum			UPL	be present, unless disturbed or problematic.			
4.	Swertia perennis	0.1		FACW	Plot size (radius, or length x width)			
5.	Parnassia palustris Anemone richardsonii	3		FACW FAC	% Cover of Wetland Bryophytes			
6.				1 AC	(Where applicable)			
					% Bare Ground			
					Total Cover of Bryophytes			
					Hadan bada			
10.	Total Cover:		Hydrophytic Vegetation					
	50% of Total Cover: 1		of Total Cover	6.82	Present? Yes No			

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T169_08

Drafila Doccrint	: /Describe to	the death no	- dad to docum		firm the al	of indic	-+	· · -	10 51113_1103_00		
		the depth ne Matrix	eded to docum	nent the indicator or co	onfirm the at dox Featu		ators)				
Depth (inches)						Type ¹	_Loc_2	Texture	Remarks		
0-3	Color (mo	ist)	<u> </u>	Color (moist)		Туре	LOC	Fibric Organics	Kemarks		
	10)/D	2/1	100					Sandy Loam			
3-13	10YR								wood and coarse sand layers at 10 and 13		
13-24	10YR	2/1	100					Silty Clay Loam	with sandy layers		
¹ Type: C=Cor	ncentration. D=		RM=Reduce	ed Matrix ² Locatio	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
				Indicators for P							
Hydric Soil I				Alaska Color C		4)iis: 	Alaska Clayed Without H	us EV as Raddes		
	r Histel (A1)			Alaska Alpine s		-		☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
✓ Hydrogen	edon (A2)			Alaska Redox				Other (Explain in Remarks)			
l — · · ·	Surface (A4)	١		/ Haska Readx	Widi 2.51	iac			,		
Alaska Gle	` '	,						nary indicator of wetland h	ydrology,		
Alaska Red				and an appropria	te landsca	pe position r	nust be pre	esent			
l —	eyed Pores (A1	5)		⁴ Give details of o	olor chang	e in Remark	S				
Restrictive Laye	er (if present):										
Type:	o. (p. 656.1.c).							Hydric Soil Present	? Yes ● No ○		
Depth (inch	nes):							,une som i reseme			
Remarks:											
Remarks.											
HYDROLO											
Wetland Hyd									cators (two or more are required)		
	itors (any one i	is sumicient	.)		<i>r</i>		(0.7)	Water Stained Leaves (B9) (B7) Drainage Patterns (B10)			
	Vater (A1)			☐ Inundation \		_					
✓ High Water Table (A2)✓ Saturation (A3)				☐ Sparsely Vegetated Concave Surface (B8) ☐ Marl Deposits (B15)					hizospheres along Living Roots (C3) of Reduced Iron (C4)		
	` ,							Salt Depos	` ,		
									Stressed Plants (D1)		
Drift Depo	. ,			Dry-Season					ic Position (D2)		
	or Crust (B4)			☐ Other (Expla	in in kema	irks)			juitard (D3)		
Iron Depo									graphic Relief (D4)		
`	oil Cracks (B6)								Il Test (D5)		
Field Observa											
Surface Water	r Present?	Yes C	No 💿	Depth (inche	es):						
Water Table F	Present?	Yes 💿	No O	Depth (inche	, ac): 5		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre					•		1100.00				
(includes capi		Yes •	No O	Depth (inche	es): 1						
Describe Recor	ded Data (stre	am gauge,	monitor wel	l, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											

U.S. Army Corps of Engineers Alaska Version 2.0