WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Вс	orough/City:	Denali Bo	prough Sampling Date: 06-Aug-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T148_05			
	gator(s): SLI, EAC	side, terrac	ce, hummocks etc.): Footslope					
	relief (concave, convex, none): hummocky		Slope: 0.0		· · · · · · · · · · · · · · · · · · ·			
	gion : Interior Alaska Mountains	Lat · 6	3.387377262		Long.: -148.589702487 Datum: WGS84			
	p Unit Name:		13.307377202					
	-			No ○	NWI classification: PSS1B			
Are V	regetation . , Soil . , or Hydrology . I	significantly naturally pro wing sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No C		le	the Sam	inled Δrea			
	Hydric Soil Present? Yes No C		Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes No)	WI	uiiii a vv	etiality 165 a 110 a			
	earks: may have burned in past? few small saplings/tr							
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)			
1.					Total Number of Dominant			
2.					Species Across All Strata: 4 (B)			
3.					Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.	Total Cover	0 0			Prevalence Index worksheet:			
_	Total Covers	of Total Cover	•	Total % Cover of: Multiply by:				
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20% (of Total Cover:	0	OBL Species 7 x 1 = 7			
1.	Empetrum nigrum	25	✓	FAC	FACW Species 10.1 x 2 = 20.20			
2.	Betula nana	15	✓	FAC	FAC Species 67 x 3 = 201			
3.	Vaccinium vitis-idaea	10		FAC	FACU Species <u>0.1</u> x 4 = <u>0.400</u>			
4.	Vaccinium uliginosum	7		FAC	UPL Species <u>0</u> x 5 = <u>0</u>			
5.	Ledum decumbens	0.1		FACW	Column Totals: <u>84.2</u> (A) <u>228.6</u> (B)			
6.		0			Prevalence Index = B/A = 2.715			
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					✓ Dominance Test is > 50%			
10.					Prevalence Index is ≤3.0			
<u>Her</u>	Total Cover: b Stratum 50% of Total Cover:		20% of Total Cover:		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex bigelowii		✓	FAC	Problematic Hydrophytic Vegetation (Explain)			
2.	Eriophorum vaginatum			FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3.	Rubus chamaemorus	3		FACW	be present, unless disturbed of problematic.			
4.	Carex rotundata			OBL	Plot size (radius, or length x width)			
5.	Carex aquatilis Eriophorum angustifolium			OBL OBL	% Cover of Wetland Bryophytes			
6.	A . (b (b	0.1		FACU	(Where applicable)			
7. 8.				FACW	% Bare Ground 10			
9.				173044	Total Cover of Bryophytes			
9.		0			Hydronbydia			
10			Hydrophytic Vegetation					
10.	Total Cover:	27.2			Present? Yes No			

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SOIL Sampling Point: SW13_T148_05

JOIL								Samping	Point: 3W13_1146_03		
Profile Descripti	•	•	eeded to docu	ment the indicator or cor			ators)				
Depth (inches)	Matrix				lox Features	_Loc_2	Texture	Remarks			
0-8	Color (mo 2.5YR	2.5/2	<u>%</u> 100	Color (moist)	_%_	Type ¹	Loc	Sapric Organics	possible charcoal at 5in bgs.		
			100					Silty Clay Loam	possible charcoal at 5111 bgs.		
8-13	7.5YR	3/2									
13-17	7.5YR	2.5/2	100					Clay Loam			
17-18								Fine Sandy Loam			
						-					
¹Type: C=Cor	ncentration. D=	=Depletion	. RM=Reduc	ced Matrix ² Location	: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pro	oblemati	c Hydric Sc	oils: ³				
	Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder		
✓ Histic Epip	. ,			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	/ith 2.5Y I	lue		Other (Explain in Remark	(S)		
	Surface (A12))		3 One indicator of	b. dranb. d	ia vaaatatia		ann, indicator of watland b	nudvala au		
Alaska Gle	yed (A13)			and an appropriat				nary indicator of wetland hesent	iyarology,		
Alaska Red	. ,			4 Give details of co	lor chang	e in Remark	c				
☐ Alaska Gle	yed Pores (A1	5)		GIVE details of ec	nor criarig	e iii Kemark					
Restrictive Laye	er (if present):										
	ve layer (frozer	٦)						Hydric Soil Present	? Yes • No O		
Depth (inch	nes): 20										
Remarks:											
HYDROLO											
Wetland Hydi								Secondary Indicators (two or more are required) Water Stained Leaves (B9)			
Primary Indicate Surface W		s sumcien	τ)	Tana dation M	-:l-l A	:-I T	(DZ)		` '		
	` ,			Inundation Vi		_					
	☐ High Water Table (A2) ☐ Sparsely Vegetated Concave Surface (B8) ☐ Marl Deposits (B15)							Presence of Reduced Iron (C4)			
Water Mai	` ,			Hydrogen Sul	,	(C1)		☐ Salt Deposits (C5)			
	Deposits (B2)			✓ Dry-Season V					Stressed Plants (D1)		
	□ Drift Deposits (B3) □ Other (Explain in Remarks)							Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)			_ 、,		,		✓ Shallow Ac	quitard (D3)		
☐ Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)		
Surface So	oil Cracks (B6)							✓ FAC-neutra	al Test (D5)		
Field Observa	ations:										
Surface Water	Present?		No 💿	Depth (inche	s):						
Water Table P	resent?	Yes 🤄	No 🔾	Depth (inche	s): 18		Wetlar	nd Hydrology Presen	it? Yes 💿 No 🔾		
Saturation Pre (includes capil		Yes 🧿	No O	Depth (inche	s): 10						
		am gauge,	monitor we	ell, aerial photos, prev	ious inspe	ection) if ava	ilable:				
Remarks:											

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