## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	Susitna-Watana Hydroelectric Project	B	orough/City:	Denali Bo	rough Sampling Date: 01-Aug-13						
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T145_10						
Investig	jator(s): SLI, EAC	l	Landform (hill	side, terrac	e, hummocks etc.): Hillside						
Local re	elief (concave, convex, none): flat		Slope:	%/ 5.8	B ° Elevation: 732						
Subrea	ion : Interior Alaska Mountains	lat: (	53.396403512		Long.: -148.655208741 Datum: NAD83						
-		Lat (	55.590405512	21							
	p Unit Name:				NWI classification: Upland						
Are V Are V		significantly naturally pro	v disturbed? oblematic?	(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  Is the Sampled Area											
	Hydric Soil Present? Yes 🔿 No 🖲	)									
	Wetland Hydrology Present? Yes 〇 No 🖲	ithin a W	vetland? Tes C No C								
	rks: aspen stand on southern aspect steep bluff. TATION - Use scientific names of plants. Lis	st all spe	cies in the	plot.							
		Absolute	Dominant	Indicator	Dominance Test worksheet:						
Tree	Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)						
1.	Populus tremuloides	30	$\checkmark$	FACU	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:	30			Total % Cover of: Multiply by:						
Sap	ing/Shrub Stratum 50% of Total Cover:	15 20%	of Total Cover:	6	OBL Species x 1 =						
1.	Vaccinium uliginosum	50	$\checkmark$	FAC	FACW Species 0 x 2 = 0						
	Betula glandulosa	1		FAC	FAC Species 51.3 x 3 = 153.9						
	Populus tremuloides	1		FACU	FACU Species <u>31</u> x 4 = <u>124</u>						
4.	Vaccinium vitis-idaea	0.1		FAC	UPL Species x 5 =						
5.	Empetrum nigrum	0.1		FAC	Column Totals: <u>82.3</u> (A) <u>277.9</u> (B)						
6.		0									
7.		0			Prevalence Index = B/A = <u>3.377</u>						
8.		0			Hydrophytic Vegetation Indicators:						
9.		0			Dominance Test is > 50%						
		0			Prevalence Index is ≤3.0						
Herl	Total Cover:		of Total Cover	: 10.44	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)						
1.	Festuca altaica	0.1		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)						
2.		0			<sup>1</sup> Indicators of hydric soil and wetland hydrology must						
		0			be present, unless disturbed or problematic.						
					Plot size (radius, or length x width) _ <u>5m</u>						
		0			% Cover of Wetland Bryophytes						
		0			(Where applicable)						
					% Bare Ground						
					Total Cover of Bryophytes						
9.											
10.		0			Hydrophytic						
	Total Cover:		of Total Carr	0.00	Vegetation Present? Yes O No O						
	50% of Total Cover:	<u>1.05</u> 20%	or rotal Cover:	0.02							
Rem	arks: no dominant herbs as total herb cover <5%.				<u> </u>						

		the depth ne Matrix	eded to doc	ument the indicator or cor <b>Rec</b>	nfirm the ab		ators)				
Depth — (inches)	Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks		
0-3	-							rooted organics			
3-10	10YR	3/4	100					Loam	w 80% angular cg-cobbles, ash.		
					·						
	,-				-		-	-			
<sup>1</sup> Type: C=Concer	ntration. D=	Depletion	. RM=Redu	ced Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Indi	cators:			Indicators for Pr	oblemati	c Hydric So	oils: <sup>3</sup>				
Histosol or His				Alaska Color Ch		4		] Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipedon (A2)			Alaska Alpine swales (TA5)				Underlying Layer				
Hydrogen Sult	. ,			Alaska Redox V	Vith 2.5Y H	lue		Other (Explain in Remark	rs)		
	. ,	)									
<ul> <li>Thick Dark Surface (A12)</li> <li>Alaska Gleyed (A13)</li> <li><sup>3</sup> One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present</li> </ul>											
Alaska Redox				and an appropriat	e landscap	be position r	nust be pre	esent			
Alaska Gleyed Pores (A15) 4 Give details of color change in Remarks											
Restrictive Layer (i	f present):										
Type:						Hydric Soil Present	? Yes 🔿 No 🖲				
Depth (inches)	:							frydrie Son Present			
no hydric soil indic			bgs - beure	UK:							
HYDROLOG											
Wetland Hydrold									cators (two or more are required)		
Primary Indicators		s sufficient	t)					Water Stained Leaves (B9)			
Surface Wate				Inundation V		-			Patterns (B10)		
	High Water Table (A2)       Sparsely Vegetated Concave Surface						ce (B8)	_	hizospheres along Living Roots (C3)		
Saturation (A3) Marl Deposits (B15)						Presence of Reduced Iron (C4)       Salt Deposits (C5)					
Water Marks				Hydrogen Su							
_	Sediment Deposits (B2)     Dry-Season Water Table (C2)							Stunted or Stressed Plants (D1)			
Drift Deposits (B3)       Other (Explain in Remarks)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Shallow Aquitard (D3)									. ,		
Iron Deposits (B5)							Microtopographic Relief (D4)				
Surface Soil Cracks (B6)								,			
Field Observatio	. ,										
Surface Water Pre		Yes C	No 🖲	Depth (inche	s):						
Water Table Pres			) No 🖲	Depth (inche	,		Wetla	nd Hydrology Presen	t? Yes 🔿 No 🖲		
Saturation Presen		-	_		,		cua				
(includes capillary		Yes U	) No 🖲	Depth (inche	s):						
Describe Recorded	l Data (stre	am gauge,	monitor w	ell, aerial photos, prev	ious inspe	ection) if ava	ilable:				
Remarks:											

no wetland hydrology indicators