## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Denali Bo	rough Sampling Date: 06-Aug-13		
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T148_09		
nvesti	gator(s): SLI, EAC	side, terrac	e, hummocks etc.): Toeslope				
_ocal r	elief (concave, convex, none): hummocky		Slope:	%/ 2.3	B ° Elevation: 713		
Subrec	ion : Interior Alaska Mountains	Lat:	63.386827826		Long.: -148.604098558 Datum: NAD83		
-			03.300027020				
	p Unit Name:			• No ()	NWI classification: PSS1B		
Are V Are V	egetation , Soil , or Hydrology	significantly naturally pr wing sam	v disturbed? oblematic?	Are "N (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 🖯	)					
	Hydric Soil Present? Yes	)					
	Wetland Hydrology Present? Yes  No C	)	within a Wetland? Yes $ullet$ No $igodoldsymbol{ imes}$				
Rema	arks: arrea may have burned in the past - appears to b	e buried ch	narcoal in soil	profile			
	<b>TATION</b> - Use scientific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species		
<u>Tre</u>	e Stratum	<u>% Cover</u> 0	Species?	Status	That are OBL, FACW, or FAC: <u>3</u> (A)		
					Total Number of Dominant		
2.					Species Across All Strata:3 (B)		
3. 4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
4. 5.		0					
5.	Total Cover	0			Prevalence Index worksheet:		
<b>C</b>			of Total Cover:	0	Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	_	0	OBL Species $20$ x 1 = $20$		
1.	Salix pulchra	35		FACW	FACW Species 36 $x^2 = 72$		
2.	Salix barclayi	20		FAC	FAC Species $26.1 \times 3 = 78.30$		
3.	Betula glandulosa			FAC	FACU Species 3 $x 4 = 12$		
4.	Picea mariana			FACW	UPL Species x 5 =		
5.	Dasiphora fruticosa			FAC	Column Totals: <u>85.1</u> (A) <u>182.3</u> (B)		
6.					Prevalence Index = B/A =2.142_		
7.							
8.		0			Hydrophytic Vegetation Indicators:		
		0			Dominance Test is > 50%		
10.	Total Cover				✓ Prevalence Index is $\leq 3.0$		
Her	b Stratum50% of Total Cover:		of Total Cover	: 12.4	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
1.	Carex aquatilis	20	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
	Rubus arcticus (IAM)	2		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
	Polemonium acutiflorum	0.1		FAC	be present, unless disturbed or problematic.		
4.				p	Dist size (radius, or length y width)		
					Plot size (radius, or length x width) <u>10m</u>		
					% Cover of Wetland Bryophytes (Where applicable)		
					% Bare Ground _7		
					Total Cover of Bryophytes 85		
		0			Hydrophytic		
	Total Cover	23.1			Vegetation		
	50% of Total Cover: 1				Present? Yes $\odot$ No $\bigcirc$		

		the depth n Matrix	eeded to docur	ment the indicator or cor <b>Red</b>	firm the ab		icators)				
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-4	5YR	2.5/1	100			1700	200	fibric organics			
4-5	5YR	3/2	100					hemic organics			
				,				Fine Loamy Sand			
5-15	N	3/1	100								
					-						
	· ·					-					
<sup>1</sup> Type: C=Co	ncentration. D=	Depletion	. RM=Reduc	ed Matrix <sup>2</sup> Location	: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pro	oblemati	c Hydric S	Soils: <sup>3</sup>				
Histosol o	r Histel (A1)			Alaska Color Ch	ange (TA	4) <sup>4</sup>	$\checkmark$	Alaska Gleyed Without Hu	ie 5Y or Redder		
	pedon (A2)			🗌 Alaska Alpine s	wales (TA	5)		Underlying Layer			
	Sulfide (A4)			Alaska Redox V	/ith 2.5Y I	lue		Other (Explain in Remark	s)		
	k Surface (A12)	)									
🗌 Alaska Gle	eyed (A13)			<sup>3</sup> One indicator of and an appropriat				nary indicator of wetland h	ydrology,		
🗌 Alaska Re	dox (A14)					-	-				
🗌 Alaska Gle	eyed Pores (A15	5)		<sup>4</sup> Give details of co	lor chang	e in Remar	·ks				
Restrictive Lay	er (if present):										
-	ve layer (frozer	1)						Hydric Soil Present	Yes 🖲 No 🔾		
Depth (inc		- )						,			
Remarks: Appears to be a thin burn layer at 3 in. depth.											
rippedie to be			aopan								
HYDROLO		+						Constant to the			
-	rology Indica ators (any one i		+)						ators (two or more are required) ned Leaves (B9)		
	Vater (A1)	3 Sumclen	()	Inundation V	ciblo on A	orial Imag	on. (P7)		atterns (B10)		
_	. ,			Sparsely Vege					nizospheres along Living Roots (C3)		
<ul> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> </ul>				Marl Deposits				Presence of Reduced Iron (C4)			
Water Ma					• •	(C1)		Salt Deposi	( )		
	Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Dry-Season Water Table (C2)							_	Stressed Plants (D1)		
Drift Dep				Other (Explai		• •		_	c Position (D2)		
	or Crust (B4)					,		Shallow Aquitard (D3)			
☐ Iron Deposits (B5)								Microtopographic Relief (D4)			
Surface S	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)		
Field Observ	ations:										
Surface Wate	r Present?	Yes $\subseteq$	🔾 No 🖲	Depth (inche	5):						
Water Table I	Present?	Yes 🤇	• No 🔿	Depth (inche	5): 7		Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Pro	esent?		No	Depth (inche							
(includes cap	llary fringe)	100 0									
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											