## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Bo	orough/City:	Denali Bo	rough Sampling Date: 30-Jul-13					
Applica	nt/Owner: Alaska Energy Authority	Sampling Point: SW13_T212_02								
Investi	gator(s): SLI, EAC	e, hummocks etc.): Swale								
Local r	elief (concave, convex, none): concave		Slope:	%/ 0.4	e Elevation: 674					
Subrec	ion : Interior Alaska Mountains	Lat e	63.380786657	 '3	 Long.: -148.909766556 Datum: NAD83					
-	p Unit Name:		0.000100001	0	NWI classification: PEM1E					
	•			• No ()						
	natic/hydrologic conditions on the site typical for this ti egetation Soil, or Hydrology				(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ◯					
		• •	disturbed?							
Are Vegetation . , Soil , or Hydrology anaturally problematic? (If needed, explain any answers in Remarks.)										
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegetation Present? Yes  No O										
	Hydric Soil Present? Yes   No C	)	ls	the Sam	pled Area					
	Wetland Hydrology Present? Yes O No C		wi	thin a W	etland? Yes $ullet$ No $igloodow$					
Rema	arks: small areas of PUBH (may not be visible in aerial)		water regime	s, but pred	ominantly E.					
		, , .		-,	<b>,</b>					
			• • •							
VEGE	<b>TATION -</b> Use scientific names of plants. Li	ist all spe	cies in the	plot.	Dominance Test worksheet:					
<b>T</b>	- Church and	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species					
1.	e Stratum	<u>-78 COVEI</u> 0		Status	That are OBL, FACW, or FAC: <u>5</u> (A)					
2.					Total Number of Dominant					
3.		0			Species Across All Strata:5 (B)					
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)					
 5.		0								
0.	Total Cover				Prevalence Index worksheet:					
San	ling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	Total % Cover of: Multiply by:					
					OBL Species $64.2$ x 1 = $64.2$					
	Andromeda polifolia (IAM)	3		OBL	FACW Species $1 \times 2 = 2$					
2.	Betula nana			FAC	FAC Species $1 \times 3 = 3$ FACU Species $0 \times 4 = 0$					
3.	Salix fuscescens			FACW						
4.		-			UPL Species $0.1 \times 5 = 0.500$					
5.					Column Totals: <u>66.3</u> (A) <u>69.7</u> (B)					
6.					Prevalence Index = $B/A = 1.051$					
7.		0								
8.					Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%					
		0			$\mathbf{V}$ Prevalence Index is $\leq 3.0$					
10.	Total Cover									
Her	b Stratum50% of Total Cover:		of Total Cover	: 1	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)					
	Eriophorum angustifolium	30	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)					
	Carex aquatilis	20		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must					
3.	Menyanthes trifoliata	3		OBL	be present, unless disturbed or problematic.					
	Carex glacialis	0.1		UPL						
5.	Carex tenuiflora	2		OBL	Plot size (radius, or length x width) <u>10m</u>					
6.	Carex loliacea	0.1		OBL	% Cover of Wetland Bryophytes (Where applicable)					
7.	Carex aquatilis	5		OBL	% Bare Ground					
8.	Carex magellanica	0.1		OBL	Total Cover of Bryophytes _5					
9.		•								
10.		0			Hydrophytic					
	Total Cover				Vegetation					
	50% of Total Cover:3	0.65 20%	of Total Cover:	12.26	Present? Yes  No					
Rem	arks:									

Profile Description: (Describe		escribe to the depth needed to doc Matrix		cument the indicator or confirm the absence of indicators) <b>Redox Features</b>			ators)	_	
(inches)	Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR	3/3	100					Fibric Organics	
4-22	10YR	3/2	100					Hemic Organics	
									2
								· . <u></u>	
				,				·	
<sup>1</sup> Type: C=Cor			RM=Reduce	ed Matrix <sup>2</sup> Location	n: PL=Por	e Linina. RC	=Root Cha	annel. M=Matrix	
Hydric Soil I		D oprotion.		Indicators for Pr		-			
Histosol or				Alaska Color Ch		4		] Alaska Gleyed Without H	ie 5Y or Redder
Histic Epip	. ,			Alaska Alpine s		-		Underlying Layer	
	Sulfide (A4)			Alaska Redox V	•	,		Other (Explain in Remark	s)
	Surface (A12)	)							
Alaska Gle				<sup>3</sup> One indicator of and an appropriat	hydrophyl e landscar	ic vegetation	n, one prin	mary indicator of wetland h	ydrology,
Alaska Rec	lox (A14)				e ianusca	e posicion n	iust be pre	esent	
🗌 Alaska Gle	yed Pores (A1	5)		<sup>4</sup> Give details of co	olor chang	e in Remark	5		
Restrictive Laye	er (if present):								
Type: activ	ve layer							Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inch	ies): 22								
HYDROLO	GY								
Wetland Hydi	ology Indica	tors:						Secondary Indi	cators (two or more are required)
Primary Indica		s sufficient	:)					Water Stai	ned Leaves (B9)
Surface W	. ,			Inundation V					atterns (B10)
✓ High Wate				Sparsely Veg		ncave Surfac	e (B8)		hizospheres along Living Roots (C3)
Saturation				Marl Deposits	• •				f Reduced Iron (C4)
Water Mai	Deposits (B2)			Hydrogen Su				Salt Depos	Stressed Plants (D1)
				Dry-Season V		. ,		Geomorphi	
	or Crust (B4)					185)		Shallow Aq	
Iron Depo									raphic Relief (D4)
	oil Cracks (B6)							FAC-neutra	
Field Observa	tions:								
Surface Water	Present?	Yes 🖲	) No 🔿	Depth (inche	s): 4				
Water Table P	resent?	Yes 🖲	) No 🔿	Depth (inche	s): 0		Wetla	nd Hydrology Presen	t? Yes $ullet$ No $igcap$
Saturation Pre (includes capil		Yes 🖲	No O	Depth (inche	s): 0				
		am gauge,	monitor wel	l, aerial photos, prev	vious inspe	ection) if ava	ilable:		
Remarks:									