## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 30-Jul-12					
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T49_01					
Investigator(s): SLI, KMK	Landform (hillside, terrace, hummocks etc.): Flat					
Local relief (concave, convex, none): flat	Slope: 0.0 % / 0.0 ° Elevation: 740					
Subregion : Interior Alaska Mountains Lat.:	62.8091165784 Long.: -148.423206643 Datum: WGS84					
Soil Map Unit Name:	NWI classification: PEM1H					
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are Vegetation , Soil , or Hydrology naturally problematic? (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If no, explain in Remarks.)						
SUMMARY OF FINDINGS - Attach site map showing sa	impling point locations, transects, important features, etc.					

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes () Yes () Yes ()	No () No () No ()	Is the Sampled Area within a Wetland?	Yes $ullet$ No $ightarrow$
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Remarks: PEM1H with shallow standing water. similar communities intermixed with adjacent picmar.

## **VEGETATION** - Use scientific names of plants. List all species in the plot.

			۸hsr	olute	Dominant	Indicator	Dominance Test worksheet:	
Tre	e Stratum		% C		Species?	Status	Number of Dominant Species	
1.			-	0			That are OBL, FACW, or FAC: <u>8</u> (A)	
2.				0			Total Number of Dominant Species Across All Strata: 8 (B)	
3.				0				
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)	
5.				0				
		Total Cover		0			Prevalence Index worksheet:	
6	line (Church Churchum	50% of Total Cover:		20%	of Total Cover	0	Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum		0	20%0	or rotal cover.	0	OBL Species <u>76</u> x 1 = <u>76</u>	
1.	Betula nana			3	$\checkmark$	FAC	FACW Species x 2 =	
2.	Vaccinium uliginosum			1	$\checkmark$	FAC	FAC Species x 3 =2	
3.	Andromeda polifolia (IAM)			1	$\checkmark$	OBL	FACU Species <u>0</u> x 4 = <u>0</u>	
4.				0			UPL Species x 5 =	
5.				0			Column Totals: 80 (A) 88 (B)	
				0				
				0			Prevalence Index = B/A = <u>1.100</u>	
				0				
9.				0			✓ Dominance Test is > 50%	
				0	$\square$		✓ Prevalence Index is $\leq 3.0$	
10.		Total Cover		5				
Her	b Stratum	50% of Total Cover:			of Total Cover:	1	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
1.	Carex limosa			10	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2.	Carex rotundata			10	$\checkmark$	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
3.	Trichophorum caespitosum			15	$\checkmark$	OBL	be present, unless disturbed or problematic.	
4.	Utricularia intermedia			10	$\checkmark$	OBL		
5.	Dresera englise			1		OBL	Plot size (radius, or length x width) <u>10m</u>	
6.	lungua atvaiua			7		OBL	% Cover of Wetland Bryophytes (Where applicable)	
7.	Consultivide			5		OBL	% Bare Ground _5	
8.	Eriophorum scheuchzeri			15	$\checkmark$	OBL	Total Cover of Bryophytes 10	
9				2		OBL	<u>10</u>	
10.				0			Hydronhytic	
10.		Total Cover		75			Hydrophytic Vegetation	
		50% of Total Cover:			of Total Cover:	15	Present? Yes • No	
			57.5			10		

Remarks: bare ground includes open water. trace leddec. carliv id based on leaf coloration due to dense papillae. eriang id based on purple-red lvs and base. collected carex, eriophorum, and utriculata for confirmation.

SOIL
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)   Depth Redox Features						cators)				
(inches)	Color (mois	st) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
					Type	Loc				
							-			
						. <u> </u>				
<sup>1</sup> Type: C=Con	centration. D=I	Depletion. RM=Redu	ced Matrix <sup>2</sup> Locatio	n: PL=Pore	e Lining. RO	C=Root Cha	nnel. M=Matrix			
Hydric Soil In	ndicators:		Indicators for P	roblematio	c Hydric S	oils: <sup>3</sup>				
Histosol or	Histel (A1)		Alaska Color C	hange (TA4	4 1)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	. ,		Alaska Alpine	swales (TAS	5)		Underlying Layer			
	Sulfide (A4)		Alaska Redox	-		$\checkmark$	Other (Explain in Remark	ട)		
	Surface (A12)									
Alaska Gle	( )		<sup>3</sup> One indicator of	hydrophyt	ic vegetatio	on, one prim	nary indicator of wetland h	ydrology,		
Alaska Red			and an appropria	te landscap	pe position i	must be pre	esent			
	yed Pores (A15)	,	<sup>4</sup> Give details of c	olor change	e in Remark	ks				
		1								
Restrictive Laye	er (if present):									
Type:							Hydric Soil Present	? Yes 🖲 No 🔾		
Depth (inch	ies):									
Remarks:										
no soil pit due t	o inundation th	oughout site. Assum	e hydric soils due to	standing wa	ater and hy	drophytic v	egetation.			
		-		-			-			
	0)/									
HYDROLO										
Wetland Hydr								cators (two or more are required)		
	tors (any one is	sufficient)					Water Stai	ned Leaves (B9)		
Surface W	. ,		Inundation \	isible on A	erial Image	ery (B7)		Patterns (B10)		
High Wate	er Table (A2)		Sparsely Veg	etated Cor	ncave Surfa	ce (B8)	·			
Saturation	n (A3)		Marl Deposit	s (B15)			Presence of Reduced Iron (C4)			
Water Mar	rks (B1)		🗌 Hydrogen Su	Ifide Odor	(C1)		Salt Deposits (C5)			
Sediment	Deposits (B2)		Dry-Season	Water Tabl	e (C2)		Stunted or Stressed Plants (D1)			
Drift Depo	osits (B3)		Other (Expla	in in Rema	rks)		Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)						Shallow Ac	juitard (D3)		
Iron Depo	sits (B5)						Microtopog	graphic Relief (D4)		
Surface So	oil Cracks (B6)						✓ FAC-neutra	ll Test (D5)		
Field Observa	itions:									
Surface Water	Present?	Yes 💿 No 🔿	Depth (inche	es): 3						
Water Table P	resent?	Yes 🔿 No 🖲	Depth (inche			Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Pre			Deput (inche	=5).						
(includes capil		Yes 🔿 No 🖲	Depth (inche	es):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
		jaage, monitor w	, actual photos, pro							
Remarks:										
	throughout cor	munity fow cotton	ad small hummosis							
stanung water	un oughout col	nmunity, few scattere								