## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling D	ate: 08-Jul-13			
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T131_01			
Investigator(s): SLI, SCB	Landform (hills	side, terrace, hummocks etc.): Bench				
Local relief (concave, convex, none): hummocky	Slope: 0.0	% / 0.0 ° Elevation: 1034				
Subregion : Interior Alaska Mountains Lat.:	62.972973585	Long.: -148.278418779	Datum: WGS84			
Soil Map Unit Name:		NWI classification: P	EM1E			
	ar? Yes ( ntly disturbed? problematic?	<ul> <li>No (If no, explain in Remarks.)</li> <li>Are "Normal Circumstances" present?</li> <li>(If needed, explain any answers in Rema</li> </ul>	Yes 💿 No 🔿 rks.)			
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes  No	ls	the Sampled Area				

Hydrophylic Vegetalion Present?     Fes O     No O       Hydric Soil Present?     Yes O     No O       Wetland Hydrology Present?     Yes O     No O	Is the Sampled Area within a Wetland?	Yes $\bullet$ No $\bigcirc$
Remarks: subalpine wet sedge meadow. photo time 0925, #s 1431-14	134	

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

Absolute Dominant Indicator		Dominance Test worksheet:					
Tree Stratum			Cover	Species?	Status	Number of Dominant Species	
1.			-	0			That are OBL, FACW, or FAC: (A)
2.			-				Total Number of Dominant
2. 3.				0			Species Across All Strata: <u>3</u> (B)
•••			-	0			Percent of dominant Species
4.			-	0			That Are OBL, FACW, or FAC: (A/B)
5.			-	0			Prevalence Index worksheet:
		Total Cover	r: _	0			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species 40.2 x 1 = 40.2
1.	Salix pulchra			10	$\checkmark$	FACW	FACW Species <u>10.2</u> x 2 = <u>20.40</u>
2.	Manufation Patrices a		-	5	$\checkmark$	FAC	FAC Species <u>7.2</u> x 3 = <u>21.6</u>
	Salix reticulata			2		FAC	FACU Species <u>0</u> x 4 = <u>0</u>
4.	Andromeda polifolia (IAM)			0.1		OBL	UPL Species x 5 =
5.			-	0.1		FACW	Column Totals: 57.6 (A) 82.2 (B)
6.	Botulo popo		-	0.1		FAC	
7.	Selix richardoonii			0.1		FACW	Prevalence Index = B/A = <u>1.427</u>
8.				0.1		FAC	Hydrophytic Vegetation Indicators:
9.			-	0			✓ Dominance Test is > 50%
			-	0			✓ Prevalence Index is $\leq$ 3.0
		Total Cove	- -	17.5			Morphological Adaptations <sup>1</sup> (Provide supporting data in
Herb Stratum 50% of Total Cover: 8				of Total Cover:	3.5	Remarks or on a separate sheet)	
1.	Carex aquatilis		_	40	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Trichophorum caespitosum			0.1		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.			_	0			be present, unless disturbed or problematic.
				0			Plat size (radius, ar length y width)
				0			Plot size (radius, or length x width) <u>10m</u>
				0			% Cover of Wetland Bryophytes (Where applicable)
				0			% Bare Ground 40
				0			Total Cover of Bryophytes 30
				0			
			_	0			Hydrophytic
					Vegetation		
		50% of Total Cover:			of Total Cover:	8.02	Present? Yes $\bullet$ No $\bigcirc$
Remarks: bare ground = standing water.							

Profile Description: (Describe to the depth needed to docum			nfirm the ab		ators)				
Depth (inches) Color (me		%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks	
0-14	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_/0_	Type	LUC	Sapric Organics		
·						-			
<sup>1</sup> Type: C=Concentration. D	=Depletion. I	RM=Reduce	ed Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil Indicators:	· · ·		Indicators for Pr						
Histosol or Histel (A1)			Alaska Color Ch		4		Alaska Gleved Without Hu	le 5Y or Redder	
<ul> <li>✓ Histic Epipedon (A2)</li> </ul>			Alaska Color Change (TAT)				Alaska Gleyed Without Hue 5Y or Redder Underlying Layer		
Hydrogen Sulfide (A4)			Alaska Redox V				Other (Explain in Remark	s)	
Thick Dark Surface (A12	)								
Alaska Gleyed (A13)	,						nary indicator of wetland h	ydrology,	
Alaska Redox (A14)			and an appropriat	e landscap	pe position r	nust be pre	esent		
Alaska Gleyed Pores (A1	5)		<sup>4</sup> Give details of co	olor chang	e in Remark	S			
Restrictive Layer (if present):									
Type:							Hydric Soil Present	? Yes 🖲 No 🔾	
Depth (inches):									
Remarks:									
refusal at 14in, subangular co	obbles.								
· · · · · · · · · · · · · · · · · · ·									
HYDROLOGY									
Wetland Hydrology Indica Primary Indicators (any one								ators (two or more are required)	
Surface Water (A1)	<u>is sumclent)</u>			isible on A	arial Imaga	n ( (D7)		ned Leaves (B9)	
✓ Surface Water (A1)       □ Inundation Visible on Aerial Imagery (B7         ✓ High Water Table (A2)       □ Sparsely Vegetated Concave Surface (B8				, , ,					
Saturation (A3)			Marl Deposits		icave Suita	.е (во)		f Reduced Iron (C4)	
Water Marks (B1)			Hydrogen Su	. ,	(C1)		Salt Deposi		
Sediment Deposits (B2)			Dry-Season V					Stressed Plants (D1)	
Drift Deposits (B3)			Other (Explai		• •			c Position (D2)	
Algal Mat or Crust (B4)					,		Shallow Aq	uitard (D3)	
Iron Deposits (B5)							Microtopog	raphic Relief (D4)	
Surface Soil Cracks (B6)	1						✓ FAC-neutra	l Test (D5)	
Field Observations:	-	-							
Surface Water Present?	Yes 🖲	No 🔾	Depth (inche	s): 4					
Water Table Present?	Yes 🖲	No $\bigcirc$	Depth (inche	s): 5		Wetla	nd Hydrology Presen	t? Yes $ullet$ No $igcap$	
Saturation Present? (includes capillary fringe)	Yes 🖲	No $\bigcirc$	Depth (inche	s): 0					

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks:

soil pit w saturation and water table on small hummock. majority of site w standing water