## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 08-Jul-13		
Applic:	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T131_07		
	gator(s): SLI, SCB		Landform (hill	side, terrac	e, hummocks etc.): Shoreline		
Local	elief (concave, convex, none): flat		Slope:	% / 2.2	2 ° Elevation: 103		
Subred	ion : Interior Alaska Mountains	l at	 62.981305000		Long.: -148.261 Datum: NAD83		
	p Unit Name:	Luti	02.901303000	71	NWI classification: PEM1E		
			0 V	No ○	<del></del>		
	matic/hydrologic conditions on the site typical for this	•			(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○		
	regetation , Soil , or Hydrology	·	ntly disturbed?		ionnai on cametanese procenti		
Are v	egetation . , Soil . , or Hydrology .	naturally	problematic?	(If nee	eded, explain any answers in Remarks.)		
SUMI	MARY OF FINDINGS - Attach site map sho	owing sa	ampling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes   No	$\overline{\bigcirc}$					
	Hydric Soil Present? Yes ● No (	$\circ$	Is the Sampled Area				
	Wetland Hydrology Present? Yes ● No (	_	within a Wetland? Yes   No ○				
Rem	arks: lakeshore wet sedge meadow. lac fringe (confirm		e in gis).				
	5 ,		<b>5</b> ,				
/FGI	ETATION - Use scientific names of plants.	Lict all c	nacias in tha	nlot			
LOL	TATION -Ose scientific flames of plants.				Dominance Test worksheet:		
Tre	e Stratum	Absolu % Cov		Indicator Status	Number of Dominant Species		
1.					That are OBL, FACW, or FAC:(A)		
2.					Total Number of Dominant Species Across All Strata: 1 (B)		
3.							
4.			_ =		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.					December of Tarden considerate		
	Total Cove	er: <u>0</u>	_		Prevalence Index worksheet:  Total % Cover of: Multiply by:		
Sar	ling/Shrub Stratum 50% of Total Cover:	0 2	0% of Total Cover:	0	OBL Species 70.1 x 1 = 70.1		
1	Soliv pulahra			FACW	FACW Species 1 x 2 = 2		
2.	Salix pulchra			FACW	FAC Species <u>5.1</u> x 3 = <u>15.3</u>		
3.				-	FACU Species 0 x 4 = 0		
4.					UPL Species 0 x 5 = 0		
5.							
6.					Column Totals: <u>76.2</u> (A) <u>87.4</u> (B)		
7.					Prevalence Index = B/A =1.147_		
8.					Hydrophytic Vegetation Indicators:		
9.					✓ Dominance Test is > 50%		
10.					✓ Prevalence Index is ≤3.0		
	Total Cove	- — er: 1	_		☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in		
Her	<b>b Stratum</b> 50% of Total Cover:	0.5 2	20% of Total Cover	: 0.2	Remarks or on a separate sheet)		
1.	Carex aquatilis	6	<u> </u>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Calamagrostis canadensis	5		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Comarum palustre	1	0	OBL	be present, unless disturbed or problematic.		
4.	Polemonium acutiflorum	0.	1 🔲	FAC	Plot size (radius, or length x width)		
5.	Equisetum fluviatile	0.	<u>1</u> $\square$	OBL	% Cover of Wetland Bryophytes		
6.	Hippuris vulgaris	0.		OBL	(Where applicable)		
			_ =		% Bare Ground _5		
8.					Total Cover of Bryophytes		
140					Hydrophytic		
10.	Total Cove	er: 75.3	3		Vegetation		
10.	50% of Total Cover:	-		a = a =	Present? Yes   No		

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SOIL Sampling Point: SW13\_T131\_07 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) **Redox Features** <u>Loc</u> 2 (inches) Color (moist) Color (moist) % Type 1 Texture Hemic Organics 0-8 <sup>1</sup>Type: C=Concentration. D=Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining. RC=Root Channel. M=Matrix Indicators for Problematic Hydric Soils:<sup>3</sup> **Hydric Soil Indicators:** Alaska Gleyed Without Hue 5Y or Redder Histosol or Histel (A1) Alaska Color Change (TA4) **Underlying Layer** Alaska Alpine swales (TA5) ✓ Histic Epipedon (A2) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) Hydrogen Sulfide (A4) Thick Dark Surface (A12) <sup>3</sup> One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, Alaska Gleyed (A13) and an appropriate landscape position must be present Alaska Redox (A14) <sup>4</sup> Give details of color change in Remarks Alaska Gleyed Pores (A15) Restrictive Layer (if present): Yes ● No ○ Type: frozen **Hydric Soil Present?** Depth (inches): 8 Remarks: HADBUI UCA

HIDROLOGI									
Wetland Hydrology Indica	tors:	Secondary Indicators (two or more are required)							
Primary Indicators (any one is	s sufficient)	☐ Water Stained Leaves (B9)							
Surface Water (A1)			☐ Inundation Visible on Aerial Imag	ery (B7)	☐ Drainage Patterns (B10)				
✓ High Water Table (A2)			Sparsely Vegetated Concave Surfa	ace (B8)	Oxidized Rhizospheres along Living Roots (C3)				
✓ Saturation (A3)			☐ Marl Deposits (B15)		Presence of Reduced Iron (C4)				
☐ Water Marks (B1)			☐ Hydrogen Sulfide Odor (C1)		Salt Deposits (C5)				
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)					FAC-neutral Test (D5)				
Field Observations:	_	_							
Surface Water Present?	Yes 🔾	No 💿	Depth (inches):						
Water Table Present? Yes • No •		Depth (inches): 4 Wetland Hydro		rology Present? Yes $lacktriangle$ No $lacktriangle$					
Saturation Present? (includes capillary fringe)	Yes	No $\bigcirc$	Depth (inches): 1						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									
lakeshore wet sedge meadow.									

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