## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	//Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 07-Aug-13		
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T142_07		
					illside, terrace, hummocks etc.): pond /lake		
	relief (concave, convex, none): concave		Slope:		7 ° Elevation: 119		
	gion : Interior Alaska Mountains	l at ·	63.094305754		Long.: -148.296252131 Datum: NAD83		
	p Unit Name:		03.03430373-	-			
			0 V	■ N= ○	NWI classification: PUBH		
	matic/hydrologic conditions on the site typical for this ti /egetation $\Box$ , Soil $\Box$ , or Hydrology $\Box$		y disturbed?		(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○		
		-	roblematic?		eded, explain any answers in Remarks.)		
SUMI	MARY OF FINDINGS - Attach site map show	wing san	npling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes   No C	)		41 0	uste di Auste		
	Hydric Soil Present? Yes   No   No	)	Is the Sampled Area within a Wetland? Yes ● No ○				
	Wetland Hydrology Present? Yes   No C	)	Wi	thin a W	retland? Yes © No C		
Rema	arks:						
/EGE	ETATION - Use scientific names of plants. Li	ist all spe	cies in the	nlot.			
		Absolute		•	Dominance Test worksheet:		
Tre	e Stratum	% Cover		Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC:3 (A)		
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover				Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species5 x 1 =5_		
1.		0			FACW Species 3 x 2 = 6		
2.					FAC Species0 x 3 =0		
3.		•		-	FACU Species0 x 4 =0		
4.					UPL Species <u>0</u> x 5 = <u>0</u>		
5.					Column Totals: <u>8</u> (A) <u>11</u> (B)		
6.		0					
7.		0			Prevalence Index = B/A = 1.375		
8.		0			Hydrophytic Vegetation Indicators:		
9.		0			Dominance Test is > 50%		
10.		0			✓ Prevalence Index is ≤3.0		
Her	<b>Total Cover b Stratum</b> 50% of Total Cover:		% of Total Cover	: _ 0	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
	Carex aquatilis	3	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
	Carex saxatilis		<b>✓</b>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
	Hippuris vulgaris		<b>✓</b>	OBL	be present, unless disturbed or problematic.		
					Plot size (radius, or length y width)		
					Plot size (radius, or length x width) 10m  Cover of Wetland Bryophytes		
		•			(Where applicable)		
1					% Bare Ground		
7.		0			Total Cover of Bryophytes		
			1 1				
8.							
8. 9.		0			Hydrophytic		
8. 9.		0 0 8		1.6	Hydrophytic Vegetation Present?  Yes  No		

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SOIL Sampling Point: SW13\_T142\_07 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) **Redox Features** Depth <u>Loc</u> 2 (inches) Color (moist) Color (moist) % Type <sup>1</sup> <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: **Hydric Soil Present?** Depth (inches): Remarks: pond, assume hydric soil.

HYDROLOGY								
Wetland Hydrology Indica	ators:	Secondary Indicators (two or more are required)						
Primary Indicators (any one	is sufficient)	Water Stained Leaves (B9)						
✓ Surface Water (A1)		☐ Inundation Visible on Aerial Imag	gery (B7)	☐ Drainage Patterns (B10)				
High Water Table (A2)		Sparsely Vegetated Concave Surf	face (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)	ı	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): 48						
Water Table Present?	Yes O No 💿	Depth (inches):	Wetland Hyd	rology Present? Yes $lacktriangle$ No $lacktriangle$				
Saturation Present? (includes capillary fringe)	Yes O No •	Depth (inches):						
Describe Recorded Data (stre	eam gauge, monitor v	vell, aerial photos, previous inspection) if a	available:					
Remarks:								
shallow lake with sandy botto	om, designated slope	wetland based on connection to surroundi	ing extensive wetlands	5.				

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