## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 31-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T154_04
Investigator(s): BAB		Landform (hills	side, terrac	e, hummocks etc.): drainage
Local relief (concave, convex, none): concave		Slope:	% / 6.9	9 ° Elevation: 113
Subregion : Interior Alaska Mountains	Lat.:	63.237132104		Long.: -148.371035903 Datum: NAD83
Soil Map Unit Name:				NWI classification: PUSC
Are climatic/hydrologic conditions on the site typical for this tin	ne of ve	ar? Yes	No ○	(If no, explain in Remarks.)
		itly disturbed?	Are "N	lormal Circumstances" present? Yes ● No ○
	-	problematic?		eded, explain any answers in Remarks.)
	-			
SUMMARY OF FINDINGS - Attach site map show		impling point	locations	s, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes  No		ls 1	the Sam	pled Area
Hydric Soil Present? Yes  No				etland? Yes ● No ○
Wetland Hydrology Present? Yes No Remarks: Wide drainage, recently ponded but the beaver da		Į.		
running parallel to stream	אטוט וווו	c. Siliali active ci	ilaliliei <3	it fullling through trainage. Targe area or political water
3,411				
VEGETATION				
<b>VEGETATION</b> -Use scientific names of plants. Lis	st all sp	pecies in the p	olot.	Dominance Test worksheet:
Tree Stratum	Absolut % Cove		Indicator Status	Number of Dominant Species
1.	0		Status	That are OBL, FACW, or FAC:0(A)
2.	0			Total Number of Dominant Species Across All Strata: 0 (B)
3.	0			Percent of dominant Species
4.	0			That Are OBL, FACW, or FAC: 0.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cover:	0			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species <u>1.2</u> x 1 = <u>1.2</u>
1	0			FACW Species <u>0.1</u> x 2 = <u>0.200</u>
2.	0			FAC Species0 x 3 =0
3.	0			FACU Species x 4 =0
4	0	_ 📙		UPL Species <u>0</u> x 5 = <u>0</u>
5	0	-		Column Totals: <u>1.3</u> (A) <u>1.400</u> (B)
6	0			Prevalence Index = B/A = 1.077
7	0	-		
9.	0	-		Hydrophytic Vegetation Indicators:  Dominance Test is > 50%
10.	0	_ =		✓ Prevalence Index is ≤ 3.0
Total Cover:		_		Morphological Adaptations <sup>1</sup> (Provide supporting data in
Herb Stratum 50% of Total Cover:			0	Remarks or on a separate sheet)
1. Ranunculus gmelinii	0.1		FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Carex aquatilis	1		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Hippuris vulgaris	0.1		OBL	be present, unless disturbed or problematic.
4. Sparganium hyperboreum	0.1		OBL	Plot size (radius, or length x width) 10m
5		-		% Cover of Wetland Bryophytes
6.		-		(Where applicable)
7		-		% Bare Ground
		-		Total Cover of Bryophytes
8	Λ			
9	0	-		Huduanhudia
9	0			Hydrophytic Vegetation
9	0		0.26	Hydrophytic Vegetation Present?  Yes  No  No

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SOIL Sampling Point: SW13\_T154\_04 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: assume hydric soil due to inundation and hydrophytic vegetation

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)
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): 6	
Water Table Present?	Yes ○ No •	Depth (inches):	Wetland Hydrology Present? Yes ● No ○
Saturation Present? (includes capillary fringe)	Yes O No •	Depth (inches):	
Describe Recorded Data (stre	eam gauge, monitor we	ell, aerial photos, previous inspection) if a	available:
Remarks:			
Shallow ponds remaining at	surrace, estimate of de	ptn.	

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