## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Date: 01-					
Applicant/Owner: Alaska Energy Authority		Sam	pling Point: SW13_T143_06				
Investigator(s): WAD, RWM	Landform (hills	Landform (hillside, terrace, hummocks etc.): depression					
Local relief (concave, convex, none): concave	Slope: 0.0	% / 0.0 ° Elevation: 1	1098				
Subregion : Interior Alaska Mountains	Lat.: 63.218645573	Long.: -148.2206	070462 Datum: WGS84				
Soil Map Unit Name:		NWI clas	ssification: PUBH				
	e of year? Yes gnificantly disturbed? turally problematic?						
SUMMARY OF FINDINGS - Attach site map show	ng sampling point	locations, transects, imp	ortant features, etc.				
Hydrophytic Vegetation Present? Yes   No							
Hydric Soil Present? Yes ● No ○		the Sampled Area	Yes $\bullet$ No $\bigcirc$				
Wetland Hydrology Present? Yes 💿 No 🔾	Wi	thin a Wetland?					
Remarks: Another small subalaine tara, as evidence of activ	inlet or outlets						

Remarks: Another small subalpine tarn, no evidence of active inlet or outlets

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

A		۸ha	Absolute Dominant		Indicator	Dominance Test worksheet:				
			Cover	Species?	Status	Number of Dominant Species				
1.				0			That are OBL, FACW, or FAC: (A)			
2.				0			Total Number of Dominant Species Across All Strata: 1 (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 Species $7 \times 1 = 7$			
1				0			FACW Species $0 \times 2 = 0$			
				0	$\square$		FAC Species x 3 =			
3.				0	$\square$		FACU Species 0 x 4 = 0			
4.				0			UPL Species $0 \times 5 = 0$			
5.				0			Column Totals: <u>7</u> (A) <u>7</u> (B)			
-				0						
				0			Prevalence Index = B/A = <u>1.000</u>			
				0			Hydrophytic Vegetation Indicators:			
				0			✓ Dominance Test is > 50%			
			_	0			✓ Prevalence Index is $\leq$ 3.0			
	Total Cover: 0 Morphological Adaptations <sup>1</sup> (Provide supporting data in									
Herb Stratum 50% of Total Cover: 0 Remarks or on a separate sheet)						Remarks or on a separate sheet)				
1.	Sparganium hyperboreum		_	5	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Eriophorum angustifolium		_	_1		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Carex aquatilis		_			OBL	be present, unless disturbed or problematic.			
4.			_	0			Plot size (radius, or length x width) <u>10m</u>			
5.			_	0			% Cover of Wetland Bryophytes			
6.			_	0			(Where applicable)			
7.			_	0			% Bare Ground			
8.			_	0			Total Cover of Bryophytes			
9.			_	0						
10.			_	0			Hydrophytic			
		Total Cove		7			Vegetation			
		50% of Total Cover:	3.5	_ 20%	of Total Cover:	1.4	Present? Yes  No			
Remarks: small patch of zostera, narrow sedge margins.										

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)          Matrix       Redox Features											
Depth (inches)	Depth		Color	Color (moist) % Type $^{1}$			Loc <sup>2</sup>	Texture	Remarks		
						.,,,,					
						,		-			
					-						
								-			
						-	-				
<sup>1</sup> Type: C=Con	centration. D=Dep	letion. RM	=Reduced Matr	x <sup>2</sup> Location	n: PL=Pore	e Lining. RC	C=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	Hydric Soil Indicators: Indicators for Problematic Hydric Soils: <sup>3</sup>										
Histosol or				Alaska Color Change (TA4) <sup>4</sup> Alaska Gleyed Without Hue 5Y or Redder							
Histic Epip	. ,			aska Alpine s	wales (TA5	5)		Underlying Layer			
	Sulfide (A4)		_	aska Redox \			$\checkmark$	Other (Explain in Remark	in in Remarks)		
	Surface (A12)										
Alaska Gle	/ed (A13)			indicator of in appropriat				hary indicator of wetland h	iydrology,		
Alaska Red	ox (A14)		dilu d	п арргорпа	le ianuscap		nust be pre	sent			
Alaska Gle	ed Pores (A15)		4 Give	e details of o	olor change	e in Remark	S				
Restrictive Laye	r (if present):										
Type:	,							Hydric Soil Present	? Yes 🖲	No 🔿	
Depth (inch	es):										
Remarks:											
pond, assume h	vdric soil.										
pond, doodine n	yane com										
HYDROLO											
	ology Indicators	:						Secondary Indi	cators (two or m	ore are required)	
-	ors (any one is su								ned Leaves (B9)		
Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10)			
	r Table (A2)		Sparsely Vegetated Concave Surface (B8)				Oxidized Rhizospheres along Living Roots (C3)				
Saturation	(A3)		Marl Deposit			. ,		of Reduced Iron (			
🗌 Water Mar	Water Marks (B1)					(C1)		Salt Deposits (C5)			
Sediment	Deposits (B2)			Dry-Season				Stunted or	Stressed Plants	(D1)	
🗌 Drift Depo	sits (B3)			Other (Expla	in in Remai	·ks)		🗹 Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)								uitard (D3)		
Iron Depo	sits (B5)								graphic Relief (D4	4)	
Surface Sc	oil Cracks (B6)							✓ FAC-neutra	al Test (D5)		
Field Observa			$\sim$								
Surface Water	Present? Y	es 💿 I	No $\bigcirc$	Depth (inche	es): 24						
Water Table P	resent? Y	es 🔿 I	No 🖲	Depth (inche	es): 0		Wetlar	nd Hydrology Presen	t? Yes 🖲	No $\bigcirc$	
Saturation Pre (includes capil	Y	es 🔿 🛚 M	lo 🖲	Depth (inche	es): 0						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											

Remarks:

estimate depth of surface water, overall shallow.