## WETLAND DETERMINATION DATA FORM - Alaska Region

	Susitna-Watana Hydroelec		E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 19-Aug-1	5			
Applicant/Owne	er: Alaska Energy Authori	ty				Sampling Point: SW15_T321_	_05			
Investigator(s):	SLI, ATH			Landform (hill	side, terrac	e, hummocks etc.): lacustrine fringe				
Local relief (co	ncave, convex, none):c	oncave		Slope: 0.0	% / 0.0	Elevation:				
Subregion : _C	ook Inlet Mountains		Lat.:			Long.: Datum: WGS	384			
Soil Map Unit N	lame:					NWI classification: PEM1F				
Are Vegetatio Are Vegetatio	n 🗌 , Soil 🗌 , or I	Hydrology  Sig Hydrology   na n site map show	gnificantl aturally p	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.				
Hydropl	hytic Vegetation Present?	Yes 💿 No 🔾								
Hydric S	Yes 🔍 No 🔾		Is the Sampled Area							
Wetland	d Hydrology Present?	Yes 💿 No 🔿		within a Wetland? Yes $ullet$ No $igcap$						
Remarks: Pond fringe, water at surface of sphagnum mat.   VEGETATION - Use scientific names of plants. List all species in the plot.										
Tree Stratu	m		Absolute % Cover		Indicator Status	Number of Dominant Species				
1.		-	0			That are OBL, FACW, or FAC: <u>2</u> (	(A)			
2.			0			Total Number of Dominant Species Across All Strata: 2 (	(B)			
3			0			Percent of dominant Species				
4			0				(A/B)			
5.			0			Prevalence Index worksheet:				
		Total Cover:	0			Total % Cover of: Multiply by:				
Sapling/Shr	ub Stratum 50% o	of Total Cover:(	) 20%	of Total Cover:	0	OBL Species $50 \times 1 = 50$				
1.			0			FACW Species $0 \times 2 = 0$				
			0			FAC Species $1$ x 3 = $3$				
			0			FACU Species $0 \times 4 = 0$				
			0			UPL Species $0 \times 5 = 0$				
			0							
-			0			Column Totals: <u>51</u> (A) <u>53</u>	(B)			
			0			Prevalence Index = B/A = <u>1.039</u>				
0			0			Hydrophytic Vegetation Indicators:				
			0			✓ Dominance Test is > 50%				
			0			✓ Prevalence Index is ≤3.0				
		Total Cover:	0			Morphological Adaptations (P <sup>1</sup> ovide supporting dat	ta in			
Herb Stratu	<b>m</b> 50%	of Total Cover:	0 20%	% of Total Cover	: 0	Remarks or on a separate sheet)				
1. Carex	aquatilis		30	$\checkmark$	OBL	Problematic Hydrophytic Vegetation (Explain)				
2. Erioph	orum angustifolium		15	$\checkmark$	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
3. Comar	um paluetro		5		OBL	be present, unless disturbed or problematic.				
-			1		FAC	Plot size (radius, or length x width) _ <u>5m</u>				
			0			% Cover of Wetland Bryophytes	-			
			0			(Where applicable)				
			0			% Bare Ground _30	-			
			0			Total Cover of Bryophytes65	-			
			0							
10.						Hydrophytic Vegetation				
	50% (	of Total Cover:	<u>51</u> .520%	of Total Cover:	10.2	Present? Yes No				

Remarks: Sphagnum squarosum

SOIL
------

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)    Matrix Redox Features											
Depth (inches)	Color (mois		% (	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-16			<u>-70</u>	20101 (110130)		1900	LUC	Peat			
•											
			<u></u>								
<sup>1</sup> Type: C=Cor	ncentration. D=I	Depletion. F		Matrix <sup>2</sup> Location		-		nnel. M=Matrix			
Hydric Soil I			I	Indicators for Pro		4	oils:				
Histosol or	. ,		L	Alaska Color Ch		-		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)		L	Alaska Alpine s	-	-		Underlying Layer			
	Sulfide (A4)		L	Alaska Redox V	Vith 2.5Y H	lue		Other (Explain in Remark	s)		
	c Surface (A12)			3 One indicator of	budronhut	ia voqetatic	n one prin	nary indicator of wetland h			
Alaska Gle				and an appropriat					yarology,		
Alaska Rec	. ,					•					
🔄 Alaska Gle	eyed Pores (A15)	1		<sup>4</sup> Give details of co	NOF Change	10 Kelilain	<s< td=""><td></td><td></td></s<>				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes 🖲 No 🔾		
Depth (inch	nes):							-			
Remarks:							u				
	surface of floati	na sphagnu	ım mat. Diffic	cult to get cohesive	e profile (p	eat not ver	v dense).				
		95			· • · • · • ·	but	,,				
HYDROLO	GY										
	rology Indicat	ors:						Secondary Indi	cators (two or more are required)		
-	tors (any one is								ned Leaves (B9)		
Surface W				Inundation Vi	isible on Ae	erial Image	rv (B7)	Drainage Patterns (B10)			
High Wate				Sparsely Vege		-		Oxidized Rhizospheres along Living Roots (C3)			
Saturation	. ,			Marl Deposits		cure series		Presence of Reduced Iron (C4)			
Water Ma	. ,			Hydrogen Sul	. ,	(C1)		Salt Deposits (C5)			
	Deposits (B2)			Dry-Season V					Stressed Plants (D1)		
Drift Depo	,			Other (Explai				Geomorphic Position (D2)			
	or Crust (B4)							_	uitard (D3)		
Iron Depo									raphic Relief (D4)		
	oil Cracks (B6)							FAC-neutra			
Field Observa	. ,										
Surface Water		Yes 🖲	No $\bigcirc$	Depth (inche	s): 6						
Water Table P		Yes 🖲			,		Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Pre				Depth (inche				ind fryarology i recen			
(includes capil		Yes 🖲	No $\bigcirc$	Depth (inche	s): 0						
Describe Recor	ded Data (strea	m gauge, n	nonitor well,	aerial photos, prev	vious inspe	ction) if ava	ailable:				
Remarks:											
water depth va	ries from 1 to 6	in. D2 - poi	nd fringe								