## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough	Sampling Date:	25-Jun-12			
Applicant/Owner: Alaska Energy Authority		Samplii	ng Point:	W12_T28_05			
Investigator(s): JGK	Landform (hillsi	de, terrace, hummocks etc.):	Flat				
Local relief (concave, convex, none): flat		% / 0.0 ° Elevation: 734	ŀ				
Subregion : Interior Alaska Mountains Lat.:	62.8684199088	Long.: -148.369169	9971 Da	atum: WGS84			
Soil Map Unit Name:		NWI classi	ification: PEM1F				
Are climatic/hydrologic conditions on the site typical for this time of year?       Yes        No        (If no, explain in Remarks.)         Are Vegetation       , soil       , or Hydrology       significantly disturbed?       Are "Normal Circumstances" present?       Yes        No          Are Vegetation       , soil       , or Hydrology       naturally problematic?       (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.							

Hydrophytic Vegetation Present?	Yes 🖲	Νο 〇	Is the Sampled Area within a Wetland?	
Hydric Soil Present?	Yes 🖲	Νο 〇		Yes 🖲 No 🔿
Wetland Hydrology Present?	Yes 🖲	No 🔿		

Remarks: Presence of permanent surface water and obligate hydrophytes reflect hydric soils

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

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
		% Cover		Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC: (A)		
2.					Total Number of Dominant		
					Species Across All Strata: (B)		
3.			. Ц		Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: (A/B)		
5.		0	. 🗌		Prevalence Index worksheet:		
	Total Cove	r:			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species x 1 =		
1.		0			FACW Species <u>10</u> x 2 = <u>20</u>		
					FAC Species x 3 =		
3.		0			FACU Species 0 x 4 = 0		
4.		0			UPL Species x 5 =		
5.					Column Totals: <u>60</u> (A) <u>70</u> (B)		
-	-	•					
					Prevalence Index = B/A = <u>1.167</u>		
					Hydrophytic Vegetation Indicators:		
					✓ Dominance Test is > 50%		
		0			✓ Prevalence Index is $\leq$ 3.0		
	Total Cove	r: 0			Morphological Adaptations <sup>1</sup> (Provide supporting data in		
Herb Stratum       50% of Total Cover:       0       20% of Total Cover:       0       Remarks or on a separate sheet)							
1.	Carex laxa	30		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.		10		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Eriophorum russeolum	5		FACW	be present, unless disturbed or problematic.		
4.	Trichophorum caespitosum	10		OBL	Plot size (radius, or length x width) 10m		
5.	Carex stylosa	5		FACW			
6.		0			% Cover of Wetland Bryophytes <u>5</u> (Where applicable)		
		-			% Bare Ground		
					Total Cover of Bryophytes 10		
		0			Hydrophytic		
<b>Total Cover:</b> 60					Vegetation		
	50% of Total Cover:		6 of Total Cover:	12	Present? Yes  No		
Remarks: tr drorot eriang betnan andpol							

Profile Description: (Describe to	the depth nee <b>fatrix</b>	ded to docur		firm the ab		ators)			
Depth (inches) Color (mo		%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks	
	ISL)	-70		-70	Туре	LUC			
······································			,						
			p	-			·		
<sup>1</sup> Type: C=Concentration. D=	Depletion. F	RM=Reduc	ed Matrix <sup>2</sup> Location:	PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix		
Hydric Soil Indicators:	•		Indicators for Pro		-				
Histosol or Histel (A1)			Alaska Color Cha		4		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipedon (A2)			Alaska Alpine sv	vales (TAS	5)		Underlying Layer		
Hydrogen Sulfide (A4)			Alaska Redox W	ith 2.5Y F	lue	$\checkmark$	Other (Explain in Remark	s)	
Thick Dark Surface (A12)									
Alaska Gleyed (A13)							mary indicator of wetland h	ydrology,	
Alaska Redox (A14)			and an appropriate	andscap	e position n	nust be pro	esent		
Alaska Gleyed Pores (A15	5)		<sup>4</sup> Give details of col	lor change	e in Remark	S			
Restrictive Layer (if present):									
Type:							Hydric Soil Present	? Yes 🖲 No 🔿	
Depth (inches):							riyune son Fresene		
Remarks:	2222								
see note under determination	page								
HYDROLOGY									
Wetland Hydrology Indica	tors:						Secondary Indi	cators (two or more are required)	
Primary Indicators (any one i	s sufficient)						Water Stai	ned Leaves (B9)	
Surface Water (A1)			Inundation Vis	Inundation Visible on Aerial Imagery (B7)				Patterns (B10)	
High Water Table (A2)			Sparsely Vege	tated Cor	cave Surfac	e (B8)	_	hizospheres along Living Roots (C3)	
Saturation (A3)			Marl Deposits	• •				f Reduced Iron (C4)	
Water Marks (B1)			Hydrogen Sulf	ide Odor	(C1)		Salt Depos		
Sediment Deposits (B2)			Dry-Season W				_	Stressed Plants (D1)	
Drift Deposits (B3)			Other (Explain	in Rema	rks)			ic Position (D2)	
Algal Mat or Crust (B4)							_	uitard (D3)	
Iron Deposits (B5)							_	raphic Relief (D4)	
Surface Soil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)	
Field Observations:		$\cdots$							
Surface Water Present?	Yes 🖲		Depth (inches	): 2					
Water Table Present?	Yes $\bigcirc$	No 🔍	Depth (inches	):		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Present? (includes capillary fringe)	Yes $\bigcirc$	No 🖲	Depth (inches	):					

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks: