## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	_ Borough/City:	Matanuska-Susitna Borough Sampling	Date: 08-Aug-12
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW12_T44_04
Investigator(s): CTS, EKJ	Landform (hill	side, terrace, hummocks etc.): Lowland	
Local relief (concave, convex, none): flat	Slope:	% / 1.3 ° Elevation: 738	
Subregion : Interior Alaska Mountains Lat.	62.898198141	Long.: -148.471495651	Datum: NAD83
Soil Map Unit Name:		NWI classification:	PEM1F
	ear? Yes antly disturbed? y problematic?	<ul> <li>No (If no, explain in Remarks.</li> <li>Are "Normal Circumstances" present?</li> <li>(If needed, explain any answers in Ren</li> </ul>	Yes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map showing s	ampling point	locations, transects, important feat	ures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes ⊙ Yes ⊙	No () No ()	Is the Sampled Area	Yes $ e$ No $ e$
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?	res 🙂 no 🗢
Remarks:				

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

			۸he	olute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum			Cover	Species?	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			
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.				0			
		Total Cover		0			Prevalence Index worksheet: Total % Cover of: Multiply by:
San	ling/Shrub Stratum		0	20%	of Total Cover:	0	
							OBL Species         44.1         x 1 =         44.1           FACW Species         2.3         x 2 =         4.6
1.						FAC	
2.	Betula nana			2		FAC	
3.	Rhododendron tomentosum			0.1		FACW	
4.	Andromeda polifolia (IAM)			1		OBL	UPL Species <u>1</u> x 5 = <u>5</u>
5.	Vaccinium uliginosum			0.1		FAC	Column Totals: <u>56.6</u> (A) <u>81.30</u> (B)
6.	Empetrum nigrum			0.1		FAC	Prevalence Index = B/A = 1.436
7.				0			Prevalence Index = B/A = <u>1.436</u>
				0			Hydrophytic Vegetation Indicators:
				0			✓ Dominance Test is > 50%
				0			✓ Prevalence Index is $\leq 3.0$
		Total Cover	:	10.3			Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	b Stratum	50% of Total Cover:	5.15	20%	of Total Cover:	2.06	Remarks or on a separate sheet)
1.	Trichophorum alpinum			35	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Carex livida			3		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Swortia noronnia			1		FACW	be present, unless disturbed or problematic.
4.	Dodecatheon frigidum			1		FACW	Plot size (radius, or length x width)10m
5.	Solidago canadensis			1		UPL	
6.	Spiranthes romanzoffiana			0.1		OBL	% Cover of Wetland Bryophytes <u>15</u> (Where applicable)
7.	Carex limosa			3		OBL	% Bare Ground
8.	Eriophorum viridicarinatum			2		OBL	Total Cover of Bryophytes 15
9.	Triantha glutinosa			0.1		FACW	
10.	Parnassia palustris			0.1		FACW	Hydrophytic
		Total Cover	: _	46.3			Vegetation
		50% of Total Cover:	3.15	20%	of Total Cover:	9.26	Present? Yes $\bullet$ No $\bigcirc$
Rem	arks: Astalp, Utrint, Carrot,	Thaalp = 0.1 cover					

(inches) Color (	moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3		85					Fibric Organics	15% roots
3-16		90					Hemic Organics	10% roots
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								-
							-	
							p	
Type: C=Concentration.	D=Depletion.	RM=Reduce	d Matrix <sup>2</sup> Location	n: PL=Pore I	Lining. RC	=Root Cha	nnel. M=Matrix	
lydric Soil Indicators:			Indicators for Pro	oblematic H	Hvdric So	oils: <sup>3</sup>		
Histosol or Histel (A1)			Alaska Color Ch	4	ŧ,		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine s				Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox V		e		Other (Explain in Remar	ks)
Thick Dark Surface (A								
Alaska Gleyed (A13)			<sup>3</sup> One indicator of and an appropriat				nary indicator of wetland	hydrology,
Alaska Redox (A14)					•	·		
Alaska Gleyed Pores (	A15)		<sup>4</sup> Give details of co	olor change i	in Remark	S		
estrictive Layer (if presen	t):							
Туре:								
Type.							Hydric Soil Present	t? Yes 🔍 No 🔾
Depth (inches): emarks:							Hydric Soil Present	t? Yes 🖲 No 🔿
Depth (inches):							Hydric Soil Present	t? Yes ● No ∪
Depth (inches):							Hydric Soil Present	t? Yes ● No ∪
Depth (inches): emarks: YDROLOGY Vetland Hydrology Ind								icators (two or more are required)
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