## 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	Sampling Point: SW12_T28_08
Investigator(s): JGK	Landform (hillside, terrace, hummocks etc.): Shoreline
Local relief (concave, convex, none): flat	Slope: % / 0.3 ° Elevation: 714
Subregion : Interior Alaska Mountains Lat.	62.8720481223 Long.: -148.367175671 Datum: NAD83
Soil Map Unit Name:	NWI classification: PEM1E
	ar?       Yes        No        (If no, explain in Remarks.)         ntly disturbed?       Are "Normal Circumstances" present?       Yes        No          problematic?       (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes   No	

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No () No () No ()	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Remarks:				

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

			Abc	olute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum			over	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1.				0			
2.				0			Total Number of Dominant Species Across All Strata: 2 (B)
3.				0			Percent of dominant Species
4.				0			That Are OBL, FACW, or FAC: (A/B)
5.				0			Prevalence Index worksheet:
		Total Cover		0			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20% (	of Total Cover:	0	OBL Species <u>55</u> x 1 = <u>55</u>
1.				0			FACW Species <u>15</u> x 2 = <u>30</u>
-				0			FAC Species <u>0</u> x 3 = <u>0</u>
3.				0			FACU Species x 4 =
4.				0			UPL Species x 5 =
5.				0			Column Totals: 70 (A) <u>85</u> (B)
~				0			Prevalence Index = $B/A = 1.214$
7.				0			Prevalence Index = B/A = <u>1.214</u>
				0			Hydrophytic Vegetation Indicators:
9.				0			✓ Dominance Test is > 50%
				0			✓ Prevalence Index is $\leq$ 3.0
		Total Cover	·:	0			Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	<u>b Stratum</u>	50% of Total Cover:	0	20%	of Total Cover:	0	Remarks or on a separate sheet)
1.	Carex aquatilis			40	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Comarum palustre			15	$\checkmark$	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Calamagrostis stricta			10		FACW	be present, unless disturbed or problematic.
4.	Eriophorum russeolum			5		FACW	Plot size (radius, or length x width)10m
5.				0			% Cover of Wetland Bryophytes
6.				0			(Where applicable)
				0			% Bare Ground
				0			Total Cover of Bryophytes 25
				0			
				0			Hydrophytic
		Total Cover	:	70			Vegetation
		50% of Total Cover:	35	20% (	of Total Cover:	14	Present? Yes  No
Rem	arks:						

Depth	Matrix	<u> </u>		lox Features	pe <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
	oist)	%	Color (moist)	% Ту	pe <sup>1</sup> <u>Loc</u> <sup>2</sup>	Fibric Organics	Reliaiks
0-11							
,							
·			p			-	
			·				
			2				
<sup>1</sup> Type: C=Concentration. D	=Depletion. I	Reduce			-	annel. M=Matrix	
Hydric Soil Indicators:			Indicators for Pr	oblematic Hy	dric Soils: <sup>3</sup>		
Histosol or Histel (A1)			Alaska Color Ch	nange (TA4)		Alaska Gleyed Without	Hue 5Y or Redder
✓ Histic Epipedon (A2)			Alaska Alpine s		Г	Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox V	Vith 2.5Y Hue	L	Other (Explain in Rema	irks)
Thick Dark Surface (A12	.)		<sup>3</sup> One indicator of	hydrophytic ve	netation one pri	mary indicator of wetland	hydrology
Alaska Gleyed (A13)			and an appropriat				nydrology,
Alaska Redox (A14)			<sup>4</sup> Give details of co	olor change in F	emarks		
Alaska Gleyed Pores (A1	5)			bior change in i	Cinano		
Restrictive Layer (if present):							
Type: ice						Hydric Soil Preser	nt? Yes 🖲 No 🔾
Depth (inches): 11							
Remarks:	epipedon b	ut probably	a histosol because	of fibric nature	of soil.		
	c epipedon b	ut probably	a histosol because	of fibric nature	of soil.		
Remarks: Assume soil is at least a histic	c epipedon bi	ut probably	a histosol because	of fibric nature	of soil.		
Remarks: Assume soil is at least a histic		ut probably	a histosol because (	of fibric nature	of soil.	Secondary In	dicators (two or more are required)
Remarks: Assume soil is at least a histic	ators:	ut probably	a histosol because	of fibric nature	of soil.	Water St	ained Leaves (B9)
Remarks: Assume soil is at least a histic HYDROLOGY Wetland Hydrology Indica Primary Indicators (any one Surface Water (A1)	ators:	ut probably		of fibric nature		Water St	
Remarks: Assume soil is at least a histic HYDROLOGY Wetland Hydrology Indica Primary Indicators (any one Surface Water (A1) I High Water Table (A2)	ators:	ut probably	Inundation V Sparsely Veg	isible on Aerial etated Concave	Imagery (B7)	Water St	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
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