WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 21-Jun-12
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T33_05
Investigator(s): SLI, EKJ	Landform (hillside, terrace, hummocks etc.): Lowland
Local relief (concave, convex, none): hummocky	Slope: 0.0 % / 0.0 ° Elevation: 710
Subregion : Interior Alaska Mountains Lat.:	62.7836499089 Long.: -148.393479971 Datum: WGS84
Soil Map Unit Name:	NWI classification: PSS3B
	ar? Yes ● No ○ (If no, explain in Remarks.) htty disturbed? Are "Normal Circumstances" present? Yes ● No ○ problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locations, transects, important features, etc.

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.

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tre		% 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: 4 (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:
Sap	ling/Shrub Stratum 50% of Total Cover:	20%	of Total Cover:	0	OBL Species $2 \times 1 = 2$
1	Betula nana	5		FAC	FACW Species $25 \times 2 = 50$
1. 2.	Empotrum pigrum	10		FAC	FAC Species 37 x 3 = 111
2. 3.		10		FACW	FACU Species $1 \times 4 = 4$
3. 4					UPL Species $0 \times 5 = 0$
	Vaccinium vitis-idaea	7		FAC	
5.	Vaccinium uliginosum			FAC	Column Totals: <u>65</u> (A) <u>167</u> (B)
6.	Vaccinium oxycoccos			OBL	Prevalence Index = B/A = 2.569
	Andromeda polifolia (IAM)	1		OBL	
8.	Picea glauca	1		FACU	Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
		0			✓ Prevalence Index is ≤3.0
	Total Cover:	45			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:;	<u>2.5</u> 20%	of Total Cover:	9	Remarks or on a separate sheet)
1.	Carex bigelowii	10	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Rubus chamaemorus	7	\checkmark	FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Eriophorum russeolum	3		FACW	be present, unless disturbed or problematic.
4.		0			Plot size (radius, or length x width) 10m
		0			
		0			% Cover of Wetland Bryophytes (Where applicable)
		-			% Bare Ground
					Total Cover of Bryophytes 98
		0			<u></u>
		0			Hydrophytic
	Total Cover:	20			Vegetation
	50% of Total Cover: <u>1</u>	-	of Total Cover:	4	Present? Yes \odot No \bigcirc
Rem	arks: sphagnum and polytrichum dominate bryophyte	s.			·

	oist)	%	Color (n	noist)	%	Type ¹	Loc ²	Texture	Remarks
0-7		100						Fibric Organics	
7-18 10Y	3/1	89	10YR	4/4	10	C	PL	Sandy Clay	_ plus 1% lower value & chroma concentra
	· ·								
Type: C=Concentration. D	=Depletion	. RM=Reduc	ced Matrix	² Location	n: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix	
lydric Soil Indicators:			Indicat	ors for Pr	oblemati	Hydric S	oils: ³		
Histosol or Histel (A1) Histic Epipedon (A2)				ka Color Ch ka Alpine s		-		Alaska Gleyed Without H Underlying Layer	Hue 5Y or Redder
Hydrogen Sulfide (A4)			🗌 Alas	ka Redox V	Vith 2.5Y H	lue		Other (Explain in Remai	·ks)
Thick Dark Surface (A1: Alaska Gleyed (A13) Alaska Redox (A14)	2)			ndicator of appropriat				mary indicator of wetland esent	hydrology,
Alaska Gleyed Pores (A	15)		4 Give	details of co	olor chang	e in Remark	(S		
estrictive Layer (if present)	:								
Туре:								Hydric Soil Presen	t? Yes 🖲 No 🔾
Donth (inchoo)								,	
Depth (inches): emarks:									
YDROLOGY Vetland Hydrology Indic		t)		undation Vi	isible on A	erial Image	ry (B7)		icators (two or more are required) ined Leaves (B9) Patterns (B10)
YDROLOGY Yetland Hydrology Indic rimary Indicators (any one Surface Water (A1) Yetlah Water Table (A2)		t)	🗌 Sp	oarsely Vege	etated Cor	-		Secondary Inc Water Sta	icators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
YDROLOGY Yetland Hydrology Indic rimary Indicators (any one Surface Water (A1) Y High Water Table (A2) Y Saturation (A3)		t)	Sp Ma	oarsely Vege arl Deposits	etated Cor 6 (B15)	icave Surfa			licators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
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