WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 02-Aug-13
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW13_T162_04
Investigator(s): WAD, RWM	Landform (hillside, terrace, hummocks etc.): terrace
Local relief (concave, convex, none): concave	Slope:0.0 % /0.0 ° Elevation:1522
Subregion : Interior Alaska Mountains La	.:: 63.123669624 Long.: -148.106769085 Datum: WGS84
Soil Map Unit Name:	NWI classification: PMLE
	ear? Yes ● No ◯ (If no, explain in Remarks.) antly disturbed? Are "Normal Circumstances" present? Yes ● No ◯
Are Vegetation 🗋 , Soil 🗹 , or Hydrology 🗋 natural	y problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing s	ampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●		Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿	
Pomarka: toward increased in a system be		a aviainatina ahava			

Remarks: terrace impounding water below a spring originating above.

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 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 Cove	-	0			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species x 1 =
1.				0			FACW Species 0 x 2 = 0
				0			FAC Species <u>1</u> x 3 = <u>3</u>
3.				0			FACU Species 0 x 4 = 0
4.				0			UPL Species $0 \times 5 = 0$
5.				0			Column Totals: <u>8</u> (A) <u>10</u> (B)
				0			
				0			Prevalence Index = B/A = <u>1.250</u>
				0			Hydrophytic Vegetation Indicators:
				0			✓ Dominance Test is > 50%
				0			✓ Prevalence Index is ≤ 3.0
		Total Cove	r:	0			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum	50% of Total Cover:			of Total Cover:	0	Remarks or on a separate sheet)
1.	Eriophorum angustifolium		_	5	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Arctophila fulva			2	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex bigelowii		_	1		FAC	be present, unless disturbed or problematic.
4.			_	0			Plot size (radius, or length x width) <u>10m</u>
				0			
6.			_	0			% Cover of Wetland Bryophytes <u>95</u> (Where applicable)
				0			% Bare Ground
				0			Total Cover of Bryophytes
				0			
			_	0			Hydrophytic
		Total Cover	•	8			Vegetation
		50% of Total Cover:	4	20%	of Total Cover:	1.6	Present? Yes No
Rem	arks: bryophyte wet meado	ow with a few graminoids	5.				

	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
			·				
			·				
			·				
			·				
			·		·		
			·			=	
			·				
¹ Type: C=Con	centration. D=Deplet	ion. RM=Red	duced Matrix ² Locatio			nnel. M=Matrix	
lydric Soil In	dicators:		Indicators for P	roblematic Hydric S	isils: ³		
Histosol or	Histel (A1)		Alaska Color C	hange (TA4) ⁴		Alaska Gleyed Without Hu	e 5Y or Redder
Histic Epipe			Alaska Alpine	. ,		Underlying Layer	N
Hydrogen S			Alaska Redox	With 2.5Y Hue		Other (Explain in Remarks)
Alaska Gley	Surface (A12)					nary indicator of wetland hy	drology,
Alaska Gley			and an appropria	te landscape position	must be pre	esent	
_	ed Pores (A15)		⁴ Give details of c	olor change in Remar	ks		
estrictive Laye	(if present):						
	(
Type:						Hvdric Soil Present?	Yes 🔍 No 🔾
Depth (inche	es): soil, permanently flo	oded moss n	neadow.			Hydric Soil Present?	Yes 🔍 No 🔾
Depth (inche	-	oded moss n	neadow.			Hydric Soil Present?	Yes • No ·
Depth (inche temarks: ssumed hydric	soil, permanently flo	oded moss n	neadow.			Hydric Soil Present?	Yes • No ·
Depth (inche emarks: ssumed hydric YDROLO(Vetland Hydrid	soil, permanently flo SY ology Indicators:		neadow.			Secondary Indica	ators (two or more are required)
Depth (inche emarks: ssumed hydric YDROLO(Vetland Hydri Primary Indicat	soil, permanently flo SY Dlogy Indicators: ors (any one is suffic			licible on Assiel Imag		Secondary Indica	ators (two or more are required) ed Leaves (B9)
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spring water collecting on terrace