## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-13			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T143_11			
Invest	igator(s): WAD, RWM		Landform (hill	side, terrac	e, hummocks etc.): hillside			
	relief (concave, convex, none): flat		Slope:	% / 3.8	3 ° Elevation: 108			
Subre	gion : Interior Alaska Mountains	l at ·	63.220575809		Long.: -148.243720292 Datum: NAD83			
		Lut	03.220373003	<i></i>				
	ap Unit Name:		0 V	No ○	NWI classification: Upland			
Are \		significantl	y disturbed?	Are "N	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)			
				•				
SUM	MARY OF FINDINGS - Attach site map show	wing san	npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes   No C	)		41 0	mlad Ansa			
	Hydric Soil Present? Yes No •	)	Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes O No •	)	W	thin a W	etiand? Tes UNO U			
Rem	arks: dwarf shrub and graminoid meadow below hillcre	st.						
VEGI	ETATION - Use scientific names of plants. Li	•		•	Dominance Test worksheet:			
Tre	ee Stratum	Absolute % Cover		Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC:3(A)			
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Covers				Total % Cover of: Multiply by:			
Sap	pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species $0 \times 1 = 0$			
	Fanatrum nigrum	40	<b>✓</b>	FAC	FACW Species 1 x 2 = 2			
1.	Empetrum nigrum Salix reticulata	25		FAC	FAC Species 116 x 3 = 348			
3.	Vaccinium uliginosum	10		FAC	FACU Species 8 x 4 = 32			
4.	Betula nana	10		FAC	UPL Species 0 x 5 = 0			
5.	Vaccinium vitis-idaea	2		FAC				
	Saliv nulchra	1		FACW	Column Totals: <u>125</u> (A) <u>382</u> (B)			
7.	Salix pulcilla	0		-71011	Prevalence Index = B/A = 3.056			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
	Total Cover: 50% of Total Cover:		% of Total Cover	: 17.6	☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Festuca altaica	25	✓	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Anthoxanthum monticola ssp. alpinum	5		UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Solidago multiradiata			FACU	be present, unless disturbed or problematic.			
4.	Rhodiola integrifolia	3		FAC	Plot size (radius, or length x width)			
5.	Aconitum delphiniifolium			FAC	% Cover of Wetland Bryophytes			
6.					(Where applicable)			
					% Bare Ground			
7.		0			Total Cover of Bryophytes			
8. 9.								
8. 9.		0			Hydrophytic			
8. 9.		0 0 37		7.4	Hydrophytic Vegetation Present? Yes  No			

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SOIL Sampling Point: SW13\_T143\_11

Profile Description	75 Haraka	- 1 AL	1 1 1 a a a a a a		2 0	7: A:			
		the depth ne <b>Matrix</b>	eeded to docur	nent the indicator or co	nfirm the abser dox Feature		ors)		
Depth (inches)							Loc <sup>2</sup>	Texture	Remarks
0-1	Color (mo	ist)	<u>%</u>	Color (moist)	<u> </u>	туре	LOC	Fibric Organics	Kemarks
1-3	10YR	2/2	100					Silt Loam	
								Silt Loam	
3-5	7.5YR	3/2	100						
5-9	7.5YR	3/4	100					Silt Loam	
¹Type: C=Con	ncentration. D	=Depletion	. RM=Reduce	ed Matrix <sup>2</sup> Location	n: PL=Pore L	ining. RC=F	Root Cha	nnel. M=Matrix	
Hydric Soil In	ndicators:			Indicators for Pr	oblematic F	Hydric Soils	s:		
	Histel (A1)			Alaska Color Cl	4	, <sup>-</sup>		Alaska Gleyed Without Hu	e 5Y or Redder
Histic Epip	. ,			Alaska Alpine s	swales (TA5)			Underlying Layer	
	Sulfide (A4)			Alaska Redox V	With 2.5Y Hue	е		Other (Explain in Remarks	s)
☐ Thick Dark	Surface (A12	)		2					
Alaska Gle	yed (A13)			One indicator of and an approprial				nary indicator of wetland hy esent	drology,
Alaska Red	dox (A14)					•	.oc 50 p. c		
☐ Alaska Gle	yed Pores (A1	5)		<sup>4</sup> Give details of co	olor change ii	n Kemarks			
Restrictive Laye	er (if present):								
Type:								<b>Hydric Soil Present?</b>	Yes O No 💿
Depth (inch	nes):								
Remarks:									
no hydric soil in	ndicators obser	ved							
HYDROLO	GV.								
HYDROLO		itors:						Secondary Indic	ators (two or more are required)
Wetland Hydr	rology Indica		r)						ators (two or more are required)_
Wetland Hydr	rology Indicators (any one		t)	☐ Inundation V	isible on Aeri	ial Imagery	(B7)	Water Stain	ed Leaves (B9)
Wetland Hydr Primary Indicat	rology Indica tors (any one /ater (A1)		t)	☐ Inundation V				Water Stain  Drainage Pa	ed Leaves (B9) atterns (B10)
Wetland Hydr Primary Indicat	rology Indicators (any one /ater (A1) er Table (A2)		t)	☐ Inundation V ☐ Sparsely Veg ☐ Marl Deposit	etated Conca			Water Stain Drainage Pa Oxidized Rh	ed Leaves (B9)
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