## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-12		
Applica	nt/Owner: Alaska Energy Authority		Sampling Point: SW12_T41_04				
	gator(s): SLI, KMK	e, hummocks etc.): Hillside					
	elief (concave, convex, none): flat		- Slope: 17.6				
		l at :					
_	ion : Interior Alaska Mountains	Lat	62.800579907	9			
	p Unit Name:			<u> </u>	NWI classification: Upland		
Are V Are V	egetation . Soil . , or Hydrology . MARY OF FINDINGS - Attach site map show	significant naturally p wing sai	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.)  formal Circumstances" present? Yes ● No ○  ided, explain any answers in Remarks.)  ided, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ○ No ●				npled Area		
	Wetland Hydrology Present? Yes No •		wi	thin a W	/etland? Yes ○ No 🖲		
	arks:						
	TATION - Use scientific names of plants. Li	st all sp	e Dominant	plot. Indicator Status	Dominance Test worksheet:  Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC:5(A)		
2.		0			Total Number of Dominant Species Across All Strata: 6 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 83.3% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover	: <u> </u>	_		Total % Cover of: Multiply by:		
Sap	ing/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species 0 x 1 = 0		
1	Betula nana	20	<b>✓</b>	FAC	FACW Species 3 x 2 = 6		
2.	Vaccinium uliginosum	15		FAC	FAC Species 73 x 3 = 219		
	Picea glauca	2		FACU	FACU Species 10 x 4 = 40		
4.	Empetrum nigrum	10	✓	FAC	UPL Species 0 x 5 = 0		
5.	Vaccinium vitis-idaea	7		FAC	Column Totals: <u>86</u> (A) <u>265</u> (B)		
6.	Salix pulchra	3		FACW			
7.	Salix brachycarpa	5		FAC	Prevalence Index = B/A = 3.081		
8.	Betula glandulosa	10	✓	FAC	Hydrophytic Vegetation Indicators:		
9.	Arctostaphylos alpina	5		FACU	✓ Dominance Test is > 50%		
10.	Salix rotundifolia	1		FAC	Prevalence Index is ≤3.0		
Her	Total Cover  50% of Total Cover:		_ 0% of Total Cover	: 15.6	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
1.	Anthoxanthum monticola ssp. alpinum	3	$\checkmark$	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Carex bigelowii		✓	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.		0			be present, unless disturbed or problematic.		
4.		0	_		Plot size (radius, or length x width)		
5.		0	_ 🗀		% Cover of Wetland Bryophytes		
6.		0	_		(Where applicable)		
			- 📙		% Bare Ground		
8.			- 📙		Total Cover of Bryophytes 40		
			-				
10.			_		Hydrophytic		
1	Total Cover	88	_		Vegetation Present? Yes  No		
	50% of Total Cover:	4 209	% of Total Cover:	1.6	Present? Yes ♥ No ∪		

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SOIL Sampling Point: SW12\_T41\_04

								· • -	10 54412_141_04		
		he depth nee <b>1atrix</b>	ded to docur	ment the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (moi	st)	%	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-1								Fibric Organics			
1-3								Hemic Organics			
3-4								Sapric Organics			
4-6.5	7.5YR	3/2	100					Silt Loam			
6.5-16	10YR	4/2	70					Sandy Loam	30% subang gravels to cobbles		
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduc	ed Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pi	oblemati	c Hydric So	oils: <sup>3</sup>				
Histosol or	Histel (A1)			Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox \	Nith 2.5Y I	Hue		Other (Explain in Remark	rs)		
	Surface (A12)			3 One indicator of	hydrophy	tic vegetatio	n one prim	nary indicator of wetland h	vdrology		
Alaska Gle				and an appropria					ydrology,		
Alaska Red	, ,			4 Give details of c	olor chang	e in Remark	S				
Alaska Gle	yed Pores (A15	)									
Restrictive Laye	er (if present):										
Type:	200):							Hydric Soil Present	? Yes○ No •		
Depth (inch	ies):										
Remarks:											
no hydric soil ir	idicators, refus	al at 16in									
HYDROLO								0 1 7 11			
Wetland Hydi	tors (any one i								cators (two or more are required) ned Leaves (B9)		
		s sumciency		☐ Inundation V	/icible on A	erial Image	v (R7)		atterns (B10)		
☐ Surface Water (A1) ☐ High Water Table (A2)				Sparsely Veg		-			hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposit		icave Sarrae	.c (D0)		f Reduced Iron (C4)		
Water Marks (B1)				Hydrogen Su	. ,	(C1)		Salt Depos	its (C5)		
Sediment Deposits (B2)				☐ Dry-Season Water Table (C2)				Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Expla	in in Rema	ırks)		Geomorphi	ic Position (D2)		
Algal Mat	or Crust (B4)							Shallow Aq	uitard (D3)		
Iron Depo	sits (B5)							Microtopog	raphic Relief (D4)		
	oil Cracks (B6)						ı	☐ FAC-neutra	l Test (D5)		
Field Observa		V ()	N-								
Surface Water		Yes O		Depth (inche	<del>:</del> S):						
Water Table P		Yes O	No 🖭	Depth (inche	es):		Wetlar	nd Hydrology Presen	t? Yes O No 🖲		
Saturation Pre (includes capi		Yes O	No 💿	Depth (inche	ès):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hyd	Irology indicato	rs									

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