## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	et/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 06-Jul-13			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T115_01			
Invest	igator(s): JGK	ce, hummocks etc.): Toeslope						
	relief (concave, convex, none): hummocky	% / 0.5	5 ° Elevation: 941					
Subre	gion : Interior Alaska Mountains	l at ·	63.00496351					
		Lutii	03.00430331					
	ap Unit Name:		0 V	s ● No ○	NWI classification: PEM1B			
Are \	matic/hydrologic conditions on the site typical for thi  /egetation  , Soil  , or Hydrology   /egetation  , Soil  , or Hydrology	significan naturally	itly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.)  Normal Circumstances" present? Yes  No  eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map sl		mpling poin	t locations	s, transects, important features, etc.			
	· · · · · · · · · · · · · · · · · · ·	$\circ$	la la	the Com	voled Avec			
	,	$\circ$	Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes   No	$\circ$	W	itnin a w	retiand? res o no o			
	arks: <b>ETATION -</b> Use scientific names of plants	. List all sp	oecies in the	plot.				
		Absolut		Indicator	Dominance Test worksheet:			
	ee Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)			
1.		0	_		Total Number of Dominant			
2.		0	_		Species Across All Strata: 4 (B)			
3.					Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0	_		Prevalence Index worksheet:			
	Total Co				Total % Cover of: Multiply by:			
Sap	pling/Shrub Stratum 50% of Total Cover:	020	% of Total Cove	:0	OBL Species <u>37.2</u> x 1 = <u>37.2</u>			
1.	Betula nana	3	<b>✓</b>	FAC	FACW Species <u>8.1</u> x 2 = <u>16.20</u>			
2.	Loiseleuria procumbens			FACU	FAC Species <u>12.1</u> x 3 = <u>36.30</u>			
3.	Vaccinium uliginosum	5		FAC	FACU Species 2 x 4 = 8			
4.	Salix pulchra	3	_	FACW	UPL Species0 x 5 =0			
5.	Andromeda polifolia (IAM)	2		OBL	Column Totals: <u>59.4</u> (A) <u>97.7</u> (B)			
6.	Dasiphora fruticosa	2		FAC	Prevalence Index = B/A = 1.645			
7.		0	_		1 Tevalence index – B/A – 1.043			
8.		_			Hydrophytic Vegetation Indicators:			
9.		0	-		✓ Dominance Test is > 50%			
10.		0	_		✓ Prevalence Index is ≤3.0			
He	<b>Total Co rb Stratum</b> 50% of Total Cover:		0% of Total Cove	er: 3.4	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Trichophorum caespitosum	35		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Carex spectabilis			FACW	Indicators of hydric soil and wetland hydrology must			
3.	Tofieldia pusilla		-	FAC	be present, unless disturbed or problematic.			
4.	Eriophorum angustifolium			OBL	Plot size (radius, or length x width)			
5.	Festuca altaica	0.1		FAC	% Cover of Wetland Bryophytes			
6.	Carex atrafuaca	0.1		FACW	(Where applicable)			
7.	Carex atrofusca			PACW	% Bare Ground 40			
8.			-		Total Cover of Bryophytes			
			- 📙					
10.	Total Co				Hydrophytic Vegetation			
	iotai co							
	50% of Total Cover:	21.2 20	% of Total Cove	r: 8.48	Present? Yes • No •			

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SOIL Sampling Point: SW13\_T115\_01

		the depth ne	eded to docume	ent the indicator or co	onfirm the abs		cators)				
Depth (inches)	Color (mo		%	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-3								Fibric Organics			
3-7	7.5YR	2.5/2						Coarse Sandy Clay Loam			
7-8	10YR	3/2						Coarse Sandy Silt Loam			
8-14								Fine gravel with angular co			
¹Type: C=Cor	ncentration. D=	-Depletion.	RM=Reduced	d Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblematio	c Hydric So	oils: <sup>3</sup>				
Histosol o	r Histel (A1)		I	☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder							
	pedon (A2)		I	Alaska Alpine s	swales (TA	5)		Underlying Layer			
	Sulfide (A4)		-	Alaska Redox \	With 2.5Y F	lue	<b>✓</b>	Other (Explain in Remark	5)		
Thick Dark	k Surface (A12)	)									
Alaska Gle	eyed (A13)			<sup>3</sup> One indicator of and an appropria	i hydrophyt te landscar	ic vegetation	on, one prin	mary indicator of wetland hy	/drology,		
Alaska Red	dox (A14)					•	•	CSCIIC			
	eyed Pores (A1			<sup>4</sup> Give details of c	olor change	e in Remark	ks				
Restrictive Laye	er (if present):										
Type: ice	4.4							Hydric Soil Present?	? Yes • No O		
Depth (inch	nes): 14										
	•										
HYDROLO	GY										
Wetland Hyd	rology Indica	tors:						Secondary Indic	cators (two or more are required)		
Primary Indica	itors (any one i	s sufficient	.)						ned Leaves (B9)		
Surface W	. ,			Inundation V	isible on A	erial Image	ery (B7)	☐ Drainage Pa	atterns (B10)		
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)					nizospheres along Living Roots (C3)		
✓ Saturation				Marl Deposits (B15)					f Reduced Iron (C4)		
	Water Marks (B1)				Hydrogen Sulfide Odor (C1)				ts (C5)		
Sediment Deposits (B2)				☐ Dry-Season					Stressed Plants (D1)		
Drift Depo	,			Other (Expla	in in Rema	rks)			c Position (D2)		
	or Crust (B4)							✓ Shallow Aq	` '		
☐ Iron Depo	. ,							☐ Microtopog  ✓ FAC-neutral	raphic Relief (D4)		
Field Observa	oil Cracks (B6)						1	▼ FAC-Heuu a	ופגנ (טט)		
Surface Water		Ves (	No ●	Depth (inche	nc).						
					•		*****	1 Mardardan Dunanan	V (A) Na (		
Water Table P			No O	Depth (inche	es): 9		Wetiai	nd Hydrology Present	t? Yes • No O		
Saturation Pre (includes capi		Yes 🕑	No O	Depth (inche	es): 3						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											

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