## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 03-Aug-13								
Applica	nt/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T173_03								
	gator(s): BAB		Landform (hillside, terrace, hummocks etc.): Saddle										
	elief (concave, convex, none): hummocky		Slope: 14.0 % / 8.0 ° Elevation: 1142										
	·	l ot :											
_	ion : Interior Alaska Mountains	Lal	63.1649421249 Long.: -148.266743654 Datum: WGS84										
	p Unit Name:			<u> </u>	NWI classification: Upland								
Are V		significantly naturally pr	y disturbed? oblematic?	(If nee	(If no, explain in Remarks.)  Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)  s, transects, important features, etc.								
	Hydrophytic Vegetation Present? Yes ○ No ● Hydric Soil Present? Yes ○ No ● Wetland Hydrology Present? Yes ○ No ●	ı	Is the Sampled Area within a Wetland? Yes ○ No ●										
	Remarks: plot in sdet there are patches of graminoid rich scattered around												
VEGE	TATION - Use scientific names of plants. Lis				Dominance Test worksheet:  Number of Dominant Species								
1.		0			That are OBL, FACW, or FAC: 2 (A)								
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)								
3.		0			Percent of dominant Species								
4.		0			That Are OBL, FACW, or FAC: 50.0% (A/B)								
5.		0			Prevalence Index worksheet:								
	Total Cover:				Total % Cover of: Multiply by:								
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species0 x 1 =0								
1.	Ledum decumbens	2		FACW	FACW Species 4 x 2 = 8								
2.	Dryas octonetala	5		UPL	FAC Species 39.2 x 3 = 117.6								
3.	Empetrum nigrum	30	<b>✓</b>	FAC	FACU Species 24.3 x 4 = 97.20								
4.	Salix reticulata			FAC	UPL Species 6 x 5 = 30								
5.	Salix arctica	1		FACU									
6.	Vaccinium vitis-idaea	1		FAC	Column Totals: <u>73.5</u> (A) <u>252.8</u> (B)								
	Cassiope tetragona	20	<u></u>	FACU	Prevalence Index = B/A = 3.439								
8.	Vaccinium uliginosum	1		FAC	Hydrophytic Vegetation Indicators:								
	Salix pulchra	1		FACW	Dominance Test is > 50%								
10.	Cam. parema	0			☐ Prevalence Index is ≤3.0								
	Total Cover: 50% of Total Cover:		6 of Total Cover	: 12.6	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)								
1.	Anthoxanthum monticola ssp. alpinum	1		FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)								
2.	Anemone narcissiflora	2	<b>✓</b>	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must								
3.	Festuca altaica	5	<b>✓</b>	FAC	be present, unless disturbed or problematic.								
4.	Antennaria alpina	0.1		FACU	Distriction (and its and another social tits)								
5.	Poa alpina	0.1		FACU	Plot size (radius, or length x width) 10m								
6.	Senecio hyperborealis	1		UPL	% Cover of Wetland Bryophytes (Where applicable)								
7.	Carex atrofusca	1		FACW	% Bare Ground3								
8.	Bistorta vivipara	0.1		FAC	Total Cover of Bryophytes 10								
9.	Gentiana glauca	0.1		FAC									
10.	Pyrola asarifolia	0.1		FACU	Hydrophytic								
	Total Cover:		Vegetation										
	50% of Total Cover:5	.25 20%	of Total Cover:	2.1	Present? Yes No •								
Rem	arks: bryophytes 50/50 moss lichen pedcap trace collected												

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SOIL Sampling Point: SW13\_T173\_03

		the depth ne	eeded to docu	ment the indicator or co	onfirm the ab		cators)					
Depth (inches) Color (mo		oist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	- Texture	Remarks			
0-3			100	COIOI (IIIOIDE)		.,,,,		Hemic Organics	w some mineral. ang to semi ang grvl 2 co			
3-19	10YR	3/3	100					Sandy Loam	ang to semi ang gravel to cobbles			
									ang to semi-ang graver to cossies			
					-							
								-				
<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil I	ndicators:			Indicators for P	roblematio	c Hydric So	oils: <sup>3</sup>					
Histosol or	r Histel (A1)			Alaska Color C	hange (TA	4 1)		Alaska Gleyed Without Hue 5Y or Redder				
	edon (A2)			Alaska Alpine s	swales (TA	5)		Underlying Layer				
	Sulfide (A4)			Alaska Redox	With 2.5Y H	lue		Other (Explain in Remark	ss)			
	s Surface (A12	)										
Alaska Gle	-	,		<sup>3</sup> One indicator of and an appropria	hydrophyt	ic vegetatio	on, one prin	nary indicator of wetland h	ydrology,			
Alaska Red	, , ,					•		esent				
	eyed Pores (A1	5)		<sup>4</sup> Give details of c	olor chang	e in Remark	(S					
Restrictive Laye	er (if present):											
Type:								<b>Hydric Soil Present</b>	? Yes ○ No •			
Depth (inch	nes):											
no hydric soil ir	idicators obse	iveu										
HYDROLO	GY											
Wetland Hyd		ators:						Secondary Indi	cators (two or more are required)			
Primary Indica	itors (any one	is sufficient	t)					Water Stained Leaves (B9)				
☐ Surface W	Vater (A1)			☐ Inundation \	/isible on A	erial Image	ry (B7)	y (B7) Drainage Patterns (B10)				
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)			
☐ Saturation (A3)			Marl Deposits (B15)				Presence of	of Reduced Iron (C4)				
☐ Water Marks (B1)				Hydrogen Sulfide Odor (C1)				☐ Salt Depos	its (C5)			
Sediment Deposits (B2)				Dry-Season Water Table (C2)				Stunted or	Stressed Plants (D1)			
☐ Drift Depo	Other (Expla	in in Rema	rks)		Geomorph	ic Position (D2)						
Algal Mat	or Crust (B4)							Shallow Ac	juitard (D3)			
☐ Iron Deposits (B5)								Microtopog	graphic Relief (D4)			
Surface S	oil Cracks (B6)	)						FAC-neutra	l Test (D5)			
Field Observa	ations:											
Surface Water	r Present?	Yes 🤇	No 💿	Depth (inche	es):							
Water Table F	Present?	Yes C	No 💿	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes O No 💿			
Saturation Pre		Yes C	No •	Depth (inche	es):							
		eam gauge,	monitor we	II, aerial photos, pre	vious inspe	ection) if ava	ailable:					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
no wetland hydrology indicators observed												

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