## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 30-Jul-13						
Applica	ant/Owner: Alaska Energy Authority			Sampling Point: SW13_T172_01							
Investigator(s): WAD, RWM Landform (hillside, terrace, hummocks etc.): Knob											
	relief (concave, convex, none): convex		Slope:	% / 9.1	-						
	gion : Interior Alaska Mountains	l at ·	- · <u></u> 63.266399502		Long.: -148.257249833 Datum: NAD83						
	p Unit Name:	Lut	03.200399302	.9	NWI classification: Upland						
	natic/hydrologic conditions on the site typical for this t	ima af ua	v-2 Vos	● No ○	(If no, explain in Remarks.)						
Are V	regetation ☐ , Soil ☐ , or Hydrology ☐	significan naturally	tly disturbed? problematic?	Are "N (If nee	lormal Circumstances" present? Yes  No Oeded, explain any answers in Remarks.)						
	Hydrophytic Vegetation Present? Yes   No	)	_								
	Hydric Soil Present? Yes No	•			npled Area						
	Wetland Hydrology Present? Yes O No		wi	thin a W	a Wetland? Yes ○ No ●						
Rema	arks: dwarf shrub clearning amid hillside of betnan										
	ETATION - Use scientific names of plants. L	ist all sp  Absolute % Cove	e Dominant	plot. Indicator Status	Dominance Test worksheet:  Number of Dominant Species						
1.	- Stratam	0			That are OBL, FACW, or FAC: (A)						
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: 100.0% (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 Species 0 x 1 = 0						
1	Empetrum nigrum	35	<b>✓</b>	FAC	FACW Species 5.1 x 2 = 10.2						
2.	Arctous ruber	15		FAC	FAC Species 70 x 3 = 210						
3.	Vaccinium uliginosum	10		FAC	FACU Species 9 x 4 =36						
4.	Rhododendron tomentosum	5		FACW	UPL Species0 x 5 =0						
5.	Betula nana	5		FAC	Column Totals: <u>84.1</u> (A) <u>256.2</u> (B)						
6.	Vaccinium vitis-idaea	5		FAC							
7.	Loiseleuria procumbens	5		FACU	Prevalence Index = B/A = 3.046						
8.		0	_ 🖳		Hydrophytic Vegetation Indicators:						
			_		✓ Dominance Test is > 50%						
10.		0	_		☐ Prevalence Index is ≤3.0						
	<b>Total Cover b Stratum</b> 50% of Total Cover:			: 16	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)						
					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)						
	Anthoxanthum monticola ssp. alpinum			UPL FACU							
	Spinulum annotinum Pedicularis labradorica		-	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
_	Pedicularis labradorica		-	TACW							
			- 🗀	-	Plot size (radius, or length x width)						
					% Cover of Wetland Bryophytes (Where applicable)						
					% Bare Ground						
7.					Total Cover of Bryophytes 5						
		-			, , , , , , , , , , , , , , , , , , , ,						
8.											
8. 9.			_		Hydrophytic						
8. 9.		0 0 4.1		0.82	Hydrophytic Vegetation Present? Yes  No						

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SOIL Sampling Point: SW13\_T172\_01

										101111.01111111111111111111111111111111		
Profile Descripti	on: (Describe to	the depth ne <b>Matrix</b>	eded to docu	ment the inc		firm the ab ox Featu		ators)				
Depth (inches) Color (			%	Color (moist)			Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-2	COIOI (IIIC	ist)	100	Coloi (II	ioist)		Туре	LUC	Fibric Organics			
2-4	10YR	2/1	70	7.5YR	3/2	30		M	Hemic Organics	mixed matrix organic plus loamy sand in pa		
4-7	7.5YR	3/4	100						Sand			
7-11	10YR	3/2	100						Sand			
		3/2							Coarse Sand			
11-18			100						Codise Salia			
<sup>1</sup> Type: C=Cor	centration. D	=Depletion.	RM=Reduc	ced Matrix	<sup>2</sup> Location:	PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blemati	c Hydric So	oils: <sup>3</sup>				
Histosol or	Histel (A1)				ka Color Cha		4		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alasl	ka Alpine sw	vales (TA	5)	Underlying Layer				
Hydrogen	Sulfide (A4)			Alasl	ka Redox W	ith 2.5Y H	Hue		Other (Explain in Remark	s)		
Thick Dark	Surface (A12	)		3 One in	adicator of h	n (droph) d	ic vogotatio	n one prin	mary indicator of wetland h	vdrology		
Alaska Gle							ne position r			ydrology,		
Alaska Red	` '	_,		4 Give o	letails of col	or chang	e in Remark	'S				
☐ Alaska Gle	yed Pores (A1	5)				or charry						
Restrictive Laye	er (if present):											
Type:									Hydric Soil Present	? Yes ○ No •		
Depth (inch	ies):											
Remarks:												
no hydric soil in	idicators obser	ved										
<b>HYDROLO</b>	GY											
Wetland Hydi	rology Indica	itors:							Secondary India	cators (two or more are required)		
Primary Indica	tors (any one	is sufficient	)						Water Stained Leaves (B9)			
Surface W	` ,						erial Image	, , ,		atterns (B10)		
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				ce (B8)		hizospheres along Living Roots (C3)		
Saturation (A3)				<ul><li>☐ Marl Deposits (B15)</li><li>☐ Hydrogen Sulfide Odor (C1)</li></ul>						f Reduced Iron (C4)		
Water Mai	rks (B1) Deposits (B2)								☐ Salt Depos	Stressed Plants (D1)		
Drift Depo	' '				y-Season W					c Position (D2)		
	or Crust (B4)			□ 00	her (Explain	і ІІІ Кепіа	rks)		Shallow Aq			
☐ Iron Depo										raphic Relief (D4)		
	oil Cracks (B6)								FAC-neutra			
Field Observa												
Surface Water	Present?	Yes C	No 💿	De	epth (inches	): 0						
Water Table P	resent?	Yes C	No 💿	De	epth (inches	): 0		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre	sent?	Voc C	No •		epth (inches	•						
(includes capil	llary fringe)	165 0	NO O	De	epur (inches	): 0						
Describe Record	ded Data (stre	am gauge,	monitor we	ell, aerial p	hotos, previ	ous inspe	ection) if ava	ailable:				
Remarks:												
no hydrology indicators observed												

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