## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroeled	ctric Project	Во	rough/City:	Matanusk	a-Susitna Borough Sampling Date:	11-Jul-13				
Applicant/Owner: Alaska Energy Author	itv		Sampling Point: SW13_T139_12							
Investigator(s): WAD, BAB	,	L	Landform (hillside, terrace, hummocks etc.): Bench							
	oncave		Slope: 3.5 % / 2.0 ° Elevation: 412							
Subregion: Southcentral Alaska			2.816052318			atum: WGS84				
		Lat 0	2.010002310	<u> </u>						
Soil Map Unit Name:				<u> </u>	NWI classification: PFO4B					
	Hydrology  sign Hydrology  na n site map showi	gnificantly aturally pro	disturbed? blematic?	(If nee	(If no, explain in Remarks.) formal Circumstances" present?  Yes ( ded, explain any answers in Remarks.)  to the control of th					
Hydrophytic Vegetation Present?	Yes • No O		Is the Sampled Area							
Hydric Soil Present?										
Wetland Hydrology Present?	Yes ⊙ No ○		within a Wetland? Yes ● No ○							
Remarks: black spruce forest in a trough parallel to peatland complex. photo num 1295,1296 nhoto time 1518										
VEGETATION - Use scientific nam	es of plants. List	t all spec	ies in the	plot.						
		Absolute	Dominant	Indicator	Dominance Test worksheet:					
Tree Stratum		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:	5 (A)				
Picea mariana		40	<b>✓</b>	FACW	Total Number of Dominant					
2		0			Species Across All Strata:	5 (B)				
3		0			Percent of dominant Species					
4		0			That Are OBL, FACW, or FAC: 1	00.0% (A/B)				
5		0			Prevalence Index worksheet:					
	Total Cover:	40			Total % Cover of: Multiply I	oy:				
Sapling/Shrub Stratum 50%	of Total Cover: 20	0 20% c	of Total Cover:	8	OBL Species 5 x 1 =	5				
Vaccinium uliginosum		15	✓	FAC	FACW Species 78 x 2 =	156				
2. Rubus chamaemorus		25	<b>✓</b>	FACW	FAC Species <u>35</u> x 3 =	105				
2 Lodum groonlandigum		5		FAC	FACU Species 10 x 4 =	40				
4 =		5		FAC	UPL Species0 x 5 =	0				
5. Picea mariana		10	✓	FACW	Column Totals: 128 (A)	306 (B)				
6. Vaccinium vitis-idaea		5		FAC						
7. Andromeda polifolia		3		FACW	Prevalence Index = B/A =	2.391				
8. Betula nana		5		FAC	Hydrophytic Vegetation Indicators:					
9. Menziesia ferruginea		10		FACU	✓ Dominance Test is > 50%					
10		0			✓ Prevalence Index is ≤3.0					
	Total Cover: of Total Cover: 42	<u>83</u> 1.5 20%		: 16.6	Morphological Adaptations <sup>1</sup> (Provide s Remarks or on a separate sheet)					
		5	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation 1					
2		0			<sup>1</sup> Indicators of hydric soil and wetland hydro	logy must				
3					be present, unless disturbed or problematic	<u>.</u>				
4					Plot size (radius, or length x width)	_10m				
5					% Cover of Wetland Bryophytes					
6					(Where applicable)					
7					% Bare Ground					
8					Total Cover of Bryophytes					
9										
10		<u> </u>			Hydrophytic					
500/		Vegetation Present? Yes ● No ○								
50%	of Total Cover: 2.	5 20% C	ı rotal Cover:	1						
Remarks:										

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SOIL Sampling Point: SW13\_T139\_12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)											
Depth		latrix	— —		dox Featu			. <u>.</u> .			
(inches)	Color (moi	st)		Color (moist)	_%_	Type <sup>1</sup>	<u>Loc</u> 2	Texture	Remarks		
0-6			100					Fibric Organics			
6-12			100					Hemic Organics			
			— —								
¹Type: C=Co	ncentration. D=	Depletion. F	Reduced	d Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix			
Hydric Soil I	Indicators:			Indicators for Pr	roblemati	c Hydric S	oils:				
Histosol o	or Histel (A1)		ſ	Alaska Color C		4		Alaska Gleyed Without Hu	ue 5Y or Redder		
l —	pedon (A2)		ſ	Alaska Alpine s	swales (TA!	5)	_	Underlying Layer			
	Sulfide (A4)		ſ	Alaska Redox \	With 2.5Y I	Hue		Other (Explain in Remark	s)		
	k Surface (A12)										
	eyed (A13)			<sup>3</sup> One indicator of and an appropriate				nary indicator of wetland h	ydrology,		
Alaska Re				апи ан арргорна	te idilusca <sub>k</sub>	e position i	Must be pre	eseni			
	eyed Pores (A15	)		4 Give details of o	olor change	e in Remark	<b>(S</b>				
Restrictive Lay	er (if present):										
Type:								Hydric Soil Present	? Yes 💿 No 🔾		
Depth (incl	hes):										
HYDROLO	OGY								_		
	Irology Indicat	ors:						Secondary Indic	cators (two or more are required)		
_	ators (any one is								ned Leaves (B9)		
Surface V	Water (A1)			☐ Inundation V	√isible on A	erial Image	ery (B7)	☐ Drainage P	atterns (B10)		
<b>✓</b> High Wat	er Table (A2)			Sparsely Veg	jetated Cor	ncave Surfa	ce (B8)	Oxidized RI	nizospheres along Living Roots (C3)		
✓ Saturation	n (A3)			Marl Deposit				Presence o	f Reduced Iron (C4)		
☐ Water Ma	arks (B1)			Hydrogen Su	ulfide Odor	(C1)		Salt Deposi	ts (C5)		
Sediment	t Deposits (B2)			Dry-Season \	Water Tabl	ie (C2)		Stunted or	Stressed Plants (D1)		
☐ Drift Dep	osits (B3)			Other (Expla	in in Rema	irks)		Geomorphi	c Position (D2)		
Algal Mat	t or Crust (B4)							Shallow Aq			
Iron Depo	osits (B5)							_	raphic Relief (D4)		
	Soil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)		
Field Observa											
Surface Wate	r Present?	Yes O		Depth (inche	es):						
Water Table F	Present?	Yes 💿	No $\bigcirc$	Depth (inche	es): 4		Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾		
Saturation Pro (includes capi		Yes	No $\bigcirc$	Depth (inche	es): 2						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											

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