## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Bc	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Jul-13							
Applica	nt/Owner: Alaska Energy Authority		Sampling Point: SW13_T114_06									
Investigator(s): WAD, BAB Landform (hillside, terrace, hummocks etc.): Bench												
	elief (concave, convex, none): flat	;	Slope: 0.0	%/ 0.0								
	ion : Interior Alaska Mountains	Lal 0	2.781776786	)								
	p Unit Name:				NWI classification: Upland							
Are V Are V		significantly naturally pro	disturbed? blematic?	(If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)							
	Hydrophytic Vegetation Present? Yes $\bigcirc$ No $\bigcirc$ Hydric Soil Present? Yes $\bigcirc$ No $\bigcirc$	pled Area										
	· · · · · · · · · · · · · · · · · · ·				Wetland? Yes $\bigcirc$ No $\bigcirc$							
	Wetland Hydrology Present? Yes 🔿 No 🖲	)										
Rem	arks: bench on north side of steep south facing bluff. photo num 1031,1032 nhoto time 1444	black spruc	ce forest									
VEGE	<b>TATION</b> - Use scientific names of plants. Li	st all spec	cies in the	plot.								
Tre	Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species							
1.	Picea mariana	35		FACW	That are OBL, FACW, or FAC: (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: <u>75.0%</u> (A/B)							
5.		0			Prevalence Index worksheet:							
	Total Cover:	35			Total % Cover of: Multiply by:							
Sap	ing/Shrub Stratum 50% of Total Cover: 1	<u>17.5</u> 20% c	of Total Cover:	7	OBL Species $0 \times 1 = 0$							
1	Picea mariana	5		FACW	FACW Species $55 \times 2 = 110$							
2.	Vaccinium uliginosum	25		FAC	FAC Species <u>63</u> x 3 = <u>189</u>							
3.	Vaccinium vitis-idaea	20	<ul><li>✓</li></ul>	FAC	FACU Species $4 \times 4 = 16$							
4.	Ledum decumbens	15		FACW	UPL Species $0 \times 5 = 0$							
5.	Empetrum nigrum	8		FAC								
6.	Rosa acicularis	2		FACU	Column Totals: <u>122</u> (A) <u>315</u> (B)							
7.	Betula glandulosa	10		FAC	Prevalence Index = B/A =							
8.		0			Hydrophytic Vegetation Indicators:							
		0			✓ Dominance Test is > 50%							
		0			✓ Prevalence Index is ≤3.0							
	Total Cover:	85			Morphological Adaptations <sup>1</sup> (Provide supporting data in							
Her	50% of Total Cover:	42.5 20%	of Total Cover	: 17	Remarks or on a separate sheet)							
1.	Geocaulon lividum	2	$\checkmark$	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)							
2.		0			<sup>1</sup> Indicators of hydric soil and wetland hydrology must							
					be present, unless disturbed or problematic.							
					Plot size (radius, or length x width) <u>10m</u>							
		-			% Cover of Wetland Bryophytes							
6.					(Where applicable)							
					% Bare Ground							
					Total Cover of Bryophytes 35							
9.		•										
		0			Hydrophytic							
	<b>Total Cover:</b> 50% of Total Cover:		of Total Cover	0.4	Vegetation Present? Yes • No O							

	ion: (Describe to the depth needed to docu Matrix			ument the indicator or confirm the absence of indicators) Redox Features				ators)			
Depth (inches)	Color (moist)		%	Color (moist)		%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-1			100						Fibric Organics		
1-2			100						Hemic Organics	-	
2-4			100						Sapric Organics	buried charcoal at base of organic layer	
4-6	7.5YR	4/6	60	5YR	3/3	40	RM	М	Silt Loam		
6-8	7.5YR	4/6	100						Sand		
1					2						
Type: C=Con	centration. D	=Depletion.	. RM=Redu				-		annel. M=Matrix		
Hydric Soil Ir							c Hydric So	oils:	7		
	Histel (A1)				Alaska Color Change (TA4)			L	Alaska Gleyed Without Hue 5Y or Redder		
Histic Epipe	edon (A2)				Alaska Alpine swales (TA5)				Underlying Layer		
	Sulfide (A4)				ka Redox V	Vith 2.5Y F	lue		Other (Explain in Remar	KS)	
	Surface (A12	)		<sup>3</sup> One i	ndicator of	hvdrophvt	ic vegetatio	n, one prij	mary indicator of wetland	hvdroloav.	
Alaska Gley							pe position i			.,	
Alaska Red	. ,			4 Give	details of co	olor change	e in Remark	~c			
Alaska Gle	yed Pores (A1	5)		Give				5			
Restrictive Laye	r (if present):										
Type: none						Hydric Soil Present? Yes $\bigcirc$ No $oldsymbol{igodol}$					
Depth (inch	es):										
Remarks:											
no hydric soil in	dicators										
HYDROLO	GY										
Wetland Hydr		ators:							Secondary Ind	icators (two or more are required)	
Primary Indicat							ined Leaves (B9)				
Surface W	Inundation Visible on Aerial Imagery (B7)				ry (B7)	Drainage	Patterns (B10)				
🗌 High Wate	Sparsely Vegetated Concave Surface (B8)				ce (B8)	Oxidized F	Rhizospheres along Living Roots (C3)				
Saturation (A3)				Marl Deposits (B15)					Presence of Reduced Iron (C4)		
🗌 Water Mar	Hydrogen Sulfide Odor (C1)					Salt Deposits (C5)					
Sediment Deposits (B2)					Dry-Season Water Table (C2)				Stunted or Stressed Plants (D1)		
Drift Deposits (B3)				Other (Explain in Remarks)					Geomorphic Position (D2)		
Algal Mat or Crust (B4)					, p		,		Shallow A	quitard (D3)	
Iron Depo							graphic Relief (D4)				
Surface Sc	oil Cracks (B6)	)								al Test (D5)	
Field Observa	. ,										
Surface Water		Yes C	No 🖲	D	epth (inche	s):					
Water Table P	resent?	Yes C	) No 🖲	D	epth (inche	s):		Wetla	nd Hydrology Preser	nt? Yes 🔿 No 🖲	
Saturation Pre (includes capil		Yes C	) No 🖲	D	epth (inche	s):					

Remarks:

no hydrology indicators observed

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: