## WETLAND DETERMINATION DATA FORM - Alaska Region

rojeci	/Site: Susitna-Watana Hydroelectric Project	B	Borough/City: Matanuska-Susitna Borough Sampling Date: 04-Jul-13				
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T122_02		
nvesti	gator(s): SLI, SCB		Landform (hil	lside, terrac	e, hummocks etc.): Terrace		
_ocal r	elief (concave, convex, none): hummock		Slope: 2.0	% / 1.1	° Elevation: 732		
Subrec	jion : Interior Alaska Mountains	Lat ·	 62.85889613		Long.: -148.491672039 Datum: WGS84		
	p Unit Name:		02.00000010		NWI classification: PSS1/EM1B		
	•	time of voor	) Voc	● No ○			
	natic/hydrologic conditions on the site typical for this regetation $\ \square$ , Soil $\ \square$ , or Hydrology $\ \square$		disturbed?		(If no, explain in Remarks.)  ormal Circumstances" present? Yes ● No ○		
	regetation ☐ , Soil ☐ , or Hydrology ☐	naturally pr			eded, explain any answers in Remarks.)		
				`	, , , , , , , , , , , , , , , , , , , ,		
SUMI	MARY OF FINDINGS - Attach site map she	owing sam	pling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes   No	0	_				
	Hydric Soil Present? Yes   No	$\circ$			npled Area		
	Wetland Hydrology Present? Yes   No	$\circ$	w	ithin a W	etland? Yes   No		
Dom	, ,,		-bbd				
Keiii	arks. pnoto time1030, pnoto #11/3-11/6, ngmss, t	transitional sa	aturated com	munity betw	veen pem1e and mesic (upl?) birch community upslope		
/EGE	<b>ETATION</b> - Use scientific names of plants.	List all spe	cies in the	plot.			
		Alexadesta	Daminant		Dominance Test worksheet:		
Tre	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC:5(A)		
2.		0			Total Number of Dominant Species Across All Strata: 5 (B)		
3.					Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cove	er: <u> </u>			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species 20 x 1 = 20		
1	Vaccinium uliginosum	30	<b>✓</b>	FAC	FACW Species 30 x 2 = 60		
2.	Betula nana	30	<b>✓</b>	FAC	FAC Species		
3.	Ledum decumbens		<b>✓</b>	FACW	FACU Species0 x 4 =0		
4.	Vaccinium vitis-idaea	10		FAC	UPL Species <u>0</u> x 5 = <u>0</u>		
5.	Empetrum nigrum	2		FAC	Column Totals:127(A)311(B		
6.	Salix pulchra	0.1		FACW			
7.		0			Prevalence Index = B/A = 2.449		
8.		0			Hydrophytic Vegetation Indicators:		
9.					✓ Dominance Test is > 50%		
10.		0			✓ Prevalence Index is ≤3.0		
	Total Cove		-f T-+-1 C		Morphological Adaptations (Provide supporting data in		
	<b>b Stratum</b> 50% of Total Cover:		_		Remarks or on a separate sheet)		
	Carex aquatilis		<b>✓</b>	OBL	Problematic Hydrophytic Vegetation (Explain)		
	Eriophorum angustifolium		<b>✓</b>	OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
3.	Carex bigelowii			FACW	be present, unless distarbed of problematic.		
4.	Eriophorum russeolum Rubus chamaemorus			FACW	Plot size (radius, or length x width)		
5. 6.	Pedicularis lapponica	$-\frac{3}{0.1}$		FAC	% Cover of Wetland Bryophytes		
			П	1710	(Where applicable)		
					% Bare Ground		
					Total Cover of Bryophytes		
					Hydrophytic		
	Total Cove	er: 35.1	_		Hydrophytic Vegetation		
1	50% of Total Cover:		of Total Cover	: 7.02	Present? Yes ● No ○		

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SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

Depth Matrix Redox Features

Color (moist) % Color (moist) % Type 1 Loc 2 Texture Remarks

0-10		100%				Hamis Organics		
						Hemic Organics		
						-		
<sup>1</sup> Type: C=Concentration. D=I	Depletion. I	RM=Reduce	ed Matrix <sup>2</sup> Locat	ion: PL=Pore Lini	ing. RC=Root Cha	annel. M=Matrix		
lydric Soil Indicators:			Indicators for	Problematic Hy	dric Soils: <sup>3</sup>			
Histosol or Histel (A1)				Change (TA4)		Alaska Gleyed Without Hue 5Y or Redder		
✓ Histic Epipedon (A2)				e swales (TA5)		Underlying Layer	ac or or reduct	
Hydrogen Sulfide (A4)				x With 2.5Y Hue		Other (Explain in Remark	s)	
Thick Dark Surface (A12)								
Alaska Gleyed (A13)						mary indicator of wetland h	ydrology,	
Alaska Redox (A14)			and an appropi	riate landscape po	sition must be pre	esent		
Alaska Gleyed Pores (A15)	)		4 Give details of	color change in F	Remarks			
estrictive Layer (if present):								
Type: frozen						Hydric Soil Present	? Yes • No O	
Depth (inches): 10						.,		
YDROLOGY								
Vetland Hydrology Indicat	ors:					Secondary Indi	cators (two or more are required)	
Primary Indicators (any one is							ned Leaves (B9)	
Surface Water (A1)			Inundation	Visible on Aerial	Imagery (B7)	Drainage P	atterns (B10)	
✓ High Water Table (A2)			Sparsely V	egetated Concave	Surface (B8)	Oxidized R	hizospheres along Living Roots (C3)	
✓ Saturation (A3)			Marl Depo	sits (B15)		Presence o	f Reduced Iron (C4)	
☐ Water Marks (B1)			Hydrogen	Sulfide Odor (C1)		☐ Salt Depos	its (C5)	
Sediment Deposits (B2)			Dry-Seaso	n Water Table (C2	2)	Stunted or	Stressed Plants (D1)	
Drift Deposits (B3)			Other (Exp	olain in Remarks)			c Position (D2)	
Algal Mat or Crust (B4)						✓ Shallow Aq		
Iron Deposits (B5)							raphic Relief (D4)	
						<b>✓</b> FAC-neutra	l Test (D5)	
Surface Soil Cracks (B6)								
ield Observations:			Depth (inc	thes):				
ield Observations:	Yes O			thes): 5	Wetla	nd Hydrology Presen	t? Yes • No 🔾	
Field Observations: Surface Water Present?	Yes ○ Yes •		Depth (inc					
ield Observations: Surface Water Present? Water Table Present? Saturation Present?		No $\bigcirc$	Depth (inc	thes): 4				
ield Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes •	No O	Depth (inc		ı) if available:			
Surface Soil Cracks (B6) Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (streatemarks:	Yes •	No O	Depth (inc		ı) if available:			

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