## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Boroug	h/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Jul-13
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW13_T106_02
Investig	gator(s): WAD, BAB		Landf	orm (hills	side, terrac	ee, hummocks etc.): Gulch or Gully
	elief (concave, convex, none): concave		– Slope			° Elevation: 855
	ion : Interior Alaska Mountains	l at ·	 62.88	0686522		Long.: -148.596542598 Datum: NAD83
_	p Unit Name:	Lut	02.00	0000322		NWI classification: PSS1E
			0	Vac	No ○	
	natic/hydrologic conditions on the site typical for this ti egetation $\Box$ , Soil $\Box$ , or Hydrology $\Box$	•				(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○
		significar	•			iorniai oli odriotarioco present:
	, , , , ,	naturally				eded, explain any answers in Remarks.)
SUMN	MARY OF FINDINGS - Attach site map sho	wing sa	mplin	g point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes   No   No			le :	tha Sam	pled Area
	Hydric Soil Present? Yes   No					
	Wetland Hydrology Present? Yes   No	)		WI	thin a W	etiand? Tes © NO ©
Rema	arks: Bottom of shallow gully at headwaters of creek.					
	photo num 964 ,965 photo time 10,56					
	prioto timo 20,00					
VEGE	TATION - Use scientific names of plants. L	ist all sp	oecies	in the I	plot.	
	•	Absolut			Indicator	Dominance Test worksheet:
Tree	e Stratum	% Cove		ecies?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1.		0	_			That are OBL, FACW, or FAC: (A)  Total Number of Dominant
2.		0	_			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 Tot	al Cover:	0	OBL Species <u>1</u> x 1 = <u>1</u>
1.	Salix pulchra	90	)	<b>✓</b>	FACW	FACW Species <u>105</u> x 2 = <u>210</u>
	Vaccinium uliginosum	25	<u> </u>		FAC	FAC Species <u>89</u> x 3 = <u>267</u>
3.	Betula nana				FAC	FACU Species 9 x 4 =36
4.	Dasiphora fruticosa				FAC	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Empetrum nigrum	5			FAC	Column Totals: <u>204</u> (A) <u>514</u> (B)
6.			_			
7.	Alnus viridis	1			FAC	Prevalence Index = B/A =
8.		0	_			Hydrophytic Vegetation Indicators:
9.		0	_			Dominance Test is > 50%
10.		0	_			Prevalence Index is ≤3.0
	Total Cover			tal Causer	26.2	Morphological Adaptations (Provide supporting data in
	b Stratum 50% of Total Cover:			_		Remarks or on a separate sheet)
1.	Cornus suecica		_		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Rubus chamaemorus		_		FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Equisetum arvense		_		FAC	be present, unless disturbed of problematic.
4.	Geranium erianthum Sanguisorba canadensis	5	_		FACU	Plot size (radius, or length x width)
5.	Rubus arcticus (IAM)		_		FACU	% Cover of Wetland Bryophytes
6. 7.	Calamagrostis canadensis	. <u> </u>	_	$\Box$	FAC	(Where applicable)
	Favricatum fluviatila	1	_		OBL	% Bare Ground5
	Equisetum nuviatile		_			Total Cover of Bryophytes
		0	_			Hydronbytic
	Total Cover	• 73	_			Hydrophytic Vegetation
	50% of Total Cover:			al Cover:	14.6	Present? Yes   No
Darr						·
Rem	arks:					

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SOIL Sampling Point: SW13\_T106\_02

1 Type: C=Concentration  Hydric Soil Indicators  Histosol or Histel (A1	(moist)	100 c c c c c c c c c c c c c c c c c c	olor (moist)	<u>%</u>	Type <sup>1</sup>	_Loc_2	<b>Texture</b> Fibric Organics	Remarks	
3-7 7-11  Type: C=Concentration  Hydric Soil Indicators  Histosol or Histel (AI		100					Fibric Organics		
7-11  Type: C=Concentration  Hydric Soil Indicators  Histosol or Histel (A1									
¹Type: C=Concentration  Hydric Soil Indicators  Histosol or Histel (A1		100					Hemic Organics		
Hydric Soil Indicators  Histosol or Histel (A1							Sapric Organics		
Hydric Soil Indicators  Histosol or Histel (A1									
Hydric Soil Indicators  Histosol or Histel (A1									
Hydric Soil Indicators  Histosol or Histel (A1									
Hydric Soil Indicators  Histosol or Histel (A1									
Hydric Soil Indicators  Histosol or Histel (A1				-					
Hydric Soil Indicators  Histosol or Histel (A1	D=Depletion F	M=Reduced I	Matrix <sup>2</sup> Location	o: PI =Pore	Lining RC	=Root Cha	nnel M=Matrix		
Histosol or Histel (A1			ndicators for Pr				THE TT TIGUE		
			Alaska Color Ch		4	, <b>5</b> .	Alacka Gloved Without Hu	io SV or Padder	
✓ Histic Epipedon (A2)	)		□ Alaska Color Change (TA4)     □ Alaska Gleyed Without Hue 5Y or Redder     □ Underlying Layer						
Hydrogen Sulfide (A	)		Alaska Redox V	•	•		Other (Explain in Remark	s)	
Thick Dark Surface (	•	_							
Alaska Gleyed (A13)							nary indicator of wetland h	ydrology,	
Alaska Redox (A14)		ā	and an appropriat	e landscap	e position r	nust be pre	esent		
Alaska Gleyed Pores	(A15)	4	Give details of co	olor change	in Remark	S			
Restrictive Layer (if prese	nt):								
Type: seasonal frost							Hydric Soil Present?	? Yes ⊙ No O	
Depth (inches): 11									
HYDROLOGY									
Wetland Hydrology In								cators (two or more are required)	
Primary Indicators (any o	ne is sufficient)							ned Leaves (B9)	
✓ Surface Water (A1)			Inundation V		_		✓ Drainage P	` '	
✓ High Water Table (A	2)		Sparsely Veg		cave Surfac	te (B8)		nizospheres along Living Roots (C3)	
Saturation (A3) Water Marks (B1)			Marl Deposits	, ,	(64)		☐ Presence of Salt Deposit	f Reduced Iron (C4)	
Sediment Deposits (	22)		Hydrogen Su					ts (C5) Stressed Plants (D1)	
Drift Deposits (B3)	52)		☐ Dry-Season V☐ Other (Explai				✓ Geomorphi	` '	
Algal Mat or Crust (I	4)		Unier (Explai	III III Kelliai	KS)		Shallow Aq		
Iron Deposits (B5)	'''							raphic Relief (D4)	
Surface Soil Cracks	B6)						✓ FAC-neutra		
Field Observations:	-,							()	
Surface Water Present?	Yes 💿	No $\bigcirc$	Depth (inche	es): 1					
Water Table Present?	Yes	No O	Depth (inche	ic): 4		Wetlar	nd Hydrology Presen	t? Yes • No O	
Saturation Present?				,					
(includes capillary fringe	Yes •	No U	Depth (inche	es): 0					
Describe Recorded Data (	stream gauge, n	nonitor well, a	erial photos, prev	vious inspe	ction) if ava	ilable:			
Remarks:									
surface water in small pa	ches, hummock	/ surface							
surface water in small pa	crics, naminock	Juliace							

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