## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 01-Aug-13							
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T202_06							
	gator(s): CTS, AMD	lside, terrac	ce, hummocks etc.): Toeslope									
-	elief (concave, convex, none): flat		Slope: 3.0		7 ° Elevation: 684							
		l at :										
_	ion : Interior Alaska Mountains	Lal	63.394841313	3	-							
	p Unit Name:			<u> </u>	NWI classification: PSS1B							
Are Vo	egetation  , Soil  , or Hydrology	significant naturally p wing sar	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No O												
	Hydric Soil Present? Yes ● No			within a Wetland? Yes • No								
	Wetland Hydrology Present? Yes ● No 🤇	)	W	WILLIIII a Wellaliu!								
Rema	arks:		11.									
	TATION -Use scientific names of plants. L	Absolute	e Dominant	Indicator	Dominance Test worksheet:  Number of Dominant Species							
	e Stratum Picea glauca	% Cove		Status	That are OBL, FACW, or FAC:3(A)							
	Picea giauca	. 35		FACU	Total Number of Dominant							
2. 3.			-		Species Across All Strata: 4 (B)							
4.		0	-		Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)							
5.			-									
0.	Total Cover		- 🗀		Prevalence Index worksheet:							
Sanl	ling/Shrub Stratum 50% of Total Cover:		- % of Total Cover	: 7	Total % Cover of: Multiply by:							
Зарі		17.5 207			OBL Species <u>1.1</u> x 1 = <u>1.1</u>							
	Salix reticulata	65	_	FAC	FAC Species 31 x 2 = 62							
	Salix richardsonii			FACW	FAC Species 137.2 x 3 = 411.6 FACU Species 55 x 4 = 220							
	Shepherdia canadensis		-	FACU								
	Salix glauca		-	FAC								
	Salix pseudomonticola		-	FAC	Column Totals: <u>224.3</u> (A) <u>694.7</u> (B)							
	Dasiphora fruticosa		-	FAC	Prevalence Index = B/A = 3.097							
	Ledum groenlandicum	1	-	FACIA								
	Salix pulchra Vaccinium oxycoccos	$\frac{1}{0.1}$	-	FACW OBL	Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%							
10.	vaccinium oxycoccos	0.1	-	OBL	Prevalence Index is ≤ 3.0							
10.	Total Cover											
Herl	<b>b Stratum</b> 50% of Total Cover:			r: 23.42	<ul> <li>Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>							
1.	Equisetum arvense	65	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)							
2.	Parnassia palustris			FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must							
3.	Carex membranacea			FACW	be present, unless disturbed or problematic.							
4.	Carex aquatilis	1		OBL	Plot size (radius, or length x width) 10m							
5.	Calamagrostis canadensis	1		FAC	Plot size (radius, or length x width) 10m  % Cover of Wetland Bryophytes							
6.	Polemonium acutiflorum	0.1		FAC	(Where applicable)							
7.	Anemone richardsonii	0.1		FAC	% Bare Ground							
8.	Carex canescens (IAM)	0.1		FAC	Total Cover of Bryophytes 80							
9.	Rubus arcticus (IAM)	0.1	-	FACU								
10.		Hydrophytic										
	Total Cover	1440	Vegetation Present? Yes • No •									
	50% of Total Cover:	36.2 209	% of Total Cover	14.48	1.000101							
Rema	arks: Lichen = 0											

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SOIL Sampling Point: SW13\_T202\_06

Profile Descriptio	•	the depth nee	eded to docum	nent the ir	nt the indicator or confirm the absence of indicators) <b>Redox Features</b>			cators)			
(inches)	Color (mo	ist)	%	Color (ı	moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4			100						Hemic Organics		
4-7	5GY	4/1	95	10YR	4/6	5	С	PL	Clay Loam		
									-		
										-	
								-			
¹Type: C=Cond	centration. D	=Depletion.	RM=Reduce	d Matrix	<sup>2</sup> Location	: PL=Pore	e Lining. RO	=Root Cha	annel. M=Matrix		
Hydric Soil In	dicators:			Indica	tors for Pro	oblematio	: Hydric S	oils: <sup>3</sup>			
Histosol or					ska Color Ch		4	_	Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipe	. ,				ska Alpine sv		-		Underlying Layer	ac 31 of Reader	
Hydrogen S					ska Redox W	-	-		Other (Explain in Remarl	(S)	
	Surface (A12	١									
Alaska Gley	•	,							mary indicator of wetland h	ydrology,	
Alaska Redo				and ar	n appropriat	e landscap	e position i	must be pr	esent		
	ed Pores (A1	5)		4 Give	details of co	olor change	e in Remark	<b>KS</b>			
Restrictive Layer		<u>*</u>									
Type:	(ii present).								Hydric Soil Present	? Yes ● No ○	
Depth (inche	oc).								riyuric 30ii Fresent	i les C No C	
Remarks:											
HYDROLOG	GY										
Wetland Hydro	ology Indica	tors:							Secondary Indi	cators (two or more are required)	
Primary Indicate	ors (any one	is sufficient	)						Water Stai	ned Leaves (B9)	
Surface Wa	ater (A1)			Ir	nundation Vi	sible on A	erial Image	ry (B7)	☐ Drainage F	Patterns (B10)	
✓ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				ce (B8)	Oxidized Rhizospheres along Living Roots (C3)		
✓ Saturation (A3)				Marl Deposits (B15)					Presence of	of Reduced Iron (C4)	
☐ Water Marks (B1)					Hydrogen Sulfide Odor (C1)				☐ Salt Depos	its (C5)	
Sediment [	Deposits (B2)			□ D	ry-Season V	Vater Table	e (C2)		Stunted or	Stressed Plants (D1)	
☐ Drift Depos	sits (B3)			□ o	ther (Explain	n in Rema	rks)		<b>✓</b> Geomorph	ic Position (D2)	
Algal Mat o	or Crust (B4)								Shallow Ad	quitard (D3)	
☐ Iron Depos	sits (B5)								Microtopog	graphic Relief (D4)	
Surface So	il Cracks (B6)								FAC-neutra	al Test (D5)	
Field Observat	tions:										
Surface Water	Present?	Yes 🔾	No 💿	D	epth (inche	s):					
Water Table Pr	resent?	Yes 💿	No $\bigcirc$	D	epth (inche	s): 2		Wetla	nd Hydrology Presen	t? Yes   No	
Saturation Pres	sent?	Voc 📵	No O	_	' ` 	-). 1					
(includes capilla	ary fringe)	res 🍛		D	epth (inche	s): 1					
Describe Record	led Data (stre	am gauge,	monitor wel	l, aerial ¡	ohotos, prev	vious inspe	ction) if ava	ailable:			
Remarks:											
Remarks.											
i											

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