## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site	te: Susitna-Watana Hydroelectric Project	Matanuska-Susitna Borough Sampling Date: 24-Aug-15					
Applicant/0	Owner: Alaska Energy Authority			Sampling Point: SW15_T329_07			
Investigato		side, terrac	ide, terrace, hummocks etc.): Footslope				
Local relie	ef (concave, convex, none): hummocky		Slope: 3.5		<u>-</u>		
Subregion	Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84		
_	Jnit Name:				NWI classification: PSS1B		
Are climati Are Vege Are Vege SUMMA	ic/hydrologic conditions on the site typical for this tine tation , Soil , or Hydrology , setation , Soil , or Hydrology , or	significant naturally p ving sar	tly disturbed? problematic? mpling point	(If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes  eded, explain any answers in Remarks.)  s, transects, important features, etc.		
Hyd	dric Soil Present? Yes  No		Is the Sampled Area within a Wetland? Yes ● No ○				
We	etland Hydrology Present? Yes ◉ No C	)	W	illilli a vv	etiality 165 165		
VEGETA	ATION -Use scientific names of plants. Li	st all sp  Absolute % Cover	e Dominant		Dominance Test worksheet:  Number of Dominant Species		
	cea glauca	14	✓ Species:	FACU	That are OBL, FACW, or FAC:4 (A)		
			<b>✓</b>	FACW	Total Number of Dominant Species Across All Strata: 6 (B)		
3.				TACV			
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)		
5.		0			Prevalence Index worksheet:		
	Total Cover:	18	_		Total % Cover of: Multiply by:		
Sapling	g/Shrub Stratum 50% of Total Cover:	9 20%	% of Total Cover:	3.6	OBL Species 0 x 1 = 0		
1. Va	accinium uliginosum	28	<b>✓</b>	FAC	FACW Species 13 x 2 = 26		
	ntula nana	18	<u>~</u>	FAC	FAC Species 57 x 3 = 171		
	hadadandran tamantaayın	8		FACW	FACU Species 17 x 4 = 68		
	accinium vitis-idaea	4		FAC	UPL Species 0 x 5 = 0		
_	mpetrum nigrum	3		FAC	Column Totals: <u>87</u> (A) <u>265</u> (B)		
	alix fuscescens	1		FACW			
7. Sp	piraea stevenii	1		FACU	Prevalence Index = B/A = 3.046		
8. Pic	cea glauca	1		FACU	Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
10		0			Prevalence Index is ≤3.0		
Herb St	Total Cover: 50% of Total Cover:			: 12.8	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
1. <u>C</u> a	arex bigelowii	_ 4	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation (Explain)		
2. <u>C</u> c	ornus canadensis			FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3			. 📙		be present, unless disturbed or problematic.		
			. 📙		Plot size (radius, or length x width) 10m		
					% Cover of Wetland Bryophytes 3		
					(Where applicable)		
					% Bare Ground 0		
					Total Cover of Bryophytes 98		
		0					
10	Total Cover:				Hydrophytic Vegetation		
	50% of Total Cover:		_	1	Present? Yes • No		
Remarks	_				1		
Kemarks							

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SOIL Sampling Point: SW15 T329 07

Profile Descripti	ion: (Describe to th	e depth nee	ded to docum	ent the indicator or co	nfirm the ab	sence of indica	ators)			
Depth		atrix			dox Featu			-		
(inches)	Color (mois	it)	%	Color (moist)	%	Type <sup>1</sup>	<u>Loc</u> 2	Texture	Remarks	
0-11								Peat	Oi comprised of sphagnum	
11-12								Mucky Peat	Oe	
12-16								Muck	Oa	
16-18									rocky till	
-					-					
							-	-		
1 Type: C=Cor	ncentration. D=1	Depletion, F	RM=Reduce	d Matrix <sup>2</sup> Location	n: PI =Por	e Lining, RC	=Root Cha	nnel. M=Matrix		
		усрісцої і		Indicators for Pr		_		THE TT TIGUE		
Hydric Soil I				Alaska Color Cl		4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Alaska Clayed Without H	uo EV or Doddor	
✓ Histosol or Histel (A1)  Histic Epipedon (A2)				Alaska Alpine s		-		」 Alaska Gleyed Without Hue 5Y or Redder Underlying Layer		
	Sulfide (A4)			Alaska Redox V	•	•		Other (Explain in Remarks)		
	k Surface (A12)									
Alaska Gle	, ,			<sup>3</sup> One indicator of	hydrophyl	tic vegetatio	n, one prin	nary indicator of wetland h	ydrology,	
Alaska Red				and an appropriat	te landscap	oe position n	nust be pre	esent		
	eyed Pores (A15)			<sup>4</sup> Give details of co	olor chang	e in Remark	s			
Restrictive Laye	er (if present):									
Type: rock								Hydric Soil Present	? Yes ● No ○	
Depth (inch	•							,	-	
Remarks:										
ourprioringly care	октивае срърсах						o., o.oo,		with shrub shallower to boulders.	
HYDROLO	GY									
Wetland Hyd	rology Indicat	ors:						Secondary Indi	cators (two or more are required)	
Primary Indica	ators (any one is	sufficient)						Water Stai	ned Leaves (B9)	
Surface W	Vater (A1)			☐ Inundation V	isible on A	erial Imager	y (B7)	Drainage F	Patterns (B10)	
☐ High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfac	e (B8)	Oxidized R	hizospheres along Living Roots (C3)	
Saturation (A3)				Marl Deposits	. ,				f Reduced Iron (C4)	
Water Marks (B1)				Hydrogen Su				☐ Salt Depos		
Sediment Deposits (B2)				☐ Dry-Season \					Stressed Plants (D1)	
☐ Drift Deposits (B3)				Other (Expla	in in Rema	rks)			ic Position (D2)	
☐ Algal Mat or Crust (B4)								✓ Shallow Ac	. ,	
☐ Iron Depo	,								graphic Relief (D4)	
Field Observa	oil Cracks (B6)							FAC-neutra	l Test (D5)	
Surface Water		Yes 〇	No 💿	Depth (inche	e).					
		Yes O			•		Wotla	nd Hudrology Drocon	t? Yes • No O	
Water Table P				Depth (inche	es):		wetia	nd Hydrology Presen	tr res e no e	
(includes capi		Yes	No O	Depth (inche	es): 12					
Describe Recor	ded Data (strea	m gauge, n	nonitor well,	, aerial photos, pre	vious inspe	ection) if ava	ilable:			
Remarks:										
	s of surface wate	er, but do n	ot believe e	nough to qualify fo	or A1. D3	dense till.				
- 30000 CG P0010		, 551 40 11		35 10 quam y 10						

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