## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Denali Bo	rough Sampling Date: 08-Aug-13				
Applica	ant/Owner: Alaska Energy Authority		Sampling Point: SW13_T146_07						
	gator(s): SLI, EAC		Landform (hil	andform (hillside, terrace, hummocks etc.): Footslope					
	relief (concave, convex, none): flat		Slope:	% / 5.2	· · · · · · · · · · · · · · · · · · ·				
	gion : Interior Alaska Mountains	Lat:	63.38355320						
		Lat	03.30333320						
	ap Unit Name:		s \\/	No ○	NWI classification: PSS1B				
Are \	regetation ☐ , Soil ☐ , or Hydrology ☐ regetation ☐ , Soil ☐ , or Hydrology ☐ regetation ☐	significantly naturally pr ving sam	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.)  Iormal Circumstances" present? Yes No No No eded, explain any answers in Remarks.)				
	Hydrophytic Vegetation Present? Yes No C		le	the Sam	nled Area				
	Hydric Soil Present? Yes   No C		Is the Sampled Area within a Wetland? Yes ● No ○						
	Wetland Hydrology Present? Yes ● No Carks: see sw13-t146-v06 for upslope fnwws non-wetlan		W	ıtının a vv	etiand? Tes © No ©				
VEGI	ETATION -Use scientific names of plants. Li	st all spe	ecies in the		Dominance Test worksheet:				
Tre	e Stratum	% Cover		Status	Number of Dominant Species				
1.	Picea glauca	10	<b>✓</b>	FACU	That are OBL, FACW, or FAC:5(A)				
2.		_ 0			Total Number of Dominant Species Across All Strata: 6 (B)				
3.		0			Percent of dominant Species				
4.		0			That Are OBL, FACW, or FAC: 83.3% (A/B)				
5.		0			Prevalence Index worksheet:				
	Total Cover:	10			Total % Cover of: Multiply by:				
Sap	oling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover	<u> </u>	OBL Species x 1 =				
1.	Picea glauca	3		FACU	FACW Species 5.1 x 2 = 10.2				
2.	Betula glandulosa	25	<b>✓</b>	FAC	FAC Species <u>83.3</u> x 3 = <u>249.9</u>				
3.	Salix barclayi	5		FAC	FACU Species <u>13</u> x 4 = <u>52</u>				
4.	Dasiphora fruticosa	5		FAC	UPL Species <u>0</u> x 5 = <u>0</u>				
5.	Vaccinium uliginosum	7		FAC	Column Totals: <u>101.4</u> (A) <u>312.1</u> (B)				
6.	Salix reticulata	15	✓	FAC					
7.	Rhododendron groenlandicum	3		FAC	Prevalence Index = B/A = 3.078				
8.	Vaccinium vitis-idaea	5		FAC	Hydrophytic Vegetation Indicators:				
9.		0			✓ Dominance Test is > 50%				
10.		0			Prevalence Index is ≤3.0				
Hei	Total Cover: 50% of Total Cover:		6 of Total Cove	r: <u>13.6</u>	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)				
1.	Rumex arcticus	7	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
2.	Petasites frigidus		<b>~</b>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
3.	Equisetum arvense		<b>\</b>	FAC	be present, unless disturbed or problematic.				
4.	Cornus suecica			FAC	Plot size (radius, or length x width)				
5.	Arctagrostis latifolia			FACW	% Cover of Wetland Bryophytes				
6.	Saussurea angustifolia			FAC	(Where applicable)				
7.	Tephroseris atropurpurea	-		FAC	% Bare Ground				
8.	Carex bigelowii			FAC	Total Cover of Bryophytes85				
9.									
10.	Total Cover:				Hydrophytic Vegetation				
	50% of Total Cover:1		of Total Cover	: 4.68	Present? Yes  No				
	50% of Total Cover:	.1./ 20/0	or rotal cover	• 4.00					

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SOIL Sampling Point: SW13\_T146\_07

		the depth n	eeded to docur	ment the indicator or co	nfirm the ab		cators)					
Depth (inches)	Color (mo			Color (moist)	%	Type <sup>1</sup>	_Loc_2	- Texture	Remarks			
0-10	5YR	2.5/2	100	Color (Illoist)		Туре	LUC	Fibric Organics				
10-14			100					Hemic Organics	-			
-		2.5/1						-				
14-26	5Y	2.5/1	100					Coarse Loamy Sand	60% gravels			
							-	-				
-							-	-				
¹Type: C=Cor	ncentration. D=	=Depletion	. RM=Reduc	ed Matrix <sup>2</sup> Location		_		nnnel. M=Matrix				
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: <sup>3</sup>					
Histosol o	r Histel (A1)			Alaska Color Ch	nange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder			
✓ Histic Epip	oedon (A2)			Alaska Alpine s	wales (TA!	5)		Underlying Layer				
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue	L	Other (Explain in Remark	(S)			
☐ Thick Dark	k Surface (A12)	)										
Alaska Gle	eyed (A13)			<sup>3</sup> One indicator of and an appropriat				mary indicator of wetland hesent	nydrology,			
Alaska Red	dox (A14)					•	•	CSCIIC				
	eyed Pores (A1			<sup>4</sup> Give details of co	olor change	e in Remark	KS .					
Restrictive Laye												
Type: acti	•							Hydric Soil Present	? Yes ● No O			
Depth (incl	hes): 26											
HYDROLO												
Wetland Hyd	rology Indica	tors:						Secondary Indi	cators (two or more are required)			
Primary Indica	ators (any one	is sufficien	t)					Water Stained Leaves (B9)				
	Vater (A1)			Inundation V	isible on A	erial Image	ry (B7)		Patterns (B10)			
High Water Table (A2)				Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)			
✓ Saturation	. ,			Marl Deposits	s (B15)				of Reduced Iron (C4)			
Water Ma				Hydrogen Su				☐ Salt Depos				
	Deposits (B2)			☐ Dry-Season V					Stressed Plants (D1)			
Drift Depo				Other (Explai	n in Rema	ırks)			ic Position (D2)			
	or Crust (B4)							_	quitard (D3)			
☐ Iron Depo	. ,								graphic Relief (D4)			
	oil Cracks (B6)						ı	☐ FAC-neutra	al Test (D5)			
Field Observa		V-2	No ●	5								
Surface Wate				Depth (inche	s):							
Water Table F	Present?	Yes 🕓	No O	Depth (inche	s): 6		Wetla	nd Hydrology Presen	t? Yes 🕙 No 🔾			
Saturation Pre (includes capi		Yes 🤄	No O	Depth (inche	s): 9							
Describe Recor	rded Data (stre	am gauge	, monitor we	ll, aerial photos, prev	/ious inspe	ection) if ava	ailable:					
Remarks:												

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