## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	orough Sampling Date: 08-Aug-13		
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T146_10		
	gator(s): SLI EAC	lside, terrac	e, hummocks etc.): Floodplain				
	relief (concave, convex, none): flat		Slope:		3 ° Elevation: 678		
	gion : Interior Alaska Mountains	l at ·	63.38258168		Long.: -148.758024719 Datum: NAD83		
		Lat	03.30230100				
	ap Unit Name:		- \	<u> </u>	NWI classification: PSS1E		
Are \		significantl	<pre> '? Yes y disturbed? roblematic?</pre>		(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)		
MUS	MARY OF FINDINGS - Attach site map show	wing san	npling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes ● No ○	)					
	Hydric Soil Present? Yes ● No ○		pled Area				
	Wetland Hydrology Present? Yes ● No ○	etland? Yes ● No ○					
Rem	arks: floodplain of small R2UBH stream at mile 129 of [		/.				
	ETATION - Use scientific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet:  Number of Dominant Species		
1.	e Stratum	_ <b>% Cover</b> 0	Species?	Status	That are OBL, FACW, or FAC:4(A)		
2.		-		-	Total Number of Dominant		
3.		0			Species Across All Strata: 4 (B)		
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		0					
	Total Cover:				Prevalence Index worksheet:  Total % Cover of: Multiply by:		
Sai	oling/Shrub Stratum 50% of Total Cover:	: 0	0.00				
					OBL Species 13 x1 = 13 FACW Species 50.1 x2 = 100.2		
	Dasiphora fruticosa	0.1		FACIA	FAC Species 27.1 x 3 = 81.30		
	Salix pulchra	20		FACW	FACU Species 0 x 4 = 0		
4.	Salix barclayi Vaccinium uliginosum			FAC	UPL Species 0 x 5 = 0		
5.	3			TAC			
6.					Column Totals: 90.2 (A) 194.5 (B)		
7.		0			Prevalence Index = B/A = 2.156		
8.		0			Hydrophytic Vegetation Indicators:		
9.		0			✓ Dominance Test is > 50%		
10.		0			✓ Prevalence Index is ≤3.0		
He	Total Cover: 50% of Total Cover: _ 3			r: 14.22	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
	0	10	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
	Carex aquatilis Comarum palustre			OBL	Indicators of hydric soil and wetland hydrology must		
3.	Rumex arcticus			FAC	be present, unless disturbed or problematic.		
4.	Calamagrostis canadensis		<u></u>	FAC	21.1.4.4.11.11.11.11.11.11.11.11.11.11.11		
	Equisetum variegatum	0.1		FACW	Plot size (radius, or length x width)		
					% Cover of Wetland Bryophytes (Where applicable)		
0.		_			% Bare Ground10		
					Total Cover of Bryophytes 85		
7.							
7. 8.		0					
7. 8. 9.					Hydrophytic		
7. 8. 9.		0 0 19.1		3.82			

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SOIL Sampling Point: SW13\_T146\_10

		the depth nee	eded to docume	ent the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (mo	oist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-8	5YR	3/1	100			- 7 -		Fibric Organics	Fair amount of very fine sand and silt mixe		
8-12	7.5YR	3/1	100					Very Fine Sandy Loam	A fair amount of organic matter		
	7.511								A fair amount of organic matter		
			— –								
					- ——						
¹Type: C=Cor	ncentration. D=	=Depletion.	RM=Reduced	d Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	roblematio	c Hydric So	oils: <sup>3</sup>				
Histosol or	r Histel (A1)			Alaska Color C	hange (TA	4) <sup>4</sup>		Alaska Gleyed Without H	ue 5Y or Redder		
✓ Histic Epip	edon (A2)			Alaska Alpine s	swales (TA!	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y F	Hue		Other (Explain in Remark	ks)		
☐ Thick Dark	c Surface (A12)	)		_							
Alaska Gle	eyed (A13)			<sup>3</sup> One indicator of and an appropria	hydrophyt	tic vegetation	n, one prin	nary indicator of wetland h	nydrology,		
Alaska Red	dox (A14)					•	•	CSCIIC			
Alaska Gle	eyed Pores (A1	5)		4 Give details of o	olor change	e in Remark	S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes • No O		
Depth (inch	nes):							,			
HYDROLO	GY										
Wetland Hydi		tors:						Secondary Indi	cators (two or more are required)		
Primary Indica			)					Water Stained Leaves (B9)			
Surface W	☐ Surface Water (A1) ☐ Inundation Visible on Aerial In						ry (B7)	☐ Drainage I	Patterns (B10)		
✓ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized R	thizospheres along Living Roots (C3)		
<b>✓</b> Saturation	Marl Deposit	s (B15)			Presence of	of Reduced Iron (C4)					
Water Marks (B1)				Hydrogen Sulfide Odor (C1)				Salt Depos	sits (C5)		
	Deposits (B2)			Dry-Season \	Water Tabl	e (C2)			Stressed Plants (D1)		
✓ Drift Depo	` ,			Other (Expla	in in Rema	rks)			ic Position (D2)		
l —	or Crust (B4)								quitard (D3)		
☐ Iron Depo									graphic Relief (D4)		
	oil Cracks (B6)						1	✓ FAC-neutra	al Test (D5)		
Field Observa											
Surface Water	r Present?		No 💿	Depth (inche	es):						
Water Table P	Present?	Yes 🕑	No O	Depth (inche	es): 7		Wetla	nd Hydrology Preser	it? Yes 💿 No 🔾		
Saturation Pre (includes capi		Yes	No O	Depth (inche	es): 4						
Describe Recor	ded Data (stre	am gauge,	monitor well,	, aerial photos, pre	vious inspe	ection) if ava	ilable:				
<b>D</b> 1											
Remarks:											
floodplain of sn	nall R2UBH str	eam. small :	scattered poo	ols of surface water	r, drift depo	osits.					

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