## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/S	Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Denali Bo	prough Sampling Date: 02-Aug-13
Applican	t/Owner: Alaska Energy Authority				Sampling Point: SW13_T149_03
nvestiga	ator(s): SLI, EAC		Landform (hill	side, terrac	ce, hummocks etc.): Valley bottom
_ocal re	ief (concave, convex, none): concave		Slope:	%/ 1.9	9 ° Elevation: 658
Subreaid	n : Interior Alaska Mountains	Lat.: 6	3.384999632	 26	Long.: -148.487528802 Datum: NAD83
-	Unit Name:				NWI classification: PUBH
	P	- time - f	Voo	• No ()	
	atic/hydrologic conditions on the site typical for thi	•			(If no, explain in Remarks.) Jormal Circumstances" present? Yes ● No ◯
	getation, Soil, or Hydrology				
Are ve	getation 🦳 , Soil 🗌 , or Hydrology 🗌	naturally pro	oblematic?	(If nee	eded, explain any answers in Remarks.)
SUMM	ARY OF FINDINGS - Attach site map sh	nowing sam	pling point	locations	s, transects, important features, etc.
F	lydrophytic Vegetation Present? Yes 🔍 No	0			
	lydric Soil Present? Yes • No	pled Area			
	Vetland Hydrology Present? Yes	/etland? Yes $ullet$ No $igodoldsymbol{O}$			
	ks: characterizing small shallow pond. numerous g	-	length), haw	sl PEM1E fri	inge, as at SW13-T149-02. PUBH or PUBHh?
		5 ,			
EGE	<b>ATION</b> - Use scientific names of plants	. List all spe	cies in the	plot.	Dominance Test worksheet:
-		Absolute % Cover	Dominant	Indicator	Number of Dominant Species
1.	Stratum	<u>% Cover</u>	Species?	Status	That are OBL, FACW, or FAC:(A)
2.					Total Number of Dominant
2. 3.					Species Across All Strata: (B)
3. 4.		•			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
		0			
0	Total Cov				Prevalence Index worksheet:
Canli	ng/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	Total % Cover of: Multiply by:
Japin		20/0			OBL Species $18.1$ x 1 = $18.1$
1		0			FACW Species $0 \times 2 = 0$
2.					FAC Species $0$ $x = 0$
3.					FACU Species $0 \times 4 = 0$
4.		•			UPL Species x 5 =
5.					Column Totals: <u>18.1</u> (A) <u>18.10</u> (B)
6.					Prevalence Index = B/A = 1.000
7		0			
8					Hydrophytic Vegetation Indicators:  Dominance Test is > 50%
		0			
10	Total Co				✓ Prevalence Index is $\leq 3.0$
Herh	Stratum 50% of Total Cover:		of Total Cover	: 0	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
	Equisetum fluviatile	3		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
_	Phoraphium notone	15		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
		0.1		OBL	be present, unless disturbed or problematic.
-					
1 .					Plot size (radius, or length x width) <u>10m</u>
					% Cover of Wetland Bryophytes
5					(Where applicable)
5 6		0			(Where applicable) % Bare Ground 99
5 6 7		0			
5 6 7 8		0 0 0			% Bare Ground
5 6 7 8 9		0 0 0 0			% Bare Ground   99     Total Cover of Bryophytes
5 6 7 8 9		0 0 0 0 0			% Bare Ground

SOIL
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Profile Description		e depth nee <b>atrix</b>	ded to docur	nent the indicator or co <b>Re</b>	nfirm the at dox Featu		cators)		
(inches)	Color (mois	t)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
		-,				.,,,,			
	· ·								
	·							-	
								-	
<sup>1</sup> Type: C=Con	centration. D=[	Depletion. F	RM=Reduc	ed Matrix <sup>2</sup> Locatio	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix	
Hydric Soil In	dicators:			Indicators for P	roblemati	c Hydric S	oils: <sup>3</sup>		
Histosol or				Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	. ,			Alaska Alpine		-		Underlying Layer	
Hydrogen S				Alaska Redox	-	-	$\checkmark$	Other (Explain in Remar	(S)
	Surface (A12)								
Alaska Gley	. ,							nary indicator of wetland h	nydrology,
Alaska Red				and an appropria	te landsca	pe position	must be pre	esent	
	ed Pores (A15)			<sup>4</sup> Give details of c	olor chang	e in Remar	ks		
Restrictive Layer	r (if present):								
Type:	<b>)</b> .							Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inch	es):								
assume hydric s	oil due to hydro	ophytic veg	etation and	l standing water. w	alking in p	ond - sandy	substrates.		
HYDROLO	GY								
Wetland Hydr	ology Indicat	ors:						Secondary Indi	cators (two or more are required)
Primary Indicat	ors (any one is	sufficient)						Water Stai	ned Leaves (B9)
✓ Surface Wa	ater (A1)			Inundation \	/isible on A	erial Image	ery (B7)	🗌 Drainage I	Patterns (B10)
🗌 High Wate	r Table (A2)			Sparsely Veg	jetated Co	ncave Surfa	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)
Saturation	(A3)			Marl Deposit	s (B15)			Presence of	of Reduced Iron (C4)
🗌 Water Mar	ks (B1)			🗌 Hydrogen Sı	Ifide Odor	(C1)		Salt Depos	sits (C5)
Sediment I	Deposits (B2)			Dry-Season	Water Tab	le (C2)		Stunted or	Stressed Plants (D1)
Drift Deposition	sits (B3)			Other (Expla	in in Rema	ırks)		Geomorph 🗌	ic Position (D2)
🗌 Algal Mat d	or Crust (B4)							Shallow Ad	quitard (D3)
Iron Depos	sits (B5)							Microtopo	graphic Relief (D4)
Surface So	il Cracks (B6)							FAC-neutra	al Test (D5)
Field Observa	tions:	-	-						
Surface Water	Present?	Yes 🖲	No 🔾	Depth (inche	es): 6				
Water Table Pr	esent?	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inche	es):		Wetlaı	nd Hydrology Preser	it? Yes 🖲 No 🔾
Saturation Pres (includes capill		$_{\rm Yes} \bigcirc$	No 🖲	Depth (inche	es):				
Describe Record	ed Data (strea	m gauge, n	nonitor we	l, aerial photos, pre	vious inspe	ection) if av	ailable:		
Remarks:									
small shallow po	ond. water leve	low - few	small area	of exposed substra	tes w\spar	ganium. en	tire pond 4-	6in deep. grayling.	