## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hyd	roelectric Project	В	Borough/City:	Denali Bo	orough Sampling Date: 31-Jul-13			
Applica	ant/Owner: Alaska Energy A	uthority	Sampling Point: SW13_T158_04						
	gator(s): CTS, AMD		e, hummocks etc.): Flat						
	relief (concave, convex, none):	concave	% / 2.2						
	gion : Interior Alaska Mountai		Lat:	Slope:63.365951777		Long.: -148.757721187 Datum: NAD83			
		15	Lat	03.303931771	<u> </u>				
	ap Unit Name:			- )/	<u> </u>	NWI classification: PSS1B			
Are \	matic/hydrologic conditions on /egetation  , Soil   /egetation  , Soil    MARY OF FINDINGS - A	, or Hydrology ☐ s , or Hydrology ☐ r ttach site map show	significantly naturally pr wing sam	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.			
	Hydrophytic Vegetation Prese	nt? Yes 💿 No 🗆	)	1-	the Com	mlad Ausa			
	Hydric Soil Present?	Yes ● No C	)	Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present?	Yes ● No C	)	Wi	ithin a W	vetiand? Tes © No ©			
Rem VEGI	ETATION - Use scientific	names of plants. Li	st all spe	ecies in the	plot.				
			Absolute	Dominant		Dominance Test worksheet:			
	e Stratum		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)			
1.	Picea mariana			<b>✓</b>	FACW	Total Number of Dominant			
2.						Species Across All Strata:5(B)			
3.						Percent of dominant Species			
4.						That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		Tatal Carren				Prevalence Index worksheet:			
_		Total Cover:		of Total Cover		Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum	50% of Total Cover:	10 20%	of Total Cover	4	OBL Species <u>0.1</u> x 1 = <u>0.1</u>			
1.	Betula nana		_ 30	✓	FAC	FACW Species <u>50.2</u> x 2 = <u>100.4</u>			
2.	Spiraea stevenii		1		FACU	FAC Species 61.3 x 3 = 183.9			
3.	Vaccinium uliginosum		15	<b>✓</b>	FAC	FACU Species 1.1 x 4 = 4.400			
4.	Salix pulchra		10		FACW	UPL Species <u>0</u> x 5 = <u>0</u>			
5.	Rhododendron tomentosum		5		FACW	Column Totals: <u>112.7</u> (A) <u>288.8</u> (B)			
6.	Vaccinium vitis-idaea		1		FAC	Prevalence Index = B/A =2.563_			
7.	Salix barclayi		0.1		FAC				
8.	Arctous ruber				FAC	Hydrophytic Vegetation Indicators:			
	Vaccinium oxycoccos		0.1		OBL	✓ Dominance Test is > 50%			
10.						Prevalence Index is ≤3.0			
Hei	rb Stratum	Total Cover: 50% of Total Cover: 3			12.46	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.			15	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation (Explain)			
2.				<b>✓</b>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Rubus chamaemorus				FACW	be present, unless disturbed or problematic.			
4.	Tephroseris atropurpurea				FACIA	Plot size (radius, or length x width)			
5.					FACU	% Cover of Wetland Bryophytes			
6.	Equisetum scirpoides		0.1		FACU	(Where applicable)			
						% Bare Ground			
						Total Cover of Bryophytes 60			
						Understadio			
		Total Cover:		Hydrophytic Vegetation					
10.									
10.		50% of Total Cover:1		of Total Cover	6.08	Present? Yes   No			

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13\_T158\_04

Profile Descripti		the depth nee	eded to docum	ent the indicator or co	onfirm the abs		ators)			
(inches)	Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks	
0-12			100					Fibric Organics		
12-18	5GY	4/1	100					Sandy Clay		
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduce	ed Matrix <sup>2</sup> Location		_		nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pr	roblematio	a Hydric Sc	oils: <sup>3</sup>			
Histosol or	r Histel (A1)			Alaska Color C	hange (TA	1)	<b>✓</b>	Alaska Gleyed Without Hu	ue 5Y or Redder	
✓ Histic Epip	pedon (A2)			Alaska Alpine s	swales (TA5	5)		Underlying Layer		
Hydrogen	Sulfide (A4)			☐ Alaska Redox \	With 2.5Y F	lue		Other (Explain in Remark	s)	
Thick Dark	k Surface (A12)	1		30	e h d h d			: i- dik£kld k-	uduala au	
✓ Alaska Gle	eyed (A13)			and an appropria				nary indicator of wetland h	ydrology,	
Alaska Red	dox (A14)									
Alaska Gle	eyed Pores (A15	5)		<sup>4</sup> Give details of c	olor change	e in Kemark	S			
Restrictive Laye	er (if present):									
Type: Acti	,							Hydric Soil Present?	? Yes ● No O	
Depth (inch	nes): 18									
HYDROLO	GY									
Wetland Hyd	rology Indica	tors:						Secondary Indic	cators (two or more are required)	
Primary Indica	ntors (any one i	s sufficient						Water Stair	ned Leaves (B9)	
Surface W	Vater (A1)			☐ Inundation V	/isible on A	erial Imager	ry (B7)	Drainage P	atterns (B10)	
High Wate	er Table (A2)			Sparsely Veg	jetated Cor	icave Surfac	ce (B8)	Oxidized R	nizospheres along Living Roots (C3)	
✓ Saturation	. ,			Marl Deposit	:s (B15)				f Reduced Iron (C4)	
Water Ma				☐ Hydrogen Su				Salt Deposi		
	Deposits (B2)			Dry-Season					Stressed Plants (D1)	
☐ Drift Depo				U Other (Expla	in in Rema	rks)		<b>✓</b> Geomorphi	` '	
	or Crust (B4)							✓ Shallow Aq		
☐ Iron Depo	` ,								raphic Relief (D4)	
	oil Cracks (B6)						1	✓ FAC-neutra	l Test (D5)	
Field Observa		Vac (	No •	D-nth (in ch.	A-					
Surface Water				Depth (inche	•			<b>-</b> -		
Water Table F			No O	Depth (inche	es): 7		Wetlar	nd Hydrology Present	t? Yes • No O	
Saturation Pre (includes capi		Yes	No O	Depth (inche	es): 5					
Describe Recor	ded Data (stre	am gauge,	monitor well	, aerial photos, pre	vious inspe	ction) if ava	ilable:			
Remarks:										
Remarks.										

U.S. Army Corps of Engineers Alaska Version 2.0