## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 25-Jun-12			
Applica	nt/Owner: Alaska Energy Authority		Sampling Point: SW12_T28_07					
Investig	gator(s): JGK	side, terrace, hummocks etc.): Bench						
-	elief (concave, convex, none): hummocky		Slope: 3.5		° Elevation: 725			
Subrea	ion : Interior Alaska Mountains	62.870659907		Long.: -148.368009972 Datum: WGS84				
_	p Unit Name:		32.07 0039907	<u> </u>	NWI classification: PEM1/SS1B			
			. Vaa	No ○				
Are Vo	egetation  , Soil  , or Hydrology  r	ignificantly aturally proving sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes   No   Ideded, explain any answers in Remarks.)  Index, transects, important features, etc.			
	, , , , , , , , , , , , , , , , , , ,		Is	Is the Sampled Area				
	· · · · · · · · · · · · · · · · · · ·			thin a W				
	Wetland Hydrology Present? Yes ● No ○		vicini a victiana.					
VEGE	TATION -Use scientific names of plants. Lis	st all spe	cies in the	<u> </u>	Dominance Test worksheet:			
Tree	Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)			
1.	Picea mariana	10	<b>✓</b>	FACW	Total Number of Dominant			
2.		0			Species Across All Strata:5(B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover:				Total % Cover of: Multiply by:			
Sapl	ling/Shrub Stratum 50% of Total Cover:	5 20%	of Total Cover:	2	OBL Species <u>0</u> x 1 = <u>0</u>			
1.	Vaccinium uliginosum	15	<b>✓</b>	FAC	FACW Species 40 x 2 = 80			
2.	Picea mariana	10	<b>✓</b>	FACW	FAC Species <u>81</u> x 3 = <u>243</u>			
3.	Betula nana	10	✓	FAC	FACU Species <u>0</u> x 4 = <u>0</u>			
4.	Ledum decumbens	5		FACW	UPL Species0 x 5 =0			
5.	Vaccinium vitis-idaea	3		FAC	Column Totals: <u>121</u> (A) <u>323</u> (B)			
6.	Empetrum nigrum	3		FAC				
7.		0			Prevalence Index = B/A =			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
Herl	Total Cover: 50% of Total Cover:	of Total Cover	: 9.2	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)				
1.	Equisetum arvense	_40_	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
	Petasites frigidus			FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
Ŭ.	Carex bigelowii	10		FAC	be present, unless disturbed or problematic.			
	Calamagrostis stricta ssp. inexpansa	5		FACW	Plot size (radius, or length x width) 10m			
					% Cover of Wetland Bryophytes 30			
					(Where applicable)			
					% Bare Ground			
					Total Cover of Bryophytes			
10.	Total Cover:				Hydrophytic Vegetation			
	50% of Total Cover: 3		of Total Cover:	13	Present? Yes • No O			
					1			
Rema	arks: tr compal salix spp.  Mixture of picmar scrub and tree formsfnwbs							

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW12\_T28\_07

Drafile Description	(Describe to t	ili a denth noc	dad to docume		firm the ab	of indic	-+>==	• -	310me 54412_120_07		
		tne deptn nee <b>1atrix</b>	dea to docume	ent the indicator or co	ntirm the ab		ators)				
Depth (inches)	Color (mo		%	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-3			100	,		- 77		Fibric Organics	10% roots		
3-5			100					Hemic Organics	w/10% roots		
5-7			100					Sapric Organics	w/trace roots		
7-10		2/2	70					Loamy Sand	fine sand to semi ang cobbles		
10-15	2.5Y	3/1	100					Clayey Sand	fine to coarse sand		
					-			Clay Sand			
15-17	10Y	4/1						Clay Sanu	fine to medium sand		
			———								
					- ——				-		
<sup>1</sup> Type: C=Con	centration. D=	Depletion.	RM=Reduced	d Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric Sc	oils: <sup>3</sup>				
Histosol or	Histel (A1)		[	Alaska Color Cl	nange (TA	4)		Alaska Gleyed Without H	lue 5Y or Redder		
Histic Epipe	edon (A2)		[	Alaska Alpine s	wales (TA	5)		Underlying Layer			
✓ Hydrogen	Sulfide (A4)		[	Alaska Redox V	Nith 2.5Y I	Hue	Ш	Other (Explain in Remar	ks)		
Thick Dark	Surface (A12)			30 indicator of	:				handrala arr		
Alaska Gley				and an appropriat				nary indicator of wetland lesent	nydrology,		
Alaska Red	` '			4 Give details of co	olor chang	e in Remark	c				
☐ Alaska Gle	yed Pores (A15	5)		- Give details of G	Jior Giang	e iii icina	5				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	:? Yes • No O		
Depth (inch	es):										
Remarks:											
HYDROLO	GY										
Wetland Hydr	ology Indica	tors:						Secondary Ind	icators (two or more are required)		
Primary Indicat	tors (any one i	s sufficient)							ined Leaves (B9)		
Surface W	ater (A1)			☐ Inundation V	isible on A	erial Image	y (B7)	Drainage Patterns (B10)			
✓ High Wate	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized F	Rhizospheres along Living Roots (C3)		
✓ Saturation (A3)				Marl Deposits	s (B15)			Presence	of Reduced Iron (C4)		
Water Marks (B1)				✓ Hydrogen Su	lfide Odor	(C1)		Salt Deposits (C5)			
Sediment Deposits (B2)				☐ Dry-Season \	Nater Tabl	le (C2)			r Stressed Plants (D1)		
Drift Deposits (B3)				Uther (Explai	in in Rema	ırks)		Geomorphic Position (D2)			
	or Crust (B4)								quitard (D3)		
☐ Iron Depo	` ,								graphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutr	al Test (D5)		
Field Observa Surface Water		Voc (	No •	Donth (inch:	· • · · ·						
		Yes •		Depth (inche	•		147 - 41	. d 11. d l <b>n</b>	V (A. N (		
Water Table P				Depth (inche	:s): 3		wetiar	nd Hydrology Preser	nt? Yes • No O		
Saturation Pre (includes capil		Yes 💿	No O	Depth (inche	es): 0						
		am gauge, i	monitor well,	aerial photos, prev	vious inspe	ection) if ava	ilable:				
		g g		, ,							
Remarks:											
water at surface	e in pockets										

U.S. Army Corps of Engineers Alaska Version 2.0