## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/S	site: Susitna-Watana Hyd	Iroelectric Project	B	orough/City:	Matanusk	ca-Susitna Borough Sampling Date: 03-Jul-13		
Applican	t/Owner: Alaska Energy A	Authority				Sampling Point: SW13_T121_07		
Investiga	tor(s): JGK			Landform (hillside, terrace, hummocks etc.): Flat				
Local rel	ief (concave, convex, none)	hummocky		Slope: 0.0 % / 0.0 ° Elevation: 258				
Subregio	n: Southcentral Alaska		Lat.: _	62.807470441		Long.:149.575167894		
Soil Map	Unit Name:					NWI classification: PEM1E		
Are Ve	atic/hydrologic conditions on getation	, or Hydrology , or Hydrology	significantly naturally pr	y disturbed? oblematic?	(If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.		
H	ydrophytic Vegetation Prese ydric Soil Present? /etland Hydrology Present? ·ks: DUNN SITE 1379	Yes   No			the Sam thin a W	ppled Area /etland? Yes ● No ○		
<b>VEGET</b>	ATION - Use scientific	names of plants. L	ist all spe	cies in the	plot.			
			Absolute	Dominant		Dominance Test worksheet:  Number of Dominant Species		
1.	Stratum		% Cover	Species?	Status	That are OBL, FACW, or FAC:5(A)		
2.			•		-	Total Number of Dominant		
3.			^			Species Across All Strata:5 (B)		
4.			- 0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.				П				
_		Total Cover				Prevalence Index worksheet:  Total % Cover of: Multiply by:		
Saplir	ng/Shrub Stratum	50% of Total Cover:		of Total Cover:	0	0.00		
		_				OBL Species 63.1 x1 = 63.1 FACW Species 8 x2 = 16		
_	Picea mariana			<u> </u>	FACW	FAC Species 12 x 3 = 36		
			10	<b>✓</b>	FACW	FACU Species 0 x 4 = 0		
	Betula nana /accinium oxycoccos				OBL	UPL Species 0 x 5 = 0		
_	/accinium uliginosum			П	FAC			
_				$\Box$	FACW	Column Totals: <u>83.1</u> (A) <u>115.1</u> (B)		
7.	.oudin documbono					Prevalence Index = B/A = 1.385		
			0			Hydrophytic Vegetation Indicators:		
						✓ Dominance Test is > 50%		
			0			✓ Prevalence Index is ≤3.0		
	Stratum	<b>Total Cover</b> 50% of Total Cover:		6 of Total Cover	: 4.2	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
1. <u>E</u>	Eriophorum angustifolium		15	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2. 0	Carex rariflora		30	<b>✓</b>	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	arev retundata		15	<b>✓</b>	OBL	be present, unless disturbed or problematic.		
4[	Orosera anglica		2		OBL	Plot size (radius, or length x width) 10m		
5	Scheuchzeria palustris				OBL	% Cover of Wetland Bryophytes 60		
						(Where applicable)		
						% Bare Ground		
						Total Cover of Bryophytes5		
10		Total Cover		Hydrophytic Vegetation				
						VENERALIUII		
		50% of Total Cover:		of Total Cover:	12.42	Present? Yes • No O		

US Army Corps of Engineers Alaska Version 2.0

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

Sampling Point: SW13\_T121\_07

Profile Descripti  Depth	otion: (Describe to the depth needed to document the indicator or confirm the abser						ators)			
(inches)	Color (moi	st)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduce	ed Matrix <sup>2</sup> Location	: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for Pro	oblematio	c Hydric Sc	oils: <sup>3</sup>			
Histosol or Histel (A1)				Alaska Color Ch		4		Alaska Gleyed Without Hi	ue 5Y or Redder	
Histic Epipedon (A2)				Alaska Alpine sv	wales (TA	5)		Underlying Layer		
	Sulfide (A4)			Alaska Redox W	/ith 2.5Y F	Hue	✓	Other (Explain in Remarks)		
	Surface (A12)									
Alaska Gle								nary indicator of wetland h	ydrology,	
Alaska Red				and an appropriate		•		esent		
Alaska Gle	yed Pores (A15	)		<sup>4</sup> Give details of co	lor chang	e in Remark	S			
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes 💿 No 🔾	
Depth (inch	nes):									
HYDROLO	GY									
Wetland Hyd	rology Indicat	ors:						Secondary India	cators (two or more are required)	
Primary Indica	tors (any one is	sufficient)						Water Stair	ned Leaves (B9)	
✓ Surface W	/ater (A1)			☐ Inundation Vi	sible on A	erial Imager	ry (B7)	Drainage P	atterns (B10)	
High Wate	er Table (A2)			Sparsely Vege	etated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)	
Saturation	n (A3)			Marl Deposits	(B15)				f Reduced Iron (C4)	
Water Ma	,			Hydrogen Sul	fide Odor	(C1)		☐ Salt Depos	its (C5)	
	Deposits (B2)			☐ Dry-Season W					Stressed Plants (D1)	
☐ Drift Depo	` ,			U Other (Explain	n in Rema	rks)			c Position (D2)	
	or Crust (B4)							☐ Shallow Aq		
☐ Iron Depo	` ,							_	raphic Relief (D4)	
	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)	
Field Observa		Voc 📵	No O	Death Carles						
Surface Water				Depth (inches	5): 2					
Water Table P			No O	Depth (inches	5):		Wetlar	nd Hydrology Presen	t? Yes • No O	
Saturation Pre (includes capil		Yes	No O	Depth (inches	s):					
Describe Recor	ded Data (strea	m gauge, ı	monitor wel	l, aerial photos, prev	ious inspe	ection) if ava	ailable:			
Remarks:										
pH 4.65										
EC 20										

U.S. Army Corps of Engineers Alaska Version 2.0