## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 23-Jun-12		
pplicant/Owner: Alaska Energy Authority				Sampling Point: SW12_T19_06		
nvestigator(s): JGK	ce, hummocks etc.): Shoreline					
ocal relief (concave, convex, none): flat				O ° Elevation: 853		
Subregion : Southcentral Alaska		62.784499909		Long.: -149.530289966 Datum: WGS84		
oil Map Unit Name:		22.701100000		NWI classification: PEM1E		
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology .  Are Vegetation , Soil , or Hydrology .  BUMMARY OF FINDINGS - Attach site map sho	significantly naturally pro wing sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.)  Normal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)		
		Is	the Sam	ipled Area		
Hydric Soil Present? Yes No		vithin a Wetland? Yes ● No ○				
Wetland Hydrology Present? Yes   No	<i></i>					
<b>/EGETATION -</b> Use scientific names of plants. L	ist all spe	cies in the  Dominant Species?		Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)		
1	0			That are OBL, FACW, or FAC: (A)  Total Number of Dominant		
2	0			Species Across All Strata:1 (B)		
3	0			Percent of dominant Species		
4.	0			That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.				Prevalence Index worksheet:		
Total Cover		-f.T-+-1.C		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	or rotal cover:	0	OBL Species <u>61</u> x 1 = <u>61</u>		
1	0			FACW Species 0 x 2 = 0		
2				FACUS paging 0 x 3 = 0		
3.				FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0		
4 5.	0					
•				Column Totals: 61 (A) 61 (B)		
_				Prevalence Index = B/A = 1.000		
7. 8.				Hydrophytic Vegetation Indicators:		
9.				✓ Dominance Test is > 50%		
10.	0			✓ Prevalence Index is ≤3.0		
Total Cover  Herb Stratum 50% of Total Cover:	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)					
1. Eriophorum angustifolium	60	✓	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2. Comarum palustre			OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3	0			be present, unless disturbed or problematic.		
4				Plot size (radius, or length x width) 8m x 10m		
5				% Cover of Wetland Bryophytes		
6				(Where applicable)		
7				% Bare Ground		
8				Total Cover of Bryophytes		
9	- 0			Hydrophytic		
Total Cover		Hydrophytic Vegetation				
Total Cover	r: <u>61</u>					
50% of Total Cover:	30.5 20%	of Total Cover:	12.2	Present? Yes ♥ No ○		

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)

Matrix

Redox Features

Profile Description  Depth	•	ne depth nee l <b>atrix</b>	aed to docum		indicator or confirm the absence of indicators)  Redox Features				
(inches)	Color (mois	st)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks
¹Type: C=Con	centration. D=I	Depletion. F	RM=Reduce	ed Matrix <sup>2</sup> Loca	tion: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil In	ndicators:			Indicators for	Problemation	Hydric So	oils:		
	Histel (A1)				Change (TA	4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	` '				e swales (TA5	-	_	Underlying Layer	
_	Sulfide (A4)				x With 2.5Y H		<b>✓</b>	Other (Explain in Remark	(S)
☐ Thick Dark	Surface (A12)			•					
Alaska Gley	yed (A13)			One indicator and an approp				nary indicator of wetland hesent	ıydrology,
Alaska Red	` ,			4 Give details o	·	•			
☐ Alaska Gley	yed Pores (A15)	)		· Give details o	i color change	e III Kelliaik	.5		
Restrictive Laye	r (if present):								
Type:								<b>Hydric Soil Present</b>	? Yes • No O
Depth (inch	es):								
Remarks:									
assume hydric s	soil due to inun	dation and	hydrophytic	vegetation					
ı									
HYDROLO									
Wetland Hydr									cators (two or more are required)
Primary Indicat  Surface W		sufficient)			\".".\ A		(07)		ned Leaves (B9)
	er Table (A2)				n Visible on A	_			Patterns (B10)  This spheres along Living Roots (C3)
Saturation				☐ Marl Depo	egetated Con	icave Suriac	Le (D0)		of Reduced Iron (C4)
Water Mar	. ,				Sulfide Odor	(C1)		Salt Depos	` '
	Deposits (B2)				n Water Table	. ,			Stressed Plants (D1)
Drift Depo					plain in Rema				ic Position (D2)
Algal Mat	or Crust (B4)			_ ` ` '	'	,		Shallow Ac	quitard (D3)
Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)
Surface So	oil Cracks (B6)							✓ FAC-neutra	al Test (D5)
Field Observa	tions:								
Surface Water	Present?	Yes •		Depth (in	ches): 2				
Water Table P	resent?	Yes 🔾	No 💿	Depth (in	ches):		Wetlar	nd Hydrology Presen	it? Yes 💿 No 🔾
Saturation Pre		Yes $\bigcirc$	No 💿	Depth (in	ches):				
(includes capill				l, aerial photos, p		ction) if our	vilabler		
Describe Record	ieu Data (Strea	ili gauge, i	nomicor wei	i, aeriai priotos, p	nevious irispe	Cuon) II ava	illable.		
Remarks:									
floating vegetat	ive mat								

U.S. Army Corps of Engineers Alaska Version 2.0