WETLAND DETERMINATION DATA FORM - Alaska Region

/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 03-Aug-12			
ant/Owner: Alaska Energy Authority		Sampling Point: SW12_T37_04					
	side, terrac	de, terrace, hummocks etc.): Flat					
		Slope:		2 ° Elevation: 415			
	Lat ·	62 805088316	 \$1	Long.: -149.548445726 Datum: NAD83			
	Lut	02.000000010	, i	NWI classification: PEM1E			
·	#: f	-0 Voo	● No ○				
	•			(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○			
	•	-		tornal olloanistarioes present:			
, , ,				eded, explain any answers in Remarks.)			
•	owing sar	npling point	locations	s, transects, important features, etc.			
7. 1. 7		le	tha Sam	upled Area			
.,	\circ						
	0	WI	unin a vv	vetiand? Tes © No ©			
arks: Strangmoor wetland (string bog) near pond							
ETATION -Use scientific names of plants.	List all sp	ecies in the	plot.				
				Dominance Test worksheet:			
e Stratum			Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)			
	0			Total Number of Dominant			
	0	. \square		Species Across All Strata: 4 (B)			
	0	. 📙		Percent of dominant Species			
	0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
	0	. \square		Prevalence Index worksheet:			
				Total % Cover of: Multiply by:			
ling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species <u>72.2</u> x 1 = <u>72.2</u>			
Dasiphora fruticosa	7	✓	FAC	FACW Species <u>0.1</u> x 2 = <u>0.200</u>			
Betula nana	3	✓	FAC	FAC Species <u>11</u> x 3 = <u>33</u>			
Spiraea stevenii	0.1	. 🔲	FACU	FACU Species <u>0.2</u> x 4 = <u>0.800</u>			
Myrica gale	1	. 📙	OBL	UPL Species <u>0</u> x 5 = <u>0</u>			
Andromeda polifolia			FACW	Column Totals: <u>83.5</u> (A) <u>106.2</u> (B)			
Vaccinium oxycoccos		. 📙	OBL	Prevalence Index = B/A = 1,272			
		. 📙		11272			
				Hydrophytic Vegetation Indicators:			
		. 📙		✓ Dominance Test is > 50%			
Total Cov		. \square		✓ Prevalence Index is ≤3.0			
500/ ST . LO	: 2.26	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)					
	40	_	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)			
Onness religions also also		· •	OBL	Indicators of hydric soil and wetland hydrology must			
Cornus canadensis	0.1		FACU	be present, unless disturbed or problematic.			
Deceleration of the second sec	1		FAC	Diet size (vadius au laneth v viddh)			
Management and Anifaliate			OBL	Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes 40			
Drosera anglica	2		OBL	% Cover of Wetland Bryophytes			
Scheuchzeria palustris	2		OBL	% Bare Ground			
Eriophorum angustifolium	0.1		OBL	Total Cover of Bryophytes 40			
	0						
	0	. \square		Hydrophytic			
Total Cove 50% of Total Cover:				Vegetation Present? Yes ● No ○			
	ant/Owner: Alaska Energy Authority gator(s): CTS, EKJ relief (concave, convex, none): flat gion: Southcentral Alaska ap Unit Name: matic/hydrologic conditions on the site typical for this regetation , Soil , or Hydrology , regetation , regetation , or Hydrology	ant/Owner: Alaska Energy Authority gator(s): CTS, EKJ relief (concave, convex, none): flat gion: Southcentral Alaska punit Name: matic/hydrologic conditions on the site typical for this time of yea regetation	ant/Owner: Alaska Energy Authority gator(s): CTS, EKJ Landform (hill gator(s): Call gator(s): Store significantly disturbed? gator(s): Gator(s): Gator(s): Store significantly disturbed? gator(s): Gator(Street Stratum Stratum Stope Stope Stratum Stope Stope Stratum Stope Stope Stratum Stope Stratum Stope Stope Stope Stratum Stope Stope			

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW12_T37_04

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)									
Depth		latrix	— —		dox Featu		2		
(inches)	Color (moi	st)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-1			100					Fibric Organics	. ———
1-16			70					Hemic Organics	30% roots
			— —		-			-	
					-				
¹Type: C=Coi	ncentration. D=	Depletion. F		Matrix ² Location				nnel. M=Matrix	
Hydric Soil I	ndicators:		I	ndicators for Pi		4	oils:³		
✓ Histosol o	r Histel (A1)		L	Alaska Color C		•		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epip	edon (A2)		Ĺ	Alaska Alpine s	swales (TA	5)		Underlying Layer	
Hydrogen	Sulfide (A4)		L		With 2.5Y H	lue		Other (Explain in Remarl	(S)
☐ Thick Darl	c Surface (A12)			3.0					. Later
Alaska Gle	eyed (A13)			one indicator of and an appropria				nary indicator of wetland hesent	nydrology,
Alaska Re	dox (A14)					·	•		
Alaska Gle	eyed Pores (A15)		⁴ Give details of c	olor chang	e in Remark	S		
Restrictive Laye	er (if present):								
Type:								Hydric Soil Present	? Yes ● No O
Depth (incl	nes):								
HYDROLO	GY								
-	rology Indicat	ors:						Secondary Indi	cators (two or more are required)
-	itors (any one is								ned Leaves (B9)
✓ Surface V				☐ Inundation V	/isible on A	erial Imagei	v (B7)		Patterns (B10)
✓ High Wat				Sparsely Veg		_		_	hizospheres along Living Roots (C3)
✓ Saturation	n (A3)			Marl Deposit					of Reduced Iron (C4)
☐ Water Ma	rks (B1)			Hydrogen Su	ılfide Odor	(C1)		☐ Salt Depos	sits (C5)
	Deposits (B2)			Dry-Season					Stressed Plants (D1)
☐ Drift Depo	osits (B3)			Other (Expla				Geomorph	ic Position (D2)
Algal Mat	or Crust (B4)			_ ` ` '		,		Shallow Ac	quitard (D3)
☐ Iron Depo	osits (B5)							Microtopog	graphic Relief (D4)
Surface S	oil Cracks (B6)							✓ FAC-neutra	
Field Observa	ations:								
Surface Wate	r Present?	Yes 💿	No O	Depth (inche	es): 1				
Water Table F	Present?	Yes 💿	No \bigcirc	Depth (inche	es): 0		Wetla	nd Hydrology Presen	it? Yes 💿 No 🔾
Saturation Pre	esent?	Yes •			,			, -,	
(includes capi		res 💌	NO U	Depth (inche	es): 0				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									
Normality (1997)									

U.S. Army Corps of Engineers Alaska Version 2.0