## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Aug-12	
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T34_07	
	gator(s): SLI, KMK		Landform (hill	side, terrac	e, hummocks etc.): Toeslope	
Local r	elief (concave, convex, none): concave		Slope:	%/ 11.2	· · · · ·	
Subreo	ion : Southcentral Alaska	Lat ·	62.893759846	 \$2	Long.: -148.68145066 Datum: NAD83	
-	p Unit Name:	Lutii	02.000700040		NWI classification: PEM1E	
			-0 Voo	• No ()		
	natic/hydrologic conditions on the site typical for this ti 'egetation                 , Soil	-	ly disturbed?		(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○	
		-	problematic?			
					ded, explain any answers in Remarks.)	
SUM	MARY OF FINDINGS - Attach site map show	wing sar	mpling point	locations	, transects, important features, etc.	
	Hydrophytic Vegetation Present? Yes  No C	)				
Hydric Soil Present? Yes  No  Is the Sampled Area						
	Wetland Hydrology Present? Yes  No C	)	wi	thin a W	etland? Yes $ullet$ No $igloodow$	
Rema	arks: characterizing PEM at center of depression. adjac				soils (PSS1B). unsure if resolution wil allow seperate	
	mapping. tablet data accidentally overwritten. vir	tually ider	ntical to SW12_	T34_09.		
VEGE	TATION - Use scientific names of plants. Li	st all sp	ecies in the	plot.		
	<b></b>	Absolute			Dominance Test worksheet:	
Tree	e Stratum	% Cove		Status	Number of Dominant Species	
1.		0			That are OBL, FACW, or FAC: <u>3</u> (A)	
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)	
3.		0			Percent of dominant Species	
4.		0			That Are OBL, FACW, or FAC: (A/B	3)
5.		0			Prevalence Index worksheet:	
	Total Cover		-		Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species <u>50</u> x 1 = <u>50</u>	
1.	Salix pulchra	25	$\checkmark$	FACW	FACW Species <u>35</u> x 2 = <u>70</u>	
2.	Salix fuscescens	5		FACW	FAC Species x 3 =6	
3.	-	0			FACU Species x 4 =	
4.		0			UPL Species x 5 =	
5.		0			Column Totals: <u>87</u> (A) <u>126</u> (	B)
6.			- 4		Prevalence Index = B/A = 1.448	
7.		0				
8.		0			Hydrophytic Vegetation Indicators:	
9.		0	- 💾		✓ Dominance Test is > 50%	
10.		0	- 🗆		✓ Prevalence Index is $\leq 3.0$	
Her	Total Cover <u>b Stratum</u> 50% of Total Cover:		_ % of Total Cover	: 6	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	n
1.	Comarum palustre	5		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
	Equisetum palustre	5		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
3.	Eriophorum angustifolium	5		OBL	be present, unless disturbed or problematic.	
4.	Carex aquatilis	20		OBL	Plot size (radius, or length x width) 5m	
	Luzula parviflora	2		FAC	Plot size (radius, or length x width) <u>5m</u> % Cover of Wetland Bryophytes	
6.	Carex rotundata	20	_	OBL	(Where applicable)	
			- 4		% Bare Ground	
					Total Cover of Bryophytes _ <u>30</u>	
10.		0	-		Hydrophytic	
	<b>Total Cover</b> 50% of Total Cover:	-		11 /	Vegetation Present? Yes • No ·	
		207		1.4		
Rem	arks: 1% viola sp					

SOIL					Sampling	Point: SW12_T34_07	
Profile Description: (Describe to	the depth needed to a	document the indicator or cor	nfirm the absence of	indicators)			
Depth I	Matrix	Rec	lox Features	,			
(inches) Color (mo	ist) %	Color (moist) <u>%</u> Type <sup>1</sup>		1 <u>Loc</u> <sup>2</sup>	Texture	Remarks	
·							
	,		· · · · · · · · · · · · · · · · · · ·				
						-	
<sup>1</sup> Type: C=Concentration. D=	Depletion. RM=Re		-		annel. M=Matrix		
Hydric Soil Indicators:		Indicators for Pr	4	ic Soils:	7		
Histosol or Histel (A1)		Alaska Color Ch			Alaska Gleyed Without Hu	Je 5Y or Redder	
Histic Epipedon (A2)		Alaska Alpine s			Underlying Layer		
Hydrogen Sulfide (A4)		Alaska Redox V	Vith 2.5Y Hue	V	Other (Explain in Remark	5)	
Thick Dark Surface (A12)	)	3 One indicator of	hydrophytic yogo	tation one priv	mary indicator of wetland h	vdrology	
Alaska Gleyed (A13)		and an appropriat				yarology,	
Alaska Redox (A14)			 				
Alaska Gleyed Pores (A1	5)	<sup>4</sup> Give details of co	bor change in Rei	lidiks			
Restrictive Layer (if present):							
Туре:					Hydric Soil Present	? Yes 🖲 No 🔾	
Depth (inches):							
HYDROLOGY							
Wetland Hydrology Indica	tors:				Secondary Indic	cators (two or more are required)	
Primary Indicators (any one i	s sufficient)					ned Leaves (B9)	
Surface Water (A1)		Inundation V	isible on Aerial Im	agery (B7)	🗌 Drainage P	atterns (B10)	
High Water Table (A2)		Sparsely Veg	etated Concave Si	urface (B8)	Oxidized RI	hizospheres along Living Roots (C3)	
Saturation (A3)		Marl Deposits	s (B15)		Presence o	f Reduced Iron (C4)	
Water Marks (B1)			lfide Odor (C1)		Salt Deposits (C5)		
Sediment Deposits (B2)		Vater Table (C2)	Stressed Plants (D1)				
Drift Deposits (B3)			n in Remarks)		_	c Position (D2)	
Algal Mat or Crust (B4)		— 、	,		Shallow Aq	uitard (D3)	
✓ Iron Deposits (B5)					Microtopog	raphic Relief (D4)	
Surface Soil Cracks (B6)					✓ FAC-neutra	l Test (D5)	
Field Observations:							
Surface Water Present?	Yes 💿 No 🤇	Depth (inche)	s): 3				
Water Table Present?	Yes 🔿 No 🤇	Depth (inche	s):	Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Present? (includes capillary fringe)	Yes 🔿 No 🤇	Depth (inche	s):				
Describe Recorded Data (stre	am gauge, monito	r well, aerial photos, prev	vious inspection) in	f available:			
Demonstration							
Remarks:							
iron floc on substrates							