## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroeled	tric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date:	09-Jul-13	
Applicant/Owner: Alaska Energy Authority						Sampling Point: S	W13_T107_09	
	gator(s): SLI, SCB	•	e, hummocks etc.): Hillside					
Local relief (concave, convex, none): flat Slope:						° Elevation: 723		
Subrea	jion: Interior Alaska Mountains		Lat.:	- 62.85791468	62		Datum: NAD83	
Soil Map Unit Name:						NWI classification: PEM1		
		te typical for this tim	e of vea	ır? Yes	• No O	(If no, explain in Remarks.)	<u> </u>	
Are climatic/hydrologic conditions on the site typical for this time of year?  Yes No (If no, explain in Remarks.)  Are Vegetation , Soil , or Hydrology significantly disturbed?  Are "Normal Circumstances" present?  Yes No								
				problematic?		eded, explain any answers in Remarks.)		
		,						
SUMN	MARY OF FINDINGS - Attach	Yes  No	ing sar	mpling poin	t locations	s, transects, important features,	etc.	
	Hydrophytic Vegetation Present?	pled Area						
	Hydric Soil Present? Yes ● No ○				ithin a W			
	Wetland Hydrology Present?	Yes  No		l l		ottaria :		
Rema	arks: standing water present, litter a standing water.	nd/or moss underne	ath. wa	ter flowing thr	ough commi	unity, suspect high water levels as calca	an and equsyl in	
	standing water.							
VEGE	TATION - Use scientific nam	es of plants. List	t all sp	ecies in the	plot.			
		-	Absolute		Indicator	Dominance Test worksheet:		
	e Stratum_	_	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:	3 (A)	
1.			0	-		Total Number of Dominant		
2.				-		Species Across All Strata:	3(B)	
3.			0	-		Percent of dominant Species That Are OBL, FACW, or FAC:	100 00/ (A/P)	
4. 5.				-		mat Ale Obl., FACW, OI FAC.	100.0% (A/B)	
5.		Total Cover:		- 🗀		Prevalence Index worksheet:		
						Total % Cover of: Multiply	•	
Зар	ling/Shrub Stratum 50%	or rotal cover		_	r:0	OBL Species 0 x 1 =		
	Salix pulchra		5		FACW	FACW Species 6 x 2 =		
			5	_	FAC	FACUL Species x 3 =		
			0.1		FACU	FACU Species $0.1$ $\times 4 = 0.1$ UPL Species $0 \times 5 = 0.1$	000	
	Picea mariana		0.1		FACW			
5.			0	-		Column Totals: 81.1 (A)	<u>237.4</u> (B)	
6. 7.			0	-		Prevalence Index = B/A =	2.927	
_				-		Hudronhytic Vogotation Indicators		
8. 9.			0	-		Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%		
10.			0			✓ Prevalence Index is ≤3.0		
			10.2			Morphological Adaptations <sup>1</sup> (Provide	cupporting data in	
Her	<b>b Stratum</b> 50%	of Total Cover:5			er: 2.04	Remarks or on a separate sheet)	supporting data in	
1.	Calamagrostis canadensis		60	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation	<sup>1</sup> (Explain)	
	E. S. C. C. S. L. C. S.		10		FAC	<sup>1</sup> Indicators of hydric soil and wetland hyd		
3.	Detector frieder		1		FACW	be present, unless disturbed or problemate		
4.	Cornus suecica		0.1	_	FAC	Plot size (radius, or length x width)	_2x5m	
5.			0	- 📙		% Cover of Wetland Bryophytes	ZXJIII	
			0	- 📙		(Where applicable)		
			0	- 📙		% Bare Ground	0	
				-		Total Cover of Bryophytes	_10	
			0	-				
10.			0	- 🗆		Hydrophytic		
	E00/				r. 1422	Vegetation Present? Yes ● No ○		
	50%	55.	<u> </u>	o or rotal cover	14.22_	1.050.00		
		Total Cover: of Total Cover: <u>35.</u>	-		: <u>14.22</u>	Vegetation		

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SOIL Sampling Point: SW13\_T107\_09 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) **Redox Features** Depth <u>Loc</u> 2 (inches) Color (moist) Color (moist) % Type <sup>1</sup> <sup>1</sup>Type: C=Concentration. D=Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining. RC=Root Channel. M=Matrix Indicators for Problematic Hydric Soils:<sup>3</sup> **Hydric Soil Indicators:** Alaska Gleyed Without Hue 5Y or Redder Histosol or Histel (A1) Alaska Color Change (TA4) **Underlying Layer** Alaska Alpine swales (TA5) Histic Epipedon (A2) Alaska Redox With 2.5Y Hue **✓** Other (Explain in Remarks) Hydrogen Sulfide (A4) Thick Dark Surface (A12) <sup>3</sup> One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, Alaska Gleyed (A13) and an appropriate landscape position must be present Alaska Redox (A14) <sup>4</sup> Give details of color change in Remarks Alaska Gleyed Pores (A15) Restrictive Layer (if present): Yes ● No ○ Type: **Hydric Soil Present?** Depth (inches): Remarks: assume hydric soil due to hydrophytic vegetation and standing water

## HYDROLOGY

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Wetland Hydrology Indica	itors:	Secondary Indicators (two or more are required)						
Primary Indicators (any one	is sufficient)	Water Stained Leaves (B9)						
✓ Surface Water (A1)		Inundation Visible on Aerial Image	ery (B7) Drainage Patterns (B10)					
High Water Table (A2)		Sparsely Vegetated Concave Surfa	ice (B8) Oxidized Rhizospheres along Living Roots (C3)					
Saturation (A3)		Marl Deposits (B15)	Presence of Reduced Iron (C4)					
☐ Water Marks (B1)		Hydrogen Sulfide Odor (C1)	Salt Deposits (C5)					
Sediment Deposits (B2)		Dry-Season Water Table (C2)	Stunted or Stressed Plants (D1)					
☐ Drift Deposits (B3)		Other (Explain in Remarks)	Geomorphic Position (D2)					
Algal Mat or Crust (B4)			Shallow Aquitard (D3)					
☐ Iron Deposits (B5)			☐ Microtopographic Relief (D4)					
Surface Soil Cracks (B6)	ı		FAC-neutral Test (D5)					
Field Observations:								
Surface Water Present?	Yes ● No ○	Depth (inches): 3						
Water Table Present? Yes O No •		Depth (inches):	Wetland Hydrology Present? Yes ● No ○					
Saturation Present? (includes capillary fringe) Yes No •		Depth (inches):						
Describe Recorded Data (stre	am gauge, monitor w	ell, aerial photos, previous inspection) if av	ailable:					
Remarks:								

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