## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 20-Jun-12
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW12_T27_06
Investigator(s): JGK	Landform (hillside, terrace, hummocks etc.): Hillside
Local relief (concave, convex, none): hummocky	Slope: 17.6 % / 10.0 ° Elevation: 840
Subregion : Interior Alaska Mountains Lat.:	62.8609699085 Long.: -148.66394997 Datum: WGS84
Soil Map Unit Name:	NWI classification: PSS1/EM1B
	ar? Yes ● No ○ (If no, explain in Remarks.)   htty disturbed? Are "Normal Circumstances" present? Yes ● No ○   problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No () No () No ()	Is the Sampled Area within a Wetland?	Yes $\odot$ No $\bigcirc$
Remarks:				

## **VEGETATION** - Use scientific names of plants. List all species in the plot.

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tre	e Stratum	% Cover	Species?	Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC:6(A)		
2.		0			Total Number of Dominant Species Across All Strata: 6 (B)		
3.							
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.							
	Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sapling/Shrub Stratum 50% of Total Cover:			of Total Cover:	0			
-		0 20/1			·		
1.	Alnus viridis ssp. crispa	0.1		FAC	FACW Species <u>25</u> x 2 = <u>50</u>		
2.	Dasiphora fruticosa	20		FAC	FAC Species <u>85</u> x 3 = <u>255</u>		
3.	Vaccinium uliginosum	20	$\checkmark$	FAC	FACU Species $0 x 4 = 0$		
4.	Betula nana	25	$\checkmark$	FAC	UPL Species x 5 =		
5.	Andromeda polifolia (IAM)	2		OBL	Column Totals: <u>114</u> (A) <u>309</u> (B)		
6.		0					
					Prevalence Index = B/A = 2.711		
					Hydrophytic Vegetation Indicators:		
					✓ Dominance Test is > 50%		
		0			✓ Prevalence Index is ≤3.0		
	Total Cover:	67.1			$\Box$ Morphological Adaptations <sup>1</sup> (Provide supporting data in		
Herb Stratum 50% of Total Cover: 33.55					Remarks or on a separate sheet)		
1.	Trichophorum caespitosum	2		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Sanguisorba menziesii	10	$\checkmark$	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Equisetum pratense	5		FACW	be present, unless disturbed or problematic.		
4.	Calamagrostis canadensis	10	$\checkmark$	FAC	Plot size (radius, or length x width) 10m		
5.	Carex macrochaeta	20	$\checkmark$	FACW			
6.		0			% Cover of Wetland Bryophytes _5 (Where applicable)		
		•			% Bare Ground _2		
					Total Cover of Bryophytes 15		
		0			Hydrophytic		
	Total Cover:	47			Vegetation		
50% of Total Cover: 20% of Total Cover: 9.4 Present? Yes • No							
Remarks: salix sp. 5% coll fleshy forb from plot 4 3% compal 1 tr alncri							

SOIL

Profile Description: (Describe to the dep Matrix			nfirm the ab		ators)		
Depth (inches) Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12				.,,,,,		Fibric Organics	
12-18						Hemic Organics	
12-10							
·							
						<u></u>	
<sup>1</sup> Type: C=Concentration. D=Deple	tion. RM=Redu	ced Matrix <sup>2</sup> Location	: PL=Por	e Lining. RO	C=Root Cha	nnel. M=Matrix	
Hydric Soil Indicators:		Indicators for Pr	oblemati	c Hydric S	oils: <sup>3</sup>		
Histosol or Histel (A1)		Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epipedon (A2)		🗌 Alaska Alpine s	wales (TA	5)		Underlying Layer	
Hydrogen Sulfide (A4)		🗌 Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remark	s)
Thick Dark Surface (A12)							
Alaska Gleyed (A13)		<sup>3</sup> One indicator of and an appropriat	hydrophy	tic vegetation	on, one prim	nary indicator of wetland h	ydrology,
Alaska Redox (A14)						Sent	
Alaska Gleyed Pores (A15)		<sup>4</sup> Give details of co	olor chang	e in Remarl	s		
Restrictive Layer (if present):							
Туре:						Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inches):						inguite boil i rebelle	
HYDROLOGY							
Wetland Hydrology Indicators:						Secondary India	cators (two or more are required)
Primary Indicators (any one is sufficient	cient)					Water Stair	ned Leaves (B9)
Surface Water (A1)		Inundation V	sible on A	erial Image	ry (B7)	🗌 Drainage P	atterns (B10)
High Water Table (A2)		Sparsely Veg	etated Co	ncave Surfa	ce (B8)	Oxidized R	nizospheres along Living Roots (C3)
Saturation (A3)		Marl Deposits	(B15)				f Reduced Iron (C4)
Water Marks (B1)		Hydrogen Su	fide Odor	(C1)		Salt Depos	its (C5)
Sediment Deposits (B2)		Dry-Season V				_	Stressed Plants (D1)
Drift Deposits (B3)		Other (Explai	n in Rema	ırks)			c Position (D2)
Algal Mat or Crust (B4)						Shallow Aq	
Iron Deposits (B5)							raphic Relief (D4)
Surface Soil Cracks (B6)						✓ FAC-neutra	l Test (D5)
Field Observations:							
	s 💿 No 🔾	Depth (inche	s): 0.5				
	5 • No 🔿	Depth (inche	s): 12		Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾
Saturation Present? Yes (includes capillary fringe)	; • No O	Depth (inche	s): 0				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:							
Remarks:							