## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 30-Jul-13								
Applicant/Owner: Alaska Energy Authority Sampling Point: SW13_T156_09												
Investigator(s): BAB Landform (hillside, terrace, hummocks etc.): depression												
Local relief (concave, convex, none): concave		Slope:	%/ 6.1	° Elevation: 989								
Subregion : Interior Alaska Mountains	Lat:	63.280024901										
	Lat	03.20002490	12									
Soil Map Unit Name:				NWI classification: PEM1E								
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 ○   Are Vegetation □ , Soil □ , or Hydrology □ naturally problematic? (If needed, explain any answers in Remarks.)   But Month Provide the site map showing sampling point locations, transects, important features, etc.												
Hydrophytic Vegetation Present? Yes No												
Hydric Soil Present? Yes												
Wetland Hydrology Present? Yes • No C	)	wi	thin a W	etland? Yes Vio C								
Remarks: wetland between two between two beaver dams.												
VEGETATION - Use scientific names of plants. Li	st all spe Absolute % Cover		plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species								
1.	0		Julus	That are OBL, FACW, or FAC: <u>2</u> (A)								
2	0			Total Number of Dominant								
2	0			Species Across All Strata: <u>2</u> (B)								
	0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)								
5.	0											
Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:								
Sapling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0									
1												
2.				FAC Species $15$ x 3 = $45$ FACU Species $0$ x 4 = $0$								
3.				UPL Species $0 \times 5 = 0$								
4 5												
				Column Totals: <u>53.2</u> (A) <u>91.20</u> (B)								
	0			Prevalence Index = B/A = <u>1.714</u>								
8	0			Hydrophytic Vegetation Indicators:								
9.	0			✓ Dominance Test is > 50%								
10.	0			✓ Prevalence Index is ≤3.0								
Total Cover Herb Stratum 50% of Total Cover:		of Total Cover	: 0	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)								
1. Carex aquatilis	20	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)								
2. Calamagrostis canadensis	15		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must								
3. Arctagrostis latifolia	5		FACW	be present, unless disturbed or problematic.								
4. Eriophorum angustifolium	10		OBL	Plot size (radius, or length x width) 10m								
5. Carex saxatilis	3		FACW	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes								
6. Hippuris vulgaris	0.1		OBL	(Where applicable)								
7. Ranunculus hyperboreus	0.1		OBL	% Bare Ground								
8. Sparganium hyperboreum	0.1		OBL	Total Cover of Bryophytes								
9												
10	0			Hydrophytic								
Total Cover: _2 50% of Total Cover: _2	-	of Total Course	10.00	Vegetation Present? Yes • No ·								
	20%		10.66									
Remarks:												

SOIL
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)     Matrix   Redox Features									
Depth (inches) Colo	r (moist)	% Col	or (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks	
	. (		<u>, (</u>						
<sup>1</sup> Type: C=Concentratio	n. D=Depletion.	RM=Reduced Ma	atrix <sup>2</sup> Locatio	n: PL=Por	e Lining. R(	C=Root Cha	nnel. M=Matrix		
Hydric Soil Indicators	c.	Inc	licators for Pr	rohlemati	r Hydric S	oile: <sup>3</sup>			
Histosol or Histel (A			Alaska Color Cl		4		Alaska Gleyed Without H	ue 5V or Redder	
Histic Epipedon (A2		_	Alaska Alpine s	• •	,		Underlying Layer		
Hydrogen Sulfide (A	-	_	Alaska Redox \		-	$\checkmark$	Other (Explain in Remark	(S)	
Thick Dark Surface	,								
Alaska Gleyed (A13)	. ,		ne indicator of d an appropriat				nary indicator of wetland h	iydrology,	
Alaska Redox (A14)	-				•		esent		
Alaska Gleyed Pores	s (A15)	4 G	ive details of c	olor change	e in Remark	KS			
Restrictive Layer (if pres	ent):								
Type:							Hydric Soil Present	? Yes 🖲 No 🔾	
Depth (inches):								• • • • • • • • • • • • • • • • • • • •	
Remarks:						I			
assume hydric soil due to	o hvdrophytic ve	aetation and inur	ndation.						
	· · · · · · · · ·	5							
HYDROLOGY									
Wetland Hydrology Ir	ndicators:						Secondary Indi	cators (two or more are required)	
Primary Indicators (any		)						ned Leaves (B9)	
Surface Water (A1)	)	V	Inundation V	/isible on A	erial Image	ery (B7)	🗌 Drainage P	Patterns (B10)	
High Water Table (	A2)	V	Sparsely Veg	jetated Cor	ncave Surfa	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)	
Saturation (A3)	Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4)								
Water Marks (B1)	er Marks (B1) 🗌 Hydrogen Sulfide Odor (C1) 🗌 Salt Deposits (C5)								
Sediment Deposits			Dry-Season				_	Stressed Plants (D1)	
Drift Deposits (B3)		L	Other (Expla	in in Rema	rks)			ic Position (D2)	
Algal Mat or Crust (	(B4)							uitard (D3)	
Iron Deposits (B5)	(50)						Microtopog	graphic Relief (D4)	
Surface Soil Cracks	(Bb)						► FAC-fieuura	al Test (US)	
Field Observations: Surface Water Present?		No O	Depth (inche	), 24					
	_	_	i v	,			l Hadaa la ma Dua aan		
Water Table Present?		No 💿	Depth (inche	2s):		Wetiar	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Present? (includes capillary fring	e)	No 💿	Depth (inche	,					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									