## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site	Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 06-Jul-13
Applicant/C	owner: Alaska Energy Authority				Sampling Point: SW13_T115_05
nvestigato			Landform (hil	lside, terrac	ce, hummocks etc.): Lowland
Local relief	(concave, convex, none): flat		Slope:		7 ° Elevation: 931
Subregion :	Interior Alaska Mountains	Lat ·	63.014778256		Long.: -148.306237459 Datum: NAD83
Soil Map Ur			00.014770200	30	NWI classification: PEM1F
	c/hydrologic conditions on the site typical for this t	ima af vaar	o Voc	● No ○	
	ation , Soil , or Hydrology	significantl	y disturbed?	Are "N	(If no, explain in Remarks.)  Normal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)
SUMMAF	RY OF FINDINGS - Attach site map sho				
	rophytic Vegetation Present? Yes  No				, , , , , , , , , , , , , ,
-	ric Soil Present? Yes   No		Is	the Sam	ipled Area
-	land Hydrology Present? Yes  No		w	ithin a W	etland? Yes ● No ○
Remarks:			<u> </u>		
/EGETA	TION -Use scientific names of plants. L	ist all spe			Dominance Test worksheet:
Tree Str	atum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1		0			That are OBL, FACW, or FAC: (A)  Total Number of Dominant
2		0_			Species Across All Strata:2(B)
3		0			Percent of dominant Species
		0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5		0			Prevalence Index worksheet:
	Total Cove				Total % Cover of: Multiply by:
Sapling	<b>/Shrub Stratum</b> 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species <u>40</u> x 1 = <u>40</u>
1.		0			FACW Species 0 x 2 = 0
					FAC Species0 x 3 =0
_		•			FACU Species 0 x 4 = 0
					UPL Species
5		0			Column Totals:40 (A)40 (B)
6		0			
7		0			Prevalence Index = B/A = 1.000
8		0			Hydrophytic Vegetation Indicators:
		0			✓ Dominance Test is > 50%
10		0			✓ Prevalence Index is ≤3.0
Herb St	Total Cover ratum 50% of Total Cover: _		% of Total Cove	r: <u>0</u>	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1. <u>C</u> a	rex aquatilis	25	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Eric	ophorum angustifolium	15	<b>~</b>	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3		0			be present, unless disturbed or problematic.
		0			Plot size (radius, or length x width)
		0			% Cover of Wetland Bryophytes
6					(Where applicable)
					% Bare Ground
					Total Cover of Bryophytes
10	Total Cover				Hydrophytic
	Intal Cove	r: <u>40</u>			Vegetation
	50% of Total Cover:	20 20%	of Total Cover	8	Present? Yes   No

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SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

Depth Matrix Redox Features

Sampling Point: SW13\_T115\_05

Depth			Red					
(inches) Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
				-				
17 00			2					
<sup>1</sup> Type: C=Concentration. D=	Depletion. I	RM=Reduce					nnel. M=Matrix	
Hydric Soil Indicators:		Indicators for Pro		4	oils:³			
Histosol or Histel (A1)			Alaska Color Ch				Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine s	•	•		Underlying Layer	,
Hydrogen Sulfide (A4)			Alaska Redox W	Vith 2.5Y F	lue	V	Other (Explain in Remark	S)
Thick Dark Surface (A12)			<sup>3</sup> One indicator of	hydronhyt	ic vegetatio	n one nrim	nary indicator of wetland h	vdrology
Alaska Gleyed (A13)			and an appropriat	e landscap	e position i	must be pre	esent	yurology,
Alaska Redox (A14)			4 Give details of co	olor change	in Remark	(S		
Alaska Gleyed Pores (A15	o)							
Restrictive Layer (if present):								
Type:							<b>Hydric Soil Present</b>	? Yes ● No O
Depth (inches):								
Vetland Hydrology Indica								cators (two or more are required)
Vetland Hydrology Indica Primary Indicators (any one i			Tava daktar M	inital and A		(D7)	Water Stai	ned Leaves (B9)
Vetland Hydrology Indica Primary Indicators (any one i Surface Water (A1)			Inundation Vi				Water Stai Drainage F	ned Leaves (B9) latterns (B10)
Vetland Hydrology Indica Primary Indicators (any one i  Surface Water (A1)  High Water Table (A2)			Sparsely Vege	etated Cor			Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
Vetland Hydrology Indica Primary Indicators (any one i Surface Water (A1) High Water Table (A2) Saturation (A3)			Sparsely Vege	etated Cor s (B15)	icave Surfa		Water Stai Drainage F Oxidized R Presence o	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
Vetland Hydrology Indica Primary Indicators (any one i  ✓ Surface Water (A1)  ☐ High Water Table (A2)  ☐ Saturation (A3)  ☐ Water Marks (B1)			Sparsely Vege Marl Deposits Hydrogen Sul	etated Cor s (B15) Ifide Odor	cave Surfa		Water Stai Drainage F Oxidized R Presence c Salt Depos	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5)
Wetland Hydrology Indica Primary Indicators (any one i  ✓ Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)			Sparsely Vege Marl Deposits Hydrogen Sul Dry-Season V	etated Cor s (B15) Ifide Odor Vater Tabl	cave Surface (C1) e (C2)		Water Stai Drainage F Oxidized R Presence o Salt Depos Stunted or	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) its (C5) Stressed Plants (D1)
Wetland Hydrology Indica Primary Indicators (any one i  ✓ Surface Water (A1)  ☐ High Water Table (A2)  ☐ Saturation (A3)  ☐ Water Marks (B1)			Sparsely Vege Marl Deposits Hydrogen Sul	etated Cor s (B15) Ifide Odor Vater Tabl	cave Surface (C1) e (C2)		Water Stai Drainage F Oxidized R Presence o Salt Depos Stunted or Geomorph	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5)
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High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Field Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  (includes capillary fringe)  Describe Recorded Data (streaments:	Yes • Yes · Yes · Yes · Yes ·	No • No • nonitor wel	Sparsely Vege Marl Deposits Hydrogen Sul Dry-Season V Other (Explain  Depth (inchese	etated Cor s (B15) lfide Odor Vater Tabla n in Rema ss): 5 ss): 5	(C1) (C2) (C2) (C2)	Wetlar	Water Stai Drainage F Oxidized R Presence of Salt Depos Stunted or Geomorph Shallow Ac Microtopog	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) if Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) juitard (D3) jraphic Relief (D4) il Test (D5)
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