WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Da	te: 02-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T162_10
Investigator(s): WAD, RWM	Landform (hills	side, terrace, hummocks etc.): terrace	
Local relief (concave, convex, none): flat	Slope: 1.7	% / <u>1.0</u> • Elevation: <u>1319</u>	
Subregion : Interior Alaska Mountains	_at.: 63.112000108	Long.:148.09379077	Datum: WGS84
Soil Map Unit Name:		NWI classification: PE	M1E
	of year? Yes (ficantly disturbed? rally problematic?	 No (If no, explain in Remarks.) Are "Normal Circumstances" present? (If needed, explain any answers in Remark 	Yes • No O
SUMMARY OF FINDINGS - Attach site map showing	g sampling point	locations, transects, important feature	es, etc.
Hydrophytic Vegetation Present? Yes $ullet$ No $igodot$			

	Hydric Soil Present? Wetland Hydrology Present?	Yes ● No ○ Yes ● No ○	Is the Sampled Area within a Wetland?	Yes $lacksquare$ No $igodot$		
Remarks: Wet sedge meadow at base of gelifluction lobe.						

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

Absolute Dominant Indicator Tree Stratum % Cover Species? Status 1. 0 That are OBL, FACW, or FAC: 2	
	(A)
······································	(A)
2. 0 Total Number of Dominant Species Across All Strata: 2	(B)
0 Percent of dominant Species 4. 0 That Are OBL, FACW, or FAC: 100.0%	(A/B)
Total Cover: 0 Prevalence Index worksheet: Total % Cover of: Multiply by:	
Sapling/Shrub Stratum 50% of Total Cover: 0 20% of Total Cover: 0 OBL Species 50 x 1 = 50	
1. Salix pulchra 1 FACW FACW Species 6 x 2 = 12	
$EAC Species 1 \times 3 = -2$	
2. Salix reticulata 1 FAC FAC FAC Species 1 X 3 = 3 3. Salix arctica 1 FACU FACU Species 1 X 4 = 4	
4. Dryas octopetala 1 UPL UPL Species 1 x 5 = 5	
5. Salix polaris 5 FACW Column Totals: 59 (A) 74	(B)
6. 0	
0 Prevalence Index = B/A = <u>1.254</u>	
8 0 Hydrophytic Vegetation Indicators:	
9 0	
10. 0 ✓ Prevalence Index is ≤3.0	
Total Cover: 9 Morphological Adaptations ¹ (Provide supporting of	ata in
Herb Stratum 50% of Total Cover: 4.5 20% of Total Cover: 1.8 Remarks or on a separate sheet)	
1. Carex aquatilis 45 Image: OBL Problematic Hydrophytic Vegetation ¹ (Explain)	
2. Eriophorum angustifolium <u>5</u> <u>OBL</u> ¹ Indicators of hydric soil and wetland hydrology must	
3 be present, unless disturbed or problematic.	
4 0 Plot size (radius, or length x width) 10m	
5 0 % Cover of Wetland Bryophytes	_
6 0 (Where applicable)	_
7 0 % Bare Ground	_
8 0 Total Cover of Bryophytes	_
9 0	
10 0 Hydrophytic	
Total Cover: 50 Vegetation	
50% of Total Cover: <u>25</u> 20% of Total Cover: <u>10</u> Present? Yes • No •	
Remarks:	

SOIL

Profile Description	on: (Describe to the o Mat		ment the indicator or co Re	nfirm the at dox Featu		cators)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-8		100					Fibric Organics	fine sand mixed in.
¹ Type: C=Con	centration. D=De	pletion. RM=Reduc	ed Matrix ² Locatio	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix	
Hydric Soil Ir	ndicators:		Indicators for P	oblemati	c Hvdric S	oils: ³		
-	Histel (A1)		Alaska Color C		4] Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epipe	. ,		Alaska Alpine		,		Underlying Layer	
	Sulfide (A4)		Alaska Redox	-	-		Other (Explain in Remarl	ഭ)
	Surface (A12)							
Alaska Glev	. ,						nary indicator of wetland h	iydrology,
Alaska Red			and an appropria	te landsca	pe position	must be pre	esent	
	yed Pores (A15)		⁴ Give details of c	olor chang	e in Remarl	ks		
Restrictive Laye	r (il present):						Undria Cail Dreasant	? Yes 🖲 No 🔿
Type: Depth (inch	oc);						Hydric Soil Present	r res ⊗ No ⊂
Remarks:								
refusal at rock,	variable depth, av	g 9in.						
HYDROLO								
-	ology Indicator							cators (two or more are required)
·	tors (any one is su	Imicient)				()	_	ned Leaves (B9)
Surface W	. ,				-			Patterns (B10)
✓ High Wate	. ,		Sparsely Veg		ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)
Saturation			Marl Deposit		(61)		Salt Depos	of Reduced Iron (C4)
Water Mar			Hydrogen Su					
	Deposits (B2)		Dry-Season		• •		_	Stressed Plants (D1) ic Position (D2)
	or Crust (B4)		Other (Expla	in in Rema	irks)			uitard (D3)
Iron Depo								graphic Relief (D4)
· _ ·	oil Cracks (B6)						FAC-neutra	
Field Observa								
Surface Water		res 🔿 No 🖲	Depth (inche	<i>bc)</i> .				
						Watle		t? Yes 🖲 No 🔾
Water Table P			Depth (inche	es): 2		wetta	nd Hydrology Presen	t? fes 🖲 no 🖯
Saturation Pre (includes capil		′es ● No ○	Depth (inche	es): 0				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:								
Remarks:								