WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling	Date: 07-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T187_04
Investigator(s): JGK	Landform (hills	side, terrace, hummocks etc.): Lowland	
Local relief (concave, convex, none): tussocks	Slope: 5.2	% / 3.0 ° Elevation: 621	
Subregion : Interior Alaska Mountains	Lat.: 62.836863995	Long.: -148.18426764	Datum: WGS84
Soil Map Unit Name:		NWI classification:	PSS3/EM1B
	of year? Yes (nificantly disturbed? urally problematic?	 No (If no, explain in Remarks Are "Normal Circumstances" present? (If needed, explain any answers in Remarks) 	Yes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map showin	ng sampling point	locations, transects, important feat	tures, etc.
Hydronbytic Vegetation Present? Yes 🔍 No 🔿			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	-	Is the Sampled Area within a Wetland?	Yes $\ lacebla $ No \bigcirc
Remarks: DUNN SITE 1446 SOIL 1447				

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

			۵her	Absolute Dominant		Indicator	Dominance Test worksheet:		
Tree Stratum			Absolute Dominant % Cover Species?		Status	Number of Dominant Species			
1.	Picea mariana			1		FACW	That are OBL, FACW, or FAC:6(A)		
2.				0			Total Number of Dominant Species Across All Strata: 6 (B)		
3.				0			Percent of dominant Species		
4.				0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)		
5.				0			Prevalence Index worksheet:		
		Total Cover		1			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum	50% of Total Cover:	0.5	20%	of Total Cover:	0.2	OBL Species $16 \times 1 = 16$		
1.	Empetrum nigrum			5		FAC	FACW Species 75 x 2 = 150		
	Potula nana			10		FAC	FAC Species <u>67</u> x 3 = <u>201</u>		
3.				15	\checkmark	FAC	FACU Species 0 x 4 = 0		
4.				5		FAC	UPL Species $0 \times 5 = 0$		
5.	Ledum decumbens			30	\checkmark	FACW	Column Totals: 158 (A) 367 (B)		
6.	Salix fuscescens			10		FACW			
7.	Picea mariana			12		FACW	Prevalence Index = B/A = 2.323		
8.	Arctostaphylos rubra			1		FAC	Hydrophytic Vegetation Indicators:		
9.				1		OBL	✓ Dominance Test is > 50%		
10.	· · · ·			0			✓ Prevalence Index is ≤ 3.0		
Total Cover: 89						Morphological Adaptations ¹ (Provide supporting data in			
Herb Stratum 50% of Total Cover: 44.5		20%	of Total Cover:	17.8	Remarks or on a separate sheet)				
1.	Carex aquatilis			15	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Carox bigolowiji			30	\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must		
3.	Tofieldia pusilla			1		FAC	be present, unless disturbed or problematic.		
4.	Pedicularis labradorica			2		FACW	Plot size (radius, or length x width) 10m		
5.	Rubus chamaemorus			20	\checkmark	FACW			
6.				0			% Cover of Wetland Bryophytes <u>20</u> (Where applicable)		
				0			% Bare Ground _2		
				0			Total Cover of Bryophytes 55		
				0					
				0			Hydrophytic		
Total Cover: 68				Vegetation					
	!	50% of Total Cover:	34	20%	of Total Cover:	13.6	Present? Yes \bullet No \bigcirc		
Remarks: Lichen 10									

SOIL

Profile Descripti Depth	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features								
(inches)	Color (mois	it) %	Color (moist)	%	Type ¹	<u>Loc</u> ²	Texture	Remarks	
0-11							Fibric Organics		
¹ Type: C=Cor	ncentration. D=I	Depletion. RM=Re	duced Matrix ² Locatio	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:		Indicators for P	roblemati	c Hydric S	oils: ³			
	r Histel (A1)		Alaska Color C		4		Alaska Gleyed Without Hu	ue 5Y or Redder	
Histic Epip	. ,		Alaska Alpine				Underlying Layer		
	Sulfide (A4)		Alaska Redox	-	-		Other (Explain in Remark	s)	
	. ,			///// 2.51 .				-,	
	c Surface (A12)		³ One indicator of	f hydrophy ^r	tic vegetatic	on, one prim	nary indicator of wetland h	ydrology,	
Alaska Gle			and an appropria						
Alaska Rec			⁴ Give details of c	olor chang	e in Remark	ks			
АІаѕка Gie	eyed Pores (A15)	1			•				
Restrictive Laye	er (if present):								
Type: Ice							Hydric Soil Present	? Yes 🖲 No 🔾	
Depth (inch	nes): 11						•		
Remarks:									
HYDROLO	cγ								
	o i rology Indicat	ors					Secondary India	ators (two or more are required)	
-	tors (any one is							ned Leaves (B9)	
		Sumciency		"-:-la on A	Imago	. (דמ)			
Surface Water (A1) Inundation Visible on Aerial Imagery (B7) Drainage Patterns (B10)									
	High Water Table (A2) Sparsely Vegetated Concave Surface (B8)						Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)		
	Saturation (A3)						Salt Deposits (C5)		
Water Marks (B1) Hydrogen Sulfide Odor (C1)									
	Sediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1)								
	Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2)								
	or Crust (B4)						Shallow Aq	. ,	
Iron Depo								raphic Relief (D4)	
Surface Se	oil Cracks (B6)					1	✓ FAC-neutra	l Test (D5)	
Field Observa	ations:	\sim							
Surface Water	r Present?	Yes 🔿 No 🤇	Depth (inche	es):					
Water Table P	Present?	Yes 💿 No 🤇	Depth (inche	es): 5		Wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Pre		Yes 💿 No 🤇							
(includes capi									
Describe Record	ded Data (strea	m gauge, monitor	well, aerial photos, pre	vious inspe	ection) if ava	ailable:			
Remarks:									