WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Da	ate: 03-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T121_06
Investigator(s): JGK	Landform (hills	side, terrace, hummocks etc.): Hillside	
Local relief (concave, convex, none): hummocky	Slope: 3.5	% / 2.0 ° Elevation: 259	
Subregion : Southcentral Alaska Li	at.: 62.806450248	Long.: -149.576754808	Datum: WGS84
Soil Map Unit Name:		NWI classification: Up	land
	year? Yes cantly disturbed? Ally problematic?	(Yes 💿 No 🔿 rks.)
SUMMARY OF FINDINGS - Attach site map showing	sampling point	locations, transects, important featur	es, etc.
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ○ No ●		the Sampled Area	

Hydric Soil Present? Wetland Hydrology Present?	Yes ○ Yes ○	No 🔍 No 🔍	within a Wetland?	Yes 🔿 No 🖲
Remarks: DUNN SITE 1377 SOIL 1378				

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

			Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tre	e Stratum		% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)	
1.	Picea mariana		8		FACW		
2.	Betula neoalaskana		1		FACU	Total Number of Dominant Species Across All Strata:6(B)	
3.			0			Percent of dominant Species	
4.			0			That Are OBL, FACW, or FAC: 83.3% (A/B)	
5.			0			Prevalence Index worksheet:	
		Total Cover	9	_		Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum 50%	of Total Cover:	4.5 20%	6 of Total Cover:	1.8	OBL Species x 1 =	
1.	Ledum decumbens		15		FACW	FACW Species <u>68</u> x 2 = <u>136</u>	
2.	Dicea mariana		40	\checkmark	FACW	FAC Species <u>37</u> x 3 = <u>111</u>	
3.	Spiraga atovopii		10	\checkmark	FACU	FACU Species <u>16.1</u> x 4 = <u>64.40</u>	
4.			10		FAC	UPL Species x 5 =	
5.	Vacainium vitia idaga				FAC	Column Totals: 121.1 (A) 311.4 (B)	
6.	Betula nana		10		FAC		
7.	Betula neoalaskana		0.1	_	FACU	Prevalence Index = B/A = <u>2.571</u>	
8.						Hydrophytic Vegetation Indicators:	
9.			0			✓ Dominance Test is > 50%	
			0			✓ Prevalence Index is ≤3.0	
		Total Cover	95.1	_		Morphological Adaptations ¹ (Provide supporting data in	
Herb Stratum 50% of Total Cover: 47.55 20% of Total Cover:				19.02	Remarks or on a separate sheet)		
1.	Equisetum sylvaticum		2		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Cornus suecica		10		FAC	¹ Indicators of hydric soil and wetland hydrology must	
3.	Rubus chamaemorus		5		FACW	be present, unless disturbed or problematic.	
4.			0		. <u> </u>	Plot size (radius, or length x width)	
5.			0			% Cover of Wetland Bryophytes 10	
6.			0			(Where applicable)	
7.			0			% Bare Ground	
8.			0			Total Cover of Bryophytes60	
				_			
						Hydrophytic	
	Total Cover:17				Vegetation		
	50%	of Total Cover:	8.5 20%	6 of Total Cover:	3.4	Present? Yes \bullet No \bigcirc	
Remarks: 10% LICHEN. DWARF PICMAR IN SHRUB LAYER							

Profile Description: (Describe to the depth needed to document the indicator or confirm the abs							cators)			
Depth - (inches)	Color (m	noist)	%	Color (n	noist)	%	Type ¹	Loc 2	Texture	Remarks
0-3									Fibric Organics	
3-8	5YR	2.5/2	60	5YR	3/3	40	C	M	Fine Sandy Loam	-
8-12	10YR	4/6	70						Fine Loamy Sand	INCLUSIONS OF COURSE SAND (30%)
12-18	10YR	4/4							Silt	WITH SOME COARSE SAND
										-
······	-		· ·					-		
······	-		· ·					-		
¹ Type: C=Conc	entration. D)=Depletior	n. RM=Redu	ced Matrix	² Location	: PL=Por	e Lining. R	C=Root Cha	annel. M=Matrix	
Hydric Soil Ind	dicators:			Indicat	ors for Pro	oblemati	c Hvdric S	oils: ³		
Histosol or H					ka Color Ch		4		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epiped	. ,			Alas	ka Alpine sv	wales (TA	5)		Underlying Layer	
Hydrogen Si				🗌 Alas	ka Redox W	/ith 2.5Y H	Hue		Other (Explain in Remar	ks)
Thick Dark S	Surface (A1	2)		2						
Alaska Gleye	ed (A13)				ndicator of appropriate				mary indicator of wetland I esent	hydrology,
Alaska Redo							•	•		
Alaska Gleye	ed Pores (A	15)		· Give (details of co	nor chang		KS		
Restrictive Layer	(if present)):								
Type:									Hydric Soil Present	:? Yes 🔾 No 🖲
Depth (inches):										
Remarks:										
no hydric soil ind	no hydric soil indicators									
	NV NV									
HYDROLOG Wetland Hydro		ators:							Secondary Indi	icators (two or more are required)
Primary Indicato			nt)							ined Leaves (B9)
Surface Wa	ter (A1)			🗌 In	undation Vi	sible on A	erial Image	ery (B7)	Drainage I	Patterns (B10)
🗌 High Water	Table (A2)			🗌 Sp	arsely Vege	etated Cor	ncave Surfa	ice (B8)	Oxidized R	Rhizospheres along Living Roots (C3)
Saturation ((A3)			🗌 Ma	arl Deposits	(B15)			Presence of	of Reduced Iron (C4)
Water Mark	s (B1)			🗌 Ну	drogen Sul	fide Odor	(C1)		Salt Depos	sits (C5)
Sediment D	Sediment Deposits (B2)					Stunted or Stressed Plants (D1)				
Drift Depos	its (B3)			Other (Explain in Remarks) Geomorphic Position (D2)					ic Position (D2)	
Algal Mat o	r Crust (B4))							Shallow A	quitard (D3)
Iron Deposi	Iron Deposits (B5)									
Surface Soil	I Cracks (B6	5)						1	✓ FAC-neutra	al Test (D5)
Field Observat		v (
Surface Water F				De	epth (inches	s):				
Water Table Pre		Yes	🔾 No 🖲	De	epth (inches	s):		Wetla	nd Hydrology Preser	nt? Yes 🔾 No 🖲
Saturation Prese (includes capilla		Yes 🤇	No O	De	epth (inche	s): 12				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										

Remarks:

saturation not associated w a water table, thus cannot check A3.