WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling I	oling Date: 02-Aug-13			
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T162_11			
Investigator(s): WAD, RWM	Landform (hillside, terrace, hummocks etc.): Hillside					
Local relief (concave, convex, none): planar	Slope: 17.6	% / 10.0 ° Elevation: 1314				
Subregion : Interior Alaska Mountains Lat.	63.111819863	Long.: -148.09075582	Datum: WGS84			
Soil Map Unit Name:		NWI classification: נ	Jpland			
Are Vegetation , Soil , or Hydrology naturally	antly disturbed? y problematic?	No (If no, explain in Remarks.) Are "Normal Circumstances" present? (If needed, explain any answers in Rem locations, transacts, important features)	Yes 💿 No 🔾 arks.)			
SUMMARY OF FINDINGS - Attach site map showing site						
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ○ No ●		the Sampled Area				

within a Wetland?

Yes 🔿 No 🖲

Remarks: steeper moist graminoid meadow.

Wetland Hydrology Present?

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

 $\mathsf{Yes}\, \bigcirc\,$

No 💿

		Absolute		Dominant	Indicator	Dominance Test worksheet:		
Tre	e Stratum	% C		Species?	Status	Number of Dominant Species		
1.			0			That are OBL, FACW, or FAC: <u>3</u> (A)		
2.		-	0			Total Number of Dominant Species Across All Strata: 3 (B)		
3.			0					
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		-	0					
	Total Cover		0			Prevalence Index worksheet:		
6	ling/Shrub Stratum 50% of Total Cover:			of Total Cover:	0	Total % Cover of: Multiply by:		
Sap		0	20/00			OBL Species <u>2</u> x 1 = <u>2</u>		
1.	Salix pulchra	_	5		FACW	FACW Species <u>29</u> x 2 = <u>58</u>		
2.	Salix reticulata		10	\checkmark	FAC	FAC Species <u>56.1</u> x 3 = <u>168.3</u>		
3.	Salix polaris		15	\checkmark	FACW	FACU Species x 4 =8		
4.			0			UPL Species x 5 =		
5.			0			Column Totals: 89.1 (A) 236.3 (B)		
6.			0					
7.			0			Prevalence Index = B/A = <u>2.652</u>		
			0					
			0			✓ Dominance Test is > 50%		
		-	0			✓ Prevalence Index is ≤ 3.0		
10.	Total Cover		30			Morphological Adaptations ¹ (Provide supporting data in		
Herb Stratum 50% of Total Cover: 15					6	Remarks or on a separate sheet)		
1.	Carex bigelowii		40	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Carex membranacea		5		FACW	¹ Indicators of hydric soil and wetland hydrology must		
3.	Stellaria longifolia		0.1		FAC	be present, unless disturbed or problematic.		
4.	Equisetum arvense		1		FAC	Dist size (redius, or length y width)		
5.	Equisetum scirpoides		2		FACU	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes <u>(Where applicable)</u>		
6.	Poa arctica		4		FAC			
7.	Arctagrostis latifolia		4		FACW	% Bare Ground		
8.	Eriophorum angustifolium	_	2		OBL	Total Cover of Bryophytes		
9	Saxifraga hieraciifolia	_	1		FAC			
10.		-	0			Hydrophytic		
10.	 Total Cover	5	9.1			Vegetation		
	50% of Total Cover:2			of Total Cover:	11.82	Present? Yes \bullet No \bigcirc		
Remarks:								
Reindiks:								

		the depth ne Matrix	eded to doc	ument the indicator or co Rea	nfirm the ab dox Featu		ators)		
Depth (inches)	Color (mo	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-1			100					Fibric Organics	
1-8			100					Hemic Organics	
8-17	10YR	3/3	100					Sand	with golden flakes
				·				-	
				·				-	
¹ Type: C=Con	centration. D	=Depletion	. RM=Redu	uced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil In	dicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³		
Histosol or				Alaska Color Cl		4] Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	edon (A2)			Alaska Alpine s	wales (TA				
Hydrogen S	Sulfide (A4)			Alaska Redox V	Nith 2.5Y I	Hue		Other (Explain in Remark	ട)
	Surface (A12)		³ One indicator of	hydronhy	tic vegetatio	n one nrin	nary indicator of wetland h	wdrology
Alaska Gley				and an appropriat	te landscar	pe position r	nust be pre	esent	iyu ology,
Alaska Red		-1		⁴ Give details of c	olor chang	e in Remark	S		
	ved Pores (A1								
Restrictive Laye	r (if present):								? Yes 🔾 No 🖲
Type: Depth (inch	حد).							Hydric Soil Present	? Yes ∪ No 🗢
Depth (inches):									
Remarks: no hydric soil indicators observed									
HYDROLO	-	-							· · · · ·
Wetland Hydr Primary Indicat			F)						cators (two or more are required) ned Leaves (B9)
		15 Sumeren		Inundation V	/icible on &	Lorial Image	ny (R7)		Patterns (B10)
	r Table (A2)			Sparsely Veg		-			hizospheres along Living Roots (C3)
Saturation				Marl Deposit		10010 2220			of Reduced Iron (C4)
Water Mar	ks (B1)			Hydrogen Su	. ,	(C1)		Salt Depos	its (C5)
	Deposits (B2)			Dry-Season \					Stressed Plants (D1)
Drift Depo				Other (Expla	in in Rema	ırks)			ic Position (D2)
	or Crust (B4)							_	uitard (D3)
Iron Depos	()							Microtopog	graphic Relief (D4)
Field Observa	il Cracks (B6)								ii Test (DS)
Surface Water		Yes C) No 🖲	Depth (inche	<i>s)</i> :				
Water Table Pi		-) No 🖲	1 (Wetla	nd Hydrology Presen	t? Yes 🔿 No 🖲
Saturation Pres	sent?	-	No 💿	Dopai (indite					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Describe Record		un gaage,	monitor w	en, denai priotos, pre	vious inspe		indbie.		

Remarks:

only one secondary hydrology indicator observed