WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanu	ska-Susitna Borough Sampling	Date: 30-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T172_04
Investigator(s): WAD, RWM	Landform (hillside, terr	ace, hummocks etc.): Hillside	
Local relief (concave, convex, none): concave	Slope: 8.7 % /	5.0 ° Elevation: 927	
Subregion : Interior Alaska Mountains	at.: 63.268143058	Long.: -148.255928993	Datum: WGS84
Soil Map Unit Name:		NWI classification:	PSS1/EM1B
	icantly disturbed? Are	(If no, explain in Remarks. "Normal Circumstances" present? eeded, explain any answers in Rem	ÝYes 🔍 No 🔿
SUMMARY OF FINDINGS - Attach site map showing	sampling point locatio	ns, transects, important feat	ures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No () No () No ()	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Remarks: hillside with very sparse mat	ure white s	pruce		

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

		۵hs	olute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		Cover	Species?	Status	Number of Dominant Species
1.	Picea glauca		5	\checkmark	FACU	That are OBL, FACW, or FAC: <u>2</u> (A)
2.		-	0			Total Number of Dominant Species Across All Strata: 3 (B)
3.			0			Percent of dominant Species
4.		-	0			That Are OBL, FACW, or FAC:66.7% (A/B)
5.		-	0			Deventer of Tenders methods and
	Total Cove	- r:	5			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	2.5	20%	of Total Cover:	1	OBL Species $0 \times 1 = 0$
1	Betula glandulosa		45	\checkmark	FAC	FACW Species 20 x 2 = 40
			15		FACW	FAC Species 132 x 3 = 396
			10		FAC	FACU Species 5 $x 4 = 20$
3. 4.	×	-	5		FAC	UPL Species $0 \times 5 = 0$
	Arctostaphylos rubra	-	5			
5.	Salix barclayi	_			FAC	Column Totals: <u>157</u> (A) <u>456</u> (B)
	Empetrum nigrum	-	50		FAC	Prevalence Index = B/A =2.904_
			0			Hydrophytic Vegetation Indicators:
		-	0			✓ Dominance Test is > 50%
10.		-	0			✓ Prevalence Index is ≤3.0
	h Stratum 50% of Total Cover:		85	of Total Cover:	17	Morphological Adaptations ¹ (Provide supporting data in
-		42.5	_			Remarks or on a separate sheet)
1.	Equisetum sylvaticum	_	55		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Petasites frigidus	_	5		FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Cornus suecica	_	5		FAC	be present, unless disturbed or problematic.
4.	Equisetum arvense	_	2		FAC	Plot size (radius, or length x width) 10m
5.	Arctagrostis latifolia	_	0.1		FACW	% Cover of Wetland Bryophytes
6.		_	0			(Where applicable)
7.			0			% Bare Ground
			0			Total Cover of Bryophytes
			0			
			0			Hydrophytic
	Total Cove		67.1			Vegetation
	50% of Total Cover:			of Total Cover:	13.42	Present? Yes No
Rem	arks:					

SOIL

Depth (inches)	-	atrix	ded to docume		lox Featur		ators)		
(inches)	Color (mois	t)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-4			100					Fibric Organics	
4-7			100					Hemic Organics	
7-8			100					Sapric Organics	with a few coarse sand grains.
8-12	10YR	2/2	100		(Loamy Sand	
									-
		,	<u> </u>	,					
¹ Type: C=Conc	centration. D=D	epletion.		Matrix ² Location				nnel. M=Matrix	
Hydric Soil In	dicators:		;	Indicators for Pro		4	oils: ³		
Histosol or I	Histel (A1)		l	Alaska Color Ch	• • •			Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	edon (A2)		l	Alaska Alpine sv				Underlying Layer	
Hydrogen S	Sulfide (A4)		l	Alaska Redox W	/ith 2.5Y Hu	ue		Other (Explain in Remarl	(s)
	Surface (A12)			³ One indicator of	hvdrophvtic	c vegetatio	n, one prim	nary indicator of wetland h	vdroloav,
Alaska Gley				and an appropriate					,
Alaska Redo	()			⁴ Give details of co	olor change	in Remark	s		
	ed Pores (A15)								
Restrictive Layer									
Type: seaso								Hydric Soil Present	? Yes 🖲 No 🔿
Depth (inche	es): 47								
HYDROLOC									
Primary Indicato									
Thinary Indicate		sumcient)							cators (two or more are required)
Surface Wa				Inundation Vi	sible on Aer	rial Image	w (B7)	Water Stai	ned Leaves (B9)
Surface Wa	. ,			Inundation Vi		-		Water Stai	ned Leaves (B9) Patterns (B10)
✓ High Water	r Table (A2)			Sparsely Vege	etated Conc	-		Unater Stai	ned Leaves (B9)
	r Table (A2) (A3)				etated Conc 6 (B15)	cave Surfac		Unater Stai	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) ff Reduced Iron (C4)
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