WETLAND DETERMINATION DATA FORM - Alaska Region

^o rojec	t/Site: Susitna-Watana Hydroelectric Project		Во	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 23-Aug-15
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW15_T307_03
	gator(s): WAD, SCB		L	andform (hill:	side, terrac	e, hummocks etc.): drainage
	relief (concave, convex, none): hummocky			Slope: 8.7		, , , , , , , , , , , , , , , , , , , ,
	gion : Interior Alaska Mountains	1.	at.:			Long.: Datum: WGS84
		L	ац —			
	ap Unit Name:				<u> </u>	NWI classification: PSS1E
	matic/hydrologic conditions on the site typical for this t				● No ○	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○
		-		disturbed?		p
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐	natura	ally pro	blematic?	(If nee	ded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sho	wing	samp	oling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No)				
	Hydric Soil Present? Yes ● No ○			Is	the Sam	pled Area
				wi	thin a W	etland? Yes ● No ○
Dom	, ,					
Keiii	arks: Small draw between rolling ridges.					
/FG	ETATION -Use scientific names of plants. L	ict al	l snar	rias in tha	alat	
	TATION OSE Scientific flames of plants. L	ist ai	spec	ies in the	piot.	Dominance Test worksheet:
	- Churchaus		olute over	Dominant Species?	Indicator Status	Number of Dominant Species
1.	e Stratum	-70 C	OVEI		Status	That are OBL, FACW, or FAC: 4 (A)
2.		_				Total Number of Dominant
3.		-	_			Species Across All Strata:4 (B)
4.		-				Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		-		\Box		
	Total Cover	. – :	0			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sar	oling/Shrub Stratum 50% of Total Cover:	0		of Total Cover:	0	001.0
				_		0.11
	Salix pulchra	-	30	✓	FACW	FACW Species 33.1 x 2 = 66.2 FAC Species 43.1 x 3 = 129.3
2.	Betula nana	-	15	<u> </u>	FAC	FACU Species 5 x 4 = 20
3. 4.	Vaccinium uliginosum	-	5		FACU FACU	UPL Species $0 \times 5 = 0$
5.	Picea glauca Empetrum nigrum	-	5		FAC	
6.	Rhododendron tomentosum	-	1		FACW	Column Totals: <u>81.3</u> (A) <u>215.6</u> (B)
7.	Dasiphora fruticosa	-	0.1		FAC	Prevalence Index = B/A = 2.652
8.	<u> </u>	-	0		-710	Hydrophytic Vegetation Indicators:
9.		_	0			Dominance Test is > 50%
10.		_	0			✓ Prevalence Index is ≤3.0
	Total Cover	: 6	56.1			Morphological Adaptations (Provide supporting data in
He	b Stratum 50% of Total Cover:	33.05	20%	of Total Cover	13.22	Remarks or on a separate sheet)
1.	Equisetum sylvaticum		5	✓	FAC	Problematic Hydrophytic Vegetation (Explain)
2.	Carex bigelowii		5	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Calamagrostis canadensis		2		FAC	be present, unless disturbed or problematic.
4.	Petasites frigidus		1		FACW	Plot size (radius, or length x width)
5.	Cornus suecica		1		FAC	% Cover of Wetland Bryophytes
6.	Equisetum variegatum		1		FACW	(Where applicable)
7.	Rubus chamaemorus		0.1		FACW	% Bare Ground5
	Epilobium palustre	-	0.1		OBL	Total Cover of Bryophytes
		-	0			
1 10			0			Hydrophytic
10.		: 1	15.2			Vegetation
10.	Total Cover 50% of Total Cover:	- -		f Tat-I C	~ ~ -	Present? Yes No

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SOIL Sampling Point: SW15_T307_03

Profile Descriptio Depth		Matrix				ox Featu	res		_	
(inches)	Color (mo	ist)	%	Color (m	noist)	%	Type ¹	Loc ²	Texture	Remarks
0-2									Peat	
2-14									Mucky Peat	
14-16	10YR	4/2	50	10YR	3/4	50		M	Sandy Loam	organic staining
					-	-				
									-	
¹Type: C=Cond	centration. D=	=Depletion	RM=Reduc	ed Matrix	² Location	: PL=Pore	e Lining. RC	=Root Cha	annel. M=Matrix	
Hydric Soil In	ndicators:			Indicate	ors for Pro	blematic	Hydric So	oils: ³		
Histosol or	Histel (A1)			Alasl	ka Color Ch	ange (TA4	1)4		Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epipe	edon (A2)			Alasl	ka Alpine sv	wales (TA5	5)		Underlying Layer	
Hydrogen S	Sulfide (A4)			Alasi	ka Redox W	/ith 2.5Y F	lue		Other (Explain in Remar	ks)
Thick Dark	Surface (A12))		3 One in	adicator of	hydronhyd	ic vogotatio	n one prir	mary indicator of wetland I	avdrology
Alaska Gley							e position r			iyurology,
Alaska Redo	` ,			4 Give	letails of co	lor change	e in Remark	re .		
	yed Pores (A1	5)		GIVE C	icturis or co	nor change	z III Keman			
Restrictive Layer	r (if present):									
Turnou									Hydric Soil Present	? Yes • No O
Type:										
Depth (inche	es):									
Depth (inche	es):									
Depth (inche Remarks:	GY									
Depth (inche	GY	itors:								cators (two or more are required)
Depth (inche Remarks: IYDROLOG Wetland Hydro Primary Indicate	GY ology Indica		c)						Water Sta	ined Leaves (B9)
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Depth (inche Remarks: SYDROLOG Wetland Hydro Primary Indicator Surface Water High Water Saturation	GY rology Indicators (any one inter (A1) or Table (A2) (A3)		:)	☐ Sp ☐ Ma	arsely Vege arl Deposits	etated Con (B15)	cave Surfac		Water Sta Drainage I Oxidized R	ned Leaves (B9) Patterns (B10) chizospheres along Living Roots (C3) of Reduced Iron (C4)
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