WETLAND DETERMINATION DATA FORM - Alaska Region

roject/:	Site: Susitna-Watana Hydroelectr	ic Project	E	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 20-Aug-15		
Applicar	nt/Owner: Alaska Energy Authority					Sampling Point: SW15_T306_08		
nvestig	ator(s): WAD, SCB			Landform (hil	lside, terrac	e, hummocks etc.): drainage		
ocal re		nmocky		Slope: 14.0) % / 8.0			
uhregi	on: Interior Alaska Mountains		Lat.:			Long.: Datum: WGS84		
_	Unit Name:		-			NWI classification: PSS1B		
	-			0 V	○ No			
Are Ve Are Ve	egetation	ydrology ydrology site map sho	significantly naturally proposition	y disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.		
ŀ	7	Yes No				.1.14		
ŀ	Hydric Soil Present?	Yes 💿 No 🤇	\supset			npled Area		
١	Wetland Hydrology Present?	Yes No	C	W	ithin a W	etland? Yes No		
Remar	rks:							
'EGE	TATION - Use scientific name	s of plants. I	ist all spe	ecies in the	plot.	Dominance Test worksheet:		
Tree	Stratum		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
1	Picea glauca		2		FACU			
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: 100.0% (A/B		
5			0			Prevalence Index worksheet:		
		Total Cove				Total % Cover of: Multiply by:		
Sapli	ing/Shrub Stratum 50% of	Total Cover: _	<u>1</u> 20%	of Total Cover	:0.4	OBL Species 0 x 1 = 0		
1.	Vaccinium uliginosum		30	✓	FAC	FACW Species 15 x 2 = 30		
2.	Betula glandulosa		25	✓	FAC	FAC Species <u>72.3</u> x 3 = <u>216.9</u>		
3	Rhododendron tomentosum		10		FACW	FACU Species 7.1 x 4 = 28.4		
4	Empetrum nigrum		10		FAC	UPL Species <u>0</u> x 5 = <u>0</u>		
5	Salix pulchra		5		FACW	Column Totals: <u>94.4</u> (A) <u>275.3</u> (l		
_	Picea glauca		5		FACU	Prevalence Index = B/A =2.916_		
_	Vaccinium vitis-idaea				FAC			
_	Spiraea stevenii				FACU	Hydrophytic Vegetation Indicators:		
_	Dasiphora fruticosa		0.1		FAC	✓ Dominance Test is > 50%		
10		Total Cove	0		FACU	✓ Prevalence Index is ≤3.0		
Herb	Stratum 50% o	f Total Cover:		6 of Total Cove	r: 17.24	 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 		
-	Caray higalaydi		5	✓	FAC	Problematic Hydrophytic Vegetation (Explain)		
_	Festuca altaica				FAC	¹ Indicators of hydric soil and wetland hydrology must		
-	Onlawa and the company of the compan				FAC	be present, unless disturbed or problematic.		
	Cornus suecica				FAC	District of all and booth with the		
5.						Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes		
6.			_			(Where applicable)		
7			0			% Bare Ground5		
						Total Cover of Bryophytes 40		
9								
10			0			Hydrophytic		
		Total Cove Total Cover:		(=		Vegetation Present? Yes ● No ○		
	50% of	TOTAL COVER	ວາ 70%	ot Lotal Cover	. 12/	FICSCIIL! ICS \(\sime\) INU \(\sime\)		

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SOIL Sampling Point: SW15_T306_08

Profile Description: (Describe t	o the depth ne Matrix	eeded to docu	ment the ind		nfirm the ab		ators)		
Depth (inches) Color (n	noist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
0-3					_			Peat	
3-9								Muck	-
9-13 10YR	3/4	90	10YR	3/2	10			Sandy Loam	organic staining
710 10111			20111						organio sammig
¹ Type: C=Concentration. [)=Depletion	. RM=Reduc						annel. M=Matrix	
Hydric Soil Indicators:			Indicate	ors for Pro	oblematio	Hydric So	oils: ³		
Histosol or Histel (A1)			L Alask	ka Color Ch	ange (TA	1)		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)				ka Alpine sv	-	-		Underlying Layer	
Hydrogen Sulfide (A4)			☐ Alask	ka Redox W	Vith 2.5Y F	lue		Other (Explain in Remark	(S)
Thick Dark Surface (A1	2)		3 ∩ne ir	dicator of	hydronhyt	ic vegetatio	n one nrir	mary indicator of wetland h	ovdrology
Alaska Gleyed (A13)						e position r			rydrology,
Alaska Redox (A14)			4 Give d	etails of co	olor change	e in Remark	c		
Alaska Gleyed Pores (A	15)		OIVC G	ctails of co	nor change	e iii Reman			
Restrictive Layer (if present):								
Type:								Hydric Soil Present	? Yes ● No ○
Depth (inches):									
							J		rganic staining.
							3		J
HYDROLOGY									
HYDROLOGY Wetland Hydrology India	cators:								cators (two or more are required)
Wetland Hydrology India Primary Indicators (any one		t)						_Secondary Indi	
Wetland Hydrology Indic Primary Indicators (any one Surface Water (A1)	e is sufficient	t)	Inc	undation Vi	sible on A	erial Image		Secondary Indi Water Stai Drainage F	cators (two or more are required) ned Leaves (B9) Patterns (B10)
Wetland Hydrology India Primary Indicators (any one ✓ Surface Water (A1) ✓ High Water Table (A2)	e is sufficient	t)	☐ Sp	arsely Vege	etated Cor	erial Image ncave Surfac	ry (B7)	_Secondary Indi Water Stai Drainage F Oxidized R	cators (two or more are required) ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
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