WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 23-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T307_06
Investigator(s): WAD, SCB		Landform (hil	lside, terrac	e, hummocks etc.): Hillside
Local relief (concave, convex, none): hummocky		Slope: 17.6	5 %/ 10.0	0 ° Elevation:
Subregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:				NWI classification: Upland
Are climatic/hydrologic conditions on the site typical for this tir	ne of yea	ar? Yes	• No ()	(If no, explain in Remarks.)
		tly disturbed?	Are "N	lormal Circumstances" present? Yes 💿 No 🔿
Are Vegetation 🗌 , Soil 🗌 , or Hydrology 🗌 r	naturally	problematic?		eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ving sa	mpling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No C	-			· · ·
Hydric Soil Present? Yes O No 🖲)	ls	the Sam	ipled Area
Wetland Hydrology Present? Yes No C)	w	ithin a W	/etland? Yes 🔾 No 🖲
Remarks: Draw between ridges		1		
VEGETATION - Use scientific names of plants. Li	st all sp	oecies in the	plot.	
	Absolut	e Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1. Picea mariana	20		FACW	Total Number of Dominant
2		- <u> </u>		Species Across All Strata:4_ (B)
3				Percent of dominant Species
4. 5.		- L		That Are OBL, FACW, or FAC: (A/B)
Total Cover:	20			Prevalence Index worksheet:
Sapling/Shrub Stratum 50% of Total Cover:		– % of Total Cover	: 4	Total % Cover of: Multiply by:
				OBL Species 0 x 1 = 0
1. Betula nana	20	_	FAC	FACW Species 37.1 x 2 = 74.2 FAC Species 47.1 x 3 = 141.3
2. Vaccinium uliginosum 3. Salix pulchra	 	-	FAC	FACU Species $0 \times 4 = 0$
1 Diago moriono	5		FACW	UPL Species $0 \times 5 = 0$
 Ficea manana 5. Vaccinium vitis-idaea 	2		FAC	
6. Rhododendron tomentosum	2		FACW	Column Totals: <u>84.2</u> (A) <u>215.5</u> (B)
7. Alnus viridis ssp. crispa	0.1		FAC	Prevalence Index = B/A = <u>2.559</u>
8.	0			Hydrophytic Vegetation Indicators:
9.	0			✓ Dominance Test is > 50%
10	0			✓ Prevalence Index is \leq 3.0
Total Cover: Herb Stratum 50% of Total Cover: 2	0 112		r: 10.82	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
	10		FAC	Problematic Hydrophytic Vegetation (Explain)
1. Equisetum sylvaticum 2. Petasites frigidus			FACW	¹ Indicators of hydric soil and wetland hydrology must
3		-		be present, unless disturbed or problematic.
4.				
5.				Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes
6.				(Where applicable)
7	•			% Bare Ground
8	0	_		Total Cover of Bryophytes 60
9				
10	0	_		Hydrophytic
Total Cover: 50% of Total Cover: 5	-			Vegetation Present? Yes • No O
			· <u>2.02</u>	

Remarks: sfwbs, openings with tall salpul, low betnan and vaculi

Depth	•	the depth ne Matrix		iment the indicator or co Re	dox Featu	res	-	-	
(inches)	Color (moi	ist)	%	Color (moist)	%	Type ¹	_ Loc ²	Texture	Remarks
0-5								Fibric Organics	
5-7	. <u> </u>		,	<u></u>				Hemic Organics	
7-13	10YR	2/2	100					Loamy Sand	contains angular cobbles
Туре: С=Со	ncentration. D=	Depletion.	. RM=Redu	ced Matrix ² Locatio		-		nnel. M=Matrix	
ydric Soil I	ndicators:			Indicators for P		4	oils:	1	
_	r Histel (A1)			Alaska Color C		-		Alaska Gleyed Without H Underlying Layer	lue 5Y or Redder
	pedon (A2)			Alaska Alpine s	•	,		Other (Explain in Remar	kc)
¬ ′ ĭ	Sulfide (A4)			Alaska Redox	with 2.5Y F	ue	L		
_	k Surface (A12))		³ One indicator of	hydrophyt	ic vegetatic	n, one prin	nary indicator of wetland	hydrology,
Alaska Gle	eyed (A13) dox (A14)			and an appropria	te landscap	e position i	must be pre	esent	
	eyed Pores (A15	5)		⁴ Give details of c	olor change	e in Remark	s		
		~)							
estrictive Laye	er (if present):								
Turner								I the shafe of a fill provide start	
Type: Depth (incl								Hydric Soil Presen	t? Yes 🔾 No 🖲
Depth (incl	nes):							Hydric Soil Presen	t? Yes 🔾 No 🖲
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Depth (inclements:	ndicators							Hydric Soil Presen	t? Yes ○ No ●
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Depth (incl emarks: hydric soil ir YDROLO retland Hyd	GY		t)					Secondary Ind	
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Remarks:

no primary hydrology indicators