WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 20-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15 T300 02
Investigator(s): BAB		Landform (hill	side, terrac	e, hummocks etc.): concave backslope
Local relief (concave, convex, none): hummocky		Slope: 14.0		•
Subregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
-	Lat			
Soil Map Unit Name:				NWI classification: PSS1B
Are climatic/hydrologic conditions on the site typical for thi	,		• No ()	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology	-	y disturbed?		ormal Circumstances" present? Yes 💿 No 🔾
Are Vegetation, Soil, or Hydrology	naturally p	roblematic?	(If nee	ded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sl	howing san	npling point	locations	, transects, important features, etc.
Hydrophytic Vegetation Present? Yes 🔍 No	\circ			
Hydric Soil Present? Yes 🔍 No	\circ	ls	the Sam	pled Area
Wetland Hydrology Present? Yes • No	\circ	w	ithin a W	etland? Yes $ullet$ No $igloodow$
Remarks: concave backslope, with active seeps through		low tree cover	- compared	to vicinity sloping fen very hummocky with high micro
habitat variations			compared	to viewicy, sloping ren, very nummocky with high micro
	1.			
VEGETATION - Use scientific names of plants	. List all spe	ecies in the	plot.	1
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 6 (A)
1				Total Number of Dominant
2.				Species Across All Strata:6(B)
3				Percent of dominant Species
4.				That Are OBL, FACW, or FAC: (A/B)
5				Prevalence Index worksheet:
Total Co	ver:			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	20%	of Total Cover:	0	OBL Species 7 x 1 = 7
1. Betula glandulosa	10	\checkmark	FAC	FACW Species 14 x 2 = 28
	10		FAC	FAC Species 39 x 3 = 117
2 Diana mariana	10		FACW	FACU Species $0 \times 4 = 0$
 4. Empetrum nigrum 			FAC	UPL Species $0 \times 5 = 0$
5. Andromeda polifolia(IAM)			OBL	Column Totals: 60 (A) 152 (B)
6. Salix pulchra	2		FACW	
7. Salix barclayi	2		FAC	Prevalence Index = B/A = 2.533
8. Rhododendron groenlandicum	2		FAC	Hydrophytic Vegetation Indicators:
9. Alnus viridis ssp. sinuata	2		FAC	\checkmark Dominance Test is > 50%
10. Salix alaxensis	1		FAC	✓ Prevalence Index is ≤3.0
Total Co	ver: 45			Morphological Adaptations (Provide supporting data in
Herb Stratum 50% of Total Cover:		% of Total Cover	: 9	Remarks or on a separate sheet)
1. Equisetum arvense	5	\checkmark	FAC	Problematic Hydrophytic Vegetation (Explain)
2. Eriophorum angustifolium	5	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must
3. Carex bigelowii	3	\checkmark	FAC	be present, unless disturbed or problematic.
4. Juncus castaneus	2		FACW	Plot size (radius, or length x width) <u>10m</u>
5	0			% Cover of Wetland Bryophytes
6	0			(Where applicable)
7	0			% Bare Ground _5
8				Total Cover of Bryophytes 80
9	0			
10	0			Hydrophytic
Total Co				Vegetation
50% of Total Cover:	20%	of Total Cover:	3	Present?YesNo
Remarks:				

SOIL

	Matrix		ument the indicator or co. Re	dox Featu		ators)		
Depth (inches) Co	lor (moist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-4.5							Peat	Oi
4.5-6							Mucky Peat	Oe
6-9							Muck	Oa
9-12 10	YR 2/1	100					Silt Loam	A
12-17 2.5		100					Sandy Loam	Bw
			······					
1 C-Concentrat		DM_Dodu	2 Locatio		line D(D-at Cha	······································	
¹ Type: C=Concentrat		 RM=кесс 			-		nnel. M=Matrix	
Hydric Soil Indicato			Indicators for P		4	oils:		
Histosol or Histel (. ,		Alaska Color C		,	L	Alaska Gleyed Without Underlying Layer	Hue 5Y or Redder
Histic Epipedon (A	•		Alaska Alpine	-			Onderlying Layer Other (Explain in Rema	-l\
Hydrogen Sulfide	. ,		Alaska Redox	With 2.51 r	lue	L	Uther (Explain in Kenia	rks)
Thick Dark Surfac	. ,		³ One indicator of	f hydrophyt	ic vegetatio	on, one prin	nary indicator of wetland	hvdrology,
Alaska Gleyed (A1	-		and an appropria					
Alaska Redox (A14	,		⁴ Give details of c	olor change	e in Remark	s		
Restrictive Layer (if pre	esent):							
Type: Depth (inches):							Hydric Soil Presen	t? Yes 🖲 No 🔾
Depui (mense).						i.		
Remarks:						I		
Remarks:								
HYDROLOGY								
HYDROLOGY Wetland Hydrology								licators (two or more are required)
HYDROLOGY Wetland Hydrology Primary Indicators (an	iv one is sufficier						Water Sta	ained Leaves (B9)
HYDROLOGY Wetland Hydrology Primary Indicators (an Surface Water (A	ny one is sufficier 1)	<u></u>			-		Water Sta	ained Leaves (B9) Patterns (B10)
HYDROLOGY Wetland Hydrology Primary Indicators (an ✓ Surface Water (A ✓ High Water Table	ny one is sufficier 1)		Sparsely Veg	getated Con	-		Water Sta	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
HYDROLOGY Wetland Hydrology Primary Indicators (an ✓ Surface Water (A ✓ High Water Table ✓ Saturation (A3)	ny one is sufficier 1) • (A2)		Sparsely Veg	getated Con ts (B15)	ncave Surfa		Water Sta	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
HYDROLOGY Wetland Hydrology Primary Indicators (an Surface Water (A Surface Water Table Saturation (A3) Water Marks (B1)	iy one is sufficier 1) : (A2)		Sparsely Veg	getated Con ts (B15) ulfide Odor	ncave Surfa		Water Sta Drainage Oxidized Presence	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) Isits (C5)
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