WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 27-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T330_09
nvestigator(s): AFW		Landform (hil	lside, terrac	e, hummocks etc.): Valley bottom
Local relief (concave, convex, none): hummocky		Slope: 0.0	% / 0.0	° Elevation:
Subregion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:				NWI classification: PSS1B
Are climatic/hydrologic conditions on the site typical for this tir		-2 Voc	● No ○	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology , so Are Vegetation , Soil , or Hydrology , respectively.	significantl naturally pr wing san	y disturbed? roblematic?	Are "N (If nee	ormal Circumstances" present? Yes No Oded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes No		le	the Sam	pled Area
Hydric Soil Present? Yes No			ithin a W	
Wetland Hydrology Present? Yes ● No ○)	W	itmin a vv	etiand? Tes © No ©
Remarks:				
VEGETATION -Use scientific names of plants. Lis	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum 1.	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
				Total Number of Dominant
2				Species Across All Strata: 2 (B)
4.				Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.				
Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:		of Total Cover	: 0	0010
Betula glandulosa	60	✓	FAC	FACW Species 21 x 2 = 42 FAC Species 85 x 3 = 255
Vaccinium vitis-idaea Salix pulchra			FACIN	FACU Species 3 x 4 = 12
4 Emilion de m			FACW FAC	UPL Species 0 x 5 = 0
E Dhadadaadaadaaataaaa			FACW	
6. Rnododenaron tomentosum				Column Totals: <u>144</u> (A) <u>344</u> (E
7.	0			Prevalence Index = B/A = 2.389
8.	0			Hydrophytic Vegetation Indicators:
9.	0			✓ Dominance Test is > 50%
10.	0			✓ Prevalence Index is ≤3.0
Total Cover: Herb Stratum 50% of Total Cover:		% of Total Cove	r: <u>18.4</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Carex aquatilis	_35_	✓	OBL	Problematic Hydrophytic Vegetation (Explain)
Arctagrostis latifolia	7		FACW	¹ Indicators of hydric soil and wetland hydrology must
3. Carex bigelowii	5		FAC	be present, unless disturbed or problematic.
4. Poa pratensis ssp. alpigena	3		FACU	Plot size (radius, or length x width) 10m
5. Eriophorum vaginatum			FACW	% Cover of Wetland Bryophytes
6				(Where applicable)
7				% Bare Ground
8.	_			Total Cover of Bryophytes
9.				
10	0 52			Hydrophytic
Total Cover: 50% of Total Cover:		of Total Cover	10.4	Vegetation Present? Yes ● No ○
	20/0		10.4	1
Remarks:				

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SOIL Sampling Point: SW15_T330_09

(inches)	Color (mo	nist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2			50	_color (illoist)		.,,,,		Peat	
2-5			100					Mucky Peat	
5-7	 5YR	4/4	100					Silty Clay Loam	
7-11	10YR	2/2	100					Silt Loam	organic inclusions
11-13			100					Mucky Peat	
13-16	10YR	2/2	100					Silt Loam	organic inclusions
13 10	1011							Oil Louin	organic inclusions
Type: C=Con	 icentration. D	=Depletion	. RM=Reduce	d Matrix ² Locatio	n: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix	_
ydric Soil Ir		· ·		Indicators for P					
-	Histel (A1)			Alaska Color C		4	J.13.	Alaska Gleyed Without	Hue 5Y or Redder
Histic Epip	, ,			Alaska Alpine s		-		Underlying Layer	The ST of Reduct
=	Sulfide (A4)			Alaska Redox	•	•	✓	Other (Explain in Rema	rks)
Thick Dark	Surface (A12)		_					
Alaska Gle	yed (A13)			³ One indicator of and an appropria				nary indicator of wetland	hydrology,
Alaska Red	lox (A14)			4 Give details of o		•	•		
☐ Alaska Gle	yed Pores (A1	5)		Give details of C	olor change	e iii Keiliark			
strictive Laye	er (if present):								
Type: frost	t							Hydric Soil Presen	t? Yes 💿 No 🔾
	nes): 16	ha dipyrido	lc						
emarks:		ha dipyrido	lc						
emarks: sitive reaction	n to alpha, alp	ha dipyrido	lc						
emarks: sitive reaction	n to alpha, alp		ol					_Secondary Inc	dicators (two or more are required)
emarks: sitive reaction /DROLO etland Hydr imary Indica	GY Tology Indicators (any one	ators:						Water St	ained Leaves (B9)
YDROLO etland Hydr rimary Indical	GY rology Indicators (any one later (A1)	ators:		Inundation \				Water St	ained Leaves (B9) Patterns (B10)
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