WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 22-Aug-15
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T314_05
Investig	gator(s): GVF		Landform (hill	side, terrac	e, hummocks etc.): Lowland
Local re	elief (concave, convex, none): hummocky		Slope: 3.5		
	ion: Cook Inlet Mountains	Lat.:		_	Long.: Datum: WGS84
_	p Unit Name:	Lut			NWI classification: PSS1/EM1E
		no of vo	ar2 Voc	● No ○	
Are V		significan naturally	ntly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s. transects, important features, etc.
			pg pot		
			Is	the Sam	ipled Area
	Hydric Soil Present? Yes No C			ithin a W	
	Wetland Hydrology Present? Yes ● No C		"		
Rema VEGE	TATION -Use scientific names of plants. Li	st all sp	pecies in the	plot.	
		Absolut		Indicator	Dominance Test worksheet:
	e Stratum	% Cove	er Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
1.		0	. 📙		Total Number of Dominant
2.		0	- 📙		Species Across All Strata:3 (B)
3.		0	-		Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)
4. 5.		0	-		That Are OBL, FACW, OF FAC. 100.0% (A/B)
5.	Total Cover:	0			Prevalence Index worksheet:
C			— 0% of Total Cover:	0	Total % Cover of: Multiply by:
Sapi	ling/Shrub Stratum 50% of Total Cover:	0 20		0	OBL Species 20.1 x 1 = 20.1
1.	Salix pulchra	_ 40	_	FACW	FACW Species 41.2 x 2 = 82.4
2.	Vaccinium uliginosum	10		FAC	FAC Species 23.3 x 3 = 69.90
3.	Betula nana	3	- 📙	FAC	FACU Species 2 x 4 = 8
4.	Picea glauca	1	_	FACU	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Picea mariana	1	_	FACW	Column Totals: <u>86.6</u> (A) <u>180.4</u> (B)
6.	Vaccinium oxycoccos	0.1		OBL	Prevalence Index = B/A = 2.083
_ '	Empetrum nigrum	0.1	-	FAC	
8.		0	-		Hydrophytic Vegetation Indicators:
9.		0	- 📙		✓ Dominance Test is > 50%
10.	Total Cover:				✓ Prevalence Index is ≤3.0
Herl	b Stratum 50% of Total Cover:		0% of Total Cover	11.04	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.	Comarum palustre	_ 15		OBL	Problematic Hydrophytic Vegetation (Explain)
2.	Calamagrostis canadensis	10	_	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Equisetum fluviatile	_ 4	_ 📙	OBL	be present, unless disturbed or problematic.
4.	Carex aquatilis	1	- 📙	OBL	Plot size (radius, or length x width)
5.	Cornus canadensis		_	FACU	% Cover of Wetland Bryophytes
6.	Parnassia palustris	0.1		FACW	(Where applicable)
7.	Viola palustris	0.1		FACW	% Bare Ground25
8.	Polemonium acutiflorum	0.1	-	FAC	Total Cover of Bryophytes65
9.	Rumex arcticus	0.1		FAC	
10.	Title	0	_		Hydrophytic
	Total Cover: 50% of Total Cover: 1			6.28	Vegetation Present? Yes ● No ○
Rema	arks: <5% tree size picmar and picgla, recorded with	n shrubs.	. bare ground is	water and	litter, mosses mostly sphagnum.

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SOIL Sampling Point: SW15_T314_05

(inches) Color (r	noist)	%	Color (moist)	<u>%</u> T	Type 1 Loc 2	Texture	Remarks
0-8		100				Hemic Organics	
8-21 2.5Y	3/2	100				Loam	organic inclusions
					-	-	
						_	
-							
Type: C=Concentration.	D=Depletion	n. RM=Reduced	Matrix ² Location	n: PL=Pore Lii	ning. RC=Root Ch	nannel. M=Matrix	
lydric Soil Indicators:			Indicators for Pr	oblematic H	ydric Soils: ³		
Histosol or Histel (A1)		[Alaska Color Ch	nange (TA4)			out Hue 5Y or Redder
Histic Epipedon (A2)		[Alaska Alpine s	wales (TA5)	-	Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox V	Vith 2.5Y Hue	L		emarks)
Thick Dark Surface (A	2)		3 0 :	h		::	lead budgeton.
Alaska Gleyed (A13)			and an appropriat			imary indicator of wet resent	iand nydrology,
Alaska Redox (A14)			4 Give details of co	olor change in	Domarks		
☐ Alaska Gleyed Pores (A	15)		· Give details of co	olor change in	Remarks		
estrictive Layer (if present):						
Type:						Hydric Soil Pre	sent? Yes 💿 No 🔾
Type.						Tryune Son Tre	
Depth (inches): emarks:	res.					nyane son re	
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