## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 08-Aug-12
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T44_53
Invest	gator(s): SLI, KMK		Landform (hill	side, terrac	ce, hummocks etc.): Flat
	relief (concave, convex, none): flat		Slope:		1 ° Elevation: 732
	gion : Interior Alaska Mountains	l at ·	 62.890179809		Long.: -148.466197328 Datum: NAD83
		Lat	02.090179008	74	
	ap Unit Name:		0 V	No ○	NWI classification: PSS1/EM1E
	matic/hydrologic conditions on the site typical for this /egetation $\Box$ , Soil $\Box$ , or Hydrology $\Box$	•			(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○
		ŭ	itly disturbed?		ionnal oli cametanece procent.
Are v	/egetation ☐ , Soil ☑ , or Hydrology ☐	naturally	problematic?	(If nee	eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sh	owing sa	mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes   No	0	la	the Com	mind Area
	Hydric Soil Present? Yes ● No				ıpled Area /etland? Yes ◉ No ◯
	Wetland Hydrology Present? Yes ● No		ļ	thin a W	Chana.
Rem	arks: pronounced microtopography, hummocks 1m h	igh. Picea t	rees/shrubs on	hummocks	, standing water and emergents in hollows.
VEG	<b>ETATION</b> -Use scientific names of plants.	List all sr	ecies in the	plot.	
		Absolut			Dominance Test worksheet:
Tre	e Stratum	% Cove		Status	Number of Dominant Species
1.	Picea mariana	15	$\checkmark$	FACW	That are OBL, FACW, or FAC: 7 (A)
2.		0			Total Number of Dominant Species Across All Strata: 7 (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 Cov	er: <u>15</u>	_		Total % Cover of: Multiply by:
Sa	oling/Shrub Stratum 50% of Total Cover:	7.5 20	% of Total Cover:	3	OBL Species 15 x 1 = 15
1.	Betula nana	7	<b>✓</b>	FAC	FACW Species 56 x 2 = 112
2.	Vaccinium uliginosum			FAC	FAC Species 34 x 3 = 102
3.	Empetrum nigrum		_	FAC	FACU Species 1 x 4 = 4
4.	Dasiphora fruticosa	7	<b>✓</b>	FAC	UPL Species
5.	Vaccinium vitis-idaea	2		FAC	Column Totals: <u>106</u> (A) <u>233</u> (B)
6.	Salix pulchra	10	✓	FACW	
7.	Picea glauca	1		FACU	Prevalence Index = B/A = 2.198
8.	Picea mariana	15	✓	FACW	Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.		0			Prevalence Index is ≤3.0
	Total Cov				Morphological Adaptations <sup>1</sup> (Provide supporting data in
He	rb Stratum 50% of Total Cover:		0% of Total Cover		Remarks or on a separate sheet)
1.	Carex aquatilis	_		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Equisetum palustre			FACW	Indicators of hydric soil and wetland hydrology must
3.	Rubus chamaemorus		-	FACW	be present, unless disturbed or problematic.
4.	Carex canescens (IAM)		-	FACIA	Plot size (radius, or length x width)
5.	Sanguisorba canadensis		-	FACW FAC	% Cover of Wetland Bryophytes
6.	Valeriana sitchensis		-	FAC	(Where applicable)
7. 8.	Carex bigelowii  Calamagrostis canadensis	3	-	FAC	% Bare Ground 45
9.		_	- 📙	1710	Total Cover of Bryophytes
			-		Hadan bada
					Hydrophytic
		er: 41			Vegetation
	Total Cover:		_ % of Total Cover:	8.2	Vegetation Present? Yes  No

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SOIL Sampling Point: SW12\_T44\_53

Depth	M		cument the indicator or confirm the absence of indicators)  Redox Features						
(inches)	Color (mois	st) %	∕ <u>₀</u> Col	or (moist)	_%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
									-
	-				_				
Type: C=Cor	ncentration. D=	Denletion RM	—— —— 1=Reduced M	atrix <sup>2</sup> Locatio	n. PI =Por	e Linina RC	=Root Cha	nnel M=Matrix	-
ydric Soil I				dicators for P				THE THE THE THE	
-	Histel (A1)			Alaska Color C		4	J.1.3.	Alaska Gleyed Without H	due 5V or Redder
Histic Epip	` ,		Ī	Alaska Alpine		•		Underlying Layer	ide 31 of Redder
_	Sulfide (A4)		П	Alaska Redox	•	,	<b>✓</b>	Other (Explain in Remar	ks)
¬ ' -	Surface (A12)								
Alaska Gle	, ,							nary indicator of wetland	hydrology,
Alaska Red			an	d an appropria	ate iandscap	pe position i	nust be pre	esent	
Alaska Gle	yed Pores (A15	)	4 (	Give details of o	color chang	e in Remark	KS .		
strictive Laye	er (if present):								
Type:								Hydric Soil Present	t? Yes 💿 No 🔾
Depth (inchemarks:	nes): soils due to inur	ndation and h	ydrophytic ve	getation					
emarks:		ndation and h	ydrophytic ve	getation					
emarks: sume hydric :	soils due to inur		ydrophytic ve	getation					
emarks: sume hydric /DROLO etland Hydr	soils due to inur  GY  rology Indicat	tors:	ydrophytic ve	getation					icators (two or more are required)
emarks: sume hydric s  /DROLO etland Hydric imary Indica	GY rology Indicat	tors:	ydrophytic ve					Water Sta	ined Leaves (B9)
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*Marks: sume hydric s  **TOROLO  etland Hydric s  **Surface W  High Wate  Saturation	GY rology Indicat tors (any one is /ater (A1) er Table (A2)	tors:		Inundation Vegansely Vegansely Marl Deposit	getated Cor ts (B15)	ncave Surfa		Water Sta Drainage Oxidized F Presence	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4)
*Marks: sume hydric s  **TOROLO  etland Hydric imary Indica  Surface W  High Wate  Saturation  Water Ma	GY rology Indicat tors (any one is /ater (A1) er Table (A2) n (A3) rks (B1)	tors:		Inundation \ Sparsely Veg Marl Deposi Hydrogen St	getated Cor ts (B15) ulfide Odor	ncave Surfac		☐ Water Sta ☐ Drainage ☐ Oxidized I ☐ Presence ☐ Salt Depo	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4) sits (C5)
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