## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampli	ng Date: 06-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point	t
Investigator(s): WAD, BAB	Landform (hills	ide, terrace, hummocks etc.): Bench	1
Local relief (concave, convex, none): hummocky	Slope:14.0	% / 8.0 ° Elevation: 865	
Subregion : Interior Alaska Mountains Lat.:	62.785908103	Long.: -147.804091334	Datum: WGS84
Soil Map Unit Name:		NWI classification	n: PSS3/1B
	ar? Yes ( ntly disturbed? problematic?	No (If no, explain in Remar Are "Normal Circumstances" presen (If needed, explain any answers in R	$_{ m t?}$ Yes $ullet$ No $igodot$
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point	ocations, transects, important fe	eatures, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	· _	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Remarks: photo time 1152 photo num	1065,1066			

## **VEGETATION** - Use scientific names of plants. List all species in the plot.

		۵hs	olute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		Cover	Species?	Status	Number of Dominant Species
1.	Picea glauca		20		FACU	That are OBL, FACW, or FAC: <u>3</u> (A)
2.		-	0			Total Number of Dominant Species Across All Strata: 4 (B)
3.			0			
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
5.		-	0			
	Total Cover	-	20			Prevalence Index worksheet:
Sar	ling/Shrub Stratum 50% of Total Cover:			of Total Cover:	4	Total % Cover of: Multiply by:
Jah		10	_ 20/0		4	OBL Species $0 \times 1 = 0$
1.	Betula nana	_	35	$\checkmark$	FAC	FACW Species <u>3.3</u> x 2 = <u>6.6</u>
2.	Vaccinium vitis-idaea	_	25	$\checkmark$	FAC	FAC Species x 3 =264.6
3.	Ledum groenlandicum		15		FAC	FACU Species <u>21</u> x 4 = <u>84</u>
4.	Empetrum nigrum		2		FAC	UPL Species x 5 =
5.	Salix richardsonii	_	0.1		FACW	Column Totals: 112.5 (A) 355.2 (B)
6.	Salix pulchra		1		FACW	
7.	Picea mariana		2		FACW	Prevalence Index = B/A = <u>3.157</u>
8.	Picea glauca	-	1		FACU	Hydrophytic Vegetation Indicators:
9.		-	0			✓ Dominance Test is > 50%
			0			Prevalence Index is ≤3.0
	Total Cover		81.1			Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	b Stratum 50% of Total Cover:	40.55	20%	of Total Cover:	16.22	Remarks or on a separate sheet)
1.	Equisetum arvense		10	$\checkmark$	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Equisetum sylvaticum		1		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Carex bigelowii	-	0.1		FAC	be present, unless disturbed or problematic.
4.	Petasites frigidus		0.1		FACW	
5.	Calamagrostis canadensis		0.1		FAC	Plot size (radius, or length x width) <u>10m</u>
6.			0.1		FACW	% Cover of Wetland Bryophytes (Where applicable)
7.			0			% Bare Ground
			0			Total Cover of Bryophytes 50
			0			
			0			Hydrophytic
	Total Cover		11.4			Vegetation
	50% of Total Cover:			of Total Cover:	2.28	Present? Yes $\bullet$ No $\bigcirc$
Rem	arks:					

	Color (moist)	%	Color (m	oist)	%	Type <sup>1</sup>	<b>Loc</b> <sup>2</sup>	Texture	Remarks
0-3								Fibric Organics	
3-7								Hemic Organics	#
7-11					-			Sapric Organics	
11-13	10YR 3/2	90	7.5YR	3/3	10	RM	PL	Silt Loam	
Type: C=Concent	tration. D=Deplet	on. RM=Redu	ced Matrix	<sup>2</sup> Location	PI =Por	 - Linina, RC	=Root Cha	annel. M=Matrix	
						c Hydric So			
ydric Soil Indic				a Color Cha		4		] Alaska Gleyed Without	Huo EV or Doddor
<ul> <li>Histosol or Hist</li> <li>Histic Epipedor</li> </ul>	. ,			a Color Cha a Alpine sv		-		Underlying Layer	
Hydrogen Sulfi				a Redox W	•	,		Other (Explain in Rem	arks)
Thick Dark Sur	. ,								
Alaska Gleyed	(A13)					ic vegetation		mary indicator of wetland	d hydrology,
Alaska Redox (	(A14)					•	•	cociti	
Alaska Gleyed	Pores (A15)		<sup>4</sup> Give d	etails of col	lor change	e in Remark	s		
	Envergent).								
estrictive Layer (if	presenc):								
estrictive Layer (if Type: seasona	. ,							Hydric Soil Prese	nt? Yes 🖲 No 🔾
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