## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Date	: <u>11-Jul-13</u>
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T139_11
Investigator(s): WAD, BAB	Landform (hills	side, terrace, hummocks etc.): Flat	
Local relief (concave, convex, none): convex	Slope:	% / <u>5.8</u> ° Elevation: <u>408</u>	
Subregion : Southcentral Alaska Lat.	62.816803693	7 Long.:149.624800563	Datum: NAD83
Soil Map Unit Name:		NWI classification: PSS4	I/3B
	ear? Yes ntly disturbed? problematic?	(	s • No () .)
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point	locations, transects, important features	, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No () No () No ()	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Remarks:	163 🕒		<u>'</u>	

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

			Absolut	e Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		% Cove		Status	Number of Dominant Species
1.	Picea mariana		15		FACW	That are OBL, FACW, or FAC: (A)
2.			0			Total Number of Dominant Species Across All Strata: 4 (B)
3.						Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
5.			0			Prevalence Index worksheet:
		Total Cover:	15			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 509	% of Total Cover:	7 <u>.5</u> 20	% of Total Cover:	3	OBL Species $7 \times 1 = 7$
1.	Rhododendron tomentosum		25	$\checkmark$	FACW	FACW Species 70 x 2 = 140
2.			25		FAC	FAC Species <u>35</u> x 3 = <u>105</u>
3.	Picco mariana		15		FACW	FACU Species <u>1</u> x 4 = <u>4</u>
4.	Potulo nono		5		FAC	UPL Species x 5 =
5.			5		FAC	Column Totals: <u>113</u> (A) <u>256</u> (B)
6.	Andromeda polifolia		5		FACW	
7.						Prevalence Index = B/A = <u>2.265</u>
						Hydrophytic Vegetation Indicators:
						✓ Dominance Test is > 50%
			0			✓ Prevalence Index is $\leq$ 3.0
		Total Cover:	00			$\Box$ Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	<b>b Stratum</b> 50	% of Total Cover:	40 2	0% of Total Cover:	16	Remarks or on a separate sheet)
1.	Rubus chamaemorus		10		FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Carex pauciflora		3		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Carex aquatilis		3		OBL	be present, unless disturbed or problematic.
4.	Geocaulon lividum				FACU	Plot size (radius, or length x width) <u>10m</u>
5.	Eriophorum angustifolium		1		OBL	% Cover of Wetland Bryophytes
6.			0			(Where applicable)
7.			0			% Bare Ground
8.			0			Total Cover of Bryophytes
9.			0			
			0	_		Hydrophytic
		Total Cover:	18	_		Vegetation
	50%	% of Total Cover:	9 20	% of Total Cover:	3.6	Present? Yes  No
Rem	arks:					

Donth	Matrix	[	ument the indicator or cor <b>Red</b>	lox Featur		tors)		
Depth (inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks
0-6		100%			. ) p c		Fibric Organics	
6-12		100%					Hemic Organics	
			,					
				·				
<sup>1</sup> Type: C=Conc	centration. D=Deple	tion. RM=Redu	ced Matrix <sup>2</sup> Location		-		nnel. M=Matrix	
Hydric Soil Ind	dicators:		Indicators for Pro	oblematic	Hydric Soi	ls: <sup>3</sup>		
Histosol or I	Histel (A1)		🗌 Alaska Color Ch	nange (TA4)	4		] Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epipe	don (A2)		Alaska Alpine s	wales (TA5)	)	_	Underlying Layer	
🗌 Hydrogen S	Sulfide (A4)		Alaska Redox V	Vith 2.5Y Hu	Je		Other (Explain in Remar	ks)
Thick Dark	Surface (A12)		_					
🗌 Alaska Gley	ed (A13)		<sup>3</sup> One indicator of and an appropriat	hydrophytic	vegetation	, one prin	nary indicator of wetland I	nydrology,
Alaska Redo			and an appropriat	e ianuscape	e position m	ust be pre	esent	
🗌 Alaska Gley	ed Pores (A15)		<sup>4</sup> Give details of co	olor change	in Remarks			
Restrictive Layer	(if present):							
Type:	(						Hydric Soil Present	? Yes 🖲 No 🔾
Depth (inche	es):							
Remarks:	,							
HYDROLOG	θY							
	GY plogy Indicators:						_Secondary Ind	cators (two or more are required)
Wetland Hydro		cient)						cators (two or more are required) ined Leaves (B9)
Wetland Hydro	ology Indicators: ors (any one is suffi	cient)	Inundation Vi	isible on Ae	rial Imagery	y (B7)	Water Sta	
Wetland Hydro	blogy Indicators: ors (any one is suffi- ater (A1)	cient)	Inundation Vi			. ,	Water Sta	ined Leaves (B9)
Wetland Hydro         Primary Indicato         Surface Wat	ology Indicators: ors (any one is suffi ater (A1) r Table (A2)	cient)		etated Conc		. ,	Water Sta	ned Leaves (B9) Patterns (B10)
Wetland Hydro         Primary Indicato         Surface Wa         High Water	ology Indicators: ors (any one is suffi ater (A1) r Table (A2) (A3)	cient)	Sparsely Vege	etated Conc 5 (B15)	ave Surface	. ,	Water Sta	ined Leaves (B9) Patterns (B10) Ihizospheres along Living Roots (C3) of Reduced Iron (C4)
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