## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling	Date: 08-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T130_03
Investigator(s): JGK	Landform (hill	side, terrace, hummocks etc.): Shoulder	slope
Local relief (concave, convex, none): hummocky	Slope: 17.6	% / 10.0 ° Elevation: 1056	
Subregion : Interior Alaska Mountains	at.: 63.036976814	Long.: -148.140089393	Datum: WGS84
Soil Map Unit Name:		NWI classification:	PSS1B
	year? Yes cantly disturbed? Illy problematic?	<ul> <li>No (If no, explain in Remarks.)</li> <li>Are "Normal Circumstances" present? (If needed, explain any answers in Rem</li> </ul>	Yes 🔍 No 🔿
SUMMARY OF FINDINGS - Attach site map showing	sampling point	locations, transects, important featu	ures, etc.
$\sim$			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Remarks: DUNN SITE 1463 SOIL 1465			

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

			Absolute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		% Cover	Species?	Status	Number of Dominant Species
1.			0			That are OBL, FACW, or FAC: (A)
2.			0			Total Number of Dominant
3.			0			Species Across All Strata: (B)
3. 4.						Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
			0			Inat Ale OBL, FACW, of FAC.         IUU.0%         (A/B)
5.			0			Prevalence Index worksheet:
		Cover:				Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cove	er:	020%	of Total Cover:	0	OBL Species x 1 =
1.	Betula nana		35	$\checkmark$	FAC	FACW Species <u>24.1</u> x 2 = <u>48.20</u>
2.	Vaccinium uliginosum		15	$\checkmark$	FAC	FAC Species <u>91</u> x 3 = <u>273</u>
3.	Vaccinium vitis-idaea		5		FAC	FACU Species x 4 =
4.	Ledum decumbens		7		FACW	UPL Species 5 x 5 = 25
5.	Empetrum nigrum		5		FAC	Column Totals: <u>120.1</u> (A) <u>346.2</u> (B)
6.	Salix pulchra		15	$\checkmark$	FACW	$\frac{120.1}{(A)}$
7.	Salix reticulata				FAC	Prevalence Index = B/A = 2.883
8.						Hydrophytic Vegetation Indicators:
			0			✓ Dominance Test is > 50%
			0			✓ Prevalence Index is ≤3.0
		Cover:	87			$\square$ Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	b Stratum 50% of Total Cov	er:4	3.5 20%	of Total Cover:	17.4	Remarks or on a separate sheet)
1.	Carex bigelowii		20	$\checkmark$	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Poa glauca		h		UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Artemisia furcata		3		UPL	be present, unless disturbed or problematic.
4.	Sedum rosea		5		FAC	- Not size (radius, er langth y width)
5.	Equisetum arvense		1		FAC	Plot size (radius, or length x width) <u>10m</u>
6.	Petasites frigidus		2		FACW	% Cover of Wetland Bryophytes <u>15</u> (Where applicable)
7.	Pedicularis labradorica		0.1		FACW	% Bare Ground _7
8.						Total Cover of Bryophytes _55
			0			
			0			Hydrophytic
		Cover:	33.1			Vegetation
	50% of Total Cove			of Total Cover:	6.62	Present? Yes  No
Rem	arks: Lichen 10 Tr Carex sp., trace Stellaria sp	o. (coll)	_			

Profile Descriptio		1atrix				lox Featu	res	,		
(inches)	Color (moi	st)	%	Color (n	noist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks
0-2									Fibric Organics	
2-14	2.5Y	4/1	60	5YR	4/4	30	C	PL	Sandy Silt Clay Loam	10% PL 10 YR 4/2
	·									
					-				· .	
<sup>1</sup> Type: C=Cone	centration. D=	Depletion.	RM=Reduc	ed Matrix	<sup>2</sup> Location	: PL=Pore	e Lining. RC	=Root Cha	annel. M=Matrix	-
Hydric Soil In	dicators:			Indicat	ors for Pro	oblematio	: Hydric So	oils: <sup>3</sup>		
Histosol or	Histel (A1)				ka Color Ch		4		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipe	. ,			🗌 Alas	ka Alpine sv	wales (TAS	5)		Underlying Layer	
Hydrogen S				🖌 Alas	ka Redox W	Vith 2.5Y F	lue		Other (Explain in Remar	ks)
	Surface (A12)									
Alaska Gley	. ,								mary indicator of wetland I	hydrology,
Alaska Red				and an	appropriate	e landscap	e position r	nust be pr	esent	
	ed Pores (A15	5)		<sup>4</sup> Give of	details of co	olor change	e in Remark	S		
Restrictive Layer										
Type:	i (ii presenc).								Hydric Soil Present	:? Yes 🖲 No 🔿
Depth (inche	ec).								Hyunc Son Present	
Remarks:										
Soil too thixotro	pine to alg be;									
HYDROLOG	GY									
HYDROLO( Wetland Hydro	-	tors:							_Secondary Indi	icators (two or more are required)
	ology Indicat		)							icators (two or more are required) ined Leaves (B9)
Wetland Hydro	ology Indicat		)	In	undation Vi	sible on A	erial Imager	γ (B7)	Water Sta	
Wetland Hydro	ology Indicat ors (any one is ater (A1)		)				erial Imager		Water Sta	ined Leaves (B9)
Wetland Hydro Primary Indicat	ology Indicat cors (any one is ater (A1) r Table (A2)		)	🗌 Sp		etated Cor	-		Water Sta	ined Leaves (B9) Patterns (B10)
Wetland Hydro         Primary Indicat         Surface Water         High Water	ology Indicat cors (any one is ater (A1) r Table (A2) (A3)		)	Sp Ma	arsely Vege	etated Cor 6 (B15)	icave Surfac		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
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Wetland Hydro         Primary Indicat         Surface Wa         High Wate         Saturation         Water Mar	ology Indicat cors (any one is ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2)		)	Sp Ma Hy Dr	oarsely Vege arl Deposits /drogen Sul	etated Cor 5 (B15) Ifide Odor Vater Table	(C1) e (C2)		Water Sta Drainage I Oxidized F Presence o Salt Depos	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
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