## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Date:	04-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampli	ing Point:SV	V13_T166_01
Investigator(s): CTS, AMD	Landform (hills	ide, terrace, hummocks etc.):	Flat	
Local relief (concave, convex, none): flat	Slope: 1.0	% / 0.6 ° Elevation: 730	ס	
Subregion : Interior Alaska Mountains Lat.:	63.387857437	Long.: -148.573377	7609 Da	atum: WGS84
Soil Map Unit Name:		NWI class	ification: PEM1B	8
	ar? Yes ( tly disturbed? problematic?	<ul> <li>No (If no, explain ir Are "Normal Circumstances" (If needed, explain any answ</li> </ul>	" present? Yes	• No ()
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point l	ocations, transects, impor	rtant features, o	etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ● Yes ●	No	Is the Sampled Area within a Wetland?	Yes $\odot$ No $\bigcirc$
Remarks:				

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

		Absolute	e Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum	% Cove		Status	Number of Dominant Species
1.		0			That are OBL, FACW, or FAC: <u>3</u> (A)
2.					Total Number of Dominant Species Across All Strata: 3 (B)
3.			-  -		
4.			-		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
 5.		0	-		
0.	Total Cover:		_		Prevalence Index worksheet:
_					Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species <u>31.1</u> x 1 = <u>31.1</u>
1.	Salix pulchra	1	$\checkmark$	FACW	FACW Species <u>3.1</u> x 2 = <u>6.2</u>
2.		0			FAC Species <u>34</u> x 3 = <u>102</u>
3.		0			FACU Species 0 x 4 = 0
4.					UPL Species x 5 =
5.		•			Column Totals: <u>68.2</u> (A) <u>139.3</u> (B)
6.					
					Prevalence Index = B/A = 2.043
					Hydrophytic Vegetation Indicators:
					✓ Dominance Test is > 50%
		0			✓ Prevalence Index is $\leq 3.0$
	Total Cover:	1			
Her	b Stratum 50% of Total Cover:		% of Total Cover:	0.2	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1.	Calamagrostis canadensis	30	$\checkmark$	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Carex aquatilis	20		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Comarum palustre	4		OBL	be present, unless disturbed or problematic.
4.	Epilobium palustre	. 1		OBL	
5.	Glyceria striata			OBL	Plot size (radius, or length x width) <u>10m</u>
6.	Eriophorum russeolum	2		FACW	% Cover of Wetland Bryophytes (Where applicable)
7.	Polemonium acutiflorum	1		FAC	% Bare Ground
8.	Chrysosplenium tetrandrum	0.1		OBL	Total Cover of Bryophytes _5
9.	Stellaria calycantha	0.1		FACW	<u> </u>
10.		0			Hydrophytic
	Total Cover:	67.2	-		Vegetation
	50% of Total Cover:	-		13.44	Present? Yes  No
Rem	arks: Lichen = 0				•

	Matrix		ument the mu		ox Featu	sence of indi <b>res</b>	cators)	_	
Depth (inches) Co	olor (moist)	%	Color (m	oist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2		100						Hemic Organics	
2-16	5Y 3/1	90	7.5YR	4/6	10	C	PL	Silt Loam	Very fibric
					-	-	i-	-	
·									_
<sup>1</sup> Type: C=Concentra	tion D-Donlatio		and Matrix	21000				mal M-Matrix	
Type: C=Concentra		m. R™=Redu				-			
Hydric Soil Indicat	ors:					Hydric S	oils:	-	
Histosol or Histel	(A1)			a Color Ch		-		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipedon (	A2)			a Alpine sv				Underlying Layer	
Hydrogen Sulfide	(A4)		Alask	a Redox W	/ith 2.5Y F	lue	L	Other (Explain in Remar	ks)
Thick Dark Surfac	. ,		3 One in	dicator of	hydrophyt	ic vegetatio	on one prir	mary indicator of wetland I	nydrology
Alaska Gleyed (A							must be pr		iyurology,
Alaska Redox (A1	-		4 Cive d	otails of so	lor chang	e in Remarl			
Alaska Gleyed Po	res (A15)		· Give u		ior change		KS		
Restrictive Layer (if pr	resent):								
Type: Active laye	r							Hydric Soil Present	:? Yes 🖲 No 🔾
Depth (inches): 16	5								
Remarks:									
Remarks:									
	Indicators:							_Secondary Indi	icators (two or more are required)
HYDROLOGY		nt)							icators (two or more are required) ined Leaves (B9)
HYDROLOGY Wetland Hydrology	ny one is sufficie	nt)	Inu	Indation Vi	sible on A	erial Image	ery (B7)	Water Sta	
HYDROLOGY Wetland Hydrology Primary Indicators (a Surface Water (A High Water Table	ny one is sufficie \1)	int)				erial Image		Water Sta	ined Leaves (B9)
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