WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Da	ite: 03-Aug-13
Applicant/Owner: Alaska Energy Authority			Sampling Point:	SW13_T194_03
Investigator(s): SLI, EAC	Landform (hill	side, terrace, hummo	ocks etc.): Hillside	
Local relief (concave, convex, none): flat	Slope:	% / <u>6.2</u> ° Ele	vation: 846	
Subregion : Interior Alaska Mountains Lat.	63.353982687	Long.:	-148.339274525	Datum: NAD83
Soil Map Unit Name:			NWI classification: Up	land
	ear? Yes intly disturbed? y problematic?	Are "Normal Cir	no, explain in Remarks.) cumstances" present? ain any answers in Remar	Yes
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point	locations, transe	ects, important feature	es, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No	Is the Sampled Area within a Wetland?	Yes 🔿 No 🖲
Remarks:				

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: <u>3</u> (A)
2.			0		-	Total Number of Dominant Species Across All Strata: 3 (B)
3.			0			
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
4. 5.			0			
5.						Prevalence Index worksheet:
	Total C			(=		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover	:() 20%	of Total Cover:	0	OBL Species x 1 =
1.	Betula glandulosa		30	\checkmark	FAC	FACW Species x 2 =44
2.	Salix glauca		30	\checkmark	FAC	FAC Species x 3 =294
3.	Vaccinium uliginosum		25	\checkmark	FAC	FACU Species <u>0</u> x 4 = <u>0</u>
4.	Empetrum nigrum		10		FAC	UPL Species x 5 =
5.	Salix pulchra		10		FACW	Column Totals: <u>120</u> (A) <u>338</u> (B)
6.	Rhododendron tomentosum		10		FACW	
7.	Vaccinium vitis-idaea		2		FAC	Prevalence Index = B/A = <u>2.817</u>
8.	Arctous ruber		1		FAC	Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
			0		FAC	✓ Prevalence Index is \leq 3.0
	Total C		118			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover	r: _ 5	59 20%	of Total Cover	23.6	Remarks or on a separate sheet)
1.	Petasites frigidus		2		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2.			0			¹ Indicators of hydric soil and wetland hydrology must
			0			be present, unless disturbed or problematic.
			0			Plot size (radius, or length x width) 10m
			0			Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes
			0			(Where applicable)
			0			% Bare Ground 5
			0			Total Cover of Bryophytes
			0			
			0			Hydrophytic
	Total C		2			Vegetation
	50% of Total Cover			of Total Cover:	0.4	Present? Yes No
_						1

Remarks: trace pedicularis. 45% lichen cover including cladina, nephroma, stereocaulon. no herb dominants as total herb cover <5%.

Depth —		Matrix	eeded to docu	ment the indicator or con Red	firm the ab		ators)		
(inches)	Color (m	oist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-3	5YR	2.5/1	100					Fibric Organics	
3-7	7.5YR	2.5/1	100					Loam	
7-11	7.5YR	3/3	100		-			Silt Loam	- translocated iron into layer
11-14	10YR	4/1	100					Coarse Loamy Sand	-
		,							
			······ ·					-	
							-		
	ntration D	-Depletion		ced Matrix ² Location	· DI – Dor			uppel M-Matrix	
			. KM-Redu			-			
Hydric Soil Indi				Indicators for Pro		4	oils:	1	
Histosol or His	. ,			Alaska Color Ch				Alaska Gleyed Without I Underlying Layer	Hue 5Y or Redder
Histic Epipedo				Alaska Alpine sv	•	,		Other (Explain in Remai	rke)
Hydrogen Sult				Alaska Redox W	/ith 2.5Y F	lue			ns)
Thick Dark Su	•	!)		³ One indicator of	hydrophyt	ic vegetatio	on, one prin	nary indicator of wetland	hydrology,
Alaska Gleyed				and an appropriate					,
Alaska Redox	. ,	F)		⁴ Give details of co	lor chang	e in Remarl	s		
Alaska Gleyed	-	-			5				
Restrictive Layer (i	if present):								
Туре:								Hydric Soil Presen	t? Yes 🔾 No 🖲
Depth (inches)):								
Remarks: no hydric soil indic	ators								
HYDROLOG	Y								
HYDROLOG Wetland Hydrolo		ators:						Secondary Inc	licators (two or more are required)
	ogy Indica		t)						licators (two or more are required) ined Leaves (B9)
Wetland Hydrolo	ogy Indica s (any one		t)	Inundation Vi	sible on A	erial Image	гу (В7)	Water Sta	
Primary Indicators	ogy Indica s (any one er (A1)		t)	Inundation Vi		-		Water Sta	ained Leaves (B9)
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