WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Vatanuska-Susitna Borough	_ Sampling Date:	08-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampl	ling Point:S	W13_T101_08
Investigator(s): WAD, BAB	Landform (hillsi	de, terrace, hummocks etc.):	palsa	
Local relief (concave, convex, none): convex	Slope:	% / _2.6 ° Elevation: _84	7	
Subregion : Copper River Basin Lat.:	62.6663935178	Long.: -147.46360	6596 D	atum: NAD83
Soil Map Unit Name:		NWI class	sification: PSS1E	3
	ar? Yes tly disturbed? problematic?	 No (If no, explain i Are "Normal Circumstances (If needed, explain any ans) 	s" present? Yes	
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point lo	ocations, transects, impo	rtant features,	etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes ● Yes ● Yes ●	No () No () No ()	Is the Sampled Area within a Wetland?	Yes $ullet$ No $ightarrow$
Wetland Hydrology Present?	res 🕑			
Remarks:				

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

			Abc	olute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum			over	Species?	Status	Number of Dominant Species
1.				0			That are OBL, FACW, or FAC: <u>2</u> (A)
2.				0			Total Number of Dominant Species Across All Strata: 2 (B)
3.				0			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	: _	0			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species $0.1 \times 1 = 0.1$
1.	Rhododendron tomentosum			30		FACW	FACW Species $43 \times 2 = 86$
2.	Potula nana			20	\checkmark	FAC	FAC Species x 3 =102
3.	Chiraga atawanii			2		FACU	FACU Species 2 x 4 = 8
4.				8		FAC	UPL Species $0 \times 5 = 0$
5.	Diago moriono			10		FACW	Column Totals: 79.1 (A) 196.1 (B)
6.	Energy a far was a language			5		FAC	
7.	Vaccinium vitis idaga			1		FAC	Prevalence Index = B/A = <u>2.479</u>
8.				0			Hydrophytic Vegetation Indicators:
				0			✓ Dominance Test is > 50%
				0			✓ Prevalence Index is ≤3.0
		Total Cover		76			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum	50% of Total Cover:	38	_ 20%	of Total Cover:	15.2	Remarks or on a separate sheet)
1.	Eriophorum angustifolium			0.1		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Rubus chamaemorus			3		FACW	¹ Indicators of hydric soil and wetland hydrology must
3.				0			be present, unless disturbed or problematic.
				0			Plot size (radius, or length x width) <u>10m</u>
5.				0			% Cover of Wetland Bryophytes
6.				0			(Where applicable)
				0			% Bare Ground
8.				0			Total Cover of Bryophytes
9.				0			
				0			Hydrophytic
		Total Cover	: _	3.1			Vegetation
		50% of Total Cover:	1.55	20%	of Total Cover:	0.62	Present? Yes No
Rem	arks: total berb cover <5%	thus no herbs consider	noh he	ninan	ŀ		

total herb cover <5%, thus no herbs considered dominant.

(inches) Color (moist)	%	Color (moist)	% Type	1 <u>Loc</u> 2	Texture	Remarks
0-6					-	Fibric Organics	
6-8						Hemic Organics	
8-10			<u>_</u>			Sapric Organics	
			,			- ,	
^L Type: C=Concentration.	D=Depletion.	RM=Reduc	ed Matrix ² Location	n: PL=Pore Lining	. RC=Root Cha	annel. M=Matrix	
lydric Soil Indicators:			Indicators for Pr	oblematic Hydri	c Soils: ³		
 Histosol or Histel (A1) 			Alaska Color Cl	hange (TA4) ⁴		Alaska Gleyed Without Hu	e 5Y or Redder
Histic Epipedon (A2)			🗌 Alaska Alpine s	wales (TA5)		Underlying Layer	
Hydrogen Sulfide (A4			Alaska Redox V	Nith 2.5Y Hue	L	Other (Explain in Remarks)
Thick Dark Surface (A	12)		3 One indicator of	- dranbytic yogot	-tion one priv	indicator of wotland by	ما بندا د مر
Alaska Gleyed (A13)				te landscape positi		mary indicator of wetland hy resent	arology,
Alaska Redox (A14)			4 Give details of o	olor change in Rem	parke		
Alaska Gleyed Pores (415)					T	
estrictive Layer (if presen	t):						
estiletive Layer (il preser	,						<u> </u>
Type: ice rich frost	,					Hydric Soil Present?	Yes 🔍 No 🔾
Type: ice rich frost Depth (inches): 10 emarks:		rv indicato				Hydric Soil Present?	Yes 💿 No 🔿
Type: ice rich frost Depth (inches): 10 emarks: aturation inferred from m	ultiple seconda	Iry indicato	rs.				
Type: ice rich frost Depth (inches): 10 emarks: aturation inferred from m YDROLOGY Vetland Hydrology Ind	ultiple seconda		rs.			_Secondary Indica	ators (two or more are required)
Type: ice rich frost Depth (inches): 10 emarks: aturation inferred from m YDROLOGY Vetland Hydrology Ind Primary Indicators (any or	ultiple seconda			isible on Aerial Im	agery (B7)	Secondary Indica	a <u>tors (two or more are required)</u> ed Leaves (B9)
Type: ice rich frost Depth (inches): 10 emarks: aturation inferred from m YDROLOGY Vetland Hydrology Ind	icators:		Inundation V	risible on Aerial Ima	• • • •	Secondary Indica	ators (two or more are required) ed Leaves (B9) tterns (B10)
Type: ice rich frost Depth (inches): 10 emarks: aturation inferred from m YDROLOGY Vetland Hydrology Ind Primary Indicators (any or Surface Water (A1) High Water Table (A2 Saturation (A3)	icators:		Inundation V	etated Concave Su	• • • •	Secondary Indica Water Stain Drainage Pa Oxidized Rhi	ators (two or more are required) ed Leaves (B9)
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 $\ensuremath{\mathsf{D3}}\xspace$ -soils frozen at 10in. ice-rich frozen soils imply saturation at that level.