WETLAND DETERMINATION DATA FORM - Alaska Region

≥rojec	t/Site: Susitna-Watana Hydroelectric Project	Denali Bo	ali Borough Sampling Date: 01-Aug-13					
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T202_03			
	igator(s): CTS, AMD	llside, terrac	ee, hummocks etc.): Hillside					
	relief (concave, convex, none): flat		Slope:	% / 8.2				
	gion : Interior Alaska Mountains	l at ·	- · 63.39500307		Long.: -148.531655787 Datum: NAD83			
		Lat	03.39300307					
	ap Unit Name:		0 Van	● No ○	NWI classification: Upland			
Are \	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology , /egetation , Soil , or Hydrology , MARY OF FINDINGS - Attach site map sh	significant naturally p owing sai	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No	the Sam	inled Area					
	Hydric Soil Present? Yes No		Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes O No	illiiii a vv						
/EG	ETATION - Use scientific names of plants.	•			Dominance Test worksheet:			
Tre	ee Stratum	Absolute % Cove		Indicator Status	Number of Dominant Species			
1.	Picea glauca	10	V	FACU	That are OBL, FACW, or FAC: 4 (A)			
2.					Total Number of Dominant Species Across All Strata: 6 (B)			
3.					Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 66.7% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cov	er: <u>10</u>	_		Total % Cover of: Multiply by:			
Sa	bling/Shrub Stratum 50% of Total Cover:	5 209	% of Total Cover	:2	OBL Species $0 \times 1 = 0$			
1	Betula nana	50	✓	FAC	FACW Species 45 x 2 = 90			
2.	Rhododendron tomentosum			FACW	FAC Species 113.1 x 3 = 339.3			
3.	Vaccinium uliginosum			FAC	FACU Species 15.1 x 4 = 60.40			
4.	Vaccinium vitis-idaea	1		FAC	UPL Species <u>0</u> x 5 = <u>0</u>			
5.	Empetrum nigrum	2		FAC	Column Totals: <u>173.2</u> (A) <u>489.7</u> (B)			
6.		0						
7.		0			Prevalence Index = B/A =			
8.		0	_		Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0	_		✓ Prevalence Index is ≤3.0			
He	Total Cov rb Stratum 50% of Total Cover:		% of Total Cove					
1.	Rubus chamaemorus	_	_	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Cornus canadensis	5		FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Calamagrostis canadensis			FAC	be present, unless disturbed or problematic.			
	Bistorta plumosa			FACU	Plot size (radius, or length x width)			
		•			% Cover of Wetland Bryophytes			
			- =		(Where applicable)			
			- =		% Bare Ground _5			
			- 📙		Total Cover of Bryophytes			
9.		- 0	-		Hartan batta			
					Hydrophytic Vegetation			
	Total Cove	er: 10.2			Present? Yes • No O			

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SOIL Sampling Point: SW13_T202_03

									. c.i.c. 54415_1262_65		
		the depth nee Matrix	eded to docur	ment the indicator or co	nfirm the ab		ators)				
Depth (inches)	Color (mo		%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-5			100					Hemic Organics			
5-11	10YR	3/4	100					Silt Loam			
11-15	2.5Y	4/3	100					Loam			
15-17	10YR	4/4	100					Silt Loam			
17-20	10YR	2/2	100					Silt Loam			
¹ Type: C=Cor	ncentration. D=	Depletion.	RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Color Cl		-		Alaska Gleyed Without Hu	e 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine swales (TA5)				Underlying Layer			
	Sulfide (A4)			☐ Alaska Redox V	Vith 2.5Y I	Hue		Other (Explain in Remarks	5)		
	Surface (A12))		³ One indicator of	hydrophy	tic vegetatio	n, one prim	nary indicator of wetland hy	/drology,		
Alaska Gle				and an appropriat							
	eyed Pores (A1	5)		4 Give details of co	olor chang	e in Remark	S				
Restrictive Laye											
Type:	(p,							Hydric Soil Present?	Yes O No 💿		
Depth (inch	nes):							·			
Remarks:											
no hydic soil indicators											
HYDROLO											
Wetland Hyd									ators (two or more are required)		
Primary Indica		is sufficient							ed Leaves (B9)		
Surface W	` ,			Inundation V		-			atterns (B10)		
High Water Table (A2)			Sparsely Veg Marl Deposits		ncave Surfac	ce (B8)		izospheres along Living Roots (C3) Reduced Iron (C4)			
☐ Saturation (A3) ☐ Water Marks (B1)				Hydrogen Su	. ,	(C1)		Salt Deposit	` '		
Sediment Deposits (B2)				Dry-Season Water Table (C2)					Stressed Plants (D1)		
☐ Drift Depo	. ,			Other (Explai		. ,			Position (D2)		
	or Crust (B4)			outer (2xp.o.				Shallow Aqu			
☐ Iron Depo									raphic Relief (D4)		
Surface S	oil Cracks (B6)							☐ FAC-neutral	Test (D5)		
Field Observa	ations:										
Surface Water	r Present?		No 💿	Depth (inche	s):						
Water Table P		Yes 🔾	No 💿	Depth (inche	s):		Wetlar	nd Hydrology Present	:? Yes ○ No •		
Saturation Pre (includes capi		Yes \bigcirc	No •	Depth (inche	es):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hyd	drology indicate	ors									

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