WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	orough Sampling Date: 08-Aug-13				
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T203_07				
Investi	gator(s): CTS, AMD	lside, terrac	ce, hummocks etc.): Flat						
Local r	elief (concave, convex, none): flat		Slope:	% / 1.5					
Subrec	ion : Interior Alaska Mountains	l at ·	63.39496350						
_	p Unit Name:	Lut	03.39490330						
			0 V	● No ○	NWI classification: Upland				
Are V Are V		significantl naturally p	y disturbed? roblematic?	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 🤇)	la.	the Com	wlad Avan				
	Hydric Soil Present? Yes ○ No ④		Is the Sampled Area within a Wetland? Yes ○ No ●						
	Wetland Hydrology Present? Yes O No @)	W	within a Wetland? Yes ○ No ●					
Rema VEGE	TATION -Use scientific names of plants. Li	st all spe	ecies in the	plot.	Dawinawa Tashwadahash				
		Absolute			Dominance Test worksheet:				
	Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)				
	Picea glauca	15	. 🔽	FACU	Total Number of Dominant				
2.					Species Across All Strata: 4 (B)				
3. 4.			. 📙		Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)				
4. 5.			. 📙						
٥.	Total Cover				Prevalence Index worksheet:				
C			6 of Total Cover	. 2	Total % Cover of: Multiply by:				
Sap	ling/Shrub Stratum 50% of Total Cover:	7.5 20%		:3	OBL Species 0 x 1 = 0				
1.	Picea glauca	_ 2	. 📙	FACU	FACW Species 40 x 2 = 80				
2.	Betula nana	50	. 💆	FAC	FAC Species 98 x 3 = 294				
3.	Vaccinium uliginosum	20	. 📙	FAC	FACU Species 36 x 4 = 144				
4.	Rhododendron tomentosum	40	. 💆	FACW	UPL Species <u>0</u> x 5 = <u>0</u>				
5.	Empetrum nigrum			FAC	Column Totals: <u>174</u> (A) <u>518</u> (B)				
6.	Vaccinium vitis-idaea	4		FAC	Prevalence Index = B/A =2.977_				
7.		0							
8.					Hydrophytic Vegetation Indicators:				
					Dominance Test is > 50%				
10.	Total Cover	0	. \square		✓ Prevalence Index is ≤3.0				
_	b Stratum 50% of Total Cover:	68 209	% of Total Cove		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
	Cornus canadensis			FACU	Problematic Hydrophytic Vegetation ¹ (Explain)				
	Carex bigelowii			FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
٠.	Anthoroughthum monticely con plaining			FACU	be present, unless disturbed of problematic.				
	Anthoxanthum monticola ssp. alpinum	-		UPL	Plot size (radius, or length x width)				
					% Cover of Wetland Bryophytes				
					(Where applicable)				
					% Bare Ground 4				
					Total Cover of Bryophytes 25				
		0			Hydrophytic				
	Total Cover	23	_		Hydrophytic Vegetation				
1			6 of Total Cover	: 4.6	Present? Yes • No O				

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SOIL Sampling Point: SW13_T203_07

		the depth ne	eeded to docur	nent the indicator or co	nfirm the ab		ators)				
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-7	10YR	3/6	100	color (moise)		1700		Sandy Loam			
7-11		5/3	100					Sandy Loam			
					-						
11-20	5Y	5/2	100					Sandy Loam			
					-						
-											
¹Type: C=Co	ncentration. D=	Depletion	. RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	indicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol o	r Histel (A1)			Alaska Color Ch	nange (TA	4 1)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	oedon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
☐ Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue		Other (Explain in Remark	s)		
☐ Thick Dar	k Surface (A12)			•							
Alaska Gle	eyed (A13)			³ One indicator of and an appropriat				nary indicator of wetland h	ydrology,		
Alaska Re	dox (A14)					•	•	CSCITC			
	eyed Pores (A15	5)		⁴ Give details of co	olor chang	e in Remark	S				
-	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inc	nes):										
HYDROLO	GY										
Wetland Hyd	rology Indica	tors:						Secondary Indic	cators (two or more are required)		
Primary Indica	ators (any one i	s sufficient	t)					Water Stair	ned Leaves (B9)		
Surface Water (A1)				Inundation V	isible on A	erial Imager	ry (B7)	Drainage P	atterns (B10)		
High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized RI	nizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits	s (B15)				f Reduced Iron (C4)		
Water Ma	arks (B1)	Hydrogen Su	lfide Odor	(C1)		Salt Deposi					
_ `					Vater Tabl				Stressed Plants (D1)		
☐ Drift Dep				U Other (Explai	n in Rema	rks)			c Position (D2)		
	or Crust (B4)							☐ Shallow Aq			
☐ Iron Depo									raphic Relief (D4)		
	Soil Cracks (B6)						1	☐ FAC-neutra	l Test (D5)		
Field Observ		V (No •	5 11 (1 1							
Surface Wate				Depth (inche	s):						
Water Table I		Yes 🤇	No 💿	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes O No 🖲		
Saturation Pro (includes cap		Yes C	No •	Depth (inche	s):						
Describe Reco	rded Data (strea	am gauge,	monitor we	ll, aerial photos, prev	ious inspe	ection) if ava	ilable:				
Remarks:											
	drology indicato	ors									
no wedana ny	arology mulall	3									

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