WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	Denali Bo	orough Sampling Date: 31-Jul-13						
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T158_01				
	gator(s): CTS, AMD	lside, terrac	ee, hummocks etc.): Flat						
	relief (concave, convex, none): convex		° Elevation: 736						
	gion : Interior Alaska Mountains	l at :	63.372937559		Long.: -148.763407468 Datum: NAD83				
		Lat							
	ap Unit Name:		- 1/	<u> </u>	NWI classification: Upland				
Are \	regetation ☐ , Soil ☐ , or Hydrology ☐ regetation ☐ , Soil ☐ , or Hydrology ☐ regetation ☐	significantl naturally p wing sar	ly disturbed? roblematic?	(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 la	the Com	mlad Area				
	Hydric Soil Present? Yes ○ No ●)	Is the Sampled Area within a Wetland? Yes ○ No ●						
	Wetland Hydrology Present? Yes O No •)	W	within a Wetland? Yes ○ No ●					
Rem	ETATION - Use scientific names of plants. Li	st all spe	ecies in the	plot.	Dawinana Tashwadahash				
		Absolute			Dominance Test worksheet: Number of Dominant Species				
	e Stratum	% Cover		Status	That are OBL, FACW, or FAC:3 (A)				
2.	Picea glauca		. 🔽	FACU	Total Number of Dominant				
3.			. 📙		Species Across All Strata: 5 (B)				
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)				
5.		0			That Are OBE, I AGW, OF I AG				
J.	Total Cover:		. 🗀		Prevalence Index worksheet:				
Sar			· 6 of Total Cover	: 2	Total % Cover of: Multiply by:				
Sap	ming/Snrub Stratum 30% of Total Cover.	5 20%	_		OBL Species 0 x1 = 0				
1.	Betula nana	_ 50	. 💆	FAC	FACW Species 30 x 2 = 60				
2.	Vaccinium uliginosum	50		FAC	FACUS paging 15 x 3 = 345				
3.	Rhododendron tomentosum	30		FACW	FACU Species 15.2 x 4 = 60.80 UPL Species 0 x 5 = 0				
4.	Vaccinium vitis-idaea			FAC					
5.	Empetrum nigrum		. 📙	FAC	Column Totals: <u>160.2</u> (A) <u>465.8</u> (B)				
6.		0			Prevalence Index = B/A =				
7.									
9.			. 📙		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%				
10.					✓ Prevalence Index is ≤3.0				
	Total Cover: 50% of Total Cover:			r: 28.6	Morphological Adaptations ¹ (Provide supporting data in				
	Facture office			FAC	Problematic Hydrophytic Vegetation ¹ (Explain)				
	Cornus conodonais			FACU	Indicators of hydric soil and wetland hydrology must				
3.	Anthoxanthum monticola ssp. alpinum	0.1		UPL	be present, unless disturbed or problematic.				
4.	Carex bigelowii	- 1		FAC					
5.	Lycopodium clavatum	0.1		FACU	Plot size (radius, or length x width)				
6.					% Cover of Wetland Bryophytes (Where applicable)				
					% Bare Ground _2				
					Total Cover of Bryophytes 40				
1 -		0							
9.		0	. 🗆		Hydrophytic				
					Vegetation				
	Total Cover:			: 1.44	Vegetation Present? Yes ● No ○				

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SOIL Sampling Point: SW13_T158_01

5 21 5	· /- //				*	C to die.	`	· · ·	- OINC. 54415_1150_01		
Profile Descripti		the depth ne	eeded to docur	nent the indicator or co	nfirm the at dox Featu		ators)				
Depth (inches)	Color (mo			Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-2	5Y	4/2	100	,				Silt Loam			
2-6	10YR	3/3	100					Sandy Loam			
6-10	10YR	3/2	100					Silt Loam			
10-20	10YR	4/2	100					Silt Loam			
								-			
¹Type: C=Cor	ncentration. D	=Depletion	. RM=Reduce	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				
	r Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without Hu	e 5Y or Redder		
Histic Epip	` ,			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remarks	5)		
Thick Dark	Surface (A12)		3 One indicator of	h. dranh.	tio voqetatio	n ana neim	nam, indicator of watland h	udvala av		
Alaska Gle	eyed (A13)			and an appropriat				nary indicator of wetland hy esent	drology,		
Alaska Red	` ,			4 Give details of co	olor chanc	e in Remark	s				
☐ Alaska Gle	yed Pores (A1	5)		GIVE details of ex	Jior Criarig	in Kemark	J				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present?	Yes O No 💿		
Depth (inch	nes):										
Remarks:											
no hydric soil ir	ndicators										
HYDROLO											
Wetland Hydi									ators (two or more are required)		
Primary Indica		is sufficient	t)						ed Leaves (B9)		
	Surface Water (A1)					Nerial Imager			atterns (B10)		
High Water Table (A2)				Sparsely Veg		ncave Surfac	e (B8)		izospheres along Living Roots (C3) Reduced Iron (C4)		
☐ Saturation (A3) ☐ Water Marks (B1)				☐ Marl Deposits ☐ Hydrogen Su	. ,	(C1)		Salt Deposi	` '		
Sediment Deposits (B2)				Dry-Season \					Stressed Plants (D1)		
Drift Deposits (B3)				Other (Explai		. ,			c Position (D2)		
	or Crust (B4)				iii iii Keine	11 (3)		Shallow Aq			
☐ Iron Depo									raphic Relief (D4)		
	oil Cracks (B6))						FAC-neutral			
Field Observa	ations:										
Surface Water	r Present?	Yes C	No 💿	Depth (inche	s):						
Water Table P	resent?	Yes C	No 💿	Depth (inche	s):		Wetlar	nd Hydrology Present	:? Yes O No 💿		
Saturation Pre		Yes C	No •	Depth (inche	s):						
(includes capi				· `							
Describe Recor	ded Data (stre	eam gauge,	monitor we	ll, aerial photos, pre	vious inspe	ection) if ava	iilable:				
Remarks:											
No hydrology indicators											

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