WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Bor	ough/City:	Matanusk	a-Susitna Borough Sampling Date: 30-Jul-12
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW12_T49_05
Investi	gator(s): SLI, KMK		La	ndform (hills	side, terrac	e, hummocks etc.): Flat
	relief (concave, convex, none): flat		SI	ope:	% / 3.0	
	gion : Interior Alaska Mountains	l a		.815096464		Long.: -148.419519056 Datum: NAD83
	ap Unit Name:	Lu	02	.013030404		•
				Van	No ○	NWI classification: Upland
Are \	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology , Soil , or Hydrology MARY OF FINDINGS - Attach site map sh	signific natural	antly d ly prob	isturbed? lematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No
	Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Yes No			Is	the Sam	pled Area
	.,			wi	thin a W	etland? Yes ○ No ●
Rem		<u> </u>		I		
	ETATION - Use scientific names of plants.	List all Absol	ute	es in the Dominant Species?		Dominance Test worksheet: Number of Dominant Species
1.	Alnus viridis		60	✓	FAC	That are OBL, FACW, or FAC:3 (A)
2.	Diago elevas		5		FACU	Total Number of Dominant
3.	Picea giauca		0		TACO	Species Across All Strata: 3 (B)
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			0			
	Total Cov	er:6	5	_		Prevalence Index worksheet: Total % Cover of: Multiply by:
Sar	oling/Shrub Stratum 50% of Total Cover:	32.5	20% of	Total Cover:	13	OBL Species $0 \times 1 = 0$
				~		FACW Species $\frac{1}{1}$ $\times 2 = \frac{2}{2}$
1. 2.	Alnus viridis		25 1		FACU	FAC Species 145 x 3 = 435
3.	Picea glauca Rosa acicularis		3		FACU	FACU Species 32 x 4 = 128
4.	Ribes triste		5		FAC	UPL Species 0 x 5 = 0
5.	Linnaea borealis		2	П	FACU	
6.	Salix pulchra		1	$\overline{\Box}$	FACW	Column Totals: <u>178</u> (A) <u>565</u> (B)
7.	Spiraea stevenii		1		FACU	Prevalence Index = B/A = 3.174
8.	-гр		0			Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
10.			0			Prevalence Index is ≤3.0
Hei	Total Cover: 50% of Total Cover:		8 20% o	f Total Cover	: 7.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Thalictrum sparsiflorum	_	10		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Aconitum delphiniifolium		5		FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Calamagrostis canadensis		50	\checkmark	FAC	be present, unless disturbed or problematic.
4.	Cornus canadensis		7		FACU	Plot size (radius, or length x width) 10m
5.	Rubus arcticus (IAM)		1		FACU	% Cover of Wetland Bryophytes
6.	Lycopodium clavatum		1		FACU	(Where applicable)
7.	Dryopteris expansa		1		FACU	% Bare Ground
8.			0			Total Cover of Bryophytes
			0			
10.			U			Hydrophytic
	Total Cov		5			Vegetation Present? Yes ● No ○
	50% of Total Cover:	27 F	20% of	Total Cover	15	Present? Yes No

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SOIL Sampling Point: SW12_T49_05

(inches) Co	or (moist)	%	Color (moist)		Loc ²	Texture	Remarks
0-1						Fibric Organics	
1-2						Hemic Organics	
2-5						Sapric Organics	
5-18 7.5	YR 4/4	70				Fine Sandy Loam	30% gravel
3 10 7.5							30 /0 graver
							-
						-	-
Type: C=Concentrate	on. D=Depletion	n. RM=Reduce	d Matrix ² Location	n: PL=Pore Lining.	RC=Root Cha	nnel. M=Matrix	
lydric Soil Indicate				roblematic Hydric			
Histosol or Histel			Alaska Color C	4	. Jons.	Alaska Gleyed Without F	lue 5Y or Redder
Histic Epipedon (/	•		Alaska Alpine			Underlying Layer	ide 31 of Redder
Hydrogen Sulfide	•			With 2.5Y Hue		Other (Explain in Remar	ks)
Thick Dark Surfac	. ,		_				
Alaska Gleyed (A	3)			f hydrophytic vegeta ate landscape positio		nary indicator of wetland l	hydrology,
Alaska Redox (A1	ł)						
Alaska Gleyed Po	es (A15)		Give details or o	color change in Rem	arks		
estrictive Layer (if pr	sent):						
Type:						Hydric Soil Present	t? Yes O No 💿
	;						
emarks:	•						
emarks: hydric soil indicator							
emarks: hydric soil indicator YDROLOGY Vetland Hydrology	Indicators:					_Secondary Ind	icators (two or more are required)
emarks: hydric soil indicator YDROLOGY Vetland Hydrology rimary Indicators (ar	Indicators: y one is sufficier	nt)				Water Sta	ined Leaves (B9)
YDROLOGY //etland Hydrology rimary Indicators (ar	Indicators: y one is sufficien	nt)		Visible on Aerial Ima		Water Sta	ined Leaves (B9) Patterns (B10)
YDROLOGY //etland Hydrology rimary Indicators (ar	Indicators: y one is sufficien	nt)	Sparsely Ve	getated Concave Su		Water Sta Drainage Oxidized F	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (Ca
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