WETLAND DETERMINATION DATA FORM - Alaska Region

ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 08-Aug-13
cant/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T169_06
		Landform (hill	side, terrac	
· . · · -		-		1 ° Elevation: 716
	l at ·	· · —		Long.: -148.632467045 Datum: NAD83
	Lat	63.416613797		
			<u> </u>	NWI classification: PSS1B
	•			(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○
	-	•		tornal olloumstances present:
Vegetation □ , Soil □ , or Hydrology □	naturally	oroblematic?	(If nee	eded, explain any answers in Remarks.)
MARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.
.,,,		le	tha Sam	upled Area
,				-
7 37		l l		etiand? Tes C NO C
narks: small perrenial stream running through drainage	complete	y overhung by	vegetation	
ETATION - Use scientific names of plants 1	ist all sn	ecies in the	nlot	
Ose selentine names of plants. L				Dominance Test worksheet:
ee Stratum			Status	Number of Dominant Species
Diago algues	8		FACU	That are OBL, FACW, or FAC:
				Total Number of Dominant Species Across All Strata: 7 (B)
		-		
		-		Percent of dominant Species That Are OBL, FACW, or FAC: 85.7% (A/B)
				Duayalan as Tuday waylah satu
Total Cover	r: 8	_		Prevalence Index worksheet: Total % Cover of: Multiply by:
pling/Shrub Stratum 50% of Total Cover:	4 20	- % of Total Cover:	1.6	0.00
			-	OBL Species 10 x1 = 10 FACW Species 25.1 x2 = 50.20
· ·		-		FAC Species 69 x 3 = 207
				FACU Species 9 x 4 = 36
		- 🖺		UPL Species 0 x 5 = 0
Datula nana	20			
Coliveration late				Column Totals: <u>113.1</u> (A) <u>303.2</u> (B)
		-	TAC	Prevalence Index = B/A = 2.681
		-		Hydrophytic Vegetation Indicators:
		-		Dominance Test is > 50%
		-		✓ Prevalence Index is ≤3.0
		_		Morphological Adaptations ¹ (Provide supporting data in
erb Stratum 50% of Total Cover:	35.5 20		14.2	Remarks or on a separate sheet)
crb Stratum 50% of Total Cover: _ Calamagrostis canadensis			FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
O de constitución	7			·
Calamagrostis canadensis	7 8	_	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
Calamagrostis canadensis Equisetum arvense	7 8 1	_	FAC FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Calamagrostis canadensis Equisetum arvense Petasites frigidus	7 8 1 6	_	FAC FAC FACW	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m
Calamagrostis canadensis Equisetum arvense Petasites frigidus Carex aquatilis	7 8 1 6	_	FAC FACW OBL	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Calamagrostis canadensis Equisetum arvense Petasites frigidus Carex aquatilis Rumex arcticus	7 8 1 6		FAC FACW OBL FAC OBL FACW	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes
Calamagrostis canadensis Equisetum arvense Petasites frigidus Carex aquatilis Rumex arcticus Comarum palustre	7 8 1 6 2 4 0.1		FAC FACW OBL FAC OBL FACW FACW	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable)
Calamagrostis canadensis Equisetum arvense Petasites frigidus Carex aquatilis Rumex arcticus Comarum palustre Swertia perennis Rhodiola integrifolia Cornus canadensis	7 8 1 6 2 4 0.1		FAC FACW OBL FAC OBL FACW FACW FACW	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m
Calamagrostis canadensis Equisetum arvense Petasites frigidus Carex aquatilis Rumex arcticus Comarum palustre Swertia perennis Rhodiola integrifolia	7 8 1 6 2 4 0.1		FAC FACW OBL FAC OBL FACW FACW	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m 20m 20m 20m 20m 20m 20m 20m 20m 20m 2
Calamagrostis canadensis Equisetum arvense Petasites frigidus Carex aquatilis Rumex arcticus Comarum palustre Swertia perennis Rhodiola integrifolia Cornus canadensis	7 8 1 6 2 4 0.1 1 1 4 34.1		FAC FACW OBL FAC OBL FACW FACW FAC	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground 2 Total Cover of Bryophytes 35
	Rant/Owner: Alaska Energy Authority Itigator(s): BAB relief (concave, convex, none): hummocky region: Interior Alaska Mountains Iap Unit Name: Imatic/hydrologic conditions on the site typical for this to Vegetation	relief (concave, convex, none): hummocky region: Interior Alaska Mountains lap Unit Name: imatic/hydrologic conditions on the site typical for this time of yea Vegetation	Landform (hills relief (concave, convex, none): hummocky Slope: Ingator(s): BAB	cant/Owner: Alaska Energy Authority tigator(s): BAB

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SOIL Sampling Point: SW13_T169_06

		the depth ne Matrix	eded to docur	ment the indicator or co	onfirm the abse		ators)		
Depth – (inches)	Color (mo		 %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7			100	color (moloc)		.,,,,		Fibric Organics	
7-11			100					Hemic Organics	
11-13	10YR	2/1	100					Sandy Loam	ang to semi ang gravel
	1011							Sundy Louin	ang to semi ang graver
								-	
¹Type: C=Conce	entration. D=	Depletion.	RM=Reduc	ed Matrix ² Locatio		_		nnel. M=Matrix	
Hydric Soil Ind	licators:			Indicators for P	roblematic	Hydric So	oils: ³		
Histosol or H	listel (A1)			Alaska Color C	hange (TA4)) 4		Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epiped	don (A2)			Alaska Alpine	swales (TA5))		Underlying Layer	
✓ Hydrogen Su	ulfide (A4)			Alaska Redox \	With 2.5Y Hu	ue		Other (Explain in Remark	(S)
Thick Dark S	Surface (A12)			3 One indicator of	i buduan budia			nary indicator of wetland h	nuduologu.
Alaska Gleye				and an appropria					iyarology,
Alaska Redo: Alaska Gleye		5)		⁴ Give details of c	olor change	in Remark	S		
Restrictive Layer	(if nresent):								
Type:	(ii preserie).							Hydric Soil Present	? Yes ● No ○
Depth (inches	s):							rrydric Son Fresenc	1000 1100
Remarks:	-,								
HYDROLOG	iΥ								
HYDROLOG Wetland Hydro		tors:						_Secondary Indi	cators (two or more are required)
	logy Indica)						cators (two or more are required) ned Leaves (B9)
Wetland Hydro Primary Indicato Surface Wat	logy Indica rs (any one i ter (A1))	☐ Inundation \	/isible on Ae	rial Imagei	ry (B7)		ned Leaves (B9)
Wetland Hydro Primary Indicato Surface Wat W High Water	logy Indica rs (any one i ter (A1) Table (A2))	Sparsely Veg	jetated Conc	_		☐ Water Stai ☑ Drainage F ☐ Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
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