WETLAND DETERMINATION DATA FORM - Alaska Region

\nnlin	ct/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	rough Sampling Date: 06-Aug-13
ռիխու	cant/Owner: Alaska Energy Authority				Sampling Point: SW13_T174_09
	tigator(s): WAD, RWM		Landform (hills	side, terrac	e, hummocks etc.): willow drainage feature
_ocal	relief (concave, convex, none): planar				° Elevation: 1027
Subre	egion : Interior Alaska Mountains	Lat.:	63.364618778		Long.: -148.571573257 Datum: WGS84
	lap Unit Name:		00.00 .0 .0		NWI classification: PSS1B
	imatic/hydrologic conditions on the site typical for this ti	me of vea	r? Yes	No ○	(If no, explain in Remarks.)
			ly disturbed?		lormal Circumstances" present? Yes No
			roblematic?		eded, explain any answers in Remarks.)
SUM	IMARY OF FINDINGS - Attach site map sho		npling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No No		le	the Sam	pled Area
	Hydric Soil Present? Yes No			thin a W	
	Wetland Hydrology Present? Yes No)	WI	uiiii a vv	etiana ?
Ren	marks:				
/F.C	ETATION				
/EG	ETATION -Use scientific names of plants. L	ist all spe	ecies in the	olot.	
		Absolute			Dominance Test worksheet:
1.	ee Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:3 (A)
			. 📙	-	Total Number of Dominant
2. 3.			. 📙		Species Across All Strata: 3 (B)
3. 4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)
5.					
0.	Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sai	pling/Shrub Stratum 50% of Total Cover:		· 6 of Total Cover:	0	001.0
	Salix pulchra Vaccinium uliginosum			FACW	
2				FAC	
3.		0		FAC	FACU Species 3 x 4 = 12
4.		0		FAC	FACU Species 3 x 4 = 12 UPL Species 0 x 5 = 0
4. 5.		0 0			FACU Species 3 x 4 = 12
4. 5. 6.		0 0 0			FACU Species 3 x 4 = 12 UPL Species 0 x 5 = 0
4. 5. 6. 7.		0 0 0 0			FACU Species 3 $x = 12$ UPL Species 0 $x = 5$ 0 Column Totals: 118 (A) 262 (B) Prevalence Index = B/A = 2.220
4. 5. 6.		0 0 0 0			FACU Species 3 x 4 = 12 UPL Species 0 x 5 = 0 Column Totals: 118 (A) 262 (B)
4. 5. 6. 7. 8.		0 0 0 0			FACU Species 3 $x 4 = 12$ UPL Species 0 $x 5 = 0$ Column Totals: 118 (A) 262 (B) Prevalence Index = B/A = 2.220 Hydrophytic Vegetation Indicators:
4. 5. 6. 7. 8. 9.	Total Cover	0 0 0 0 0 0 0			FACU Species 3 $x 4 = 12$ UPL Species 0 $x 5 = 0$ Column Totals: 118 (A) 262 (B) Prevalence Index = B/A = 2.220 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in
4. 5. 6. 7. 8. 9.		0 0 0 0 0 0 0	% of Total Cover		FACU Species 3 $x 4 = 12$ UPL Species 0 $x 5 = 0$ Column Totals: 118 (A) 262 (B) Prevalence Index = B/A = 2.220 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet)
4. 5. 6. 7. 8. 9. 10.	Total Cover	0 0 0 0 0 0 0 0 0 0 0 46.5 209			FACU Species 3 $x 4 = 12$ UPL Species 0 $x 5 = 0$ Column Totals: 118 A 262 B Prevalence Index = $8A = 2.220$ Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)
4. 5. 6. 7. 8. 9. 10.	Total Cover erb Stratum 50% of Total Cover: Calamagrostis canadensis Polemonium acutiflorum	0 0 0 0 0 0 0 0 0 0 2 46.5 209	% of Total Cover	18.6 FAC FAC	FACU Species 3 $x 4 = 12$ UPL Species 0 $x 5 = 0$ Column Totals: 118 (A) 262 (B) Prevalence Index = B/A = 2.220 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain) Indicators of hydric soil and wetland hydrology must
4. 5. 6. 7. 8. 9. 10. He 1. 2. 3.	Total Cover brb Stratum 50% of Total Cover: Calamagrostis canadensis Polemonium acutiflorum Petasites frigidus	0 0 0 0 0 0 0 0 0 0 93 46.5 209	% of Total Cover	18.6 FAC FAC FACW	FACU Species 3 $x 4 = 12$ UPL Species 0 $x 5 = 0$ Column Totals: 118 (A) 262 (B) Prevalence Index = B/A = 2.220 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain)
4. 5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4.	Total Cover brb Stratum Calamagrostis canadensis Polemonium acutiflorum Petasites frigidus Mertensia paniculata	0 0 0 0 0 0 0 0 93 46.5 209 15 2 5	% of Total Cover	18.6 FAC FAC	FACU Species 3 $x 4 = 12$ UPL Species 0 $x 5 = 0$ Column Totals: 118 (A) 262 (B) Prevalence Index = B/A = 2.220 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain) Indicators of hydric soil and wetland hydrology must
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US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T174_09

Profile Description: (Describe to the d	enth needed to d	locument the indicator or co	nfirm the absence o	f indicators)		
Matr			dox Features	l liuicacois,		
Depth (inches) Color (moist)	%	Color (moist)	<u>%</u> Тур	e ¹ Loc ²	Texture	Remarks
0-2	100			_	Fibric Organics	
2-9 10YR 2/	2 100				Sapric Organics	
9-12 10YR 3/					Sand	with lots of organics.
						with 10th of organics.
					-	
¹ Type: C=Concentration. D=Dep	letion. RM=Re	duced Matrix ² Location	n: PL=Pore Linir	g. RC=Root Cha	annel. M=Matrix	
Hydric Soil Indicators:		Indicators for Pr	oblematic Hyd	ric Soils:		
Histosol or Histel (A1)		Alaska Color Cl	4		Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epipedon (A2)		Alaska Alpine s			Underlying Layer	
Hydrogen Sulfide (A4)		Alaska Redox V	With 2.5Y Hue		Other (Explain in Remark	(S)
☐ Thick Dark Surface (A12)		_				
Alaska Gleyed (A13)		³ One indicator of and an appropriat			mary indicator of wetland h	nydrology,
Alaska Redox (A14)				·	CSCITC	
Alaska Gleyed Pores (A15)		⁴ Give details of co	olor change in Re	emarks		
Restrictive Layer (if present):						
Type:					Hydric Soil Present	? Yes • No O
Depth (inches):					·	
Remarks:						
HYDROLOGY						
HYDROLOGY Wetland Hydrology Indicators					Secondary Indi	cators (two or more are required)
HYDROLOGY Wetland Hydrology Indicators Primary Indicators (any one is suf						cators (two or more are required)_ ned Leaves (B9)
Wetland Hydrology Indicators		☐ Inundation V	isible on Aerial I.	magery (B7)	Water Stai	
Wetland Hydrology Indicators Primary Indicators (any one is suf			isible on Aerial I		☐ Water Stai ☑ Drainage F	ned Leaves (B9)
Wetland Hydrology Indicators Primary Indicators (any one is suf			etated Concave		☐ Water Stai ☑ Drainage F ☐ Oxidized R	ned Leaves (B9) Patterns (B10)
Wetland Hydrology Indicators Primary Indicators (any one is suf Surface Water (A1) High Water Table (A2)		Sparsely Veg Marl Deposit	etated Concave		☐ Water Stai ☑ Drainage F ☐ Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
Wetland Hydrology Indicators Primary Indicators (any one is suf Surface Water (A1) High Water Table (A2) Saturation (A3)		Sparsely Veg Marl Deposit: Hydrogen Su	etated Concave : s (B15)		Water Stai ✓ Drainage F ○ Oxidized R ○ Presence c ○ Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
Wetland Hydrology Indicators Primary Indicators (any one is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Sparsely Veg Marl Deposite Hydrogen Su Dry-Season V	etated Concave (s s (B15) Ifide Odor (C1)		Water Stai ✓ Drainage F Oxidized R Presence c Salt Depos Stunted or	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5)
Wetland Hydrology Indicators Primary Indicators (any one is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Sparsely Veg Marl Deposite Hydrogen Su Dry-Season V	etated Concave (s (B15) Ifide Odor (C1) Water Table (C2)		Water Stai ✓ Drainage F ○ Oxidized R ○ Presence o ○ Salt Depos ○ Stunted or ○ Geomorph ○ Shallow Ac	Patterns (B10) Patterns (B10) Phizospheres along Living Roots (C3) If Reduced Iron (C4) Positis (C5) Position (D1) Position (D2) Position (D3)
Wetland Hydrology Indicators Primary Indicators (any one is suf Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		Sparsely Veg Marl Deposite Hydrogen Su Dry-Season V	etated Concave (s (B15) Ifide Odor (C1) Water Table (C2)		Water Stai Drainage F Oxidized R Presence of Salt Depos Stunted or Geomorph Shallow Ac Microtopoo	Patterns (B10) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) iits (C5) Stressed Plants (D1) iic Position (D2) quitard (D3) graphic Relief (D4)
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