WETLAND DETERMINATION DATA FORM - Alaska Region

Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Jul-13
nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T122_03
		Landform (hill	side, terrac	
		Slope:	% / 3.1	P. Control of the Con
	Lat.:	62 857427596	 87	Long.: -148.492508172 Datum: NAD83
	_	02.007 427 000		NWI classification: Upland
	this time of yes	or? Yes	● No ○	(If no, explain in Remarks.)
	_			lormal Circumstances" present? Yes No
		•		eded, explain any answers in Remarks.)
-				
<u>'</u>		mpling point	locations	s, transects, important features, etc.
, , ,		le	tha Sam	nlad Araa
.,				
	No O	W	uiiii a vv	etianu? 165 5 NO 5
ks:				
FATION - Use scientific names of plant	ts. List all sp	ecies in the	plot.	
			Indicator	Dominance Test worksheet:
		r Species?		Number of Dominant Species That are OBL, FACW, or FAC:7 (A)
Picea giauca		_	FACU	Total Number of Dominant
		-		Species Across All Strata: 7 (B)
		-		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
		- H		
Total (Prevalence Index worksheet: Total % Cover of: Multiply by:
ng/Shrub Stratum 50% of Total Cover	: 1.5 209	= % of Total Cover:	0.6	OBL Ossaiss
_ _				OBL Species 1
		_		FAC Species 127 x 3 = 381
Vaccinium uliginosum		_		FACU Species 3.1 x 4 = 12.4
				UPL Species 0 x 5 = 0
Dhadadandran graanlandigum		- —	FAC	Column Totals: <u>173.1</u> (A) <u>478.4</u> (B)
			FAC	
Spiraea stevenii	0.1		FACU	Prevalence Index = B/A = 2.764
	0			Hydrophytic Vegetation Indicators:
	0	_ 📙		✓ Dominance Test is > 50%
	0	_		✓ Prevalence Index is ≤3.0
			. 22.02	Morphological Adaptations (Provide supporting data in
				Remarks or on a separate sheet)
0		_		Problematic Hydrophytic Vegetation (Explain)
O bil- "		_		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Caray adalastama	4		-	
	-	- 📋		Plot size (radius, or length x width) 10m
				% Cover of Wetland Bryophytes (Where applicable)
				% Bare Ground
				Total Cover of Bryophytes 80
				Hydrophytic
		_		пушорпуцс
Total (50% of Total Cover	Cover: <u>5</u>	= _ % of Total Cover:	1	Vegetation Present? Yes No
	Alaska Energy Authority ador(s): SLI, SCB dief (concave, convex, none): hummocky on: Interior Alaska Mountains of Unit Name: atic/hydrologic conditions on the site typical for its egetation	Alaska Energy Authority ator(s): SLI, SCB delief (concave, convex, none): hummocky on: Interior Alaska Mountains Dunit Name: Destation	At/Owner: Alaska Energy Authority ator(s): SLI, SCB	Alaska Energy Authority ator(s): SLI, SCB Landform (hillside, terrac filler (concave, convex, none): hummocky Slope: % / 3.1

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SOIL Sampling Point: SW13_T122_03

Gorder (molest) 100%	Profile Description: (Describe	Matrix		Re	dox Feature	es			
Fig. 2	: ·	moist)	%	Color (moist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks
7-12 7.5YR 4/4 100% Loamy Sind with subanquiar Fc gravels Fraction Fract	0-6		100%					Hemic Organics	
1-Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soil Indicators: Hististod or fisted (A1)	6-7		100%					Loam	high organic content
Hydric Soil Indicators: Histosol or Histel (A1)	7-12 7.5YR	4/4	100%					Loamy Sand	with subangular f-c gravels
Hydric Soil Indicators: Histosol or Histel (A1)									•
Hydric Soil Indicators: Histosol or Histel (A1)									
Hydric Soil Indicators: Histosol or Histel (A1)									
Hydric Soil Indicators: Histosol or Histel (A1)									
Hydric Soil Indicators: Histosol or Histel (A1)								-	
Hydric Soil Indicators: Histosol or Histel (A1)	Type: C=Concentration	D=Depletion	n. RM=Reduce	ed Matrix ² Locatio	n: PL=Pore L	Lining. RC	=Root Cha	nnel. M=Matrix	
Histosol or Histel (A1)						_			
Histic Epipedon (A2)					4	, *		Alaska Gleyed Without H	lue 5Y or Redder
hydrogen Sulfide (A4)				Alaska Alpine	swales (TA5)				
Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) Alaska Redox (A15) Alaska Redox (A15) Alaska Redox (A15) *Give details of color change in Remarks *Hydric Soil Present? Yes No ● *Primary Indicators *Primary Indicators (any one is sufficient) By Dardewater (A1) By Mater Table (A2) By Saturation Present? By Satu	=)		Alaska Redox	With 2.5Y Hue	e		Other (Explain in Remar	ks)
Alaska Redox (A14) Alaska Redox (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Wettictive Layer (if present): Type: frozen Depth (inches): 12 Hydric Soil Present? Yes No Depth (inches): 12 Wettand Hydrology Indicators. Wettand Hydrology Indicators: In hydric soil indicators (any one is sufficient) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Water Valuration (A3) Mari Deposits (B15) Presence of Reduced Iron (C4) Water Marks (B1) Hydrogen Suffice Odor (C1) Diff Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2) Diff Deposits (B3) Diff Ton Deposits (B3) Surface Soil Cracks (B6) FAC-neutral Test (D5) Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inches): Saturation Present? Yes No Depth (inches): Yes No Depth (inches	Thick Dark Surface (A	12)		_					
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Additional Content C	Alaska Redox (A14)				•	•			
Type: frozen Depth (inches): 12 Hydric Soil Present? Yes	Alaska Gleyed Pores	A15)		Give details of t	color change ii	II Kelliaik	5		
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Application Company	Type: frozen							Hydric Soil Present	:? Yes ∪ No •
Application	Donth (inches), 12								
Wetland Hydrology Indicators: Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient)	emarks:								
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High Water Table (A2)	emarks: o hydric soil indicators. YDROLOGY Vetland Hydrology Inc.								
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□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □ Surface Water Present? Yes □ No ● Depth (inches): Water Table Present? Yes □ No ● Depth (inches): Saturation Present? Yes ● No □ Depth (inches): 11 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	YDROLOGY Vetland Hydrology Inc Primary Indicators (any of Surface Water (A1) High Water Table (A Saturation (A3)	ne is sufficiei	nt)	Sparsely Veg	getated Conca ts (B15)	ave Surfac		Water Sta Drainage Oxidized F	ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C3) of Reduced Iron (C4)
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