WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 11-Jul-13
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T108_04
Investig	gator(s): JER		Landform (hil	lside, terrac	ce, hummocks etc.):
Local re	elief (concave, convex, none):		Slope:	% /	° Elevation: 719
Subrea	ion : Interior Alaska Mountains	Lat ·	62.88561463		Long.: -148.249869585 Datum: WGS84
_	p Unit Name:		02.00001400	<u> </u>	NWI classification: PSS3/4B
Are clim Are Vo Are Vo	natic/hydrologic conditions on the site typical for this tine	significant naturally p ving sar	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)
	Hydric Soil Present? Yes ● No C		Is	the Sam	pled Area
	Wetland Hydrology Present? Yes No C		w	ithin a W	/etland? Yes ◉ No ○
	,,,				
VEGE	TATION -Use scientific names of plants. Li	st all sp	e Dominant	Indicator	Dominance Test worksheet:
	Stratum	_% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC:5 (A)
	Picea mariana	5	_	FACW	Total Number of Dominant
2. 3.		0	- 📙		Species Across All Strata:5(B)
4.		0	- 📙		Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)
5.			-		
	Total Cover:	- 5			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sanl	ling/Shrub Stratum 50% of Total Cover:		- % of Total Cover	: 1	001.0
	Picea mariana	25	_	FACW	
	Ledum groenlandicum	_ 25		FAC	FAC Species 70 x 3 = 210 FACU Species 0 x 4 = 0
	Ledum decumbens	20	- —	FACW	UPL Species 0 x 5 = 0
	Vaccinium uliginosum	15 15	- —	FAC FAC	
6.	Vaccinium vitis-idaea Empetrum nigrum	10		FAC	Column Totals: <u>155</u> (A) <u>380</u> (B)
	Betula nana	5	-	FAC	Prevalence Index = B/A = 2.452
8.		0	-	1710	Hydrophytic Vegetation Indicators:
		0			✓ Dominance Test is > 50%
		0			✓ Prevalence Index is ≤3.0
	Total Cover: 50% of Total Cover:			r: 23	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Rubus chamaemorus	35	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2.					¹ Indicators of hydric soil and wetland hydrology must
			_		be present, unless disturbed or problematic.
					Plot size (radius, or length x width)
5.		0	- 📙		% Cover of Wetland Bryophytes
			- 📙		(Where applicable)
			-		% Bare Ground
			-		Total Cover of Bryophytes65
			- 📙		
10.	Tetal Covers	0	- ⊔		Hydrophytic
	Total Cover: 50% of Total Cover: 1		_	: 7	Vegetation Present? Yes ● No ○
_					<u> </u>
Rema	arks: plesch 30, sphag 20, lichf 15				

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SOIL Sampling Point: SW13_T108_04

Profile Description: (Description: Depth	Matrix		Re	dox Feature				
(inches) Colo	r (moist)	%	Color (moist)	%	Type 1 L	.oc_ ²	Texture	Remarks
0-11		100				Fi	bric Organics	-
			2					-
Type: C=Concentration							el. M=Matrix	
lydric Soil Indicator			Indicators for P	4	lydric Soils:			
Histosol or Histel (A	•		Alaska Color C				aska Gleyed Without H nderlying Layer	ue 5Y or Redder
Histic Epipedon (A2	•		Alaska Alpine	With 2.5Y Hue	•		ther (Explain in Remark	rs)
Hydrogen Sulfide (•		Alaska Redux	Widi Z.51 Flue	=		arer (Explain in Remain	5)
☐ Thick Dark Surface☐ Alaska Gleyed (A13	. ,						indicator of wetland h	ydrology,
Alaska Gleyeu (A13 Alaska Redox (A14)	•		and an appropria	ate landscape ¡	position must	be preser	nt	
Alaska Gleyed Pore			4 Give details of of	color change ir	n Remarks			
estrictive Layer (if pres								
,	•					н	ydric Soil Present	? Yes • No O
Type: ice rich frost							,	
Depth (inches): 11 emarks:	soils prevented	l digging deep	enough to confirm	n.				
	soils prevented	d digging deep	enough to confirm	n.				
Depth (inches): 11 emarks: kely histosol but frozen		digging deep	enough to confirm	n.				
Depth (inches): 11 emarks: kely histosol but frozen YDROLOGY Vetland Hydrology I	ndicators:		enough to confirm	n.				cators (two or more are required)
Depth (inches): 11 emarks: kely histosol but frozen YDROLOGY Vetland Hydrology I Primary Indicators (any	ndicators: one is sufficier						Water Stai	ned Leaves (B9)
Depth (inches): 11 emarks: kely histosol but frozen YDROLOGY //etland Hydrology I Primary Indicators (any Surface Water (A1)	ndicators: one is sufficier		Inundation	Visible on Aeria			Water Stai	ned Leaves (B9) Patterns (B10)
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Pepth (inches): 11 emarks: dely histosol but frozen PDROLOGY Vetland Hydrology I rimary Indicators (any Surface Water (A1 High Water Table (Saturation (A3)	ndicators: one is sufficier		Inundation Sparsely Ve	Visible on Aeria getated Conca ts (B15)	ive Surface (B		Water Stai Drainage F Oxidized R Presence c	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3 f Reduced Iron (C4)
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