WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 11-Jul-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T108_03
Investigator(s): JER		Landform (hill	side, terrac	e, hummocks etc.): Shoulder slope
Local relief (concave, convex, none): hummocky		Slope: 3.5	% / 2.0	° Elevation: 720
Subregion : Interior Alaska Mountains	Lat.:	62.884017587	,	Long.: -148.251511216 Datum: WGS84
Soil Map Unit Name:				NWI classification: PSS3/1B
Are climatic/hydrologic conditions on the site typical for this Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology .	significan	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho		mpling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		la	the Com	pled Area
Hydric Soil Present? Yes No			thin a W	
Wetland Hydrology Present? Yes No	\supset	WI	uiiii a vv	etiality 165 o No o
Remarks: shoulder of linear 'island' in swale, slcbe VEGETATION -Use scientific names of plants. I	_ist all sp	ecies in the	plot.	
	Absolute	e Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1	0			That are OBL, FACW, or FAC: 2 (A) Total Number of Dominant
2	0			Species Across All Strata: (B)
3				Percent of dominant Species
4	_ 0	_		That Are OBL, FACW, or FAC: 100.0% (A/B)
5	0	_		Prevalence Index worksheet:
Total Cove		_		Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species x 1 =1
Ledum decumbens	65	_	FACW	FACW Species 90 x 2 = 180
Ledum groenlandicum	15		FAC	FAC Species 60 x 3 = 180
3. Betula nana	15	_	FAC	FACU Species 0 x 4 = 0
Vaccinium uliginosum	10		FAC	UPL Species <u>0</u> x 5 = <u>0</u>
5. Empetrum nigrum			FAC	Column Totals: <u>151</u> (A) <u>361</u> (B)
6. Vaccinium vitis-idaea		-	FAC	Prevalence Index = B/A =2.391_
7. Betula glandulosa		-	FAC	
Vaccinium oxycoccos Betula neoalaskana	$-\frac{1}{0.1}$	-	OBL FACU	Hydrophytic Vegetation Indicators: Dominance Test is > 50%
Betula neoalaskana Picea mariana	0.1		FACW	✓ Prevalence Index is ≤ 3.0
Total Cove		_	TACW	
Herb Stratum 50% of Total Cover:			25.24	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1. Rubus chamaemorus	25	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2.				¹ Indicators of hydric soil and wetland hydrology must
3.		_		be present, unless disturbed or problematic.
4	0	_ 📙		Plot size (radius, or length x width)
5		-		% Cover of Wetland Bryophytes
6		- 📙		(Where applicable)
7		-		% Bare Ground <u>0.1</u>
8.		- 📙		Total Cover of Bryophytes 40
9.	$- \frac{0}{0}$	- 📙		
10				Hydrophytic
		_	5	Present? Yes • No •
				1
Remarks: plesch, dicra, polyt, sphag , lichf 15		_	5	Vegetation Present? Yes No No

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T108_03

Wetland Hydrology Indicators: Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient) Water Stained Leaves (B9) Surface Water (A1) Inundation Visible on Aerial Imagery (B7) Drainage Patterns (B10) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (C1) Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deposits (C5) Sediment Deposits (B2) Dry-Season Water Table (C2) ✓ Stunted or Stressed Plants (D1) Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2) Algal Mat or Crust (B4) ✓ Shallow Aquitard (D3) Iron Deposits (B5) Microtopographic Relief (D4) Surface Soil Cracks (B6) ✓ FAC-neutral Test (D5) Field Observations: Verson No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Verson No Depth (inches): Depth (inches): Verson No Depth (inches): No Depth (inches):	(inches) -	Matrix			dox Featur		. 2	Touture	Domaile
10-16 100		moist)		olor (moist)	<u>%</u>	Type ¹	Loc ²		Remarks
*Type: C~Concentration. D=Depletion. RM=Reduced Matrix ** Location: PL=Pore Lining, RC=Root Channel. M=Matrix **Hydric Soil Indicators:								-	
Indicators for Problematic Hydric Soils. Indicators for Soils. Indicators for Problematic Hydric Soils. Indicators for Soils. Indicators for Problematic Hydric Soils. Indicators for Soils. Indicators for Problematic Hydric Soils. Indicators for Problematic Hydrophysic Legetator for			100					Hemic Organics	w some charcoal in matrix
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Histosol or Histel (A1)									
Histosol or Histel (A1)	Type: C=Concentration.	D=Depletion. F	M=Reduced	Matrix ² Locatio	n: PL=Pore	 Lining. RC=	Root Cha	nnel. M=Matrix	-
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