WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling I	Date: 23-Jun-12
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW12_T19_08
Investigator(s): JGK	Landform (hill	side, terrace, hummocks etc.): Ridgetop	
Local relief (concave, convex, none):Convex	Slope: 0.0	% / 0.0 ° Elevation: 858	
Subregion : Southcentral Alaska Lat	t.: 62.782719909	Long.: -149.540019966	Datum: WGS84
Soil Map Unit Name:		NWI classification: נ	Jpland
	vear? Yes antly disturbed? ly problematic?	 No (If no, explain in Remarks.) Are "Normal Circumstances" present? (If needed, explain any answers in Rem 	Yes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map showing s	sampling point	locations, transects, important feature	ures, etc.
Hydrophytic Vegetation Present? Yes O No 🖲	le.		
	IS	the Sampled Area	

within a Wetland?

Yes 🔿 No 🖲

Hydric Soil Present?

Wetland Hydrology Present?

VEGETATION - Use scientific names of plants. List all species in the plot.

Yes 🔿 No 🖲

Yes 🔿 No 🖲

A			e Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum	Absolut % Cove		Status	Number of Dominant Species
1.		0			That are OBL, FACW, or FAC: (A)
2.					Total Number of Dominant Species Across All Strata: 2 (B)
3.					
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 0,0% (A/B)
 5.					
5.		0	_		Prevalence Index worksheet:
	Total Cover:				Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species x 1 =
1.	Arctostaphylos alpina	30	\checkmark	FACU	FACW Species <u>1</u> x 2 = <u>2</u>
2.	Vaccinium uliginosum	E		FAC	FAC Species <u>8</u> x 3 = <u>24</u>
3.	Loiseleuria procumbens			FACU	FACU Species <u>37</u> x 4 = <u>148</u>
4.	Vaccinium vitis-idaea	2		FAC	UPL Species x 5 =
5.	Ledum decumbens	-		FACW	Column Totals: <u>46</u> (A) <u>174</u> (B)
6.	Empetrum nigrum	1		FAC	Prevalence Index = B/A = 3.783
7.		0			
					Hydrophytic Vegetation Indicators:
					Dominance Test is > 50%
					□ Prevalence Index is ≤3.0
	Total Cover:		_		Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:	20.5 20	0% of Total Cover:	8.2	Remarks or on a separate sheet)
1.	Anthoxanthum monticola ssp. alpinum	5	\checkmark	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2.		0			¹ Indicators of hydric soil and wetland hydrology must
					be present, unless disturbed or problematic.
					Plot size (radius, or length x width) <u>10m</u>
					% Cover of Wetland Bryophytes (Where applicable)
		-			% Bare Ground _5
					Total Cover of Bryophytes
		0			Hydrophytic
	Total Cover:	5	_		Vegetation
	50% of Total Cover:	2.5 20	% of Total Cover:	1	Present? Yes \bigcirc No \bigcirc
Rem	arks: tr anemone betnan fern anenar chalat carex 50)% licher	n cover- mostly o	laste	

0-3 95 Henc Organics 12% roots 3-12 2.57 5/6 60 Sindy Loam 40% angular gased to angular cobble 12+	(inches) Cole	or (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
124 before 125 before 124 before 124 before 124 before 124 before 124 before 125 before 124 before 125 before						.,,,,		Hemic Organics	15% roots
Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix ydric Soil Indicators: Indicators for Problematic Hydric Soils? Histocol or Histel (A1) Alaska Apine swales (TA5) Hydrogen Suffice (A4) Alaska Apine swales (TA5) Hydrogen Suffice (A12) Alaska Gleyed (A13) an an appropriate Indicators of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate Indicator present Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A14) Alaska Gleyed (A13) an an appropriate Indicators of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate Indicators present Hydric Soil Present? Yes No [®] Depth (inches): marks: Type: Location (A1) Inundation Visible on Aerial Imagery (87) Diration (A3) Mark Present (P15) Starter (A13) Sparsely Vegetated Concave Surface (88) Diration (A3) Mark Present (P16) Starter (A11) Inundation Visible on Aerial Imagery (87) Drainage Patterns (810) Starter (A12) Sparsely Vegetated Concave Surface (88) Doidided Rhydrophytenses (A15) Starter (A1	3-12 2.5	Y 5/6	60					Sandy Loam	40% angular gravel to angular cobble
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Alaska Goleved (A1.3) and an appropriate landscape position must be present: If the state of the st	7	. ,		³ One indicator of	hvdrophytic	: vegetatio	n, one prin	mary indicator of wetland	l hvdrology,
Alaska Gleyed Pores (A15) 4 Give details of color change in Remarks strictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No • marks: Present? PDROLOGY Secondary Indicators (two or more are required). imary Indicators (any one is sufficient) Inundation Visible on Aerial Imagery (B7) Surface Water (A1) Inundation Visible on Aerial Imagery (B7) Surface Water (A1) Sparsely Vegetated Concave Surface (B8) Sufface Water (A3) Mart Deposits (B15) Sturtation (A3) Hydrogen Sulfide Odor (C1) Saturation (A3) Other (Explain in Remarks) Geomorphic Positis (B2) Orther (Explain in Remarks) Joint Deposits (B5) Presence of Reduced Iron (C4) Mater Table (A2) Shallow Aquitard (D3) Iron Deposits (B5) Other (Explain in Remarks) Jagal Mat or Crust (B4) Shallow Aquitard (D3) Iron Deposits (B5) Depth (inches): urface Water Present? Yes No • Depth (inches): Depth (inches): urface Water Present? Yes No • Depth (inches): Depth (inches): urface Wat	1	-							
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□ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) eld Observations: □ Pepth (inches): urface Water Present? Yes ○ No ○ Depth (inches): vater Table Present? Yes ○ No ○ Depth (inches): wetland Hydrology Present? Yes ○ No ○ vaturation Present? Yes ○ No ○ vet ○ No ○ Depth (inches):	Depth (inches): marks: DROLOGY etland Hydrology I imary Indicators (any Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1)	<u>one is sufficier</u>) (A2)	nt)	Sparsely Veg	etated Conc s (B15) Ilfide Odor (9	cave Surfac		Secondary Ir Water S Drainag Oxidized Presence Salt Dep	idicators (two or more are required) tained Leaves (B9) e Patterns (B10) Rhizospheres along Living Roots (C3 e of Reduced Iron (C4) iosits (C5)
Surface Soil Cracks (B6) □ FAC-neutral Test (D5) eld Observations: urface Water Present? Yes ○ No ○ Depth (inches): /ater Table Present? Yes ○ No ○ Depth (inches): Wetland Hydrology Present? Yes ○ No ○ /aturation Present? Yes ○ No ○ Depth (inches): Depth (inches):	Depth (inches): marks:	<u>r one is sufficier</u>) (A2) (B2)	nt)	Sparsely Veg Marl Deposit Hydrogen Su Dry-Season	jetated Conc s (B15) Ilfide Odor (9 Water Table	cave Surfac C1) (C2)		Secondary Ir Water S Drainago Oxidized Presenco Salt Dep Stunted	dicators (two or more are required) tained Leaves (B9) e Patterns (B10) Rhizospheres along Living Roots (C3 e of Reduced Iron (C4) iosits (C5) or Stressed Plants (D1)
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