WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 19-Jun-12
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T29_17
nvesti	gator(s): SLI, EKJ		Landform (hill	side, terrac	e, hummocks etc.): Lowland
	elief (concave, convex, none): flat		Slope:	%/ 1.8	
	ion : Southcentral Alaska	L at :	62.78280819 ²		Long.: -148.811265742 Datum: NAD83
		Lat	02.70200019	12	
	p Unit Name:			0 0	NWI classification: PEM1F
Are ∖ Are ∖	egetation □ , Soil ☑ , or Hydrology □ n MARY OF FINDINGS - Attach site map show	significantl naturally pr wing san	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.
			ls	the Sam	ipled Area
	Hydric Soil Present? Yes			thin a W	
D	Wetland Hydrology Present? Yes No C arks: floating sphagnum mat at kettle pond margin)		u	
	TATION - Use scientific names of plants. Li	st all spe Absolute % Cover	Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species
1.		0		<u> </u>	That are OBL, FACW, or FAC:5_ (A)
2.					Total Number of Dominant
3.		0			Species Across All Strata:6 (B)
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)
 5.		0			
0.	Total Cover				Prevalence Index worksheet:
6-1	ling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	Total % Cover of: Multiply by:
<u></u>		0 20%			OBL Species 75 x 1 = 75
1.	Betula nana	2		FAC	FACW Species $2 \times 2 = 4$
2.	Picea glauca			FACU	FAC Species 3 $x 3 = 9$
3.	Andromeda polifolia			FACW	FACU Species $1 \times 4 = 4$
4.	Vaccinium uliginosum			FAC	UPL Species x 5 =
5.	Salix myrtillifolia			FACW	Column Totals: <u>81</u> (A) <u>92</u> (B)
6.					Prevalence Index = B/A =1.136
7.		0			
8.		0			Hydrophytic Vegetation Indicators:
		0			Dominance Test is > 50%
10.		0			Prevalence Index is ≤3.0
Her	Total Cover: <u>b Stratum</u> 50% of Total Cover:		% of Total Cover	: 1.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Carex aquatilis	50		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
	Carex utriculata	10		OBL	¹ Indicators of hydric soil and wetland hydrology must
	Menyanthes trifoliata	-		OBL	be present, unless disturbed or problematic.
	Eriophorum angustifolium	-		OBL	Plot size (radius, or length x width) 10m
•••	Carex rariflora			OBL	% Cover of Wetland Bryophytes
6.		-			(Where applicable)
					% Bare Ground _25
					Total Cover of Bryophytes
10.	Tatal Gauge	0			Hydrophytic
1	Total Cover:				Vegetation Present? Yes No
	50% of Total Cover:	07 E 2∩0⁄	of Total Cover	10	Present? Yes 🔍 No 🔾

Type: C=Concentration. D=Depletion. RM=Reduced Matrix * Location: PL=Pore Lining. RC=Root Channel. M=Matrix type: C=Concentration. D=Depletion. RM=Reduced Matrix * Location: PL=Pore Lining. RC=Root Channel. M=Matrix type: C=Concentration. D=Depletion. RM=Reduced Matrix * Location: PL=Pore Lining. RC=Root Channel. M=Matrix type: C=Concentration. D=Depletion. RM=Reduced Matrix * Location: PL=Pore Lining. RC=Root Channel. M=Matrix type: C=Concentration. D=Depletion. RM=Reduced Matrix * Location: PL=Pore Lining. RC=Root Channel. M=Matrix type: C=Concentration. D=Depletion. RM=Reduced Matrix * Indicators for Problematic Hydric Soils.* Indicators: Indicators: Indicators: Indicator of Problematic Hydric Soils.* Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) * Other (Explain in Remarks) Setrictive Layer (If present): Type: Depth (inches): emarks: o soil pit due to standing water throughout site. assume hydric soil due to primary hydrology indicators and hydrophytic vegetation. YPROLOGY YPROLOGY Water Stainee: Image: Secondary Indicators: Imary Indicators (any one is sufficient) Imary Indicators: Imary Indic								
rdric Soil Indicators: Indicators for Problematic Hydric Soils: ³ Histosol or Histel (A1) Alaska Color Change (TA4) ⁴ Alaska Gleyed Without Hue Underlying Layer Histic Epipedon (A2) Alaska Alpine swales (TA5) Underlying Layer Hydrogen Sulfide (A4) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) Thick Dark Surface (A12) ³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydr and an appropriate landscape position must be present Alaska Gleyed Pores (A13) ³ One indicator color change in Remarks Alaska Gleyed Pores (A15) ⁴ Give details of color change in Remarks strictive Layer (if present): Type: Depth (inches): Hydric Soil Present? marks: soil pit due to standing water throughout site. assume hydric soil due to primary hydrology indicators and hydrophytic vegetation. DROLOGY Secondary Indicators:								
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marks: soil pit due to standing water throughout site. assume hydric soil due to primary hydrology indicators and hydrophytic vegetation. DROLOGY stland Hydrology Indicators:	? Yes 🖲 No 🔾	Hydric Soil Present?	H					Туре:
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DROLOGY etland Hydrology Indicators:								marks:
/etland Hydrology Indicators: <u>Secondary Indicators</u>								
		Course dame Tadia						
	cators (two or more are required ined Leaves (B9)					i+)		
Surface Water (A1)	· · /							7
	thizospheres along Living Roots (
	of Reduced Iron (C4)		✓ Tright Water Table (A2)					
Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deposits	. ,							
	Stressed Plants (D1)							
Drift Deposits (B3)	ic Position (D2)	🖌 Geomorphic		emarks)	Other (Explai		s (B3)	Drift Deposits (B3)
Algal Mat or Crust (B4)	juitard (D3)	Shallow Aqu		-			Crust (B4)	Algal Mat or Crust (B
	graphic Relief (D4)						(B5)	Iron Deposits (B5)
	al Test (D5)	✓ FAC-neutral					Cracks (B6)	Surface Soil Cracks (
Iron Deposits (B5) Microtopograp Surface Soil Cracks (B6) ✓ FAC-neutral T						_		eld Observations:
Surface Soil Cracks (B6) FAC-neutral Teld Observations:					Depth (inche			urface Water Present?
Surface Soil Cracks (B6) ✓ FAC-neutral Tree eld Observations: urface Water Present? Yes ● No ○ Depth (inches): 2			Wetland		Depth (inche	No O	ent? Yes	later Table Present?
Surface Soil Cracks (B6) ✓ FAC-neutral T eld Observations:	nt? Yes 🖲 No 🔿	d Hydrology Present	in octaina				it? Voc (aturation Present?
Surface Soil Cracks (B6) ✓ FAC-neutral Track eld Observations: Ves ● No ○ Depth (inches): 2 urface Water Present? Yes ● No ○ Depth (inches): 2 /ater Table Present? Yes ● No ○ Depth (inches): 0	nt? Yes 🖲 No 🔾	d Hydrology Present			Depth (inche	No	(fringe)	ncludes capillary fringe)