WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling D	ate: 06-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T112_04
Investigator(s): SLI, SCB	Landform (hills	side, terrace, hummocks etc.): Hillside	
Local relief (concave, convex, none): hummocky	Slope: 3.0	% / 1.7 ° Elevation: 745	
Subregion : Interior Alaska Mountains Lat.	62.791004419	Long.: -148.261094809	Datum: WGS84
Soil Map Unit Name:		NWI classification: P	SS1B
	ar? Yes not the formatic of th	(Yes No
SUMMARY OF FINDINGS - Attach site map showing sa	•		,

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?		No () No () No ()	Is the Sampled Area within a Wetland?	Yes \odot No \bigcirc
Remarks: photo time 1300, #s 1300-12	303			

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

			۵he	olute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum			Cover	Species?	Status	Number of Dominant Species	
1.	Picea glauca		_	15	\checkmark	FACU	That are OBL, FACW, or FAC:(A)
2.				0			Total Number of Dominant Species Across All Strata: 7 (B)
3.				0			Percent of dominant Species
4.				0			That Are OBL, FACW, or FAC: <u>71.4%</u> (A/B)
5.				0			Prevalence Index worksheet:
		Total Cove	r: _	15			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum	50% of Total Cover:	7.5	20%	of Total Cover:	3	OBL Species x 1 =
1.	Picea glauca			15	\checkmark	FACU	FACW Species <u>6</u> x 2 = <u>12</u>
2.	Calix haralaxi			10	\checkmark	FAC	FAC Species 70.1 x 3 = 210.3
3.	Botulo glopdulogo			10	\checkmark	FAC	FACU Species <u>30</u> x 4 = <u>120</u>
4.	Vaccinium uliginosum			10	\checkmark	FAC	UPL Species x 5 =
5.	Coliv alound		_	10	\checkmark	FAC	Column Totals: 106.1 (A) 342.3 (B)
6.	Ledum decumbens			5		FACW	
7.	Vaccinium vitis-idaea		_	5		FAC	Prevalence Index = B/A = <u>3.226</u>
8.	Ledum groenlandicum		_	2		FAC	Hydrophytic Vegetation Indicators:
9.	Empetrum nigrum		_	2		FAC	✓ Dominance Test is > 50%
10.	Alnus viridis ssp. crispa		_	1		FAC	Prevalence Index is ≤ 3.0
		Total Cove		70			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum_	50% of Total Cover:	35	_ 20%	of Total Cover:	14	Remarks or on a separate sheet)
1.	Carex bigelowii		_	20		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Rubus chamaemorus		_	1		FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Pedicularis lapponica		_	0.1		FAC	be present, unless disturbed or problematic.
4.			_	0			Plot size (radius, or length x width)10m
5.			_	0			% Cover of Wetland Bryophytes
6.			_				(Where applicable)
7.			_				% Bare Ground
8.			_	0			Total Cover of Bryophytes
9.			_	0			
10.			_	0			Hydrophytic
		Total Cove		21.1	(Vegetation Present? Yes • No O
		50% of Total Cover:	10.55	20%	of Lotal Cover:	4.22	
Rem	arks: trace arcalp, salret						

SOIL

Depth						-	_	
(inches) Color (i	noist)	<u>%</u>	Color (moist)	%	Type ¹	<u>Loc</u> ²	Texture	Remarks
0-5							Hemic Organics	
5-11			,				Sapric Organics	
							<u></u>	
						-	- <u></u>	
Type: C=Concentration.			d Matrix ² Location	PI – Por			annel M-Matrix	
ydric Soil Indicators:	D=Depletion.	RM=Reduce	Indicators for Pro		-			
Histosol or Histel (A1)			Alaska Color Ch		4] Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine sv		-		Underlying Layer	
] Hydrogen Sulfide (A4)			Alaska Redox W	•	,		Other (Explain in Remar	ks)
Thick Dark Surface (A	2)			1012.511	luc			
Alaska Gleyed (A13)	- <i>L</i>)						mary indicator of wetland l	hydrology,
Alaska Redox (A14)			and an appropriate	e landscap	pe position i	must be pro	esent	
Alaska Gleyed Pores (A	.15)		⁴ Give details of co	olor chang	e in Remark	s		
strictive Layer (if present	•							
Type: frozen							Hydric Soil Present	:? Yes 🖲 No 🔾
Depth (inches): 11							riyune son Fresend	
marks:								
(DROLOGY								
(DROLOGY etland Hydrology Indi								icators (two or more are required)
(DROLOGY etland Hydrology Indi							Water Sta	ined Leaves (B9)
(DROLOGY etland Hydrology Indi imary Indicators (any on Surface Water (A1)	e is sufficient)		Inundation Vi		-		Water Sta	ined Leaves (B9) Patterns (B10)
(DROLOGY etland Hydrology Indi imary Indicators (any on Surface Water (A1) High Water Table (A2	e is sufficient)		Sparsely Vege	etated Cor	-		Water Sta	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3
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