WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough S	ampling Date: 01-Aug-12
Applicant/Owner: Alaska Energy Authority		Sampling	Point: SW12_T41_06
Investigator(s): SLI, KMK	Landform (hills	ide, terrace, hummocks etc.):	Hillside
Local relief (concave, convex, none): flat	Slope: 23.0	% / 13.0 ° Elevation: 810	
Subregion : Interior Alaska Mountains	Lat.: 62.797314911	3Long.:148.01573664	Datum: WGS84
Soil Map Unit Name:		NWI classific	cation: Upland
	of year? Yes (ificantly disturbed? irally problematic?	No (If no, explain in R Are "Normal Circumstances" pi (If needed, explain any answer	resent? Yes 🔍 No 🔿
SUMMARY OF FINDINGS - Attach site map showing	g sampling point	locations, transects, importa	nt features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ○	~	Is the Sampled Area within a Wetland?	Yes \bigcirc No $lacksquare$
Remarks:				

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

		Absolu	te Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum	% Cov		Status	Number of Dominant Species
1.	Picea glauca		5 🗸	FACU	That are OBL, FACW, or FAC: (A)
2.			\sim		Total Number of Dominant Species Across All Strata: 5 (B)
3.			$\frac{1}{2}$		
4.			$\frac{1}{2}$		Percent of dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)
 5.			$\frac{1}{2}$		
5.	Total Cover				Prevalence Index worksheet:
_					Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	2.5 2	0% of Total Cover	:1	OBL Species x 1 =
1.	Betula glandulosa	3	0	FAC	FACW Species <u>0</u> x 2 = <u>0</u>
2.	Vaccinium uliginosum	3	0	FAC	FAC Species <u>110</u> x 3 = <u>330</u>
3.	Vaccinium vitis-idaea		0	FAC	FACU Species <u>24</u> x 4 = <u>96</u>
4.	Ledum groenlandicum	1	0	FAC	UPL Species x 5 =
5.	Empetrum nigrum		0	FAC	Column Totals: 134 (A) 426 (B)
6.	Picea glauca		1	FACU	
7.	Spiraea stevenii	0	.1	FACU	Prevalence Index = B/A = <u>3.179</u>
8.	Loiseleuria procumbens	1	0	FACU	Hydrophytic Vegetation Indicators:
9.		(✓ Dominance Test is > 50%
					Prevalence Index is ≤3.0
	Total Cover	12	1		Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:	60.55	20% of Total Cover	r: 24.22	Remarks or on a separate sheet)
1.	Cornus canadensis		7 🖌	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Lycopodium clavatum	0	.1	FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Anthoxanthum monticola ssp. alpinum		L 🗌	FACU	be present, unless disturbed or problematic.
4.	-	(Plot size (radius, or length x width) 10m
					Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes
					(Where applicable)
					% Bare Ground _20
					Total Cover of Bryophytes 20
					Hydrophytic
	Total Cover	8.1			Vegetation
	50% of Total Cover:	4.05 2	0% of Total Cover	: 1.62	Present? Yes \bullet No \bigcirc
Rem	arks: trace rosaci, chaang, lyccla. abundant lichens.				

		the depth he Matrix	eeded to docu	iment the indicator or cor Red	lox Featu		cators)		
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	 2	Texture	Remarks
0-1			100					Fibric Organics	
1-2			100					Hemic Organics	
2-2.5			100		-			Sapric Organics	
2.5-6		3/4	100 -					Fine Sandy Loam	
6-15	10YR	5/4	70					Coarse Sandy Loam	30% subang-subrnd gravel-cobble
15-18	2.5Y	4/4	100					Coarse Sandy Loam	
,									
¹ Type: C=Conc	entration. D=	Depletion	. RM=Reduc	ced Matrix ² Location	: PL=Pore	e Lining. RO	C=Root Cha	nnel. M=Matrix	
Hydric Soil Ind	dicators:			Indicators for Pre	oblematio	: Hydric S	oils: ³		
Histosol or H				Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe	. ,			Alaska Alpine sv	wales (TA5	5)		Underlying Layer	
Hydrogen S	ulfide (A4)			🗌 Alaska Redox W	Vith 2.5Y F	lue		Other (Explain in Remark	ട)
Thick Dark S	Surface (A12))							
Alaska Gleye	ed (A13)			One indicator of and an appropriate				nary indicator of wetland h esent	iydrology,
Alaska Redo	ox (A14)								
Alaska Gleye	ed Pores (A15	5)		⁴ Give details of co	or change	e in Remari	KS		
Restrictive Layer	(if present):								
Type:								Hydric Soil Present	? Yes 🔾 No 🖲
Depth (inche	es):								
Remarks:									
no hydric soil ind	licators 2 5-6								
	1001013. 2.3 0	in layer ap	pears to be	e mix of ash, charcoal,	and highl	y oxidized	mineral soil	w concretions.	
,	1001013. 2.5 0	in layer ap	pears to be	e mix of ash, charcoal,	, and highl	y oxidized	mineral soil	w concretions.	
		in layer ap	opears to be	e mix of ash, charcoal,	, and highl	y oxidized	mineral soil	w concretions.	
	. 2.3 0	in layer ap	opears to be	e mix of ash, charcoal,	and highl	y oxidized	mineral soil	w concretions.	
		in layer ap	opears to be	e mix of ash, charcoal,	, and highl	y oxidized	mineral soil	w concretions.	
HYDROLOG Wetland Hydro	SY		opears to be	e mix of ash, charcoal,	, and highl	y oxidized	mineral soil		cators (two or more are required)
HYDROLOG	SY blogy Indica	tors:	- 	e mix of ash, charcoal,	, and highl	y oxidized	mineral soil	_Secondary Indi	cators (two or more are required) ned Leaves (B9)
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