WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Ma	tanuska-Susitna Borough	Sampling Date:	24-Jun-12
Applicant/Owner: Alaska Energy Authority		Samplir	ng Point: S	W12_T17_02
Investigator(s): SLI, LMF	Landform (hillside	, terrace, hummocks etc.):	Hillside	
Local relief (concave, convex, none): rolling	Slope: 40.4 %	22.0 ° Elevation: 933	6	
Subregion : Southcentral Alaska Lat.:	62.7936699085	Long.: -148.935639	968 C	Datum: WGS84
Soil Map Unit Name:		NWI classi	fication: Uplane	d
		No O (If no, explain in Are "Normal Circumstances" (If needed, explain any answ	present? Yes	
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point loc	ations, transects, impor	tant features,	etc.

Hydrophytic Vegetation Present?	Yes \bigcirc	No 🖲	la tha Comulad Area	
Hydric Soil Present?	Yes \bigcirc	No 🖲	Is the Sampled Area	Yes \bigcirc No $oldsymbol{igstar}$
Wetland Hydrology Present?	Yes \bigcirc	No 🖲	within a Wetland?	

Remarks: characterizing dense shrubs in aerial. snow recently melted, understory only beginning to emerge. upslope is subalpine heath/diapensia community, downslope is vacvit tundra w graminoid patches.

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

		۸b	solute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum		Cover	Species?	Status	Number of Dominant Species
1.			0			That are OBL, FACW, or FAC: <u>2</u> (A)
2.						Total Number of Dominant Species Across All Strata: 4 (B)
3.			0			
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
 5.		_	0			
5.						Prevalence Index worksheet:
	Total Cov		0			Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0	_ 20% (of Total Cover:	0	OBL Species x 1 =
1.	Alnus viridis ssp. crispa		60	\checkmark	FAC	FACW Species <u>16</u> $x 2 = 32$
2.	Ribes triste		10		FAC	FAC Species x 3 =
3.	Spiraea stevenii		1		FACU	FACU Species <u>19</u> x 4 = <u>76</u>
	Salix arbusculoides		15		FACW	UPL Species x 5 =
5.			0			Column Totals: <u>110</u> (A) <u>333</u> (B)
6.			0			
			0			Prevalence Index = B/A = <u>3.027</u>
			0			Hydrophytic Vegetation Indicators:
			0			Dominance Test is > 50%
			0			Prevalence Index is ≤ 3.0
	Total Cov		86			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:			of Total Cover:	17.2	Remarks or on a separate sheet)
1.	Dryopteris expansa		7	\checkmark	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Rubus chamaemorus		1		FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Cornus canadensis		1		FACU	be present, unless disturbed or problematic.
4.	Calamagrostis canadensis		5	\checkmark	FAC	
5.	Spinulum annotinum		10	\checkmark	FACU	Plot size (radius, or length x width) <u>4m x 8m</u>
6.			0			% Cover of Wetland Bryophytes
			0			% Bare Ground85
			0			Total Cover of Bryophytes 10
			0			
			0			Underschutte
10.	 Total Cov		24			Hydrophytic Vegetation
	50% of Total Cover:	-		of Total Cover:	4.8	Present? Yes No •
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Remarks: ground cover predominantly litter, included in bare ground estimate. snow has only just melted, understory not developed.

Depth	Matrix		nent the indicator or con Red	ox Featu		ators)		
<i>a</i> i ,	(moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3 7.5YF	R 3/2	100					Silty Clay Loam	
3-13 7.5YF	3/3	100					Sandy Clay	
13-18 7.5YF	3/3	60	p				Silty Clay Loam	40% cobbles and coarse gravels, sub ang to
							, ,	
						-		
¹ Type: C=Concentratio	n. D=Depletio	n. RM=Reduc	ed Matrix ² Location	: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Indicators	5:		Indicators for Pro	oblematic	: Hydric So	oils: ³		
Histosol or Histel (A			Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2			Alaska Alpine sv	vales (TA5	5)		Underlying Layer	
Hydrogen Sulfide (A			🗌 Alaska Redox W	/ith 2.5Y H	lue		Other (Explain in Remark	ය)
Thick Dark Surface	(A12)							
Alaska Gleyed (A13)			One indicator of l and an appropriate				nary indicator of wetland h esent	lydrology,
Alaska Redox (A14)								
Alaska Gleyed Pores	(A15)		⁴ Give details of co	for change	e in Remark	S		
Restrictive Layer (if pres	ent):							
Type:							Hydric Soil Present	? Yes 🔾 No 🖲
Depth (inches):								
Remarks:								
no hydric soil indicators								
	dicators:						_Secondary Indi	cators (two or more are required)
HYDROLOGY		nt)						cators (two or more are required) ned Leaves (B9)
HYDROLOGY Wetland Hydrology Ir		nt)	Inundation Vis	sible on A	erial Image	гу (В7)	Water Stai	
HYDROLOGY Wetland Hydrology Ir Primary Indicators (any	one is sufficie	nt)	Inundation Vi		-		Urainage F	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
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