WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Denali Borough Sampling Date: 07-Aug-13								
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW13_T165_05								
Investigator(s): CTS, AMD	Landform (hillside, terrace, hummocks etc.): Hillside								
Local relief (concave, convex, none): flat	Slope: % / 11.6 ° Elevation: 729								
Subregion : Interior Alaska Mountains Lat.:	.: 63.3872781992 Long.: -148.513722061 Datum: NAD83								
Soil Map Unit Name: NWI classification: Upland									
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)									
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.									
Hydrophytic Vegetation Present? Yes \bigcirc No $ullet$									
Hydric Soil Present? Yes 🔿 No 🖲	Is the Sampled Area within a Wetland? Yes O No 🖲								
Wetland Hydrology Present? Yes 🔿 No 🖲	within a Wetland? Yes \bigcirc No \bigcirc								

1	/vetia
Rema	rks:

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

		۸he	olute	Dominant	Indicator	Dominance Test worksheet:		
			Cover Species?		Status	Number of Dominant Species		
1.	Picea glauca		10	\checkmark	FACU	That are OBL, FACW, or FAC: (A)		
2.			0			Total Number of Dominant Species Across All Strata: 4 (B)		
3.			0			Percent of dominant Species		
4.			0			That Are OBL, FACW, or FAC:(A/B)		
5.		_	0			Prevalence Index worksheet:		
Total Cover:						Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	5	20%	of Total Cover:	2	OBL Species $0 \times 1 = 0$		
1.	Alnus viridis		90	\checkmark	FAC	FACW Species x 2 =		
2.	Vaccinium uliginosum	_	35	\checkmark	FAC	FAC Species <u>146</u> x 3 = <u>438</u>		
	Spiraea stevenii		10		FACU	FACU Species <u>53</u> x 4 = <u>212</u>		
4.	Ribes triste		8		FAC	UPL Species x 5 =		
5.	Vaccinium vitis-idaea		4		FAC	Column Totals: 199 (A) 650 (B)		
6.	Picea glauca		2		FACU			
7.	Betula nana		1		FAC	Prevalence Index = B/A = <u>3.266</u>		
8.			0			Hydrophytic Vegetation Indicators:		
			0			Dominance Test is > 50%		
		_	0			Prevalence Index is ≤3.0		
	Total Cover: 150 Morphological Adaptations ¹ (Provide supporting data in							
Her	b Stratum 50% of Total Cover:	75	20%	of Total Cover:	30	Remarks or on a separate sheet)		
1.	Spinulum annotinum	_	30	\checkmark	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Polemonium acutiflorum	_	5		FAC	¹ Indicators of hydric soil and wetland hydrology must		
3.	Calamagrostis canadensis	_	3		FAC	be present, unless disturbed or problematic.		
4.	Sagina decumbens	_			FACU	Plot size (radius, or length x width) <u>10m</u>		
5.		_	0			% Cover of Wetland Bryophytes		
			0			(Where applicable)		
			0			% Bare Ground		
			0			Total Cover of Bryophytes		
			0					
10.			0			Hydrophytic		
	Total Cove		39			Vegetation		
	50% of Total Cover:	19.5	_ 20%	of Total Cover:	7.8	Present? Yes No 🖲		
Rem	arks: stellaria 0.1							

Depth –	•	he depth ne fatrix	eded to docu	nent the indicator or cor Rec	nfirm the abs Iox Featu		ators)	_	
(inches)	Color (mo	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6								Fibric Organics	
6-8	2.5Y	4/2	100					Sandy Loam	
8-9	7.5YR	3/3	100					Sandy Loam	
9-17	2.5Y	5/2	100					Sandy Loam	dense glacial till
	2.01	0/2							
¹ Type: C=Conce	entration. D=	Depletion.	RM=Reduc	ed Matrix ² Location				annel. M=Matrix	
Hydric Soil Ind	dicators:			Indicators for Pr		4	oils:"	_	
Histosol or H	Histel (A1)			Alaska Color Ch		,		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epiped	don (A2)			Alaska Alpine s				Underlying Layer	`
Hydrogen Su	· · /			Alaska Redox V	/ith 2.5Y H	lue		Other (Explain in Remarl	(\$)
	Surface (A12)			³ One indicator of	hydrophyt	ic vegetatic	n, one prin	nary indicator of wetland h	nydrology,
Alaska Gleye	. ,			and an appropriat	e landscap	e position r	nust be pre	esent	, 5,,
Alaska Redo	ox (A14) ed Pores (A15	.)		⁴ Give details of co	olor change	e in Remark	S		
-		')							
Restrictive Layer	(if present):							Undrie Ceil Dresent	? Yes 🔿 No 🖲
Type: Depth (inches	c).							Hydric Soil Present	? Yes 💛 No 🖲
	5).								
Remarks:	di								
no hydric soil ind	dicators								
HYDROLOG	βY								
Wetland Hydro		tors:							
Primary Indicato	ors (any one i	s sufficient	`					Secondary Indi	cators (two or more are required)
Surface Wat	ter (A1)		1						cators (two or more are required) ned Leaves (B9)
	()		1	Inundation V	sible on Ae	erial Image	ry (B7)	Water Stai	
High Water			1	Inundation V Sparsely Vege		-		Water Stai	ned Leaves (B9)
High Water	Table (A2) (A3)		<u>, </u>	Sparsely Vege	etated Con 6 (B15)	cave Surfac		Water Stai	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) If Reduced Iron (C4)
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