WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sa	mpling Date: 04-Aug-13			
Applicant/Owner: Alaska Energy Authority		Sampling F	Point: SW13_T119_03			
Investigator(s): BAB	Landform (hills	Landform (hillside, terrace, hummocks etc.): Hillside				
Local relief (concave, convex, none): bouldery	Slope: 40.4	% / 22.0 ° Elevation: 1025				
Subregion : Interior Alaska Mountains	Lat.: 62.818339699	9 Long.: -147.778413305	5 Datum: WGS84			
Soil Map Unit Name:		NWI classifica	ation: Upland			
	of year? Yes (nificantly disturbed? urally problematic?	No (If no, explain in Re Are "Normal Circumstances" pre (If needed, explain any answers)	esent? Yes 💿 No 🔿			
SUMMARY OF FINDINGS - Attach site map showin	ng sampling point	ocations, transects, importar	nt features, etc.			
Hydrophytic Vegetation Present? Yes No						

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ○	 Is the Sampled Area within a Wetland?	Yes 🔿 No 🖲
Remarks: uppermost alder on slope			

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

		Absolu	te Dominant	Indicator	Dominance Test worksheet:		
Tree	e Stratum	% Cov		Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC: (A)		
2.					Total Number of Dominant		
		_			Species Across All Strata: <u>3</u> (B)		
3.					Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)		
5.		0			Prevalence Index worksheet:		
Total Cover:			_		Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	0% of Total Cover:	0	OBL Species x 1 =		
1.	Alnus viridis ssp. crispa	8	5 🗸	FAC	FACW Species 1 x 2 = 2		
2.	Ribes triste	5		FAC	FAC Species <u>113</u> x 3 = <u>339</u>		
3.	Spiraea stevenii	9		FACU	FACU Species <u>17</u> x 4 = <u>68</u>		
4.					UPL Species 6.1 x 5 = 30.5		
5.					$\begin{array}{c} \hline \\ \hline $		
~		~			Column Totals: <u>137.1</u> (A) <u>439.5</u> (B)		
•••					Prevalence Index = B/A = <u>3.206</u>		
					Hydrophytic Vegetation Indicators:		
					✓ Dominance Test is > 50%		
					$\square Prevalence Index is \leq 3.0$		
10.	Total Cover:	_	_				
Total Cover: 98 Morphological Adaptations ¹ (Provide supporting data in S0% of Total Cover: Herb Stratum 50% of Total Cover: 49 20% of Total Cover: 19.6							
1.	Calamagrostis canadensis	20		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Polemonium pulcherrimum	5		UPL	¹ Indicators of hydric soil and wetland hydrology must		
3.	Chamerion angustifolium	1		FACU	be present, unless disturbed or problematic.		
4.	Stellaria longifolia			FAC	Dist size (radius, er langth y width)		
5.	Dryopteris expansa	. 0	\checkmark	FACU	Plot size (radius, or length x width) <u>10m</u>		
6.	Luzula parviflora	2		FAC	% Cover of Wetland Bryophytes (Where applicable)		
7.	Petasites frigidus	1		FACW	% Bare Ground40		
8.	Saxifraga punctata ssp. charlottae	1		UPL	Total Cover of Bryophytes 3		
9.	Aconitum delphinifolium	0.	1	FAC			
10.	Boykinia richardsonii	0.	1	UPL	Hydrophytic		
	Total Cover:	39.2	2		Vegetation		
	50% of Total Cover:	9.6 20	0% of Total Cover:	7.84	Present? Yes \bullet No \bigcirc		
Rem	arks:						

		the depth ne Matrix	eded to docu	ment the indicator or con Rec	nfirm the ab		cators)		
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-3						<u> </u>		Fibric Organics	
3-6	10YR	3/2	100					Silt Loam	with organic content
6-8	10YR	4/2	100		-			Sandy Loam	
8-20	10YR	3/2	100					Sandy Loam	
								-	
¹ Type: C=Conc	entration D=	Denletion	RM=Reduc	ed Matrix ² Location	PI =Por	e Linina RC	=Root Cha	nnel M=Matrix	
		Depletion.	Ri-Reduc			-		innei. m=mautx	
Hydric Soil In				Indicators for Pr		4			
Histosol or I	. ,				• •	,		Alaska Gleyed Without H Underlying Layer	ue 5Y or Redder
Hydrogen S	• •			Alaska Alpine swales (TA5) Underlying Layer Alaska Redox With 2.5Y Hue Other (Explain in					ട)
	Surface (A12)								
Alaska Gley	```			³ One indicator of	hydrophy	tic vegetatio	on, one prin	nary indicator of wetland h	ydrology,
Alaska Redo				and an appropriat	e landscaj	pe position i	must be pre	esent	
Alaska Gley	ed Pores (A15	5)		⁴ Give details of co	olor chang	e in Remark	s		
Restrictive Layer	(if present):								
Type:								Hydric Soil Present	? Yes 🔾 No 🖲
Depth (inche	es):								
Remarks:									
no hydric soil inc									
all layers have a	ngular to suba	angular gra	avel and cob	bles					
HYDROLOG	θY								
Wetland Hydro	ology Indica	tors:							cators (two or more are required)
Primary Indicators (any one is sufficient) Water Stained Leaves (B9)									
				on Visible on Aerial Imagery (B7) Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots					
High Water						ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)
	□ Saturation (A3) □ Marl Deposits (B15)					Presence of Reduced Iron (C4) Salt Deposits (C5)			
	Water Marks (B1) Hydrogen Sulfide Odor (C1)								
Drift Depos	Deposits (B2)								
	. ,							()	
Iron Depos	or Crust (B4)							_	graphic Relief (D4)
	il Cracks (B6)								l Test (D5)
Field Observat	. ,								
Surface Water		Yes C	No 🖲	Depth (inche	s).				
Water Table Pr) No ()	Depth (inche			Wetla	nd Hydrology Presen	t? Yes 🔿 No 🖲
Saturation Pres		-	No 🔍					na riyarology ricoch	
(includes capilla	ary fringe)		NU ©	Depth (inche	s):				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									
no wetland hydrology indicators observed									