WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough	Sampling Date: 04-Jul-13					
Applicant/Owner: Alaska Energy Authority		Samplin	g Point: SW13_T124_02					
Investigator(s): JER	Landform (hillside, terrace, hummocks etc.): Hillside							
Local relief (concave, convex, none): convex	Slope: 32.4	% / 18.0 ° Elevation: 831						
Subregion : Southcentral Alaska Lat.:	62.77572906	Long.: -149.1003263	B Datum: WGS84					
Soil Map Unit Name:		NWI classif	ication: Upland					
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No C (If no, explain in Remarks.) Are Vegetation Are "Normal Circumstances" present? Yes No C Are "Normal Circumstances" present? Yes No C Are "Normal Circumstances" present? Yes No C Are "Normal Circumstances" present? Yes No C								
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.								

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ●	No () No () No ()	Is the Sampled Area within a Wetland?	Yes \bigcirc No $ullet$
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Remarks: convex knob, adjacent snowbed stream headwater, dropoff downslope. water in pit is downslope flow probably from melting seasonal frost upslope

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

A1			Absolute Dominant Ir		Dominance Test worksheet:			
		% Cove		Indicator Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: (A)			
2.					Total Number of Dominant			
2. 3.					Species Across All Strata:3 (B)			
					Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: (A/B)			
5.		0			Prevalence Index worksheet:			
Total Cover:		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	65		FAC	FACW Species <u>12</u> x 2 = <u>24</u>			
2.	Spiraea stevenii	15	;	FACU	FAC Species <u>107</u> x 3 = <u>321</u>			
3.	Salix pulchra	10		FACW	FACU Species 28.1 x 4 = 112.4			
4.	Ribes triste	10)	FAC	UPL Species 0 x 5 = 0			
5.					Column Totals: 147.1 (A) 457.4 (B)			
6			_		$(A) = \frac{1}{1} (A) = \frac{1}{1} (A) (B)$			
					Prevalence Index = B/A =			
					Hydrophytic Vegetation Indicators:			
					✓ Dominance Test is > 50%			
		0			Prevalence Index is ≤3.0			
	Total Cover:							
Total Cover: 100 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)								
1.	Cornus suecica	20		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Dryopteris expansa	F		FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Rubus arcticus ssp. stellatus	2		FAC	be present, unless disturbed or problematic.			
4.	Trientalis europaea			FACU				
5.	Spinulum annotinum	2		FACU	Plot size (radius, or length x width) <u>10m</u>			
6.	Calamagrostis canadensis	0	\checkmark	FAC	% Cover of Wetland Bryophytes (Where applicable)			
7.	Bistorta plumosa	0	ι 🗌	FACU	% Bare Ground 1			
8.	Carex spectabilis	2		FACW	Total Cover of Bryophytes			
9.	Sedum rosea	1		FAC	<u>15</u>			
10.	Polemonium acutiflorum	1		FAC	Hydrophytic			
	Total Cover:	47.1			Vegetation			
	50% of Total Cover: 23.55 20% of Total Cover: 9.42 Present? Yes S No							
Remarks: collected carspe and drydil, confirmed id. 45% leaf litterr								

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features									
Depth		%	Color (moist)%Type ¹			Loc ²	Texture	Remarks		
0-2 100							Fibric Organics			
2-3			100					Fibric Organics		
3-11	7.5YR	3/1	80					Fine Loamy Silt	with high organic content and gravel inclusi	
11-17	10YR	3/2	100					Loamy Sand	gravel	
						-				
	p									
¹ Type: C=Cond	centration. D	=Depletior	. RM=Redu	ced Matrix ² Location	: PL=Poi	re Lining. R	C=Root Cha	annel. M=Matrix		
Hydric Soil In	dicators:			Indicators for Pro	oblemati	c Hydric S	oils: ³			
Histosol or				Alaska Color Ch		4		Alaska Gleyed Without H	lue 5Y or Redder	
Histic Epipe	. ,			Alaska Alpine swales (TA5)			Underlying Layer			
Hydrogen S	. ,			Alaska Redox With 2.5Y Hue Other (Explain in Remarks)						
	Surface (A12	2)								
Alaska Gley	•	,						nary indicator of wetland I	nydrology,	
Alaska Rede				and an appropriat	e landsca	pe position	must be pr	esent		
🗌 Alaska Gley	ed Pores (A1	.5)		⁴ Give details of co	olor chang	je in Remarl	ks			
Restrictive Layer	r (if present):									
Type: frost								Hydric Soil Present	:? Yes 🔿	No 🖲
Depth (inche	es): 14									
no hydric soil inc	dicators									
HYDROLOG	GY									
Wetland Hydro		ators:						Secondary Ind	icators (two or mo	re are required)
Primary Indicate	ors (any one	is sufficier	t)					Water Sta	ined Leaves (B9)	
Surface Wa	ater (A1)			Inundation Vi	sible on A	Aerial Image	ery (B7)	Drainage I	Patterns (B10)	
🖌 High Water				Sparsely Vege	etated Co	ncave Surfa	ce (B8)	Oxidized R	Rhizospheres along	Living Roots (C3)
Saturation				Marl Deposits	```				of Reduced Iron (C	(4)
Water Mar				Hydrogen Sul	fide Odor	(C1)		Salt Depos		
	ediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1)							D1)		
	Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2)									
	Algal Mat or Crust (B4) Shallow Aquitard (D3)									
·	eposits (B5) Microtopographic Relief (D4))		
	Surface Soil Cracks (B6)									
Field Observat		Va- (No 🖲		-).					
Surface Water				Depth (inche			Watta	nd Hydrology Preser	nt? Yes 🖲	
Water Table Pr				Depth (inche	s): 12		wetta	na nyarology Preser	n: 185 S	
Saturation Pres (includes capill		Yes	No O	Depth (inche	s): 7					
Describe Record	ed Data (stre	eam gauge	, monitor w	ell, aerial photos, prev	vious insp	ection) if av	ailable:			
Remarks:										

although this is wet I think the ground is still thawing and this is realy an upland.