WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Aug-12								
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW12_T53_04								
nvestigator(s): CTS, EKJ Landform (hillside, terrace, hummocks etc.): Swale												
Local relief (concave, convex, none): convex		Slope:	%/ 7.0									
Subregion : Southcentral Alaska	lat e	62.808498233		Long.: -149.057165722 Datum: NAD83								
		12.000490230										
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 No												
Hydric Soil Present? Yes O No 🖲												
Wetland Hydrology Present? Yes O No 🖲	etland? Yes 🔾 No 🖲											
Remarks: Alder choked swale w rivulet												
VEGETATION - Use scientific names of plants. Li	st all spece Absolute % Cover	Cies in the Dominant Species?	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species								
1.	0		Julus	That are OBL, FACW, or FAC: <u>2</u> (A)								
2	0			Total Number of Dominant								
2	0			Species Across All Strata:3 (B)								
	0			Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)								
4. 5.	0											
Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:								
Sapling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0									
	-											
1. Alnus viridis	90		FAC									
2. Ribes triste			FAC	FAC Species <u>142.1</u> x 3 = <u>426.3</u> FACU Species <u>37.1</u> x 4 = <u>148.4</u>								
3.				UPL Species $0 \times 5 = 0$								
4.												
5.				Column Totals: <u>180.2</u> (A) <u>576.7</u> (B)								
6.	0			Prevalence Index = B/A = <u>3.200</u>								
7	0											
0	0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%								
9 10	0			Prevalence Index is ≤ 3.0								
Total Cover Herb Stratum50% of Total Cover:		of Total Cover	: 18.4	 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 								
1. Calamagrostis canadensis	10		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)								
2. Heracleum maximum	8		FACU	¹ Indicators of hydric soil and wetland hydrology must								
3. Dryopteris expansa	20	\checkmark	FACU	be present, unless disturbed or problematic.								
4. Thalictrum sparsiflorum	5		FACU									
5. Athyrium cyclosorum	40	\checkmark	FAC	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes 0								
6. Aconitum delphiniifolium	0.1		FAC	% Cover of Wetland Bryophytes (Where applicable)								
7. Sanguisorba canadensis	1		FACW	% Bare Ground _5								
8. Trientalis europaea	0.1		FACU	Total Cover of Bryophytes								
9. Mertensia paniculata	1		FACU									
10. Streptopus amplexifolius	3		FACU	Hydrophytic								
Total Cover				Vegetation Present? Yes • No ·								
50% of Total Cover:	<u>44.1</u> 20% (of Total Cover:	17.64	Present? Yes • No U								
Remarks: Aneric, Vioepi, Gereri = 0.1 cover												

Matrix				cument the indicator or confirm the absence of indicators) Redox Features							
Depth (inches)	Color (mo	oist)	%	Color (moist	t)	%	Type ¹	Loc 2	Texture	Remarks	
0-8		///////////////////////////////////////	60		<u>.,</u>				Fibric Organics	40% roots and wood	
8-11	 7.5YR	2.5/1	80						Loam	20% roots	
									Loamy Sand		
	10YR	3/2	90							10% angular gravel	
									-		
								,	p		
¹ Type: C=Cond	centration. D	=Depletion	. RM=Redu	ced Matrix ² L	Location: F	PL=Pore	e Lining. R(C=Root Cha	nnel. M=Matrix		
Hydric Soil In	dicators:			Indicators	for Probl	lematic	Hvdric S	oils ³			
Histosol or					Color Chang		4		Alaska Gleyed Without H	ue 5V or Redder	
Histosof of Histosof Of	. ,			_	Alpine swal				Underlying Layer		
Hydrogen S				_	Redox With	-	-		Other (Explain in Remark	(S)	
	Surface (A12	4									
Alaska Gley	•	,		³ One indic	ator of hyc	drophyti	ic vegetation	on, one prim	nary indicator of wetland h	ıydrology,	
Alaska Rede						•	•	must be pre	esent		
🗌 Alaska Gley	red Pores (A1	5)		⁴ Give deta	ils of color	change	in Remarl	ks			
Restrictive Layer	r (if present):										
Type:	(Hydric Soil Present	? Yes 🔿 No 🖲	
Depth (inche	es):									• • • • • • •	
Remarks:								I			
no hydric soil indicators - A2 not applicable as no indication of soil saturation.											
HYDROLOG											
Wetland Hydro			-							cators (two or more are required)	
Primary Indicate		is sufficien	<u>t)</u>	,						ned Leaves (B9)	
Surface Wa					lation Visibl		-			Patterns (B10)	
Saturation	r Table (A2)				ely Vegetat Deposits (B		cave Suna	ce (88)		hizospheres along Living Roots (C3) of Reduced Iron (C4)	
Water Marl	. ,				Jeposits (B igen Sulfide	,	(C1)		Salt Depos	. ,	
	Deposits (B2)				eason Wate					Stressed Plants (D1)	
	,				(Explain in		• •		_	ic Position (D2)	
·	or Crust (B4)				(Lxpiairi iii	I NCITICI	KS)			quitard (D3)	
Iron Depos									Microtopographic Relief (D4)		
· _ ·	il Cracks (B6))								al Test (D5)	
Field Observat	. ,										
Surface Water		Yes 🤇) No 🖲	Depth	n (inches):						
Water Table Pr	esent?	Yes 🤇) No 🖲	Denth	(inches):			Wetlar	nd Hydrology Presen	it? Yes 🔿 No 🖲	
Saturation Pres (includes capill	sent?	_	No 🖲		n (inches):				·····		
Describe Record		am gauge	, monitor w	ell, aerial photo	os, previou	inspe	ction) if av	ailable:			
Remarks:											
no wetland hydrology indicators											