WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling	Date: 07-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T187_01
Investigator(s): JGK	Landform (hill:	side, terrace, hummocks etc.): Lowland	
Local relief (concave, convex, none): hummocky	Slope: 0.0	% / 0.0 ° Elevation: 641	
Subregion : Interior Alaska Mountains	at.: 62.841403365	Long.:148.171902418	Datum: WGS84
Soil Map Unit Name:		NWI classification:	PSS4B
	year? Yes cantly disturbed?	 No (If no, explain in Remarks.) Are "Normal Circumstances" present? (If needed, explain any answers in Rem 	Yes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map showing	sampling point	locations, transects, important feature	ures, etc.
Hydrophytic Vegetation Present? Yes $ullet$ No $igodot$	la la		
	IS	the Sampled Area	

within a Wetland?

Yes 💿 No 🔾

Wetland Hydrology Present? Remarks: DUNN SITE 1438 SOIL 1439

Hydric Soil Present?

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

Yes 💿 No 🔿

Yes 💿 No 🔿

		۸hc	olute	Dominant	Indicator	Dominance Test worksheet:		
Tre	e Stratum		Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)		
1.	Picea mariana		5	\checkmark	FACW			
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	r: _	5			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	2.5	20%	of Total Cover:	1	OBL Species x 1 =		
1.	Picea mariana		40	\checkmark	FACW	FACW Species <u>100</u> x 2 = <u>200</u>		
2.	Ledum decumbens	-	25	\checkmark	FACW	FAC Species x 3 =		
3.	Vaccinium uliginosum		15		FAC	FACU Species <u>0</u> x 4 = <u>0</u>		
4.	Vaccinium vitis-idaea		5		FAC	UPL Species x 5 =		
5.	Betula nana	-	5		FAC	Column Totals: <u>128</u> (A) <u>278</u> (B)		
6.			0					
			0			Prevalence Index = B/A = <u>2.172</u>		
			0			Hydrophytic Vegetation Indicators:		
			0			✓ Dominance Test is > 50%		
		_	0			✓ Prevalence Index is \leq 3.0		
Total Cover:				90 20% of Total Cover: 18 Morphological Adaptations ¹ (Provide supporti Remarks or on a separate sheet)				
		43	_			Problematic Hydrophytic Vegetation ¹ (Explain)		
	Rubus chamaemorus		30		FACW			
	Eriophorum scheuchzeri	-	2		OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
•	Carex Ioliacea	_			OBL			
4.			0			Plot size (radius, or length x width)		
			0			% Cover of Wetland Bryophytes		
			0			(Where applicable)		
						% Bare Ground _2		
			0			Total Cover of Bryophytes _55		
		-	0					
10.		-	0			Hydrophytic		
		-	33			Vegetation Present? Yes • No O		
	50% of Total Cover:	16.5	20%	of Total Cover:	6.6			
Remarks: Lichen 20								

SOIL

Profile Description	Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features						ators)		
(inches)	Color (mois	it)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12								Fibric Organics	
	· ·								
1				· · · · · · · · · · · · · · · · · · ·					
		Depletion.	RM=Reduc	ed Matrix ² Location				nnel. M=Matrix	
Hydric Soil In	dicators:			Indicators for Pro		4	ils:		
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA4	4)		Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epipe				Alaska Alpine s	-	-		Underlying Layer	
Hydrogen S	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue		Other (Explain in Remark	s)
Thick Dark	Surface (A12)			3 One indicator of	budue - b	10 100 -t-t'		non indicator - formula and b	v dvolo ov
Alaska Gley	ed (A13)			One indicator of and an appropriat				nary indicator of wetland h esent	yui ology,
Alaska Red	ox (A14)								
Alaska Gley	ed Pores (A15)			⁴ Give details of co	olor change	e in Remark	5		
Restrictive Laye	r (if present):								
Type: Ice								Hydric Soil Present	? Yes $ullet$ No $igloo$
Depth (inch	es): 12 in								
Remarks:									
HYDROLO	37								
Wetland Hydr		ors:						Secondary Indi	cators (two or more are required)
Primary Indicat	51								ned Leaves (B9)
Surface Wa		Sumelent)		Inundation Vi	iciblo on A	orial Imagor	v (P7)		Patterns (B10)
High Wate	. ,			Sparsely Vege		-			hizospheres along Living Roots (C3)
Saturation				Marl Deposits			е (во)	_	f Reduced Iron (C4)
Water Mar	. ,			Hydrogen Sul	• •	(C1)		Salt Depos	
	Deposits (B2)					. ,			Stressed Plants (D1)
				Dry-Season V					ic Position (D2)
				Other (Explai	n in Rema	rks)			
	or Crust (B4)								uitard (D3)
Iron Depos	. ,							_	raphic Relief (D4)
	il Cracks (B6)							✓ FAC-neutra	il Test (DS)
Field Observa			No 🖲	Dauth (in sha	-).				
Surface Water				Depth (inche					
Water Table Pr		Yes 🛡	No \bigcirc	Depth (inche	s): 9		Wetlai	nd Hydrology Presen	t? Yes 🖲 No 🔾
Saturation Pres (includes capill		Yes 🖲	No \bigcirc	Depth (inche	s): 1				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									
Small ponded a	reas within plot	1-3 in dee	ep.						
Pit water									
pH 4.5 EC 40									