WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Boroug	gh Sampling Da	te: 09-Jul-13
Applicant/Owner: Alaska Energy Authority		Sa	ampling Point:	SW13_T107_02
Investigator(s): SLI, SCB	Landform (hills	side, terrace, hummocks etc	c.): Lowland	
Local relief (concave, convex, none): flat	Slope: 0.0	% / 0.0 ° Elevation:	760	
Subregion : Interior Alaska Mountains	Lat.: 62.861074328	Long.: -148.10	0682261	Datum: WGS84
Soil Map Unit Name:		NWI d	lassification: PE	M1E
	of year? Yes ficantly disturbed? rally problematic?	 No (If no, expl Are "Normal Circumstar (If needed, explain any 	nees present:	Yes No KS.)
SUMMARY OF FINDINGS - Attach site map showing	g sampling point	locations, transects, in	nportant feature	es, etc.
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○		the Sampled Area thin a Wetland?	Yes 🖲 No 🔾	
Wetland Hydrology Present? Yes (•) No (-)				

Remarks: photos 1485-88, time 1000. hgwsl. seasonal frost layer at 12in, easily broken through. floating sphagnum (angustifolium) mat.

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

Wetland Hydrology Present? Yes

			Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Tree Stratum						Number of Dominant Species	
1.			0			That are OBL, FACW, or FAC:3_ (A)	
2.			0			Total Number of Dominant Species Across All Strata: 3 (B)	
3.							
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)	
5.			0				
0.		Total Cover:				Prevalence Index worksheet:	
-				of Total Cover	0	Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum		0 20/6		0	OBL Species x 1 =43	
1.	Vaccinium oxycoccos		3	\checkmark	OBL	FACW Species <u>10</u> x 2 = <u>20</u>	
2.	Vaccinium uliginosum		0.1		FAC	FAC Species <u>0.1</u> x 3 = <u>0.300</u>	
3.			0			FACU Species <u>0</u> x 4 = <u>0</u>	
4.			0			UPL Species x 5 =	
5.			<u> </u>			Column Totals: <u>53.1</u> (A) <u>63.30</u> (B)	
6.			0				
						Prevalence Index = B/A = <u>1.192</u>	
						Hydrophytic Vegetation Indicators:	
						✓ Dominance Test is > 50%	
			0			✓ Prevalence Index is \leq 3.0	
		Total Cover:	3.1			Morphological Adaptations ¹ (Provide supporting data in	
Herb Stratum 50% of Total Cover: 1.55		<u>1.55</u> 20%	5 20% of Total Cover: 0.62		Remarks or on a separate sheet)		
1.	Carex aquatilis		40	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Eriophorum russeolum		10	\checkmark	FACW	¹ Indicators of hydric soil and wetland hydrology must	
3.			0			be present, unless disturbed or problematic.	
						Plot size (radius, or length x width) 10m	
						Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes	
						(Where applicable)	
						% Bare Ground	
						Total Cover of Bryophytes 80	
			0			Hydrophytic	
		Total Cover:	/er: 50			Vegetation	
		50% of Total Cover:	25 20% of Total Cover: 10			Present? Yes No	
Rem	arks: bare ground = water lots of sphagnum						

Profile Descript	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features				ators)				
Depth (inches)						Loc 2	Texture	Remarks	
	Color (mois	<u>t) %</u> _ 100	Color (moist)	%	_Type ¹	Loc	Fibric Organics	Kemarks	
0-16									
	· ·								
	. <u> </u>								
¹ Type: C=Co	ncentration. D=D	epletion. RM=Reduc	ed Matrix ² Location	: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:		Indicators for Pro	oblemati	c Hydric So	oils: ³			
Histosol o	r Histel (A1)		Alaska Color Ch	ange (TA	4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epip	pedon (A2)		Alaska Alpine sv	wales (TA	5)		Underlying Layer		
	Sulfide (A4)		🗌 Alaska Redox W	/ith 2.5Y H	lue		Other (Explain in Remark	s)	
	k Surface (A12)								
	eyed (A13)						nary indicator of wetland h	ydrology,	
Alaska Re			and an appropriat	e landscap	be position r	nust be pre	esent		
	eyed Pores (A15)		⁴ Give details of co	lor chang	e in Remark	S			
Restrictive Lay									
							Undrie Ceil Drocont	? Yes 🖲 No 🔿	
Type: froz							Hydric Soil Present	r res 🕙 No 🖯	
Depth (inc	les). 12								
Remarks:									
fibric organics	to depth. sphagn	um. floating bog (bo	ounces). Seasonal fros	st layer at	12in bgs ea	sily broken	through w shovel.		
HYDROLO	GY								
	rology Indicato	ors:					Secondary Indi	cators (two or more are required)	
-	ators (any one is							ned Leaves (B9)	
Surface V			Inundation Vi	sible on A	erial Image	rv (B7)		atterns (B10)	
High Wat	. ,							hizospheres along Living Roots (C3)	
	 ✓ High Water Table (A2) ✓ Saturation (A3) ✓ Marl Deposits (B15) 					Presence of Reduced Iron (C4)			
	Water Marks (B1) Hydrogen Sulfide Odor (C1)						Salt Depos		
	Sediment Deposits (B2) Dry-Season Water Table (C2)							Stressed Plants (D1)	
	Drift Deposits (B3) Other (Explain in Remarks)							ic Position (D2)	
· _ ·	Algal Mat or Crust (B4) Shallow Aquitard (D3)								
□ Iron Deposits (B5)						Microtopographic Relief (D4)			
	oil Cracks (B6)						FAC-neutra		
Field Observ	. ,								
Surface Wate		Yes No	Depth (inche	s)· 2					
		Yes No Ves				W	ad Uvdualanır Dira		
Water Table I			Depth (inche	s): 0		wetlar	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Pro (includes cap		Yes No O	Depth (inche	s): 0					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									
	d natches of one	n water Seasonal f	ost laver at 12in bos	easily bro	ken through	w shovel	Given its persistence until	July, believe this qualifies as a	
			Surface for 14 consecu					sary believe this qualities as a	
	-			-	-				