WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Jul-13							
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T114_07							
Investig	gator(s): WAD. BAB	e, hummocks etc.): Terrace										
Local re	elief (concave, convex, none): flat		Slope:	%/ 4.2	• Elevation: 503							
	ion : Interior Alaska Mountains	l at ·	62.782891034									
-		10										
	p Unit Name:		? Yes		NWI classification: Upland							
Are V Are V	egetation , Soil , or Hydrology n	ignificantly aturally pr	v disturbed? oblematic?	Are "N (If nee	 (If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc. 							
Hydrophytic Vegetation Present? Yes No Is the Sampled Area												
	Hydric Soil Present? Yes ○ No ●				\sim							
	Wetland Hydrology Present? Yes \bigcirc No \bigcirc		W	thin a W	/etland? Yes \bigcirc No \bigcirc							
	rks: riverine white spruce	st all spe	cies in the	plot. Indicator	Dominance Test worksheet:							
Tree	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)							
1.	Picea glauca	15	\checkmark	FACU	That are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant							
2.	Picea mariana	10	\checkmark	FACW	Species Across All Strata: 4 (B)							
3.	Betula neoalaskana	5		FACU	Percent of dominant Species							
4.		0			That Are OBL, FACW, or FAC:(A/B)							
5.		0			Prevalence Index worksheet:							
	Total Cover:	30			Total % Cover of: Multiply by:							
Sap	ling/Shrub Stratum 50% of Total Cover:	<u>15</u> 20%	of Total Cover:	6	OBL Species $0 \times 1 = 0$							
1.	Alnus viridis	0.1		FAC	FACW Species 32.1 x 2 = 64.2							
	Ribes triste	0.1		FAC	FAC Species <u>12.5</u> x 3 = <u>37.5</u>							
	Vaccinium uliginosum	0.1		FAC	FACU Species 24.1 x 4 = 96.40							
	Rhododendron groenlandicum	0.1		FAC	UPL Species $0 \times 5 = 0$							
	Linnaea borealis	0.1		FACU								
	Vaccinium vitis-idaea	0.1		FAC	Column Totals: <u>68.7</u> (A) <u>198.1</u> (B)							
7.		0			Prevalence Index = B/A = 2.884							
8.		0										
9.		0			Dominance Test is > 50%							
		0			✓ Prevalence Index is ≤ 3.0							
	Total Cover: 50% of Total Cover:	010	of Total Cover	0.12	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)							
1.	Equisetum pratense	20	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)							
	Equisetum arvense	10	\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must							
3.	Mertensia paniculata	4		FACU	be present, unless disturbed or problematic.							
4.	Petasites frigidus	2		FACW	Plot size (radius, or length x width) 5x10m							
5.	Calamagrostis canadensis	2		FAC	Plot size (radius, or length x width) <u>5x10m</u> % Cover of Wetland Bryophytes							
6.	Rubus chamaemorus	0.1		FACW	(Where applicable)							
7.		0			% Bare Ground							
		0			Total Cover of Bryophytes							
		0										
		0			Hydrophytic							
	Total Cover:				Vegetation							
	50% of Total Cover: <u>19</u>	<u>.05</u> 20%	of Total Cover:	7.62	Present? Yes No							
Rem	arks: shrub cover truncated due to helo arrival.											

Profile Description	-	ne depth need I atrix	ded to docun	ument the indicator or confirm the absence of indicators) Redox Features							
(inches)	Color (mois	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-1	10YR	3/2	100								
1-8			100					Fibric Organics			
					-						
¹ Type: C=Con	icentration. D=I	Depletion. F	RM=Reduce	ed Matrix ² Location	: PL=Pore	e Lining. RC	 =Root Cha	nnel. M=Matrix			
Hydric Soil Ir	dicators:			Indicators for Pro	oblematic	Hvdric So	oils: ³				
	Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without Hu	ie 5Y or Redder		
Histic Epipe	. ,			Alaska Alpine s		-		Underlying Layer			
	Sulfide (A4)			Alaska Redox V	-	-		Other (Explain in Remarks)			
	Surface (A12)										
Alaska Gley								nary indicator of wetland h	ydrology,		
Alaska Red				and an appropriat	e landscap	e position r	nust be pre	esent			
_	. ,)		⁴ Give details of co	lor change	e in Remark	s				
Alaska Gleyed Pores (A15) Give details of color change in Remarks Restrictive Layer (if present): Image: Color change in Remarks											
Type: seas								Hydric Soil Present	? Yes 🔿 No 🖲		
Depth (inch											
Remarks: enough organics for histic epipedon but not saturated.											
HYDROLOGY											
Wetland Hydr		ore						Socondary Indi	ators (two or more are required)		
-	tors (any one is								ned Leaves (B9)		
Surface W		Sumelency		Inundation V	sible on A	arial Image	rv (B7)		atterns (B10)		
	er Table (A2)					-			nizospheres along Living Roots (C3)		
Saturation (A3)				Sparsely Vegetated Concave Surface (B8)				Presence of Reduced Iron (C4)			
Water Mar	. ,	Hydrogen Sul	· ·	(C1)		Salt Deposi	()				
Sediment Deposits (B2)				Dry-Season V				Stunted or Stressed Plants (D1)			
Drift Depo	sits (B3)			Other (Explai				Geomorphic Position (D2)			
Algal Mat	Algal Mat or Crust (B4)							Shallow Aquitard (D3)			
☐ Iron Deposits (B5)								_	raphic Relief (D4)		
Surface So	oil Cracks (B6)							FAC-neutra			
Field Observa	tions:										
Surface Water	Present?	$_{\sf Yes}$ \bigcirc	No 🖲	Depth (inche	s):						
Water Table P	resent?	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inche			Wetla	nd Hydrology Presen	t? Yes 🔿 No 🖲		
Saturation Pre		Yes \bigcirc	No 🖲	Depth (inche							
(includes capil						ation) if -	lable -				
Describe Record	ued Data (strea	m gauge, n	nonitor wel	l, aerial photos, prev	ious inspe	ction) if ava	anadie:				
Remarks:											
no primary hyd	rology indicator	s observed									
- printing right											