WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Proje	ct		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 30-Jul-12	
Applica	nt/Owner: Alaska Energy Authority				-	Sampling Point: SW12_T05_02	
	gator(s): CTS, EKJ			Landform (hills	side. terrac	e, hummocks etc.): Footslope	
-	elief (concave, convex, none): hummocky	,		Slope:	%/ 4.3	•	
	ion : Interior Alaska Mountains		l at ·	62.778338040	_		—
-			Lal	62.778338040	0		
	p Unit Name:	•			• No ()	NWI classification: PSS1B	
Are V Are V	natic/hydrologic conditions on the site typical egetation , Soil , or Hydrolog egetation , Soil , or Hydrolog	y 🗌 si y 🗌 n	ignificant aturally p	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.	
			ing ou				
				ls	the Sam	pled Area	
	Hydric Soil Present? Yes 🖲				thin a W	-	
	Wetland Hydrology Present? Yes • Irks: Lower low slope to river	No 🔿					
VEGE	TATION - Use scientific names of p	lants. Lis	it all sp	ecies in the I	olot.		
			Absolute	e Dominant	Indicator	Dominance Test worksheet:	
	e Stratum	-	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 7 (A)	
	Picea mariana		10	_ 🖌	FACW	Total Number of Dominant	
2.			0	- 📙		Species Across All Strata:7(B)	
3.			0	- 📙		Percent of dominant Species	
4.			0	- 📙		That Are OBL, FACW, or FAC: (A/B)	
5.			0			Prevalence Index worksheet:	
		tal Cover:				Total % Cover of: Multiply by:	
Sap	ling/Shrub Stratum 50% of Total Co	over:	5 205	% of Total Cover:	2	OBL Species x 1 =	
1.	Betula nana		10		FAC	FACW Species <u>73</u> x 2 = <u>146</u>	
2.	Vaccinium uliginosum		15		FAC	FAC Species <u>30.1</u> x 3 = <u>90.30</u>	
3.	Vaccinium vitis-idaea		5		FAC	FACU Species $0 \times 4 = 0$	
4.	Rhododendron tomentosum		15	_	FACW	UPL Species $0 \times 5 = 0$	
5.	Salix pulchra		2		FACW	Column Totals: <u>103.1</u> (A) <u>236.3</u> (B)	,
6.			0	- Ц		Prevalence Index = B/A = 2.292	
7.			0	- 📙			
8.			0	- 📙		Hydrophytic Vegetation Indicators:	
			0	- 📙		✓ Dominance Test is > 50%	
10.			0			✓ Prevalence Index is ≤3.0	
Her		tal Cover: Cover: <u>2</u>	47 3.520		9.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
1.	Petasites frigidus		20	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Rubus chamaemorus		10	\checkmark	FACW	¹ Indicators of hydric soil and wetland hydrology must	
3.	Arctagrostis latifolia		1		FACW	be present, unless disturbed or problematic.	
4.	Eriophorum vaginatum		15		FACW	Plot size (radius, or length x width) <u>10m</u>	
5.	Carex bigelowii		0.1		FAC	% Cover of Wetland Bryophytes 90	
6.			0			(Where applicable)	
7.			0			% Bare Ground	
8.			0			Total Cover of Bryophytes90	
9.			0				
10.			0			Hydrophytic	
		tal Cover:	46.1		0.22	Vegetation Present? Yes • No ·	
	50% of 10tal C	over: <u>23</u>	.05 205	% of Total Cover:	9.22		
Rem	arks: Lots of Sphagnum!						

Profile Description		the depth r Matrix	needed to do	cument the inc		firm the abs Iox Featu		cators)		
Depth (inches)	Color (moist)		%	Color (m	Color (moist)		Type ¹	Loc 2	Texture	Remarks
0-11									Fibric Organics	
11-12									Hemic Organics	
12-15				2	-	-			Sapric Organics	
15-17	10YR	2/2	90	10YR	3/2	10	С	PL	Silt Loam	Organic concentration, ~20% roots
¹ Type: C=Con	centration. D=	=Depletior	n. RM=Red	uced Matrix	² Location	: PL=Pore	e Lining. RO	C=Root Cha	annel. M=Matrix	
Hydric Soil Ir	dicators:			Indicat	ors for Pr	oblematio	: Hydric S	oils: ³		
 Thick Dark Alaska Gleg Alaska Red Alaska Gleg Alaska Gleg Restrictive Laye 	edon (A2) Sulfide (A4) Surface (A12) ved (A13) ox (A14) ved Pores (A1) r (if present): e layer (froze es): 17	5) n)	nmocks	Alasi Alasi Alasi Alasi Alasi Alasi		wales (TA5 /ith 2.5Y F hydrophyt e landscap	ic vegetation be position	must be pr	Alaska Gleyed Without Underlying Layer Other (Explain in Rem nary indicator of wetland esent Hydric Soil Prese	arks) d hydrology,
Saturation	ology Indica cors (any one ater (A1) r Table (A2) (A3)		nt)	☐ Sp ☐ Ma ☐ Hy	undation Vi arsely Vege arl Deposits drogen Sul y-Season V	etated Con (B15) fide Odor	ncave Surfa	, , ,	Water S Water S Drainag Oxidized Presence Salt Dep	ndicators (two or more are required) itained Leaves (B9) e Patterns (B10) d Rhizospheres along Living Roots (C3) e of Reduced Iron (C4) posits (C5) or Stressed Plants (D1)
 Drift Depo Algal Mat Iron Depo 	sits (B3) or Crust (B4)				her (Explain		. ,		Geomor Shallow	phic Position (D2) Aquitard (D3) pographic Relief (D4) ıtral Test (D5)

Wetland Hydrology Present?

Field Observations:

(includes capillary fringe)

Yes 🔿 No 🖲 Depth (inches): Surface Water Present? Yes 🔿 No 🖲 Water Table Present? Depth (inches): Saturation Present? Yes \bullet No \bigcirc Depth (inches): 1

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks:

On the fence of saturation. Did not apply A3 as no associated water table or shallow aquitard w/in 12in.

Yes 💿 No 🔾