WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 06-Jul-13
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T103_07
	gator(s): WAD, BAB	ı	Landform (hill	side, terrac	ee, hummocks etc.): Hillside
-	elief (concave, convex, none): hummocky		Slope: 0.0		° Elevation: 735
	ion: Interior Alaska Mountains	lat: 6	· 62.784653544	_ —	Long.: -147.832634568 Datum: WGS84
_	p Unit Name:		12.70403334	·	NWI classification: PSS4B
			. Voc	No ○	
Are V		significantly naturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes ● No C)			
	Hydric Soil Present? Yes ● No C)			pled Area
	Wetland Hydrology Present? Yes ● No C		wi	thin a W	etland? Yes ● No ○
Rem	,,,				
	TATION - Use scientific names of plants. Li	st all spe	cies in the Dominant Species?		Dominance Test worksheet: 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.		0			Percent of dominant Species
4.		0_			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover:				Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species
1.	Picea mariana	40	✓	FACW	FACW Species <u>57</u> x 2 = <u>114</u>
2.	Vaccinium uliginosum	10		FAC	FAC Species <u>48</u> x 3 = <u>144</u>
3.	Ledum decumbens	10		FACW	FACU Species <u>0</u> x 4 = <u>0</u>
4.	Betula nana	8		FAC	UPL Species
5.	Vaccinium vitis-idaea	1		FAC	Column Totals: <u>105</u> (A) <u>258</u> (B)
6.	Empetrum nigrum	1		FAC	
7.		0			Prevalence Index = B/A =2.457_
8.		0			Hydrophytic Vegetation Indicators:
9.					✓ Dominance Test is > 50%
10.					Prevalence Index is ≤3.0
Her	Total Cover: 50% of Total Cover:		of Total Cover	: 14	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Carex bigelowii		~	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
	Petasites frigidus			FACW	¹ Indicators of hydric soil and wetland hydrology must
	Equisetum sylvaticum		<u>~</u>	FAC	be present, unless disturbed or problematic.
	Rubus chamaemorus	-		FACW	Plot size (radius, or length x width)
					% Cover of Wetland Bryophytes
					(Where applicable)
					% Bare Ground
					Total Cover of Bryophytes
					Understadio
10.	Total Cover:				Hydrophytic Vegetation
	50% of Total Cover:1		of Total Cover	7	Present? Yes • No O
Rem	arks:				
Kem	arks:				

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SOIL Sampling Point: SW13_T103_07

Depth		Matrix			Red	ox Featu	res		_	
(inches)	Color (mo	ist)	%	Color (m	oist)	<u>%</u>	Type ¹	<u>Loc</u> 2	Texture	Remarks
0-1			100%						Fibric Organics	
1-12	5Y	4/2	60%	10YR	4/1	15%		M	Silty Clay	mixed matrix colors
+mottle				2.5Y	4/4	15%	С	PL	Sandy Clay Loam	
										•
										-
									-	
	-					-		-		-
L Type: C-Cor		-Danlation		cod Matrix	2 Location	· DI – Dore	Lining DC	`-Poot Cha	nnel. M=Matrix	n 5
Hydric Soil I		-реріецої	i. Kii–Keuu		ors for Pro		_		inner. M-Maurx	
_					ka Color Ch		4	Jiis.	Alaska Gleyed Without H	lue 5V or Padder
Histic Epip	r Histel (A1)				ka Color Cir ka Alpine sv			_	Underlying Layer	lue 31 of Reduct
=	Sulfide (A4)				ka Redox W	`	,		Other (Explain in Remar	ks)
_ ′ -	Sullide (A4) Surface (A12)			Alusi	ta redox vv	nai 2.51 ii	iuc			-,
Alaska Gle	• •	,							nary indicator of wetland I	nydrology,
Alaska Red				and an	appropriate	e landscap	e position i	nust be pro	esent	
_	eyed Pores (A1	5)		4 Give d	letails of co	lor change	e in Remark	is.		
estrictive Laye	er (if present):									
	anal front								Hydric Soil Present	:? Yes 💿 No 🔾
Type: seas	Solidi ITOSL									
Depth (inchemarks:		atrix to 10	Y4/1							
Depth (inchemarks:	nes): 12	atrix to 10	Y4/1							
Depth (inchemarks: laska color cha	nes): 12 ange on 5Y ma		Y4/1							
Depth (inchemarks: laska color cha	nes): 12 ange on 5Y ma	tors:								icators (two or more are required)
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