WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 30-Jul-12
Applica	nt/Owner: Alaska Energy Authority		_		Sampling Point: SW12_T49_02
	gator(s): SLI, KMK		Landform (hil	llside, terrac	e, hummocks etc.): Flat
-	elief (concave, convex, none): hummocky		Slope:	% / 1.3	
	ion : Interior Alaska Mountains	Lat	 62.81116313		Long.: -148.425649058 Datum: NAD83
_		Lat.	. 02.01110313	13	
	p Unit Name:		- 1/	<u> </u>	NWI classification: PSS1B
Are Vo	natic/hydrologic conditions on the site typical for this tegetation , Soil , or Hydrology egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sho	significal naturally wing sa	ntly disturbed? problematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No Iorded, explain any answers in Remarks.) Iorded, explain any answers in Remarks.) Iorded, explain any answers in Remarks.
	Hydrophytic Vegetation Present? Yes				pled Area
	Wetland Hydrology Present? Yes ● No)	W	ithin a W	etiand? Tes © NO C
	rks: water temp 9.3C, EC 91, pH 6.1 TATION -Use scientific names of plants. L				Dominance Test worksheet:
Tree	Stratum	Absolu % Cov		Indicator Status	Number of Dominant Species
	Picea mariana	2		FACW	That are OBL, FACW, or FAC:6(A)
2.					Total Number of Dominant Species Across All Strata: 7 (B)
3.					
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 85.7% (A/B)
5.					Paradana Tadan madahash
	Total Cove	- — r:20			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapl	ing/Shrub Stratum 50% of Total Cover:	10 2	0% of Total Cover	:4	OBL Species 11 x 1 = 11
-		-	0 \square	FACW	FACW Species 98 x 2 = 196
	Picea mariana Betula nana	- <u>- 1</u>		FACW	FAC Species 25.1 x 3 = 75.30
3.	Vaccinium uliqinosum	- - 1		FAC	FACU Species 5 x 4 = 20
4.	Salix pulchra	- <u>'</u>		FACW	UPL Species 0 x 5 = 0
5.	Salix commutata	0.		FAC	
	Empetrum nigrum	- 		FAC	Column Totals: <u>139.1</u> (A) <u>302.3</u> (B)
7.	Rhododendron tomentosum	- <u>-</u> -		FACW	Prevalence Index = B/A = 2.173
	Vaccinium vitis-idaea			FAC	Hydrophytic Vegetation Indicators:
9.					✓ Dominance Test is > 50%
10.					✓ Prevalence Index is ≤3.0
Herl	Total Cove 50% of Total Cover:			r: <u>16.22</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Equisetum sylvaticum	5	<u> </u>	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Cornus canadensis	5	~	FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Petasites frigidus	7	· •	FACW	be present, unless disturbed or problematic.
4.	Carex magellanica	2	2	OBL	Plot size (radius, or length x width) 10m
5.	Carex media	2	<u> </u>	FACW	Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes
6.	Carex Ioliacea	3		OBL	(Where applicable)
7.	Rubus chamaemorus		_ =	FACW	% Bare Ground <u>10</u>
8.	Carex aquatilis	5	<u> </u>	OBL	Total Cover of Bryophytes 85
9.	Eriophorum scheuchzeri	1		OBL	
10.	Arctagrostis latifolia			FACW	Hydrophytic
	Total Cove r 50% of Total Cover:		 0% of Total Cover	7.6	Vegetation Present? Yes ● No ○
Rema	carex canescens 3%. Unknown carex sp at 1 gallium and ranlap. 1% calcan	%. Collec	cted carex and s	alix spp for o	confirmation. Bare ground includes open water. Trace

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SOIL Sampling Point: SW12_T49_02

(inches)	Color (mo	nist)	%	Color (m	noist)	%	Type ¹	Loc ²	Texture	Remarks
0-1.5	COIOI (IIIC	лэсу	100	COIOI (III	Olst)	_/0_	Турс	LUC	Hemic Organics	Oi, common roots
1.5-3.5			100						Hemic Organics	Oe, common roots
3.5-5			100		-				Sapric Organics	Oe, few roots
5-18	2.5Y	2/2	50	5YR	4/4	10		 PL	Loam	_
5-16	2.51	3/2			4/4	10		PL	Loaiii	40% gravels and cobbles
										_
Type: C=Cond	centration. D	=Depletion	. RM=Reduc	ed Matrix	2 Location:	: PL=Pore	e Lining. RC	 C=Root Cha	annel. M=Matrix	_
ydric Soil In	dicators:			Indicate	ors for Pro	blematio	Hydric S	oils: ³		
Histosol or	Histel (A1)			Alask	ka Color Cha	ange (TA4	1)4		Alaska Gleyed Without	Hue 5Y or Redder
Histic Epipe	edon (A2)				ka Alpine sw	•	•		Underlying Layer	
Hydrogen S	Sulfide (A4)			✓ Alask	ka Redox W	ith 2.5Y F	lue		Other (Explain in Rem	arks)
	Surface (A12)		3 One ir	ndicator of h	nydronhyt	ic vegetatio	n one nrin	mary indicator of wetland	t hydrology
Alaska Gley					appropriate					a frydrology,
☐ Alaska Red	, ,	F \		4 Give d	letails of col	lor change	e in Remark	S		
Alaska Gley	ed Pores (A1									
strictive Layer	r (if present):									
Type:									Hydric Soil Prese	nt? Yes 💿 No 🔾
Denth (inche	ec).									
Depth (inche	es):									
Depth (inche	es):									
emarks:										
/DROLOG	GY ology Indica									ndicators (two or more are required)
/DROLO(etland Hydro	GY ology Indica ors (any one		t)						Water S	tained Leaves (B9)
POROLOG etland Hydroximary Indicat Surface Wa	GY ology Indica ors (any one ater (A1)		t)		undation Vis		_		Water S Drainage	tained Leaves (B9) e Patterns (B10)
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