WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project		Borough/Cit	y: Matanusk	ka-Susitna Borough Sampling Date: 21-Aug-15
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T302_01
	igator(s): GVF		Landform (hillside, terrac	ce, hummocks etc.): Swale
	relief (concave, convex, none): hummocky		_		0 ° Elevation:
	, <u> </u>		_	J.J /0 /	
	gion : Interior Alaska Mountains	Lat.			Long.: Datum: WGS84
Soil Ma	ap Unit Name:				NWI classification: PSS1B
Are cli	imatic/hydrologic conditions on the site typical for this	time of ye	ear? Y	es No	, , ,
Are ۱	Vegetation \square , Soil \square , or Hydrology \square	significa	ntly disturbed	? Are "N	Normal Circumstances" present? Yes No
Are ۱	Vegetation \square , Soil \square , or Hydrology \square	naturally	problematic?	(If nee	eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sho	owing s	ampling po	int locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No	\supset			
	Hydric Soil Present? Yes No	\sim		Is the Sam	npled Area
	Wetland Hydrology Present? Yes No	\supset		within a W	Vetland? Yes ● No ○
Rem	arks: narrow channel with running water adjacent to p		nel lined with	more gramin	oid and less shrub. Plot in fen near slone break to
VEG	steeperpart of hillslope. ETATION -Use scientific names of plants. L	ist all s	pecies in th	ne plot.	
		Absolu	te Dominar	nt Indicator	Dominance Test worksheet:
Tre	ee Stratum	% Cov	er Species	? Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.					Total Number of Dominant
2.					Species Across All Strata: 4 (B)
3.					Percent of dominant Species
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)
5.					Prevalence Index worksheet:
	Total Cove	r: <u>0</u>			Total % Cover of: Multiply by:
Sa	pling/Shrub Stratum 50% of Total Cover:	0 2	0% of Total Cov	ver:0	OBL Species 6.1 x 1 = 6.1
	·	4.0		FAC	FACW Species 37 x 2 = 74
	Betula nana	40		FAC	FAC Species
2.				FAC	FACU Species $0 \times 4 = 0$
3.	Rhododendron tomentosum			FACW	UPL Species $0 \times 5 = 0$
4.	Empetrum nigrum	- <u>5</u> 5		FAC	
5.				FACW	Column Totals: <u>117.1</u> (A) <u>302.1</u> (B)
	<u> </u>			FACW	Prevalence Index = B/A = 2.580
7.			-	FAC	
	Vaccinium vitis-idaea	3	-	FAC	Hydrophytic Vegetation Indicators:
	Vaccinium oxycoccos			OBL	✓ Dominance Test is > 50%
10.		0	_		✓ Prevalence Index is ≤3.0
u _o	Total Cove rb Stratum 50% of Total Cover: _			ver: 16.62	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
					Problematic Hydrophytic Vegetation (Explain)
1.	D. b. and be a second of			FACW	
2.	Rubus chamaemorus			FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Calamagrostis canadensis		_ =	FAC	
4.	Eriophorum angustifolium			OBL	Plot size (radius, or length x width)
5.	Carex aquatilis			OBL FAC	% Cover of Wetland Bryophytes
6.			_ =	FAC	(Where applicable)
			_ =		% Bare Ground
7.		()	_ =		Total Cover of Bryophytes
7. 8.					
7. 8. 9.		0	_ =		
7. 8. 9.		0			Hydrophytic
7. 8. 9.		0 0 r: 34			Hydrophytic Vegetation Present? Yes No

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SOIL Sampling Point: SW15_T302_01

(inches)	Color (mo	ist)	%	Color (m	noist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks
0-5			100				-,,,-		Fibric Organics	
5-9			100						Hemic Organics	
9-10			100						Sapric Organics	
10-15	10YR	3/2	100						Silt Loam	w gravel
15-17	10Y	4/1	90	10YR	4/4	10		PL	Sandy Clay Loam	oxidized rhizospheres along living roots
13 17	101	.,, -		10110						+3%
										-
Type: C=Cor	ncentration. D=	=Depletion	. RM=Reduc	ced Matrix	² Location:	: PL=Pore	e Lining. RO	C=Root Cha	nnel. M=Matrix	
lydric Soil I	ndicators:			Indicat	ors for Pro	blematio	: Hydric S	oils: ³		
Histosol or	r Histel (A1)			Alasi	ka Color Cha	ange (TA4	1) ⁴	✓	Alaska Gleyed Without H	lue 5Y or Redder
Histic Epip	edon (A2)			Alas	ka Alpine sw	vales (TA5	5)		Underlying Layer	
Hydrogen	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y F	lue		Other (Explain in Remar	ks)
	Surface (A12))		3 One ir	ndicator of h	nydronhyt	ic vegetatio	n one nrin	nary indicator of wetland I	hydrology
Alaska Gle					appropriate					nyarology,
Alaska Red	oox (A14) eyed Pores (A1	5)		4 Give o	details of col	lor change	e in Remark	(S		
	` `	J)								
_	er (if present):								Hydric Soil Present	:? Yes • No ·
IVDe. can/	dy clay loam								HVaric Soli Present	TY YES (TO NO ()
									,	165 9 110 9
Depth (inch									,	
									,	
Depth (inchemarks:	nes): 10								.,,	
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