WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Bo	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Aug-12
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW12_T53_09
Investi	gator(s): CTS, EKJ		La	andform (hills	ide, terrac	e, hummocks etc.): Mountainslope
Local r	elief (concave, convex, none): concave		s	Slope: 10.5	% / 6.0	Elevation: 657
Subreg	ion : Southcentral Alaska	Lat.	: 62	2.810539908	6	Long.:149.069749969
Soil Ma	p Unit Name:					NWI classification: Upland
Are V Are V	natic/hydrologic conditions on the site typical for the egetation , Soil , or Hydrology egetation , Soil , or Hydrology . MARY OF FINDINGS - Attach site map s	significa naturally showing s	ntly o	disturbed? blematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydric Soil Present? Yes ○ N	lo			the Sam thin a W	pled Area etland? Yes ○ No ●
/EGE	TATION - Use scientific names of plant	s. List all s	pec	ies in the p	olot.	
		Absolu	ıte	Dominant	Indicator	Dominance Test worksheet:
	e Stratum	% Cov		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
1.			0			Total Number of Dominant
2.			0			Species Across All Strata: 4 (B)
3.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
4. 5.			0			THAT AIR OBL, FACW, OF FAC. 75.0% (A/B)
J.	Total C					Prevalence Index worksheet:
San	ling/Shrub Stratum 50% of Total Cover:			f Total Cover:	0	Total % Cover of: Multiply by:
	<u></u>					OBL Species 0 x1 = 0 FACW Species 60.1 x2 = 120.2
	Betula nana		0	✓	FAC	
	Ledum decumbens		50		FACW	FAC Species
3. 4.	Vaccinium vitis-idaea Vaccinium uliginosum		4 20		FAC FAC	UPL Species 0 x 5 = 0
5.	Spiraea stevenii		1		FACU	
6.	F		<u>-</u> 1		FAC	Column Totals: <u>136.2</u> (A) <u>349.6</u> (B)
7.	Empetrum nigrum		0		-7.0	Prevalence Index = B/A = 2.567
_			0			Hydrophytic Vegetation Indicators:
_			0			✓ Dominance Test is > 50%
			0			✓ Prevalence Index is ≤3.0
	Total Co b Stratum 50% of Total Cover	over:13		of Total Cover:	27.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Rubus chamaemorus	0	.1	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Cornus canadensis	0	.1	~	FACU	¹ Indicators of hydric soil and wetland hydrology must
3.			0			be present, unless disturbed or problematic.
4.			0			Plot size (radius, or length x width)
			0			% Cover of Wetland Bryophytes 75
			0			(Where applicable)
			_			% Bare Ground 0
			0			Total Cover of Bryophytes
			0			Hydronhytic
	Total Co		_			Vegetation
	50% of Total Cover:			f Total Cover:	0.04	Present? Yes No No
8. 9. 10.	Total C		0	f Total Cover:		Total Cover of Bryophytes 75 Hydrophytic Vegetation

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SOIL Sampling Point: SW12_T53_09

(inches)	Color (m	nist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7		ioisty	100	color (moise)		Турс		Fibric Organics	
7-13	10YR	3/2	90					Sandy Loam	10% angular cobbles and gravel
13-15	5YR	2.5/2	90					Loamy Sand	10% angular cobbles and gravel
15-20	7.5YR	2.5/2	85					Loamy Sand	15% coarse sand to angular cobbles
15 20	7.5110	2.5/2						Zoum, ound	
LType: C-Co	ncentration [——————————————————————————————————————		d Matrix ² Locatio	n. DI –Dore Li	ining PC-P	oot Char	nnel M-Matriy	_
Hydric Soil I		/-Depletion		Indicators for P				inei. M-Maurx	
_	r Histel (A1)			Alaska Color C	4	yuric sons.	·	Alaska Gleyed Without	Hue 5Y or Redder
_	pedon (A2)			Alaska Alpine				Underlying Layer	Tide 31 of Redder
=	Sulfide (A4)			Alaska Redox		:		Other (Explain in Rema	arks)
Thick Dark	k Surface (A1	2)							
Alaska Gle	eyed (A13)			One indicator of and an appropria	f hydrophytic v Ite landscape r	vegetation, c position mus	one prim t be pre	nary indicator of wetland esent	hydrology,
Alaska Re	` '			4 Give details of o					
Alaska Gle	eyed Pores (A	15)		· Give details of t	olor change in	i Reillaiks			
estrictive Laye	er (if present)):							
Type:								Hydric Soil Preser	nt? Yes O No 💿
Depth (inclemarks: b hydric soil in	<u>, </u>								
emarks:	<u>, </u>								
emarks:	ndicators								
emarks: b hydric soil in YDROLO Vetland Hyd	ndicators GY rology Indic							_Secondary In	dicators (two or more are required)
emarks: b hydric soil in YDROLO /etland Hyd Primary Indice	oGY rology Indicators (any one		t)					Water St	ained Leaves (B9)
YDROLO Vetland Hyd Primary Indica Surface V	GY rology Indicators (any one Water (A1)		t)		/isible on Aeria			Water St	ained Leaves (B9) Patterns (B10)
YDROLO Vetland Hyd Primary Indica Surface V High Wat	OGY rology Indicators (any one Vater (A1) er Table (A2)		t)	Sparsely Veg	getated Concav			Water St Drainage Oxidized	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (Ca
YDROLO /etland Hyd /brimary Indica Surface W High Wat Saturation	oGY rology Indicators (any one Vater (A1) er Table (A2) n (A3)		t)	Sparsely Veg Marl Deposit	getated Concav cs (B15)	ve Surface (I		Water St Drainage Oxidized Presence	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4)
YDROLO Yetland Hyd Surface W High Wat Saturation Water Ma	rology Indicators Vater (A1) er Table (A2) n (A3) urks (B1)	e is sufficier	<u>t</u>)	Sparsely Veg Marl Deposit Hydrogen Su	getated Concav s (B15) ulfide Odor (C1	ve Surface (I I)		Water St Drainage Oxidized Presence Salt Dep	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) osits (C5)
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