WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 30-Jul-13
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T172_06
nvestig	jator(s): WAD, RWM		Landform (hills	side, terrac	e, hummocks etc.): Toeslope
_ocal re	elief (concave, convex, none): concave		Slope:	%/ 2.2	Elevation: 901
Subrea	ion : Interior Alaska Mountains	Lat ·	63.271975516	 0	Long.: -148.256913544 Datum: NAD83
-	p Unit Name:	-	00.27 107 00 10	5	
			0 Vec (• No ()	NWI classification: PSS1B
	natic/hydrologic conditions on the site typical for this ti	•			(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ◯
		· ·	y disturbed?		
Are Ve	egetation 🗋 , Soil 🗌 , or Hydrology 🗌	naturally pr	oblematic?	(If nee	ded, explain any answers in Remarks.)
SUMN	IARY OF FINDINGS - Attach site map show	wing sam	npling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes 🔍 No 🔇)			
	Hydric Soil Present? Yes Ves		ls	the Sam	pled Area
	Wetland Hydrology Present? Yes Ves		wit	thin a W	etland? Yes $ullet$ No $igcap$
	rks: Toe of shallow drainage slope. willow dominant v		nd obligate do	minated or	penings, somewhat channelized.
			<u>j</u>		
			at a star where a		
/EGE	TATION - Use scientific names of plants. Li	ist all spe	ecies in the p	DIOT.	Dominance Test worksheet:
Tree	Churchum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1.	Stratum	0		Status	That are OBL, FACW, or FAC: <u>2</u> (A)
2.					Total Number of Dominant
3.		0			Species Across All Strata: <u>2</u> (B)
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.					
0.	Total Cover	: 0			Prevalence Index worksheet:
Sanl	ing/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	Total % Cover of: Multiply by:
		0 20/0			OBL Species $1 \times 1 = 1$
	Salix pulchra	75		FACW	FACW Species 82 x 2 = <u>164</u> FAC Species 41 x 3 = 123
	Salix barclayi			FAC	
3.					
4.					
5.					Column Totals: <u>127.1</u> (A) <u>300.4</u> (B)
6.					Prevalence Index = B/A = 2.363
7. 8		0			
9.		0			Hydrophytic Vegetation Indicators: Dominance Test is > 50%
10.		0			✓ Prevalence Index is $≤ 3.0$
10.	Total Cover				 Morphological Adaptations¹ (Provide supporting data in
Hert	Stratum 50% of Total Cover:		6 of Total Cover:	16	Remarks or on a separate sheet)
1	Equisetum arvense	35	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
	Arctagrostis latifolia			FACW	¹ Indicators of hydric soil and wetland hydrology must
	Rubus arcticus (IAM)	2		FACU	be present, unless disturbed or problematic.
	Parnassia palustris	2		FACW	
5.	Comarum palustre	. 1		OBL	Plot size (radius, or length x width) <u>10m</u>
6.	Polemonium acutiflorum	1		FAC	% Cover of Wetland Bryophytes (Where applicable)
7.	Galium boreale	0.1		FACU	% Bare Ground
8.		0			Total Cover of Bryophytes
9.					
10.		0			Hydrophytic
	Total Cover		-		Vegetation
	50% of Total Cover:	3.55 20%	ot Total Cover:	9.42	
10. Rema	Total Cover 50% of Total Cover:	47.1	of Total Cover:	9.42	

Depth	Matrix		cument the indicator or confirm the absence of indicators) Redox Features				_		
<i>a</i> i ,	(moist)	%	Color (mo	oist)	%	Type ¹	<u>Loc</u> ²	Texture	Remarks
0-2		100						Fibric Organics	Fibric Organics
2-14 2.5Y	3/1	70	2.5YR	4/6	30	С	PL	Clay Loam	
				2					
¹ Type: C=Concentration		. RM=Reduc				: Hydric Se		annel. M=Matrix	
Hydric Soil Indicators				a Color Cha		4	UIIS.	Alaska Claved Without	
Histosol or Histel (A	,							Alaska Gleyed Without Underlying Layer	Hue 5Y or Redder
Histic Epipedon (A2)				a Alpine sw				, , ,	ories)
Hydrogen Sulfide (A	,		✓ Alaska	a Redox W	ith 2.5Y F	lue		Other (Explain in Rema	arks)
Alaska Gleyed (A13)	, ,							mary indicator of wetland	d hydrology,
Alaska Gleyed (A13)			and an a	appropriate	landscap	e position r	must be pr	esent	
Alaska Gleyed Pores	(A15)		⁴ Give de	etails of col	or change	e in Remark	s		
Restrictive Layer (if prese	ent):								
Type: clay loam Depth (inches): 2								Hydric Soil Prese	nt? Yes $ullet$ No $igodom$
Depth (menes). 2									
HYDROLOGY									
	dicators:							_Secondary In	idicators (two or more are required)
		t)							idicators (two or more are required)
Wetland Hydrology In		t)	Inu	ndation Vis	ible on A	erial Image	гу (B7)	Water St	
Wetland Hydrology In Primary Indicators (any Surface Water (A1) High Water Table (A)	one is sufficient	t)				erial Image cave Surfac		Water Si	tained Leaves (B9) e Patterns (B10) I Rhizospheres along Living Roots (C3)
Wetland Hydrology In Primary Indicators (any Surface Water (A1)	one is sufficient	t)	🗌 Spa		tated Con	-		Water Si	tained Leaves (B9) e Patterns (B10)
Wetland Hydrology In Primary Indicators (any Surface Water (A1) High Water Table (A	one is sufficient	t)	Spa Mar	rsely Vege	tated Con (B15)	cave Surfac		Water St Drainage Oxidized Presence	tained Leaves (B9) e Patterns (B10) I Rhizospheres along Living Roots (C3)
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Wetland Hydrology In Primary Indicators (any Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1)	one is sufficient A2)	0	Spa	rsely Vege I Deposits Irogen Sulf	tated Con (B15) ide Odor ater Table	cave Surfac (C1) e (C2)		Water Sil	tained Leaves (B9) e Patterns (B10) l Rhizospheres along Living Roots (C3) e of Reduced Iron (C4) oosits (C5) or Stressed Plants (D1) phic Position (D2)
Wetland Hydrology In Primary Indicators (any Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (one is sufficient A2) (B2)	b)	Spa	arsely Vege I Deposits Irogen Sulf -Season W	tated Con (B15) ide Odor ater Table	cave Surfac (C1) e (C2)		Water Sil	tained Leaves (B9) e Patterns (B10) l Rhizospheres along Living Roots (C3) e of Reduced Iron (C4) posits (C5) or Stressed Plants (D1)
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