WETLAND DETERMINATION DATA FORM - Alaska Region

roject	Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 24-Aug-15
pplica	nt/Owner: Alaska Energy Authority				Sampling Point: SW15_T331_06
vestiç	pator(s): ERT, TXC		Landform (hil	lside, terrac	ee, hummocks etc.): Swale
ocal r	elief (concave, convex, none): hummocky		Slope: 7.0	% / 4.0	° Elevation:
	ion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84
_	p Unit Name:				NWI classification: PSS1/EM1F
	natic/hydrologic conditions on the site typical for th	io timo of voo	ro Vec	● No ○	(If no, explain in Remarks.)
Are V Are V	egetation , Soil , or Hydrology egetation , Soil , or Hydrology egetation , Soil , or Hydrology	significantl naturally p	ly disturbed? roblematic?	Are "N (If nee	lormal Circumstances" present? Yes No deded, explain any answers in Remarks.)
	() p , g	_	Is	the Sam	pled Area
	Tryuno com ricocnic	\circ		ithin a W	
		\circ	VV	itiiiii a vv	etialia: 100 m
Rema	rks: Drainage with running water through plot.				
EGE	TATION -Use scientific names of plants	<u> </u>		•	Dominance Test worksheet:
Tree	Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species
1.					That are OBL, FACW, or FAC: 2 (A)
2.					Total Number of Dominant Species Across All Strata: 2 (B)
3.					Percent of dominant Species
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)
5.					Prevalence Index worksheet:
	Total Co	ver: <u> </u>			Total % Cover of: Multiply by:
Sap	ing/Shrub Stratum 50% of Total Cover:	020%	6 of Total Cover	:0	OBL Species <u>31</u> x 1 = <u>31</u>
1.	Salix pulchra	50	✓	FACW	FACW Species <u>50</u> x 2 = <u>100</u>
2.	Vaccinium uliginosum	2		FAC	FAC Species 3 x 3 = 9
3.	Betula nana	1		FAC	FACU Species0 x 4 =0
4.		0			UPL Species 0 x 5 = 0
5.					Column Totals: <u>84</u> (A) <u>140</u> (B)
6.					Prevalence Index = B/A =1.667_
7.					1.007
8.					Hydrophytic Vegetation Indicators:
		- 0			Dominance Test is > 50%
10.	Total Co				✓ Prevalence Index is ≤3.0
Heri	Stratum 50% of Total Cover:		% of Total Cove	r: 10.6	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
	Carex aquatilis	20	✓	OBL	Problematic Hydrophytic Vegetation (Explain)
	Epilobium palustre			OBL	¹ Indicators of hydric soil and wetland hydrology must
					be present, unless disturbed or problematic.
					District (and its on long skip a suid skip)
					Plot size (radius, or length x width)
		_			(Where applicable)
7.		0			% Bare Ground
8.					Total Cover of Bryophytes
9.					
10.					Hydrophytic
	Total Co			: 6.2	Vegetation Present? Yes ● No ○
	50% of Total Cover:				

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SOIL Sampling Point: SW15_T331_06

(inches)			•		•	_ 1	. 2	Texture		Remarks
	Color (mo	oist)	<u> </u>	Color (moist)		Type ¹	<u>Loc</u> 2	Peat	Oi	Remarks
0-2										
2-3						·		Mucky Peat	Oe	
3-6	10YR	3/2	30					Silt Loam	Oe/C. stratified or	rg and mineral
6-14	2.5Y	3/2	30					Muck	Oa/C. mineral ric	ch sapric horizon
					_ 			-		
Type: C=Con	ncentration. D	=Depletion	. RM=Reduce	ed Matrix ² Locatio				nnel. M=Matrix		
ydric Soil Ir				Indicators for Pr		4	oils:	1		
_	Histel (A1)			Alaska Color C				Alaska Gleyed Wi Underlying Layer	thout Hue 5Y or Redder	r
Histic Epip	` ,			Alaska Alpine s	, ,				Domayla)	
	Sulfide (A4)			☐ Alaska Redox	With 2.5Y Hu	ıe		Other (Explain in	Remarks)	
_	Surface (A12)		3 One indicator of	f hydronhytic	vegetatio	n one nrin	nary indicator of we	etland hydrology	
☐ Alaska Gle				and an appropria					cuana nyarology,	
∐ Alaska Red	` '			4 Give details of o	color change	in Domark	c			
J Alaska Gle	yed Pores (A1	5)		Give details of c	color change	III Kemark				
strictive Laye	er (if present):									
Type:								Hydric Soil Pr	esent? Yes •	No 🔾
								-		
Depth (inch	nes):							•		
Depth (inch	nes):									
emarks:										
emarks:		itors:						_Seconda	ary Indicators (two or m	nore are required)
emarks: /DROLO etland Hydr	GY		t)					Wa	ter Stained Leaves (B9)	
PMOLO Control Contr	GY rology Indica tors (any one		t)	☐ Inundation \	Visible on Aer	rial Imager	y (B7)	Wa		
**DROLO etland Hydrimary Indicat Surface W High Wate	GY rology Indicators (any one /ater (A1) er Table (A2)		t)		visible on Aer getated Conc	_		Wa ✓ Dra ☐ Oxi	ter Stained Leaves (B9) ainage Patterns (B10) idized Rhizospheres alor) ng Living Roots (C
*/DROLO etland Hydr imary Indicat Surface W High Wate	GY rology Indicators (any one /ater (A1) er Table (A2)		t)		getated Conc	_		Wa ✓ Dra ☐ Oxi	ter Stained Leaves (B9) ainage Patterns (B10)) ng Living Roots (C
*/DROLO etland Hydr imary Indicat Surface W High Wate	GY rology Indica tors (any one /ater (A1) er Table (A2) n (A3)		t)	Sparsely Veg	getated Conc ts (B15)	cave Surfac		Wa Dra □ Oxi □ Pre	ter Stained Leaves (B9) ainage Patterns (B10) idized Rhizospheres alor) ng Living Roots (C
POROLO etland Hydr imary Indicat Surface W High Wate Saturation Water Mai	GY rology Indica tors (any one /ater (A1) er Table (A2) n (A3)	is sufficien	t)	Sparsely Veg Marl Deposit Hydrogen Su	getated Conc ts (B15)	cave Surfac		Wa ✓ Dra Oxi Pre Sal	ter Stained Leaves (B9) ainage Patterns (B10) dized Rhizospheres alor esence of Reduced Iron) ng Living Roots (C (C4)
YDROLO etland Hydr imary Indicat Surface W High Wate Saturation Water Mai	GY rology Indicators (any one /ater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2)	is sufficien	t)	Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Conc ts (B15) ulfide Odor (C	cave Surfac C1) (C2)		Wa ✓ Dra Oxi Pre Sal Stu	ter Stained Leaves (B9) ainage Patterns (B10) dized Rhizospheres alor sence of Reduced Iron t Deposits (C5)) ng Living Roots (C (C4)
YDROLO YDROLO YDROLO YEtland Hydr Timary Indical ✓ Surface W ✓ High Wate ✓ Saturation ─ Water Mar ─ Sediment ─ Drift Depo	GY rology Indicators (any one /ater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2)	is sufficien	t)	Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Conc ts (B15) ulfide Odor (O Water Table	cave Surfac C1) (C2)		Wa ✓ Dra Oxi Pre Sal Stu	ter Stained Leaves (B9) sinage Patterns (B10) dized Rhizospheres alor esence of Reduced Iron t Deposits (C5) anted or Stressed Plants) ng Living Roots (C (C4)
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