## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 07-Aug-13		
Applic	ant/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T142_05		
	igator(s): WAD, RWM		Landform (hills	side, terrac	e, hummocks etc.): Toeslope		
	relief (concave, convex, none): concave		Slope:	% / 2.0	<u>-</u>		
	gion : Interior Alaska Mountains	l at ·	63.094448446		Long.: -148.286105155 Datum: NAD83		
		Lat	03.094440440	0			
	ap Unit Name:		- > /	<u> </u>	NWI classification: PEM1E		
	imatic/hydrologic conditions on the site typical for this tivegetation $\Box$ , Soil $\Box$ , or Hydrology $\Box$	•	ar?	● No ○ Are "N	(If no, explain in Remarks.)  formal Circumstances" present? Yes ● No ○		
Are \	Vegetation $\square$ , Soil $\square$ , or Hydrology $\square$	naturally	problematic?		ded, explain any answers in Remarks.)		
SUM	MARY OF FINDINGS - Attach site map sho	wina sa	mpling point	locations	transects important features, etc.		
			mpining point	ioodtione	s, transcoto, important reatures, etc.		
	), i, j, i ig		ls '	the Sam	he Sampled Area		
Hydric Soil Present? Yes  No C					/etland? Yes ◉ No ○		
Dom	Wetland Hydrology Present? Yes No Carks: Toeslope wet sedge meadow gentle slope surface						
Keiii	arks. Toeslope wet seuge meadow gentie slope surface	e water p	resent.				
VEG	<b>ETATION</b> -Use scientific names of plants. Li	ist all sp	ecies in the p	olot.			
		Absolut		Indicator	Dominance Test worksheet:		
_	ee Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
1.		0	-		Total Number of Dominant		
2.			-		Species Across All Strata:3 (B)		
3.			-		Percent of dominant Species		
4. 5.		0	-		That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.	Total Cover	0			Prevalence Index worksheet:		
C			– % of Total Cover:	0	Total % Cover of: Multiply by:		
Sal	pling/Shrub Stratum 50% of Total Cover:			0	OBL Species <u>50</u> x 1 = <u>50</u>		
1.	Salix pulchra	5		FACW	FACW Species 5 x 2 = 10		
	Salix reticulata			FAC	FACUS paging 2 x 4 = 54		
3.					FACU Species 2 x 4 = 8 UPL Species 0 x 5 = 0		
4.			-				
5.			-		Column Totals: <u>75</u> (A) <u>122</u> (B)		
6.			-		Prevalence Index = B/A =1.627_		
7. o			-		Undershit Vocatation Indicators		
8. 9.		0	-		Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%		
10.		0	-		✓ Prevalence Index is ≤3.0		
	Total Cover	: 10	_		Morphological Adaptations (Provide supporting data in		
He	rb Stratum 50% of Total Cover:			2	Remarks or on a separate sheet)		
1.	Carex aquatilis	45	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Rhodiola integrifolia	10		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Aconitum delphiniifolium	2		FAC	be present, unless disturbed or problematic.		
٥.	7 to or internal and primiting in the contract of the contract			OBL			
4.	<u> </u>	5	_		Plot size (radius, or length x width) 10m		
	Eriophorum angustifolium		_	FACU	Plot size (radius, or length x width)		
4. 5. 6.	Eriophorum angustifolium Artemisia norvegica Equisetum arvense	2			Plot size (radius, or length x width)  % Cover of Wetland Bryophytes (Where applicable)		
4. 5. 6. 7.	Eriophorum angustifolium Artemisia norvegica Equisetum arvense	1 0		FACU	% Cover of Wetland Bryophytes		
4. 5. 6. 7. 8.	Eriophorum angustifolium Artemisia norvegica Equisetum arvense	1 0 0		FACU	% Cover of Wetland Bryophytes (Where applicable)		
4. 5. 6. 7. 8. 9.	Eriophorum angustifolium Artemisia norvegica Equisetum arvense	1 0 0		FACU	% Cover of Wetland Bryophytes (Where applicable) % Bare Ground		
4. 5. 6. 7. 8. 9.	Eriophorum angustifolium Artemisia norvegica Equisetum arvense	2 1 0 0 0		FACU	% Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes  Hydrophytic		
4. 5. 6. 7. 8. 9.	Eriophorum angustifolium Artemisia norvegica Equisetum arvense	2 1 0 0 0 0	_	FACU FAC	% Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes		

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SOIL Sampling Point: SW13\_T142\_05

0-3 3-8 8-9 9-13  Type: C=Concentration. D=Depletice  Hydric Soil Indicators:  Histosol or Histel (A1)  Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Thick Dark Surface (A12)  Alaska Gleyed (A13)  Alaska Gleyed (A13)  Alaska Gleyed Pores (A15)  estrictive Layer (if present):  Type:	II	ndicators for Pr Alaska Color C Alaska Alpine s Alaska Redox \	roblematic Hyd hange (TA4) swales (TA5)	g. RC=Root Char	Fibric Organics  Sapric Organics  Coarse Sand  Sapric Organics  nnel. M=Matrix  Alaska Gleyed Without Hue 5Y or Redder Underlying Layer
8-9 9-13  Type: C=Concentration. D=Depletic  ydric Soil Indicators:  Histosol or Histel (A1) Histic Epipedon (A2) Hydrogen Sulfide (A4) Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Gleyed Pores (A15)  estrictive Layer (if present):	nn. RM=Reduced	ndicators for Pr Alaska Color C Alaska Alpine s Alaska Redox \	roblematic Hyd hange (TA4) swales (TA5)	_	Coarse Sand Sapric Organics  nnel. M=Matrix  Alaska Gleyed Without Hue 5Y or Redder
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Histic Epipedon (A2) Hydrogen Sulfide (A4) Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Gleyed Pores (A15) estrictive Layer (if present):	ā	Alaska Alpine s Alaska Redox \  One indicator of	swales (TA5)		
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Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Gleyed Pores (A15) estrictive Layer (if present):	ā	One indicator of	7101 2.51 Fide		Other (Explain in Remarks)
Alaska Gleyed (A13) Alaska Redox (A14) Alaska Gleyed Pores (A15) estrictive Layer (if present):	ā			_	( )
Alaska Redox (A14) Alaska Gleyed Pores (A15) estrictive Layer (if present):					nary indicator of wetland hydrology,
estrictive Layer (if present):	4	and an appropria	te landscape posi	ition must be pre	esent
		<sup>4</sup> Give details of o	olor change in Re	emarks	
Tyne:					
.,,,,					Hydric Soil Present? Yes ● No ○
Depth (inches):					
YDROLOGY					
<b>Vetland Hydrology Indicators:</b> Irimary Indicators (any one is sufficie	-mt)				Secondary Indicators (two or more are requi
Surface Water (A1)	<u>:11L)</u>		isible on Aerial Ir	magam, (B7)	
✓ Surface Water (A1) ✓ High Water Table (A2)			etated Concave S		Oxidized Rhizospheres along Living Root
✓ Saturation (A3)		Marl Deposit		Burrace (Bo)	Presence of Reduced Iron (C4)
Water Marks (B1)			Ilfide Odor (C1)		Salt Deposits (C5)
Sediment Deposits (B2)			Water Table (C2)		Stunted or Stressed Plants (D1)
Drift Deposits (B3)			in in Remarks)		Geomorphic Position (D2)
Algal Mat or Crust (B4)		_ ` ` '	,		Shallow Aquitard (D3)
Iron Deposits (B5)					✓ Microtopographic Relief (D4)
Surface Soil Cracks (B6)					FAC-neutral Test (D5)
ield Observations:					
	No ○	Depth (inche	es): 1		
Water Table Present? Yes	No ○	Depth (inche	es): 0	Wetlan	nd Hydrology Present? Yes $lacktriangle$ No $lacktriangle$
Saturation Present? Yes (includes capillary fringe)	● No ○	Depth (inche	es): 0		
escribe Recorded Data (stream gaug	je, monitor well, a	erial photos, pre	vious inspection)	if available:	
emarks:					

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