## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 08-Aug-12												
Applica	int/Owner: Alaska Energy A	Authority	Sampling Point: SW12_T44_04									
Investi	gator(s): CTS, EKJ	, , , , , , , , , , , , , , , , , , ,	side, terrac	ce, hummocks etc.): Lowland								
Local re	elief (concave, convex, none)	: flat	Slope: 0.0	% / 0.0	° Elevation: 757							
	ion: Interior Alaska Mounta			· 52.898199908								
_	p Unit Name:	1113										
	-				No ○	NWI classification: PEM1F						
Are V	natic/hydrologic conditions on legetation , Soil legetation , Soil MARY OF FINDINGS - A	, or Hydrology S	significantly naturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.						
	Hydrophytic Vegetation Prese	ent? Yes 💿 No 🗆	)		41 0	ustant Ausa						
Hydric Soil Present? Yes No O Is the Sampled Area												
	Wetland Hydrology Present?	Yes ● No C	)	Wi	thin a W	etland? Yes © No C						
Remarks:												
	TATION - Use scientific	names of plants. Li	st all spec	Dominant		Dominance Test worksheet:  Number of Dominant Species						
1.	e Stratum		0		Status	That are OBL, FACW, or FAC: 2 (A)						
2.			0			Total Number of Dominant						
3.						Species Across All Strata: 2 (B)						
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)						
5.			0			Describer of Today weeks back						
		Total Cover:				Prevalence Index worksheet:  Total % Cover of: Multiply by:						
Sap	ling/Shrub Stratum	50% of Total Cover:	of Total Cover:	0	OBL Species 44.1 x 1 = 44.1							
				<b>✓</b>	FAC	FACW Species 2.3 x 2 = 4.6						
	Dasiphora fruticosa				FAC FAC	FAC Species :###; x 3 =27.60						
	Betula nana  Ledum decumbens		0.1		FACW	FACU Species 1 x 4 = 4						
	Andromeda polifolia (IAM)		1		OBL	UPL Species 0 x 5 = 0						
5.	Vaccinium uliginosum		0.1		FAC							
6.	Empetrum nigrum		0.1	$\overline{\Box}$	FAC	Column Totals: <u>56.6</u> (A) <u>80.30</u> (B)						
7.			0			Prevalence Index = B/A = 1.419						
8.			0			Hydrophytic Vegetation Indicators:						
9.			0			✓ Dominance Test is > 50%						
10.			0			✓ Prevalence Index is ≤3.0						
Herl	b Stratum	<b>Total Cover:</b> 50% of Total Cover:		of Total Cover	: 2.06	☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)						
1.	Trichophorum alpinum		35	$\checkmark$	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)						
2.	Carex livida		3		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must						
3.	Swertia perennis		1		FACW	be present, unless disturbed or problematic.						
4.	Dodecatheon frigidum		1		FACW	Plot size (radius, or length x width) 10m						
5.	Solidago canadensis		_1_		FACU	% Cover of Wetland Bryophytes						
6.	Spiranthes romanzoffiana		0.1		OBL	(Where applicable)						
7.	Carex limosa		3		OBL	% Bare Ground						
8.	Eriophorum viridicarinatum		2		OBL	Total Cover of Bryophytes						
9.	Triantha glutinosa		0.1		FACW							
10.	Parnassia palustris 0.1				FACW	Hydrophytic						
		Total Cover: 50% of Total Cover: 2		of Total Cover:	9.26	Vegetation Present? Yes ● No ○						
Rem	arks: Astalp, Utrint, Carrot,	Thaalp = 0.1 cover										

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SOIL Sampling Point: SW12\_T44\_04

		ne depth need	ed to document	the indicator or co	onfirm the abs		ators)					
Depth (inches)	Color (mois			olor (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-3	Color (IIIol.		85	olor (moise)		Турс	LUC	Fibric Organics	15% roots			
3-16			90					Hemic Organics	10% roots			
							-	- Tremie Organics	10 /0 10005			
	-											
-				<del></del>								
<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil I	ndicators:		Ir	dicators for P	roblematio	Hydric So	oils: <sup>3</sup>					
✓ Histosol or	Histel (A1)			Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder								
Histic Epip	edon (A2)			Alaska Alpine s	swales (TA5	)	_	Underlying Layer				
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y H	ue		Other (Explain in Remarks)				
☐ Thick Dark	Surface (A12)											
Alaska Gle	yed (A13)			One indicator of nd an appropria				nary indicator of wetland h esent	ydrology,			
Alaska Red	dox (A14)				·	·	•					
Alaska Gle	yed Pores (A15	)	4	Give details of c	olor change	e in Remark	S					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes • No O			
Depth (inch	nes):											
HYDROLO												
Wetland Hydi									cators (two or more are required)			
	tors (any one is	sufficient)					Water Stained Leaves (B9)					
Surface W	. ,			Inundation V	isible on A	erial Image	ry (B7)	☐ Drainage Patterns (B10)				
✓ High Water Table (A2)				Sparsely Veg		cave Surfac	ce (B8)		hizospheres along Living Roots (C3)			
✓ Saturation (A3)				Marl Deposit	. ,			☐ Presence of Reduced Iron (C4) ☐ Salt Deposits (C5)				
Water Ma				Hydrogen Sເ		. ,						
	Deposits (B2)	ļ	Dry-Season \					Stressed Plants (D1)				
☐ Drift Depo				Other (Expla	in in Remar	·ks)			ic Position (D2)			
	or Crust (B4)								uitard (D3)			
☐ Iron Depo	. ,							✓ FAC-neutra	raphic Relief (D4)			
	oil Cracks (B6)							▼ FAC-fleutra	ii rest (D3)			
Field Observa Surface Water		Yes	No O	Depth (inche	oc). 3							
				рерит (птспе	es). Z							
Water Table P		Yes 💿	No $\bigcirc$	Depth (inche	es):		Wetlai	nd Hydrology Presen	t? Yes • No O			
Saturation Present? (includes capillary fringe) Yes • No			No O	Depth (inche	es):							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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