## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	!	Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 04-Aug-12									
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T99_02									
Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Alluvial fan														
Local relief (concave, convex, none): flat Slope: % / 6.8 ° Elevation: 554														
	gion : Southcentral Alaska	l at ·	- · <u></u> 62.68493654		Long.: -148.921889158 Datum: NAD83									
		Lut	02.00493034											
Soil Map Unit Name: NWI classification: PEM1E  Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)														
	matic/hydrologic conditions on the site typical for this til	-			(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○									
		-	tly disturbed?		ionnai oii oaniotanooo procont.									
Are \	/egetation 🗌 , Soil 🗹 , or Hydrology 🔲 ı	naturally p	problematic?	(If nee	eded, explain any answers in Remarks.)									
SUM	MARY OF FINDINGS - Attach site map show	wing sar	mpling point	locations	s, transects, important features, etc.									
	Hydrophytic Vegetation Present? Yes  No O													
	Hydric Soil Present? Yes ● No C	)	ls t	Is the Sampled Area										
	Wetland Hydrology Present? Yes ● No C	thin a W	Wetland? Yes  ● No ○											
Rem	arks:													
VFG	ETATION - Use scientific names of plants. Li	ict all cn	acias in tha	nlot										
	- Ose scientific flames of plants. Li				Dominance Test worksheet:									
Tre	ee Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species									
1.		0			That are OBL, FACW, or FAC:5(A)									
2.		0			Total Number of Dominant Species Across All Strata: 5 (B)									
3.			-											
4.		0	-		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)									
5.		0	-											
	Total Covers	:	_		Prevalence Index worksheet:  Total % Cover of: Multiply by:									
Sa	oling/Shrub Stratum 50% of Total Cover:	0	OBL Species 87 x 1 = 87											
			<b>✓</b>		FACW Species 30 x 2 = 60									
1. 2.	Salix pseudomonticola Salix barclayi	3		FAC FAC	FAC Species									
3.	0-1, -1		-	FAC	FACU Species $0 \times 4 = 0$									
4.		•	- 📙	FAC	UPL Species 0 x 5 = 0									
5.														
6.			-		Column Totals: <u>124</u> (A) <u>168</u> (B)									
7.		0	-		Prevalence Index = B/A =1.355									
8.		0	- 🗒		Hydrophytic Vegetation Indicators:									
9.		0	-		✓ Dominance Test is > 50%									
10.		0	- 🗀		✓ Prevalence Index is ≤3.0									
	Total Cover	. <u> </u>	_		Morphological Adaptations (Provide supporting data in									
He	rb Stratum 50% of Total Cover:			1.4	Remarks or on a separate sheet)									
1.	Carex aquatilis	30	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)									
2.	Equisetum fluviatile	7		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must									
3.	Carex canescens	10		FACW	be present, unless disturbed or problematic.									
4.	Juncus filiformis	10		FACW	Plot size (radius, or length x width) 10m									
		5		FACW	Plot size (radius, or length x width)									
5.	Arctagrostis latifolia			OBL										
5. 6.	Arctagrostis latifolia Carex rostrata	20	_		(Where applicable)									
	Corey restrate	20		FACW	(Where applicable)  % Bare Ground									
6.	Carex rostrata	20 5												
6. 7.	Carex rostrata Carex membranacea	20 5		FACW	% Bare Ground									
6. 7. 8.	Carex rostrata Carex membranacea Carex livida	5 5		FACW OBL	% Bare Ground Total Cover of Bryophytes  Hydrophytic									
6. 7. 8. 9.	Carex rostrata Carex membranacea Carex livida Comarum palustre	20 5 5 5 20 117		FACW OBL OBL	% Bare Ground  Total Cover of Bryophytes									

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SOIL Sampling Point: SW12\_T99\_02

Profile Descripti			ded to documer	nt the indicator or co			ators)				
Depth	M	latrix	——	Re	dox Featu						
(inches)	Color (moi	st)	<u> </u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-1								Fibric Organics			
1-10								Fine Gravels			
10-18								Coarse Sand			
-					-						
				-							
<sup>1</sup> Type: C=Cor	ncentration. D=	Depletion. I		Matrix <sup>2</sup> Location				nnel. M=Matrix			
Hydric Soil Indicators: Indicators for Problematic Hydric Soils.						oils: <sup>3</sup>					
Histosol or Histel (A1)			Ĺ	Alaska Color C	hange (TA4	1)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)		L	Alaska Alpine swales (TA5) Underlying Layer							
Hydrogen	Sulfide (A4)		L	☐ Alaska Redox With 2.5Y Hue							
☐ Thick Dark	Surface (A12)			3.0					d de		
Alaska Gle	yed (A13)			one indicator of and an appropria				nary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)					•	•				
Alaska Gle	eyed Pores (A15	)		<sup>4</sup> 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):										
alluvial soils at	inlet to stephan	lake. sand	s/gravels, insi	ufficient organics	for redox fe	eatures to d	evelop.				
HYDROLO	GY										
Wetland Hyd		ors:						Secondary India	cators (two or more are required)		
_	tors (any one is							Water Stained Leaves (B9)			
✓ Surface W				☐ Inundation V	/isible on A	erial Imager	v (B7)		atterns (B10)		
✓ High Water Table (A2)				Sparsely Veg		_			hizospheres along Living Roots (C3)		
✓ Saturation (A3)				Marl Deposit			()		f Reduced Iron (C4)		
☐ Water Ma	rks (B1)			Hydrogen Su	. ,	(C1)		Salt Deposi	its (C5)		
	Deposits (B2)			Dry-Season					Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Expla		` '		✓ Geomorphi	ic Position (D2)		
Algal Mat	or Crust (B4)					-,		Shallow Aq	uitard (D3)		
✓ Iron Depo	` ,								raphic Relief (D4)		
Surface S	oil Cracks (B6)							✓ FAC-neutra			
Field Observa	ations:										
Surface Water	r Present?	Yes 💿	No $\bigcirc$	Depth (inche	es): 5						
Water Table P	Present?	Yes	No $\bigcirc$	Depth (inche	es)· 4		Wetlar	nd Hydrology Presen	t? Yes • No O		
Saturation Pre	esent?	Yes •	N-		•						
(includes capi		Yes 🔍	No U	Depth (inche	es): 4						
Describe Recor	ded Data (strea	m gauge, r	nonitor well, a	aerial photos, pre	vious inspe	ction) if ava	ilable:				
Remarks:											
	Remarks: lacustrine fringe emergent wetland ranging from alluvial soils w high water table to shallow water.ssampling near inlet to lake, R3UBH stream w ohv, 6in deep, 15ft at										
bankfull.											

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