## WETLAND DETERMINATION DATA FORM - Alaska Region

Owner: Alaska Energy Authority			Matanusk	a-Susitna Borough Sampling Date: 07-Jul-13							
Alaska Energy Authonity				Sampling Point: SW13_T102_08							
or(s): SLI, SCB	e, hummocks etc.): Hillside										
f (concave, convex, none): hummocky	:	Slope:	%/ 8.5	5 ° Elevation: 690							
· Interior Alaska Mountains	Lat 6	2 701562881	1	Long.: -147.589303255 Datum: NAD83							
		2.10100200		NWI classification: PSS1B							
-		Vaa									
	•			(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ◯							
etation, Soli, or Hydrology	naturally pro	biematic?	(If nee	ded, explain any answers in Remarks.)							
RY OF FINDINGS - Attach site map show	wing sam	pling point	locations	s, transects, important features, etc.							
drophytic Vegetation Present? Yes 💿 No 🔾	)										
	)	ls	the Sam								
	thin a W	Vetland? Yes $ullet$ No $igloodow$									
		age flowing t	hrough.								
. , .			5								
<b>ATION</b> - Use scientific names of plants. Li	st all spec	cies in the	plot.	Dominance Test worksheet:							
	Absolute	Dominant	Indicator	Number of Dominant Species							
				That are OBL, FACW, or FAC:4(A)							
			TACW	Total Number of Dominant							
				Species Across All Strata: (B)							
				Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)							
Total Cover				Prevalence Index worksheet:							
		of Total Cover:	5	Total % Cover of: Multiply by:							
	12.5 20/00			OBL Species $2 \times 1 = 2$							
	15		FAC	FACW Species 38 x 2 = 76							
etula nana											
	10		FAC	FAC Species $43.2 \times 3 = 129.6$							
cea mariana	7		FACW	FACU Species $0 \times 4 = 0$							
cea mariana Ilix pulchra	7		FACW FACW								
cea mariana Ilix pulchra nododendron groenlandicum	7 5 0.1		FACW FACW FAC	FACU Species $0 \times 4 = 0$							
cea mariana Ilix pulchra	7 5 0.1 0.1		FACW FACW	FACU Species0 $x 4 =$ 0UPL Species0 $x 5 =$ 0							
cea mariana Ilix pulchra nododendron groenlandicum	7 5 0.1 0.1 0		FACW FACW FAC	FACU Species $0$ $x 4 = 0$ UPL Species $0$ $x 5 = 0$ Column Totals:83.2(A)207.6Prevalence Index = B/A =2.495							
cea mariana alix pulchra nododendron groenlandicum etula occidentalis	7 5 0.1 0.1 0 0		FACW FACW FAC	FACU Species $0$ $x 4 = 0$ UPL Species $0$ $x 5 = 0$ Column Totals: $83.2$ (A) $207.6$ Prevalence Index = B/A = $2.495$ Hydrophytic Vegetation Indicators:							
cea mariana Ilix pulchra Iododendron groenlandicum Iotula occidentalis	7 5 0.1 0 0 0 0		FACW FACW FAC	FACU Species $0$ x 4 = $0$ UPL Species $0$ x 5 = $0$ Column Totals: 83.2 (A) 207.6 (B) Prevalence Index = B/A = 2.495 Hydrophytic Vegetation Indicators: $\checkmark$ Dominance Test is > 50%							
cea mariana alix pulchra nododendron groenlandicum etula occidentalis	7 5 0.1 0 0 0 0 0		FACW FACW FAC	FACU Species $0$ x 4 = $0$ UPL Species $0$ x 5 = $0$ Column Totals: 83.2 (A) 207.6 (B) Prevalence Index = B/A = 2.495 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is $\leq 3.0$							
cea mariana alix pulchra nododendron groenlandicum etula occidentalis Total Cover	7 5 0.1 0 0 0 0 0 37.2		FACW FACW FAC FAC	FACU Species $0$ $x 4 = 0$ UPL Species $0$ $x 5 = 0$ Column Totals: 83.2 (A) 207.6 (B) Prevalence Index = B/A = 2.495 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is $\leq 3.0$ Morphological Adaptations <sup>1</sup> (Provide supporting data in							
cea mariana alix pulchra nododendron groenlandicum etula occidentalis Total Cover tratum_ 50% of Total Cover:	7 5 0.1 0 0 0 0 0 37.2 18.6 20%	of Total Cover	FACW           FACW           FAC           FAC           FAC	FACU Species $0$ x 4 = $0$ UPL Species $0$ x 5 = $0$ Column Totals: 83.2 (A) 207.6 (B) Prevalence Index = B/A = 2.495 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is < 3.0 Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)							
cea mariana lix pulchra nododendron groenlandicum etula occidentalis Total Cover tratum	7 5 0.1 0 0 0 0 18.6 20%		FACW           FACW           FAC           FAC           FAC           FAC           FAC           FAC           FAC           FAC           FAC           FAC	Intermining the second systemFACU Species $0$ $x 4 =$ $0$ UPL Species $0$ $x 5 =$ $0$ Column Totals:83.2(A)207.6Prevalence Index = B/A =2.495Hydrophytic Vegetation Indicators: $\checkmark$ Dominance Test is > 50% $\checkmark$ Prevalence Index is $\leq 3.0$ $\square$ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) $\square$ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)							
cea mariana alix pulchra nododendron groenlandicum etula occidentalis  Total Cover tratum50% of Total Cover: quisetum arvense arex echinata puicetum sylvaticum	7 5 0.1 0 0 0 0 0 37.2 18.6 20%	of Total Cover	FACW FAC FAC FAC FAC FAC FAC FAC OBL	FACU Species $0$ x 4 = $0$ UPL Species $0$ x 5 = $0$ Column Totals: 83.2 (A) 207.6 (B) Prevalence Index = B/A = 2.495 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is < 3.0 Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)							
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cea mariana lix pulchra nododendron groenlandicum etula occidentalis tratum50% of Total Cover: quisetum arvense arex echinata quisetum sylvaticum ubus chamaemorus alamagrostis canadensis	$ \begin{array}{c} 7\\ 5\\ 0.1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 18.6\\ 20\% \end{array} $	of Total Cover	FACW FAC FAC FAC FAC FAC FAC FAC FAC FAC FAC	FACU Species       0 $x \ 4 =$ 0         UPL Species       0 $x \ 5 =$ 0         Column Totals:       83.2       (A)       207.6       (B)         Prevalence Index = B/A =       2.495         Hydrophytic Vegetation Indicators:         Dominance Test is > 50%         Prevalence Index is <3.0							
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cea mariana	$ \begin{array}{c} 7\\ 5\\ 0.1\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 18.6\\ 20\% \end{array} $	of Total Cover	FACW FAC FAC FAC FAC FAC FAC FAC FAC FAC FAC	FACU Species0 $x \ 4 =$ 0UPL Species0 $x \ 5 =$ 0Column Totals:83.2(A)207.6Prevalence Index = B/A =2.495Hydrophytic Vegetation Indicators: $\checkmark$ Dominance Test is > 50% $\checkmark$ Prevalence Index is $\leq 3.0$ $\square$ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) $\square$ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.Plot size (radius, or length x width)10m% Cover of Wetland Bryophytes							
	etation       , Soil       , or Hydrology       i         etation       , Soil       , or Hydrology       i         RY OF FINDINGS - Attach site map show       drophytic Vegetation Present? Yes       No         dric Soil Present?       Yes       No       C         dric Soil Present?       Yes       No       C         ettand Hydrology Present?       Yes       No       C         ettanted picmar community w small sedge-domi       E       C         ettant	Init Name:	Init Name:	Init Name:							

Profile Description: (Describe to the depth needed to docu Depth Matrix			iment the indicator or confirm the absence of indicators) Redox Features				cators)				
(inches)	Color (moist)		%	Color (moist)		% Type <sup>1</sup>	Loc 2	Texture	Remarks		
0-8		-							Hemic Organics		
8-10	10YR	3/2	95	7.5YR	3/3	5	С	PL	Silty Clay Loam		
	,								·		
									-		
<sup>1</sup> Type: C=Concer	ntration. D	=Depletion	. RM=Reduc	ed Matrix	<sup>2</sup> Location	: PL=Por	e Lining. R	C=Root Cha	annel. M=Matrix	8	
Hydric Soil Indi	cators:			Indicat	ors for Pr	oblemati	c Hydric S	oils: <sup>3</sup>			
Histosol or His					ka Color Ch		4		Alaska Gleyed Without Hu	ie 5Y or Redder	
✓ Histic Epipedo	• •			Alas	ka Alpine s	wales (TA	5)		Underlying Layer		
Hydrogen Sult				Alas	ka Redox V	/ith 2.5Y I	Hue		Other (Explain in Remark	s)	
Thick Dark Su	Irface (A12	)									
Alaska Gleyed	l (A13)						tic vegetation		mary indicator of wetland hy esent	ydrology,	
Alaska Redox	(A14)						-	-			
Alaska Gleyed	l Pores (A1	5)		4 Give d	letails of co	olor chang	e in Remarl	KS			
Restrictive Layer (i	if present):										
Type: frozen									Hydric Soil Present?	Yes 🔍 No 🔾	
Depth (inches)	): 10										
Remarks:											
HYDROLOG									Cosondara India	ators (two or more are required)	
Primary Indicators			t)							ned Leaves (B9)	
Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)				erv (B7)	Drainage Patterns (B10)		
High Water T	Sparsely Vegetated Concave Surface (B8)						nizospheres along Living Roots (C3)				
Saturation (A											
Water Marks									ts (C5)		
Sediment Dep	ent Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1)								Stressed Plants (D1)		
Drift Deposits										c Position (D2)	
Algal Mat or (									Shallow Aq		
Iron Deposits	• •								_	raphic Relief (D4)	
Surface Soil C	. ,	)							✓ FAC-neutral	l Test (D5)	
Field Observatio				_							
Surface Water Pre		_	No	De	epth (inche	s): 4				$\sim$	
Water Table Pres		Yes 🤇	🔾 No 🖲	De	epth (inche	s):		Wetla	nd Hydrology Present	t? Yes 🖲 No 🔾	
Saturation Presen (includes capillary		Yes 🤇	No O	De	epth (inche	s): 7					
Describe Recorded	l Data (stre	am gauge	, monitor we	ell, aerial p	hotos, prev	ious inspe	ection) if av	ailable:			

Remarks:

drainageway, toeslope. standing/flowing water through sedges. soil pit, saturation, and depth to frozen soils from picmar hummock adjacent to wet sedge drainage.