WETLAND DETERMINATION DATA FORM - Alaska Region

· · · ·	Borough/City:	Matanuska-Susitna Borough Sampling D	oate: 04-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T150_10
Investigator(s): SLI, EAC	Landform (hills	side, terrace, hummocks etc.): Knob	
Local relief (concave, convex, none): hummocky	Slope: 3.5	% / 2.0 ° Elevation: 759	
Subregion : Interior Alaska Mountains	at.: 63.331189871	Long.: -148.27896893	Datum: WGS84
Soil Map Unit Name:		NWI classification: U	pland
	f year? Yes ' icantly disturbed? ally problematic?	(Yes No O
SUMMARY OF FINDINGS - Attach site map showing			,

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ● Yes ○ Yes ○	Is the Sampled Area within a Wetland?	Yes \bigcirc No $oldsymbol{igodol}$
Remarks:			

VEGETATION - Use scientific names of plants. List all species in the plot.

			۵hs	olute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum			Cover	Species?	Status	Number of Dominant Species
1.	Picea glauca			7	\checkmark	FACU	That are OBL, FACW, or FAC: (A)
2.			_	0		-	Total Number of Dominant Species Across All Strata: 5 (B)
3.				0			
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)
5.			-	0			
		Total Cove	- r:	7			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sar	ling/Shrub Stratum	50% of Total Cover:			of Total Cover:	1.4	
<u>. 5a</u>	mg/Shub Stratum		5.5	0 / 0			
1.	Picea glauca		_	1		FACU	FACW Species 7 $x^2 = 14$
2.	Betula glandulosa		_	45	\checkmark	FAC	FAC Species <u>118.1</u> x 3 = <u>354.3</u>
3.	Vaccinium uliginosum		_	50	\checkmark	FAC	FACU Species <u>8</u> x 4 = <u>32</u>
4.	Vaccinium vitis-idaea		_	5		FAC	UPL Species x 5 =
5.	Empetrum nigrum		_	10		FAC	Column Totals: 133.1 (A) 400.3 (B)
6.	Ledum decumbens		_	7		FACW	
7.				0			Prevalence Index = B/A = <u>3.008</u>
				0			Hydrophytic Vegetation Indicators:
				0			✓ Dominance Test is > 50%
				0			□ Prevalence Index is ≤3.0
		Total Cove		118			Morphological Adaptations ¹ (Provide supporting data in
Herb Stratum 50% of Total Cover:			59	20%	of Total Cover:	23.6	Remarks or on a separate sheet)
1.	Carex bigelowii			5	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Correiro			3	\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	East an allelan		_	0.1		FAC	be present, unless disturbed or problematic.
4.	-			0			
				0			Plot size (radius, or length x width) <u>10m</u>
				0			% Cover of Wetland Bryophytes (Where applicable)
				0			% Bare Ground
				0			Total Cover of Bryophytes 30
				0			
				0			Hydrophytic
		Total Cove		8.1			Vegetation
		50% of Total Cover:			of Total Cover:	1.62	Present? Yes • No
Ren	arks: 50% lichen cover						•

SOIL

Profile Descripti Depth	on: (Describe to	the depth n Matrix	eeded to doo	ument the in		nfirm the ab		cators)	_			
(inches) Color (moist) %		Color (n	noist)	%	Type ¹	Loc 2	Texture	R	emarks			
0-3	2.5YR	2.5/2	100						fibric organics			
3-7	10YR	4/2	100					-	Fine Sandy Clay Loam	-		
7-16	10YR	4/2	75	2.5YR	4/3	20	C	M	Fine Sandy Loam	incipient spodosol?		
+mottle				2.5YR	4/4	5	С	М				
					-				- ,	-		
1					2							
Type: C=Cor	centration. D=	=Depletion	. RM=Redi				-		annel. M=Matrix			
Hydric Soil II	ndicators:			Indicat	ors for Pr	oblemati	c Hydric S	oils: ³	_			
Histosol or	Histel (A1)				ka Color Ch	• •	,		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip					ka Alpine s	-	-	Г	Underlying Layer			
	Sulfide (A4)				ka Redox V	Vith 2.5Y F	lue	L	Other (Explain in Remar	KS)		
_	Surface (A12))		³ One i	ndicator of	hydrophyt	ic vegetatio	on, one prii	mary indicator of wetland I	ydrology,		
Alaska Gle							e position			, 5,,		
Alaska Rec	yed Pores (A14)	5)		⁴ Give	details of co	olor chang	e in Remarl	ks				
	· · · ·	5)										
Restrictive Laye	er (if present):								Undria Cail Present	? Yes 🔿	No 🖲	
Type: Depth (inch	nec).								Hydric Soil Present	if tes \bigcirc	NO S	
HYDROLO	GY											
Wetland Hydi									Secondary Ind	cators (two or mo	re are required)	
Primary Indica		is sufficien	t)							ined Leaves (B9)		
Surface W					Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10) Ovidiaad Bhizaenharas along Living Boots (C2)			
	er Table (A2)		Sparsely Vegetated Concave Surface (B8) Marl Deposits (B15)					Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)				
Saturation	. ,				drogen Su	. ,	(C1)		\square Presence of Reduced Iron (C4) \square Salt Deposits (C5)			
	Deposits (B2)				y-Season V		. ,			Stressed Plants (D1)	
Drift Depo	,				her (Explai				_	ic Position (D2)		
	or Crust (B4)				, c r		- /		Shallow A	quitard (D3)		
Iron Deposits (B5) Microtopographic Relief (D4))			
Surface So	oil Cracks (B6)								FAC-neutra	al Test (D5)		
Field Observa	ations:											
Surface Water	Present?) No 🖲		epth (inche	s):						
Water Table P	Present?	Yes 🤇) No 🖲	De	epth (inche	s):		Wetla	nd Hydrology Preser	t? Yes \bigcirc	No 🖲	
Saturation Pre (includes capil		Yes C	No 🖲	De	epth (inche	s):						
Describe Record		am gauge	, monitor v	vell, aerial p	hotos, prev	/ious inspe	ection) if av	ailable:				
		550		, F	, r	- 1	,					
Remarks:												

no wetland hydrology indicators