## WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner: Alaska Energy Authority  Investigator(s): SLI, SCB  Local relief (concave, convex, none): concave  Subregion: Cook Inlet Mountains  Lat.:  Sampling Point: SW15_T320  Sw15_T320  Sw15_T320  Landform (hillside, terrace, hummocks etc.): Kettle  Local relief (concave, convex, none): concave  Slope: 0.0 % / 0.0 ° Elevation:  Datum: WG	_07									
Investigator(s): SLI, SCB Landform (hillside, terrace, hummocks etc.): Kettle  Local relief (concave, convex, none): concave Slope: 0.0 % / 0.0 ° Elevation:										
Local relief (concave, convex, none): concave Slope: 0.0 % / 0.0 ° Elevation:										
Subregion: Cook Inlet Mountains	S84									
	004									
Soil Map Unit Name: NWI classification: PEM1B										
Are climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation , Soil , or Hydrology significantly disturbed?  Are Vegetation , Soil , or Hydrology naturally problematic?  Are Vegetation , Soil , or Hydrology naturally problematic?  Are Vegetation Are "Normal Circumstances" present? Yes No Survey No Surv	)									
Hydrophytic Vegetation Present? Yes ◉ No ○										
Hydric Soil Present? Yes   No   Is the Sampled Area										
Wetland Hydrology Present? Yes No Within a Wetland? Yes No No										
Remarks: bluejoint over organic soils. see SW15_T320_08 for small pond visible in imagery.										
VEGETATION - Use scientific names of plants. List all species in the plot.  Absolute Dominant Indicator Species? Status Dominant Species  Number of Dominant Species										
1. That are OBL, FACW, or FAC: 3	(A)									
Total Number of Dominant	(D)									
3 Species Across All Strate.	(B)									
4. Percent of dominant Species That Are OBL, FACW, or FAC: 100.0%	(A/B)									
5 Prevalence Index worksheet:										
Total Cover: _ 0 Total % Cover of: Multiply by:										
Sapling/Shrub Stratum  50% of Total Cover: 0 OBL Species 27.1 x 1 = 27.1										
1. Alnus viridis ssp. crispa 3 FAC FACW Species 0.1 x 2 = 0.200										
2. Salix alaxensis         1         FAC         FAC Species         55.1         x 3 =         165.3										
3. Betula glandulosa 1 FACU Species 0.1 x 4 = 0.400										
4. Betula neoalaskana										
5. Salix commutata O.1 FAC Column Totals: 82.4 (A) 193	(B)									
6. Salix fuscescens										
7. Prevalence Index = B/A = 2.342										
8 O Hydrophytic Vegetation Indicators:										
9										
10 0										
Total Cover:5.3 Morphological Adaptations (Provide supporting data										
1. Calamagrostis canadensis 50 FAC Problematic Hydrophytic Vegetation (Explain)										
2. Eriophorum angustifolium 20 OBL <sup>1</sup> Indicators of hydric soil and wetland hydrology must										
3. Carex utriculata 5 OBL be present, unless disturbed or problematic.										
4. Carex aquatilis  2  OBL Plot size (radius, or length x width) 10m										
5. Comarum palustre OBL OBL % Cover of Wetland Bryophytes	_									
6 (Where applicable)	_									
7	_									
8 Total Cover of Bryophytes	_									
9										
10 O Hydrophytic										
Total Cover: 77.1 Vegetation  50% of Total Cover: 38.55 20% of Total Cover: 15.42 Present? Yes No										
<u> </u>										

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SOIL Sampling Point: SW15\_T320\_07

Matrix				document the indicator or confirm the absence of indicators)  Redox Features							
Depth (inches) Color (moist)			%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	- Texture	Remarks		
0-16		Jiscy	100	color (moise)		Турс	LUC	Mucky Peat			
16-20	10YR	4/4	100					Fine Sand	with hoovy organic content		
					-			The Sand	with heavy organic content		
								-			
								-			
<sup>1</sup> Type: C=Cor	<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	Hydric Soil Indicators: Indicators for Problematic Hydric Soils: <sup>3</sup>										
✓ Histosol or Histel (A1)			[	☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder							
Histic Epip	edon (A2)		[	Alaska Alpine swales (TA5) Underlying Layer							
Hydrogen	Sulfide (A4)		[	Alaska Redox \	Alaska Redox With 2.5Y Hue Other (Explain in Remarks)						
☐ Thick Dark	Surface (A12	)									
Alaska Gle	yed (A13)							nary indicator of wetland h	ydrology,		
Alaska Red				and an appropria	te ianusca <sub>l</sub>	e position i	nust be pre	esent			
Alaska Gle	yed Pores (A1	5)		<sup>4</sup> Give details of c	olor chang	e in Remark	S				
Restrictive Laye	er (if present):										
Type:								<b>Hydric Soil Present</b>	? Yes • No O		
Depth (inch	nes):										
Remarks:											
HYDROLO	GY										
Wetland Hydi	rology Indica	ators:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one	is sufficient						Water Stained Leaves (B9)			
Surface W	/ater (A1)			☐ Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10)			
✓ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized Rhizospheres along Living Roots (C3)			
✓ Saturation (A3)				Marl Deposits (B15)				Presence of Reduced Iron (C4)			
Water Marks (B1)				Hydrogen Sulfide Odor (C1)				Salt Deposits (C5)			
	Sediment Deposits (B2)  Dry-Season Water Table (C2)								Stressed Plants (D1)		
☐ Drift Depo	☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)							<b>✓</b> Geomorph	ic Position (D2)		
Algal Mat	Algal Mat or Crust (B4)  Shallow Aquitard (D3)								juitard (D3)		
☐ Iron Depo	sits (B5)								graphic Relief (D4)		
Surface So	oil Cracks (B6)	)						<b>✓</b> FAC-neutra			
Field Observa	ations:										
Surface Water	Present?	Yes $\bigcirc$	No 💿	Depth (inche	es):						
Water Table P	resent?	Yes 💿	No O	Donth (inch	20/1 0		Wetla	nd Hydrology Presen	t? Yes • No O		
Saturation Pre				Depth (inche	,			,	100 - 110 -		
(includes capi		Yes •	No O	Depth (inche	es): 6						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Domarke:											
Remarks:											
D2kettle	DZ=_VC(IIC										

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