## WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner:       Alaska Energy Authority       Sampling Point:       SW13_T109         Investigator(s):       JGK       Landform (hillside, terrace, hummocks etc.):       Bench         Local relief (concave, convex, none):       hummocky       Slope:       % / 3.0 °       Elevation:       697         Subregion :       Interior Alaska Mountains       Lat:       62.8716891722       Long::       -148.277403603       Datum:       NA         Soil Map Unit Name:       NWI classification:       Upland         Are vegetation       , Soil       , or Hydrology       significantly disturbed?       Are "Normal Circumstances" present?       Yes • No        No          SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.       Hydrophytic Vegetation Present?       Yes • No •       Is the Sampled Area within a Wetland?       Yes • No •       Is the Sampled Area within a Wetland?       No •         VEGETATION - Use scientific names of plants. List all species in the plot.       Is the plant.       Dominant Indicator Provide Commant Species That are OBL, FACW, or FAC:	083
Local relief (concave, convex, none):       hummocky       Slope:       % / 3.0 °       Elevation:       697         Subregion :       Interior Alaska Mountains       Lat:       62.8716891722       Long::       -148.277405603       Datum:       NA         Soil Map Unit Name:       NWI classification:       Upland         Are vegetation       , Soil       , or Hydrology       significantly disturbed?       Are "Normal Circumstances" present?       Yes ●       No          Are Vegetation       , Soil       , or Hydrology       naturally problematic?       (If no, explain in Remarks.)         SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.       Hydrophytic Vegetation Present?       Yes ●       No ●         Hydrophytic Vegetation Present?       Yes ●       No ●       Is the Sampled Area within a Wetland?       Yes ●       No ●         Wetland Hydrology Present?       Yes ●       No ●       Is the Sampled Area within a Wetland?       Yes ●       No ●         1       Picea glauca       1	)
Subregion :       Interior Alaska Mountains       Lat::       62.8716891722       Long::       -148.277405603       Datum::       NA         Soil Map Unit Name:       NWI classification:       Upland         Are climatic/hydrologic conditions on the site typical for this time of year?       Yes • No • (If no, explain in Remarks.)         Are Vegetation       , Soil • , or Hydrology • significantly disturbed?       Are "Normal Circumstances" present? Yes • No •         Are Vegetation       , Soil • , or Hydrology • naturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.         Hydrophytic Vegetation Present?       Yes • No •         Hydrophytic Vegetation Present?       Yes • No •         Wettand Hydrology Present?       Yes • No •         VEGETATION - Use scientific names of plants. List all species in the plot.         Tree Stratum       1         1.       Picea glauca         2.       0         3.       0         4.       0         5.       0         6.       0         7       Percent of dominant Species         7       0         8       0         9       0 <t< td=""><td>)</td></t<>	)
Subregion :       Interior Alaska Mountains       Lat::       62.8716891722       Long::       -148.277405603       Datum::       NA         Soil Map Unit Name:       NWI classification:       Upland         Are climatic/hydrologic conditions on the site typical for this time of year?       Yes • No • (If no, explain in Remarks.)         Are Vegetation       , Soil • , or Hydrology • significantly disturbed?       Are "Normal Circumstances" present? Yes • No •         Are Vegetation       , Soil • , or Hydrology • naturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.         Hydrophytic Vegetation Present?       Yes • No •         Hydrophytic Vegetation Present?       Yes • No •         Wettand Hydrology Present?       Yes • No •         VEGETATION - Use scientific names of plants. List all species in the plot.         Tree Stratum       1         1.       Picea glauca         2.       0         3.       0         4.       0         5.       0         6.       0         7       Percent of dominant Species         7       0         8       0         9       0 <t< td=""><td>)</td></t<>	)
Soil Map Unit Name: NWI classification: Upland   Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No (If no, explain in Remarks.)   Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes  No   Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)   SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.   Hydrophytic Vegetation Present? Yes  No   Hydrophytic Vegetation Present? Yes  No   Wetland Hydrology Present? Yes  No   Wetland Hydrology Present? Yes  No   Wetland Hydrology Present? Yes  No   Yes Status Indicator   Memarks: No   1. Picea glauca 1   2. 0   3. 0   4. 0   5. 0   Wetland Species   That are OBL, FACW, or FAC:   1. Picea glauca   2.   3.   4.   5.   0 <t< td=""><td>)</td></t<>	)
Are climatic/hydrologic conditions on the site typical for this time of year?       Yes       No       (If no, explain in Remarks.)         Are Vegetation       , Soil       , or Hydrology       significantly disturbed?       Are "Normal Circumstances" present?       Yes       No         Are Vegetation       , Soil       , or Hydrology       naturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.         Hydrophytic Vegetation Present?       Yes       No         Hydrophytic Vegetation Present?       Yes       No         Hydrophytic Vegetation Present?       Yes       No         Wetland Hydrology Present?       Yes       No         VEGETATION - Use scientific names of plants. List all species in the plot.         Yes       Mo       Pominant         1.       Picea glauca       1       FACU         2.       0       1       FACU         3.       0       1       FACU       Total Number of Dominant Species         3.       0       1       FACU       Total Number of Dominant Species         5.       0       1       FACW, or FAC:       100.0%         5.       Total Number of Dominant Species       <	
Are Vegetation       , Soil       , or Hydrology       significantly disturbed?       Are "Normal Circumstances" present? Yes       No (         Are Vegetation       , Soil       , or Hydrology       naturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.         Hydrophytic Vegetation Present?       Yes       No (         Hydrology Present?       Yes       No (         Wetland Hydrology Present?       Yes       No (         Wetland Hydrology Present?       Yes       No (         Remarks: moose scat and browse on one willow. Robin, junco, fox sparrow singing.       Is the sampled Area within a Wetland?       No (         VEGETATION - Use scientific names of plants. List all species in the plot.       Dominant Species?       Status Status       Number of Dominant Species That are OBL, FACW, or FAC:	
Hydric Soil Present?       Yes       No       Is the Sampled Area within a Wetland?         Wetland Hydrology Present?       Yes       No       within a Wetland?       Yes       No       Is the Sampled Area within a Wetland?         Remarks: moose scat and browse on one willow. Robin, junco, fox sparrow singing.       Remarks: moose scat and browse on one willow. Robin, junco, fox sparrow singing.         VEGETATION - Use scientific names of plants. List all species in the plot.       Dominant Indicator % Cover       Dominant Species?       Status       Dominant Species       That are OBL, FACW, or FAC:       3         1.       Picea glauca       1       FACU       FACU       Total Number of Dominant Species       Total Number of Dominant Species       3         3.       0       0       0       1       Percent of dominant Species       3         4.       0       0       1       1       Percent of dominant Species       1 <td< td=""><td>(A)</td></td<>	(A)
Hydric Soil Present?       Yes       No       within a Wetland?       Yes       No       No         Wetland Hydrology Present?       Yes       No       Image: Solid Stress	(A)
Wetland Hydrology Present?       Yes       No       within a Wetland?       Yes       No         Remarks: moose scat and browse on one willow. Robin, junco, fox sparrow singing.         VEGETATION - Use scientific names of plants. List all species in the plot.         Tree Stratum       Absolute       Dominant       Indicator       Number of Dominant Species         1.       Picea glauca       1       FACU       Number of Dominant Species       Total Number of Dominant Species         2.       0       1       FACU       Total Number of Dominant Species       Total Number of Dominant Species         3.       0       0       0       0       Percent of dominant Species       3         4.       0       0       0       Prevalence Index worksheet:       100.0%         Total Summe	(A)
Remarks: moose scat and browse on one willow. Robin, junco, fox sparrow singing.         VEGETATION - Use scientific names of plants. List all species in the plot.         Image: model of the species of plants of plants. List all species in the plot.       Dominant Indicator       Dominance Test worksheet:       Number of Dominant Species         1       Picea glauca       1       FACU       Number of Dominant Species       That are OBL, FACW, or FAC:       3         2.       0       -       -       FACU       Total Number of Dominant Species       -         3.       0       -       -       -       -       -       -       -         4.       0       -	(A)
Tree Stratum       Absolute % Cover       Dominant Species?       Indicator Status       Dominance Test worksheet:       Number of Dominant Species         1. Picea glauca       1	(A)
1. Picea glauca       1       FACU       That are OBL, FACW, or FAC:       3         2.       0       1       Total Number of Dominant       Species Across All Strata:       3         3.       0       0       Percent of dominant Species       1       100.0%         4.       0       0       Percent of dominant Species       100.0%         5.       0       0       Prevalence Index worksheet:	(A)
2.       0       Image: Constraint of the system of	
3.       0	(B)
4.       0       Image: Constraint of the constraint	Ю
5 0 Prevalence Index worksheet:	(A/B)
Prevalence Index worksheet:	
Sapling/Shrub Stratum 50% of Total Cover: 0.5 20% of Total Cover: 0.2 OBL Species 0 x 1 = 0	
5. Betula glandulosa <u>10</u> <u>FAC</u> Column Totals: <u>128</u> (A) <u>370</u>	(B)
6. <u>Rhododendron groenlandicum</u> 2 FAC Prevalence Index = B/A = 2.891	
8 0 Hydrophytic Vegetation Indicators:	
9 0 □ □ □ Dominance Test is > 50%	
10.	
Total Cover:       122       Morphological Adaptations <sup>1</sup> (Provide supporting de Remarks or on a separate sheet)         Herb Stratum       50% of Total Cover:       61       20% of Total Cover:       24.4	ta in
1. Cornus suecica     5     FAC     Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2 0 <sup>1</sup> Indicators of hydric soil and wetland hydrology must	
3 0 be present, unless disturbed or problematic.	
4 Plot size (radius, or length x width)	_
5 0 U V Cover of Wetland Bryophytes 0	_
6 (Where applicable)	-
7.         0         % Bare Ground         5	-
8 0 Total Cover of Bryophytes	-
10 0 Hydrophytic	
Total Cover:5Vegetation50% of Total Cover:2.520% of Total Cover:1Present?Yes No	
Remarks:     Trace salix. total tree cover <5% thus no dominant tree species.	

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Profile Description	ion: (Describe to	o the depth n <b>Matrix</b>	eeded to docu	ument the indicator or cor	onfirm the absence of i dox Features	indicators)			
Depth (inches)	Color (moist)		%	Color (moist)		1 <u>Loc</u> 2	Texture	Remarks	
0-2		UISC/			/0 1100		Fibric Organics	Fibric Organics	
2-3.5								ASH/CHARCOAL LAYER	
3.5-5	2.5YR	2.5/3	100		- , ,		Coarse Loamy Sand	. <u> </u>	
5-6.5	10YR	4/6	100				Fine Sandy Loam		
6.5-8	10YR	2/2	100				Fine Sandy Loam		
8-11	5YR	4/6	100				Coarse Loamy Sand		
		4/0					Coarse Sand		
11-16								with some small angular gravel	
<sup>1</sup> Type: C=Cor	ncentration. D	=Depletior	ı. RM=Redu	ced Matrix <sup>2</sup> Locatior	n: PL=Pore Lining	. RC=Root Cha	annel. M=Matrix		
Hydric Soil Ir	ndicators:			Indicators for Pr	oblematic Hydri	c Soils: <sup>3</sup>			
Histosol or Histel (A1) Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder									
Histic Epip	. ,			Alaska Alpine s		_	Underlying Layer		
Hydrogen Sulfide (A4)       Alaska Redox With 2.5Y Hue       Other (Explain in Remarks)									
Thick Dark Surface (A12)									
Alaska Gleyed (A13) <sup>3</sup> One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present									
Alaska Redox (A14)									
Alaska Gleyed Pores (A15)									
Restrictive Layer (if present):									
Type: Hydric Soil Present? Yes O No 🖲									
Depth (inches):									
Remarks:									
no hydic soil indicators									
HYDROLO	<u>cv</u>								
Wetland Hydr	-	ators;					Secondary Indi	cators (two or more are required)	
Primary Indicat			1t)				Water Stained Leaves (B9)		
Surface W	/ater (A1)			Inundation V	Inundation Visible on Aerial Imagery (B7)			Drainage Patterns (B10)	
High Wate	er Table (A2)				Sparsely Vegetated Concave Surface (B8)			Oxidized Rhizospheres along Living Roots (C3)	
Saturation	. ,			Marl Deposite	. ,			of Reduced Iron (C4)	
Water Mar	Water Marks (B1)				Hydrogen Sulfide Odor (C1)			Salt Deposits (C5)	
Sediment	Deposits (B2)	)		Dry-Season V	Dry-Season Water Table (C2)			Stunted or Stressed Plants (D1)	
Drift Depo	Drift Deposits (B3)						Geomorphic Position (D2)		
Algal Mat	Algal Mat or Crust (B4)						Shallow Aquitard (D3)		
Iron Depo	Iron Deposits (B5)						Microtopographic Relief (D4)		
Surface Soil Cracks (B6)									
Field Observa	ations:	C							
Surface Water	r Present?		No 🔍	Depth (inche	es):				
Water Table P	Present?	Yes	) No 🖲	Depth (inche	±s):	Wetla	nd Hydrology Presen	it? Yes 🔾 No 🖲	
Saturation Pre (includes capil		Yes 🤇	No 🖲	Depth (inche	±s):				
Describe Record	ded Data (stre	eam gauge	, monitor w	ell, aerial photos, prev	vious inspection) if	available:			

Remarks:

no wetland hydrology indicators