WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner: Alaska Energy Authority									
Landform (hillside, terrace, hummocks etc.): Shoulder slope									
Local relief (concave, convex, none): convex Slope: 12.2 % / 7.0 ° Elevation: 760									
Subregion: Interior Alaska Mountains Lat: 62.794453621 Long: -147.885034323 Datum: WGS84 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 attractive disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology attractive disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Present? Yes No Within a Wetland Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No Yes No Yes Species? Yes Yes No Yes No Yes Species? Yes Yes No Yes No Yes Yes No Yes Yes No Yes Yes Yes No Yes Yes No Yes Yes Yes No Yes Yes No Yes Yes Yes No Yes Yes Yes No Yes No Yes Yes No Yes Yes No Yes No Yes Yes No Y									
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation									
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 a 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 Welland Hydrology Present? Yes No Welland? Yes No									
Are Vegetation									
Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No No									
Wetland Hydrology Present? Yes No Within a Wetland? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Wetland? Yes No Wetland Hydrology Present? No Wetland? Yes No Within a Wetland									
Remarks: shoulder of knob, many caribou and moose trails, fnwws, moose scat, mineral cored mounds VEGETATION - Use scientific names of plants. List all species in the plot. Tree Stratum 1. Picea glauca 2.									
VEGETATION - Use scientific names of plants. List all species in the plot. Absolute									
Tree Stratum % Cover Species? Status Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) 1. Picea glauca 15 ✓ FACU Total Number of Dominant Species Across All Strata: 6 (B) 3									
1. Picea glauca 2.									
2. 0 Species Across All Strata: 6 (B) 3. 0 Percent of dominant Species 4. 0 That Are OBL, FACW, or FAC: 66.7% (A/B)									
4. 0 Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)									
0									
Prevalence Index worksheet:									
Total Cover: 15 Total % Cover of: Multiply by:									
Sapling/Shrub Stratum 50% of Total Cover: 7.5 20% of Total Cover: 3 OBL Species 0 x 1 = 0									
1. Picea glauca 2 FACW Species 30 x 2 = 60									
2. Betula glandulosa 50 ✓ FAC Species 156 x 3 = 468									
3. Ledum groenlandicum 20 FACU Species 30 x 4 = 120									
4. Vaccinium uliginosum 30 V FAC UPL Species 0 x 5 = 0									
5. Vaccinium vitis-idaea									
6. Empetrum nigrum 20 FAC									
7. Ledum decumbens 30 FACW Prevalence Index = B/A = 3.000									
8. Salix glauca									
9. Betula occidentalis									
10. Dasiphora fruticosa 3 FAC Prevalence Index is ≤3.0									
Total Cover: 168 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)									
1. Diphasiastrum alpinum 1 FACU Problematic Hydrophytic Vegetation (Explain)									
2. Cornus suecica									
3. Cornus canadensis 10 FACU be present, unless disturbed or problematic.									
4. Festuca altaica									
5. Saussurea angustifolia 1 FAC % Cover of Wetland Bryophytes									
6. Calamagrostis canadensis 1 FAC (Where applicable)									
7. Equisetum arvense 2 FAC % Bare Ground 1									
8. Chamerion angustifolium 1 FACU Total Cover of Bryophytes 65									
9. Mertensia paniculata 10 10 11 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18									
nydrophytic									
Total Cover: 33 Vegetation 50% of Total Cover: 16.5 20% of Total Cover: 6.6 Present? Yes No									
Remarks: kichf 10, hylspl 30, rosaci 1, salpul 2. about half betgla is ts.									

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SOIL Sampling Point: SW13_T181_01

									10 51715_1151_51	
Profile Descript	ion: (Describe to	the depth ne Matrix	eded to docu	ment the indicator or co			ators)			
Depth (inches)	Depth				lox Features		. 2		Remarks	
	Color (m	oist)	<u>%</u> _	Color (moist)	<u>%</u>	Type ¹	_Loc_2	Fibric Organics	Remarks	
0-5			100							
5-8	-		100		_			Hemic Organics	w charcoal and ash. bunrned!	
8-19	10YR	3/3	95					Sand	inclsns of 7.5yr 2.5/3 sandy loam and gravel	
¹Type: C=Coi	ncentration. D	=Depletion.	RM=Reduc	ced Matrix ² Locatio	n: PL=Poi	re Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil I	ndicators:			Indicators for P	roblemati	ic Hydric So	oils: ³			
Histosol o	r Histel (A1)			Alaska Color C	Alaska Color Change (TA4)				Alaska Gleyed Without Hue 5Y or Redder	
Histic Epipedon (A2)				Alaska Alpine swales (TA5)				Underlying Layer		
Hydrogen	Sulfide (A4)			Alaska Redox	Alaska Redox With 2.5Y Hue Other (Explain in Remarks)					
☐ Thick Darl	k Surface (A12	2)		• • • • •						
Alaska Gle	eyed (A13)			One indicator of and an appropria	hydrophy te landsca	tic vegetatio ne position r	n, one prin	nary indicator of wetland h	ydrology,	
Alaska Redox (A15) Alaska Redox (A14) Alaska Redox (A15) 4 Give details of color change in Remarks										
Alaska Gle	eyed Pores (A1	15)		4 Give details of o	olor chang	je in Remark	S			
Restrictive Laye	er (if present)	:								
Type:				Hy				Hydric Soil Present	? Yes ○ No •	
Depth (incl	nes):							•		
Remarks:							I			
	2 as soils are	not saturate	ed. cannot ir	nfer saturation from	secondary	indicators.				
			,		,					
HYDROLO										
Wetland Hyd									cators (two or more are required)	
Primary Indicators (any one is sufficient)								Water Stained Leaves (B9)		
Surface Water (A1)				☐ Inundation Visible on Aerial Imagery (B7)				☐ Drainage Patterns (B10)		
☐ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)					hizospheres along Living Roots (C3)	
Saturation (A3)				Marl Deposits (B15)					f Reduced Iron (C4)	
☐ Water Ma		☐ Hydrogen Sulfide Odor (C1)☐ Dry-Season Water Table (C2)☐ Dry-Season Water Table (C2)☐ Hydrogen Sulface (C2)☐ Hy			☐ Salt Depos					
						. ,			Stressed Plants (D1)	
	Drift Deposits (B3) Uther (Explain in Remarks)								ic Position (D2)	
	or Crust (B4)								juitard (D3)	
Iron Depo		`							graphic Relief (D4)	
	oil Cracks (B6)					1	☐ FAC-neutra	Il Test (D5)	
Field Observa Surface Wate		Vec	No •	Donth (inch	20/1					
				Depth (inche	es):					
Water Table F			No •	Depth (inche	es):		Wetiai	nd Hydrology Presen	t? Yes O No 🖲	
Saturation Pro (includes capi		Yes C	No 💿	Depth (inche	es):					
		eam dalide	monitor we	ell, aerial photos, pre	vious insn	ection) if ava	ilahle:			
Describe Recor	ucu Data (str	cam gauge,	moment we	sii, aeriai priotos, pre	vious irispi	ection) ii ave	illable.			
Remarks:										
no wetland hyd	drology indicat	tors								
110 Wedana nyo	arology mulcal	.013								

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