WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner: Alaska Energy Authority
Landform (hillside, terrace, hummocks etc.): concave backslope
Local relief (concave, convex, none): concave Slope: 8.7 % / 5.0 ° Elevation: Subregion: Interior Alaska Mountains Lat:: Long:: Datum: WGS8/Solit Map Unit Name: Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation
Subregion: Interior Alaska Mountains Lat: Long.: Datum: WGS8/Soli Map Unit Name: 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 Sempled Area within a Wetland? Yes Sempled Area within a Wetland
Soil Map Unit Name: 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 aignificantly 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 Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Remarks: seep. VEGETATION - Use scientific names of plants. List all species in the plot. Tree Stratum
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 Useful Present? Yes No No Within a Wetland? Yes No Wetland Hydrology Present? Yes No No Within a Wetland? Yes No
Are Vegetation
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present?
Hydrophytic Vegetation Present? Yes No Set N
Hydric Soil Present? Wetland Hydrology Present? Yes No No within a Wetland? Remarks: seep. WEGETATION - Use scientific names of plants. List all species in the plot. Tree Stratum
Wetland Hydrology Present? Yes No Within a Wetland? Yes No
Wetland Hydrology Present? Yes No Within a Wetland? Yes No Within a Wetland? Yes No Wetland Hydrology Present? No Wetland Hydrology Present? No Wetland? Yes No Within a We
Remarks: seep. VEGETATION - Use scientific names of plants. List all species in the plot. Tree Stratum 1. Picea mariana 2. Picea glauca 3. 0 Dominant Species in the plot. Dominant Species Status Indicator Status Number of Dominant Species That are OBL, FACW, or FAC: 7 (A) Total Number of Dominant Species That are OBL, FACW, or FAC: 7 (B) Percent of dominant Species
VEGETATION - Use scientific names of plants. List all species in the plot. Tree Stratum
Tree StratumAbsolute % Cover Species?Dominant Species StatusNumber of Dominant Species That are OBL, FACW, or FAC:7(A)1. Picea mariana25✓FACWTotal Number of Dominant Species That are OBL, FACW, or FAC:7(A)2. Picea glauca5□FACUTotal Number of Dominant Species Across All Strata:7(B)3. □0□Percent of dominant Species
1. Picea mariana 25 FACW 2. Picea glauca 3. □ 0 □ Percent of dominant Species That are OBL, FACW, or FAC: 7 (A) Total Number of Dominant Species Across All Strata: 7 (B) Percent of dominant Species
2. Picea glauca 5 Total Number of Dominant Species Across All Strata: 7 (B) 3. 0 Percent of dominant Species
3 Percent of dominant Species
Percent of dominant Species
4. 0 That Are OBL, FACW, or FAC: 100.0% (A/E
5
Prevalence Index worksheet:
Souther (Should Street up 50% of Total Cover 11 20% of Total Cover 12 20% of Total Cover 13 20% of Total Cover 14 20% of Total Cover 15 20% of Total Cover 16 20% of Total Cover
1. Salix pulchra 15 FACW Species 55 x 2 = 110
2. Alnus viridis ssp. sinuata 15 FAC FAC Species 54 x 3 = 162 FAC Species 54 50 50 50 50 50 50 50 50 50
3. Salix commutata 10 FAC FACU Species 13 x 4 = 52
4. Picea mariana
5. Picea glauca 5 Column Totals: 122 (A) 324
6. Vaccinium uliginosum 7. Phodododos recorded disure 3. FAC Prevalence Index = B/A = 2.656
7. Rilododendron groeniandicum 2 FAC
8. Empetrum nigrum 2
Total Cover: 64 Morphological Adaptations (Provide supporting data in the provided support in the provided sup
1. Rumex arcticus 8 FAC Problematic Hydrophytic Vegetation (Explain)
2. Carex bigelowii 8 FAC 1 Indicators of hydric soil and wetland hydrology must
3. Petasites frigidus 5 be present, unless disturbed or problematic.
4. Calamagrostis canadensis 4 FAC Plot size (radius, or length x width) 10m
5. Equisetum scirpoides 2 FACU % Cover of Wetland Bryophytes
6. Equisetum arvense 1 FAC (Where applicable)
7
8 <u>0</u> Total Cover of Bryophytes <u>50</u>
9
10 <u>0</u> Hydrophytic
Total Cover: 28 Vegetation 50% of Total Cover: 14 20% of Total Cover: 5.6 Present? Yes • No
50% of Total Cover: 14 20% of Total Cover: 5.6 Present? Yes No

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SOIL Sampling Point: SW15 T310 05

									r -	10111. 51115_1516_65	
	ion: (Describe to	the depth nee Matrix	ded to docume	ent the inc		firm the abox Feat u		ators)			
Depth (inches)	Color (moist)		% Co		olor (moist)		Type ¹	Loc ²	Texture	Remarks	
0-4		150,			ioist,	<u>%</u>	-71		Peat	Oi	
4-10									Mucky Peat	Oe	
10-11									Muck	Oa	
11-16	2.5Y	4/1	35	10YR	4/6	60		PL/M	Sandy Clay Loam		
+mottle				2.5Y	3/1	5		PL		P	
Tillocae				2.31							
						-					
								-	-		
1 _{Type:} C-Co	ncontration D-	-Depletion	PM-Paducac	l Matrix	2 Location:	DI - Dor	e Lining PC	-Poot Cha	annel. M=Matrix		
		- Беріецоп.					_		anner. M=Maurx		
Hydric Soil Indicators: Indicators for Problematic Hydric Soils. Alaska Gleyed Without Hue 5Y or Redder											
Histosol o	l [Alaska Color Change (TA4) Alaska Alpine swales (TA5)					☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer				
✓ Histic Epip	[✓ Alaska Redox With 2.5Y Hue					Other (Explain in Remarks)				
☐ Hydrogen Sulfide (A4) ☐ Alaska Redox With 2.5Y Hue ☐ Other (Explain in Remarks) Thick Dark Surface (A12)											
³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology,											
Alaska Redox (A14)											
Alaska Gleyed Pores (A15) 4 Give details of color change in Remarks											
Restrictive Laye	er (if present):										
Type: san							Hydric Soil Present	? Yes • No ·			
Depth (incl	hes): 11										
Remarks:											
subangular boulder at 16in. Looks like thermokarst. Soil is exceptionally cold. No evidence of permafrost to 34"											
HYDROLOGY											
Wetland Hyd		tors:							Secondary Indi	cators (two or more are required)	
Primary Indica	ntors (any one i	s sufficient)								ned Leaves (B9)	
Surface V		☐ Inundation Visible on Aerial Imagery (B7)					Drainage Patterns (B10)				
✓ High Wat		Sparsely Vegetated Concave Surface (B8)					Oxidized Rhizospheres along Living Roots (C3)				
✓ Saturation		Marl Deposits (B15)					Presence o	f Reduced Iron (C4)			
Water Ma		Hydrogen Sulfide Odor (C1)					Salt Depos	its (C5)			
Sediment		Dry-Season Water Table (C2)						Stressed Plants (D1)			
Drift Deposits (B3)					Uther (Explain in Remarks)					ic Position (D2)	
	or Crust (B4)								✓ Shallow Ac	· · ·	
Iron Depo	` ,									raphic Relief (D4)	
Field Observa	oil Cracks (B6)								✓ FAC-neutra	il Test (D5)	
Surface Wate		Yes ()	No •	De	epth (inches	١.					
		Yes •				•		Wotla	nd Hydrology Presen	t? Yes • No O	
Water Table F				De	epth (inches): 7		wetia	ila nyarology Preseli	tr res © NO C	
(includes capi		Yes	No \bigcirc	De	epth (inches): 4					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
D3sandy clay	loam. D4car	oig tussocks									

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