WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner Alaska Energy Authority Sampling Point SW13 T148 01	
Investigator(s): SLI_EAC	
Subregion Interior Alaska Mountains	
Lat.: 63.3917833574 Long.: _148.597797154 Datum: NAD83	
Note Color Note	
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 "Normal Circumstances" present? Yes No Are Normal Circumstances or Present? Yes No Are Normal Circumstances or Present? Are Normal Circumstances or Present? Yes No No Normal Circumstances or Normal Circumstances or Present? Yes No Normal Circumstances or Normal Circumstances o	
Are Vegetation Soil Or Hydrology significantly disturbed? 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 No Is the Sampled Area within a Wetland? Yes No No Wetland Hydrology Present? Yes No No Is the Sampled Area within a Wetland? Yes No No Wetland Hydrology Present? Yes No No Is the Sampled Area within a Wetland? Yes No No Wetland? Yes No No Wetland Hydrology Present? Yes No No Wetland? Yes No No Wetland? Yes No No Wetland? Yes No Wetland? Yes No No Wetland? Yes No Wetland Hydrology Must No Wetland Hydrology yes No Wetland Hydrology must No Wetland Hydrology must No Yes No No Wetland Hydrology must No Yes No No We	
Hydric Soil Present? Yes No	
Wetland Hydrology Present? Yes	
Wetland Hydrology Present? Yes ○ No ● Wetland Hydrology Present? Yes ○ No ● Wetland Hydrology Present? Wetland Hydrology Present? Yes ○ No ● Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Present? Dominant Indicator Species Number of Dominant Species That are OBL, FACW, or FAC: 5 (A) Cotal Arms are OBL, FACW, or FAC: 5 (A) Total Arms are OBL, FACW, or FAC: 5 (A) Total Arms are OBL, FACW, or FAC: 5 (A) Total Worksheet: Total Worksheet: Total % Cover of: Multiply by: OBL Species 0 x 1 = 0 FACU Prevalence Index worksheet: Total % Cover of: Multiply by: OBL Species 33.2 x 2 = 66.4 FACU Prevalence Index worksheet: Total % Cover of: Multiply by: OBL Species 33.2 x 2 = 66.4 FACU Prevalence Index worksheet: Total % Cover of: Multiply by: OBL Species 33.2 x 2 = 66.4 FACU UPL Species 32.1 x 4 = 48.40 UPL Species 97.1 x 3 = 291.3 FACU Species 97.1 x 3 = 291.3 FACU Species 97.1 x 3 = 291.3 FACU Species 97.1 x 4 = 48.40 UPL Species 97.1 x 4 = 48.40 UPL Species 97.1 x 4 = 48.40 <th colsp<="" td=""></th>	
VEGETATION - Use scientific names of plants. List all species in the plot. Tree Stratum Absolute % Cover Species? Dominant Species Status Jumber of Dominant Species That are OBL, FACW, or FAC:	
Tree Stratum Absolute % Cover % Cover Dominant Species Status Indicator Status Number of Dominant Species That are OBL, FACW, or FAC: 5 (A) (A) 1. Picea glauca 5 FACU Total Number of Dominant Species That are OBL, FACW, or FAC: 5 (A) 5 (A) 3. Sapling / Shrub Stratum 10 Sapling / Shrub Stratum 50% of Total Cover: 2.5 20% of Total Cover: 1 1 Prevalence Index worksheet: Total % Cover of: Multiply by: OBL Species 3.2 × 2 = 66.4 83.3% (A/B) 1. Picea glauca 7 FACU FACW Species 3.3.2 × 2 = 66.4 X = 0 FACW Species 3.3.2 × 2 = 66.4 Y = 66.4 FACW Species 97.1 × 3 = 291.3 FACW Species 97	
Number of Dominant Species Status	
Picea glauca	
2. 0 □ Total Number of Dominant Species Across All Strata: 6 (B) 3. 0 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
3.	
That Are OBL, FACW, or FAC: 83.3% (A/B)	
Total Cover: 5.	
Sapling/Shrub Stratum Total Cover: 5 2.5 20% of Total Cover: 1 Total % Cover of: Multiply by: 1. Picea glauca 7 FACU FACW Species 33.2 x 2 = 66.4 2. Betula glandulosa 40 FAC FAC FAC Species 97.1 x 3 = 291.3 3. Vaccinium uliginosum 30 FAC FAC UPL Species 12.1 x 4 = 48.40 4. Rhododendron tomentosum 30 FAC FAC UPL Species 0 x 5 = 0 5. Vaccinium vitis-idaea 15 FAC FAC Column Totals: 142.4 (A) 406.1 (B) 6. Empetrum nigrum 10 FAC Prevalence Index = B/A = 2.852 2.852 8. Seption of Total Cover: 132 FAC Prevalence Index is ≤ 3.0 Problematic Hydrophytic Vegetation Indicators: Problematic Hydrophytic Vegetation Indicators: Problematic Hydrophytic Vegetation Indicators: Problematic Hydrophytic Vegetation Indicators: Problematic Hydrophytic Vegetation	
Sapling/Shrub Stratum 50% of Total Cover: 2.5 20% of Total Cover: 1 OBL Species 0 x 1 = 0 1. Picea glauca 7 FACU FACU FACW Species 33.2 x 2 = 66.4 2. Betula glandulosa 40 FAC FAC FAC Species 97.1 x 3 = 291.3 3. Vaccinium uliginosum 30 FAC FACW UPL Species 12.1 x 4 = 48.40 4. Rhododendron tomentosum 15 FAC UPL Species 0 x 5 = 0 5. Vaccinium vitis-idaea 15 FAC FAC Column Totals: 142.4 (A) 406.1 (B) 6. Empetrum nigrum 10 FAC FAC Prevalence Index = B/A = 2.852 2.852 8.	
1. Picea glauca	
2. Betula glandulosa 3. Vaccinium uliginosum 30	
3. Vaccinium uliginosum 4. Rhododendron tomentosum 5. Vaccinium vitis-idaea 6. Empetrum nigrum 7.	
4. Rhododendron tomentosum 30	
5. Vaccinium vitis-idaea 6. Empetrum nigrum 7.	
6. Empetrum nigrum 7.	
7.	
8.	
9.	
10.	
Herb Stratum 50% of Total Cover: 66 20% of Total Cover: 26.4 Remarks or on a separate sheet) 1. Carex bigelowii 2 ✓ FAC Problematic Hydrophytic Vegetation ¹ (Explain) 2. Rubus chamaemorus 3 ✓ FACW ¹ Indicators of hydric soil and wetland hydrology must	
2. Rubus chamaemorus 3 FACW ¹ Indicators of hydric soil and wetland hydrology must	
and date of my and some and mediana my and egy mass	
3. Tephroseris atropurpurea O.1 De present, unless disturbed or problematic.	
4. Equisetum scirpoides 0.1 FACU Plot size (radius, or length x width) 10m	
5. Carex capillaris O.1 — FACW % Cover of Wetland Bryophytes	
6. Arctagrostis latifolia O.1 (Where applicable)	
7	
8 <u>0</u> Total Cover of Bryophytes <u>35</u>	
9	
10 <u>0</u> Hydrophytic	
Total Cover: 5.4 Vegetation 50% of Total Cover: 2.7 20% of Total Cover: 1.08 Present? Yes No C	
5070 OF TOTAL COVER. Z./ 2070 OF TOTAL COVER. 1.08	

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SOIL Sampling Point: SW13_T148_01

Drofilo Doccripti	on: (Doscribo to	the depth p	andad to doc	mont the indicator or co	nfirm tha ak	scanca of indic	ators)	· ·	10mt. 51115_1140_01	
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Redox Features										
Depth (inches)	Color (moist)		%	Color (moist)	% Type 1	_Loc_2	Texture	Remarks		
0-2	7.5YR	2.5/1	100	color (moise)		Турс	LUC	Fibric Organics		
2-3	7.5YR	5/1	100					Fine Sandy Loam	broken, thin e horizon	
3-5	7.5YR	3/4	100					Coarse Sandy Loam		
5-15	5Y		100					Coarse Sandy Loam		
3-13		5/2	100					Coarse Sariay Loans		
¹Type: C=Cor	ncentration. D	=Depletion	. RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix		
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³										
Histosol or Histel (A1) Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder									ue 5Y or Redder	
Histic Epipedon (A2) Alaska Alpine swales (TA5)						5)	Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Alaska Redox With 2.5Y Hue			Other (Explain in Remarks)		
Thick Dark	Surface (A12)		30	la				doala e	
Alaska Gleyed (A13) 3 One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present										
Alaska Redox (A14) 4 Give details of solar change in Remarks										
Alaska Gleyed Pores (A15) 4 Give details of color change in Remarks										
Restrictive Laye	er (if present):									
Type:								Hydric Soil Present	? Yes ○ No •	
Depth (inch	nes):									
Remarks:										
no hydric soil in	ndicators									
HYDROLOGY										
Wetland Hydi	rology Indica	itors:						Secondary Indi	cators (two or more are required)	
Primary Indicators (any one is sufficient)								Water Stained Leaves (B9)		
Surface W	Surface Water (A1) Inundation Visible on Aerial Imagery (B7)						ry (B7)	·		
High Water Table (A2) Sparsely Veget						ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)	
Saturation				Marl Deposits (B15)					of Reduced Iron (C4)	
Water Mai				Hydrogen Su				☐ Salt Depos		
	Deposits (B2)			☐ Dry-Season \		` '			Stressed Plants (D1)	
☐ Drift Depo				U Other (Explai	in in Rema	arks)			ic Position (D2)	
	or Crust (B4)								quitard (D3)	
Iron Depo									graphic Relief (D4)	
	oil Cracks (B6)							✓ FAC-neutra	ar rest (DS)	
Field Observa Surface Water		Vac	No ●	Donth (inche	·c).					
			No 💿	Depth (inche	-		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	. d 11. d. d. d	V O N- O	
Water Table P				Depth (inche	s):		Wetiai	nd Hydrology Presen	t? Yes ○ No •	
Saturation Pre (includes capil		Yes C	No ●	Depth (inche	s):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										
only one secondary hydrology indicator observed										

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