WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner: Alaska Energy Authority Investigator(s): SLI, SCB Landform (hillside, terrace, hummocks etc.): Terrace Local relief (concave, convex, none): flat Slope: %/ 3.5 ° Elevation: 493 Subregion: Southcentral Alaska Lat.: 62.940275669 Long.: -149.146379591 Datum: NAD83 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 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 Is the Sampled Area within a Wetland? Yes No No Wetland Hydrology Present? Yes No No No Wetland Hydrology Present? Yes No No No No No No No No
Landform (hillside, terrace, hummocks etc.): Terrace
Subregion: Southcentral Alaska Lat.: 62.940275669 NWI classification: PEM1E 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 naturally problematic? (If needed, explain any answers in Remarks.) Are Vegetation PFINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Bydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No No No No Wetland Hydrology Present? Yes No No No No Wetland Hydrology Present? Yes No
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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 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 Useland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Vegetated boulders w saplings. parts of site exposed rock w standing water. VEGETATION - Use scientific names of plants. List all species in the plot. Absolute Occur Species? Indicator Species In the plot. Absolute Occur Species? Indicator Species In the Plot. Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B)
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Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No No Within a Wetland? Yes No No No No Within a Wetland? Yes No
Hydric Soil Present? Wetland Hydrology Present? Yes No No Within a Wetland? Remarks: shallow organic layer over boulders w water. small hummocks/vegetated boulders w saplings. parts of site exposed rock w standing water. VEGETATION - Use scientific names of plants. List all species in the plot. Tree Stratum 1. 2. Dominant Species? Status Number of Dominant Species That are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species That are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species That are OBL, FACW, or FAC: 3 (B)
Wetland Hydrology Present? Yes No No Within a Wetland? Yes No No No No Wetland Hydrology Present? Yes No
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VEGETATION - Use scientific names of plants. List all species in the plot. Note
Absolute
Absolute
Absolute
Absolute % Cover Species? Status Number of Dominant Species That are OBL, FACW, or FAC: 3 (A) 2. 0 0 Total Number of Dominant Species That are OBL, FACW, or FAC: 3 (B)
1. 0 That are OBL, FACW, or FAC: 3 (A) 2. 0 Total Number of Dominant Species Across All Strata: 3 (B)
2
Species Across Air Strata.
3 Percent of dominant Species
4
5 O Prevalence Index worksheet:
Total Cover: Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover: 0 20% of Total Cover: 0 OBL Species 26.1 x 1 = 26.1
1. Dasiphora fruticosa 15 FAC FACW Species 13 x 2 = 26
2. Picea mariana 2 FACU Species 16.2 x 3 = 48.60
3. Betula nana 1 FAC FACU Species 0.1 x 4 = 0.400
4. Salix pulchra
5. Vaccinium uliginosum O.1 FAC Column Totals: 55.4 (A) 101.1 (I
6. Salix alaxensis 7. Patula pasalaskana 9.1 FAC 1.825
7. Betula neoalaskana 0.1 FACU Hydrophytic Vegetation Indicators:
- Injurgacija regention induction
10
Herb Stratum 50% of Total Cover: 9.65 20% of Total Cover: 3.86 Remarks or on a separate sheet)
1. Trichophorum caespitosum 20 🗹 OBL 🗆 Problematic Hydrophytic Vegetation ¹ (Explain)
2. Carex saxatilis 10 ✓ FACW ¹ Indicators of hydric soil and wetland hydrology must
3. Carex limosa 5 OBL be present, unless disturbed or problematic.
4. Carex aquatilis 1 OBL
5. Trichophorum alpinum 0.1 OBL % Cover of Wetland Bryonbytes
6 (Where applicable)
7
8 Total Cover of Bryophytes
9
10 <u>0</u> Hydrophytic
Total Cover: 36.1 Vegetation 50% of Total Cover: 18.05 20% of Total Cover: 7.22 Present? Yes No
Remarks:

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SOIL Sampling Point: SW13_T136_04

		e depth need	led to docume	ent the indicator or co	nfirm the abs		ators)		
Depth - (inches)	Color (mois	±)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	COIOI (IIIOIS		70	Color (Illoist)		Турс	LUC	Sapric Organics	
								- Capita Organica	
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix									
Hydric Soil Inc	dicators:			Indicators for Problematic Hydric Soils: ³					
Histosol or H				☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder					
✓ Histic Epipe	. ,			Alaska Alpine swales (TA5) Underlying Layer					
				Alaska Redox With 2.5Y Hue Other (Explain in Remarks)					
Tryurogen sumue (AT)									
Thick Dark Surface (A12) Thick Dark Surface (A12) One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology,									
Alaska Gieyed (A13) and an appropriate landscape position must be present									
☐ Alaska Redox (A14) ☐ Alaska Gleyed Pores (A15) ☐ Alaska Gleyed Pores (A15) ☐ Alaska Gleyed Pores (A15)									
Alaska Gleye	ed Pores (A15)								
Restrictive Layer	(if present):								
Type:								Hydric Soil Present	? Yes ⊙ No O
Depth (inche	s):								
HYDROLOGY									
Wetland Hydro	logy Indicat	ors:							cators (two or more are required)
Primary Indicato							Water Staii	ned Leaves (B9)	
✓ Surface Wa	` ,			Inundation Visible on Aerial Imagery (B7)				☐ Drainage P	atterns (B10)
✓ High Water	` ,			Sparsely Vegetated Concave Surface (B8)				Oxidized R	nizospheres along Living Roots (C3)
	Saturation (A3) Marl Deposits (B15)								f Reduced Iron (C4)
Water Mark	s (B1)			Hydrogen Su	lfide Odor	(C1)		Salt Depos	its (C5)
Sediment D	eposits (B2)			☐ Dry-Season \	Nater Table	e (C2)		Stunted or	Stressed Plants (D1)
Drift Depos	its (B3)			Other (Expla	in in Remai	rks)		Geomorphi	c Position (D2)
Algal Mat o								Shallow Aq	uitard (D3)
Iron Deposi	its (B5)							Microtopog	raphic Relief (D4)
Surface Soi	l Cracks (B6)							✓ FAC-neutra	l Test (D5)
Field Observat	ions:								
Surface Water F	Present?	Yes 💿	No 🔾	Depth (inche	es): 2				
Water Table Pre	esent?	Yes	$_{No}\bigcirc$	Depth (inche	es): 2		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾
Saturation Presection (includes capilla		Yes	No \bigcirc	Depth (inche	es): 0				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:									
Remarks:									

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