WETLAND DETERMINATION DATA FORM - Alaska Region

Applicant/Owner: Alaska Energy Authority Investigator(s): SLI, EAC Local relief (concave, convex, none): flat Slope: 0.0 % / 0.0 ° Elevation: 655 Subregion: Interior Alaska Mountains Lat.: 63.383469224 Long.: -148.905220151 Datum: WGS8-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 Wetland Hydrology Present? Hydrology Present? Hydrology Present? Hydrology Present? Hydrology Present? Hydrology Prese
Investigator(s): SLI, EAC Local relief (concave, convex, none): flat Slope: 0.0 % / 0.0 ° Elevation: 655 Subregion: Interior Alaska Mountains Lat.: 63.383469224 Long.: -148.905220151 Datum: WGS8-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 instantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation Soil or Hydrology instantly 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 Signs of seasonal riverine flooding. Beaver lodge adjacent to plot. VEGETATION - Use scientific names of plants. List all species in the plot. Landform (hillside, terrace, hummocks etc.): Flat Slope: 0.0 % / 0.0 ° Elevation: 655 Lat.: 63.383469224 Long.: -148.905220151 Datum: WGS8-NO OR (If no, explain in Remarks.) NWI classification: PEM1Fb NO OR (If no, explain in Remarks.) If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area within a Wetland? Yes No OR NO
Local relief (concave, convex, none): flat
Subregion: Interior Alaska Mountains Lat.: 63.383469224 Long.: -148.905220151 Datum: WGS8-Soil Map Unit Name: Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation
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 No No (If no, explain in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No No Wetland? Yes No
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 Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No No Wetland Present? Yes No No No Wetland? Yes No No Wetland? Yes No
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 within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Bisected by non-wetland levee. levee visible in aerial, 5ft tall, gravel w shrubs. may disconnect this community from jack river - n signs of seasonal riverine flooding. Beaver lodge adjacent to plot. VEGETATION -Use scientific names of plants. List all species in the plot. Absolute Dominant Indicator Species? Status Dominant Species
Hydric Soil Present? Wetland Hydrology Present? Wetland bisected by non-wetland levee. levee visible in aerial, 5ft tall, gravel w shrubs. may disconnect this community from jack river - n signs of seasonal riverine flooding. Beaver lodge adjacent to plot. WEGETATION - Use scientific names of plants. List all species in the plot. Absolute Dominant Indicator Species? Mumber of Dominant Species
Hydric Soil Present? Wetland Hydrology Present? Yes No No within a Wetland? No No Wetland? Remarks: wetland bisected by non-wetland levee. levee visible in aerial, 5ft tall, gravel w shrubs. may disconnect this community from jack river - n signs of seasonal riverine flooding. Beaver lodge adjacent to plot. WEGETATION - Use scientific names of plants. List all species in the plot. Absolute Dominant Indicator Species? No N
Wetland Hydrology Present? Yes No Within a Wetland? Wetland. Wetland? Wetland. Wetland? Wetland. Wetland? Wetland. Wetland? Wetland. We
Remarks: wetland bisected by non-wetland levee. levee visible in aerial, 5ft tall, gravel w shrubs. may disconnect this community from jack river - n signs of seasonal riverine flooding. Beaver lodge adjacent to plot. VEGETATION - Use scientific names of plants. List all species in the plot. Absolute Dominant Indicator Species? Status Dominant Species
signs of seasonal riverine flooding. Beaver lodge adjacent to plot. VEGETATION - Use scientific names of plants. List all species in the plot. Absolute Dominant Indicator Tree Stratum
Absolute Dominant Indicator Tree Stratum
Absolute Dominant Indicator Tree Stratum % Cover Species? Status Number of Dominant Species
1. That are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant
2
Percent or dominant species
5
Prevalence Index worksheet:
Sealing (Should Street and Source of Total Covery of Total Cov
01.5 A 01.5
1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
5 O
Prevalence Index = B/A =1.116
9
Total Cover: 0 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Carex aquatilis 80 OBL Problematic Hydrophytic Vegetation ¹ (Explain)
2. Calamagrostis canadensis 5 FAC 1 Indicators of hydric soil and wetland hydrology must
3. Equisetum fluviatile OBL be present, unless disturbed or problematic.
4. Comarum palustre OBL Plot size (radius, or length x width) 10m
5. Hippuris vulgaris OBL % Cover of Wetland Bryophytes
6. Carex Ioliacea OBL (Where applicable)
7
8 <u>0</u> Total Cover of Bryophytes <u>5</u>
9
10 <u>0</u> Hydrophytic
Total Cover: 86.3 Vegetation 50% of Total Cover: 43.15 20% of Total Cover: 17.26 Present? Yes No
Remarks: trace utricularia sp, sparganium sp. bare ground includes open water.

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T212_07

Donth	Matrix	eeded to docume	document the indicator or confirm the absence of indicators) Redox Features							
Depth (inches)	Color (moist)	%	Color (moist)	% Т	Гуре ¹ L	oc ²	Texture	Remarks		
			2010: (0.01)							
¹Type: C=Concentr	ration. D=Depletion						nel. M=Matrix			
Hydric Soil Indica	ators:	;	Indicators for Problematic Hydric Soils: ³							
Histosol or Histo	Histosol or Histel (A1)			Alaska Color Change (TA4)				Alaska Gleyed Without Hue 5Y or Redder		
Histic Epipedon	(A2)	[Alaska Alpine s	wales (TA5)		_	Underlying Layer			
Hydrogen Sulfic	de (A4)	[Alaska Redox V	Vith 2.5Y Hue		✓ (Other (Explain in Remark	s)		
☐ Thick Dark Surf	face (A12)		_							
Alaska Gleyed ((A13)		One indicator of and an appropriat				ary indicator of wetland h	ydrology,		
Alaska Redox (A	A14)		ана ан арргорнас	e lariuscape p	osition must	be pres	ciic			
Alaska Gleyed P	Pores (A15)		⁴ Give details of co	olor change in	Remarks					
Restrictive Layer (if	present):									
Type:							Hydric Soil Present	? Yes • No ·		
Depth (inches):							•			
HYDROLOGY										
Wetland Hydrolog	y Indicators:						Secondary India	cators (two or more are required)		
Primary Indicators ((any one is sufficier	nt)								
✓ Surface Water	(A1)						Water Staii	ned Leaves (B9)		
High Water Tal	hi- (A2)		✓ Inundation V	sible on Aeria	al Imagery (B	7)		ned Leaves (B9) atterns (B10)		
	DIE (AZ)		✓ Inundation V Sparsely Veg				Drainage P	, ,		
Saturation (A3)	• •			etated Concav			Drainage P	atterns (B10)		
)		Sparsely Veg	etated Concav s (B15)	ve Surface (B		Drainage P	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4)		
Saturation (A3)) B1)		Sparsely Vega Marl Deposits Hydrogen Su	etated Concav s (B15)	ve Surface (Bi		Drainage P Oxidized Rl Presence o Salt Depos	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4)		
Saturation (A3) Water Marks (E) B1) osits (B2)		Sparsely Vega Marl Deposits Hydrogen Su	etated Concav (B15) Ifide Odor (C1 Vater Table (C	ve Surface (Bi		Drainage P Oxidized Rl Presence o Salt Depos	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1)		
Saturation (A3) Water Marks (E Sediment Depo) B1) osits (B2) (B3)		Sparsely Vega Marl Deposits Hydrogen Su Dry-Season V	etated Concav (B15) Ifide Odor (C1 Vater Table (C	ve Surface (Bi		Drainage P Oxidized RI Presence o Salt Depos Stunted or	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2)		
Saturation (A3) Water Marks (E Sediment Depo) B1) osits (B2) (B3) rust (B4)		Sparsely Vega Marl Deposits Hydrogen Su Dry-Season V	etated Concav (B15) Ifide Odor (C1 Vater Table (C	ve Surface (Bi		☐ Drainage P☐ ☐ Oxidized R☐ ☐ Presence o☐ ☐ Salt Depos☐ ☐ Stunted or ☐ Geomorphi☐ ☐ Shallow Aq	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2)		
Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr) B1) Osits (B2) (B3) Fust (B4) (B5)		Sparsely Vega Marl Deposits Hydrogen Su Dry-Season V	etated Concav (B15) Ifide Odor (C1 Vater Table (C	ve Surface (Bi		☐ Drainage P☐ ☐ Oxidized R☐ ☐ Presence o☐ ☐ Salt Depos☐ ☐ Stunted or ☐ Geomorphi☐ ☐ Shallow Aq	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)		
Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits () B1) osits (B2) (B3) rust (B4) (B5) acks (B6)		Sparsely Vega Marl Deposits Hydrogen Su Dry-Season V	etated Concav (B15) Ifide Odor (C1 Vater Table (C	ve Surface (Bi		Drainage P Oxidized RI Presence o Salt Depos Stunted or Geomorphi Shallow Aq Microtopog	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)		
Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cra) B1) osits (B2) (B3) rust (B4) (B5) acks (B6)	• No ○	Sparsely Vega Marl Deposits Hydrogen Su Dry-Season V	etated Concav (B15) (fide Odor (C1 Vater Table (C n in Remarks)	ve Surface (Bi		Drainage P Oxidized RI Presence o Salt Depos Stunted or Geomorphi Shallow Aq Microtopog	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)		
Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cri) B1) osits (B2) (B3) rust (B4) (B5) acks (B6) is: sent? Yes	No ○No ●	Sparsely Vegi Marl Deposits Hydrogen Su Dry-Season V Other (Explai	etated Concav (B15) (fide Odor (C1 Vater Table (C n in Remarks)	ve Surface (Bi	.8)	Drainage P Oxidized RI Presence o Salt Depos Stunted or Geomorphi Shallow Aq Microtopog FAC-neutra	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5)		
Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cra Surface Water Pres) B1) Disits (B2) (B3) Fust (B4) (B5) Control (B6) Contro	○ No •	Sparsely Vego Marl Deposits Hydrogen Su Dry-Season V Other (Explain Depth (inche	etated Concaves (B15) if (B15) if (B16) if (B16) Vater Table (Cannin Remarks) s): 24 s):	ve Surface (Bi	.8)	Drainage P Oxidized RI Presence o Salt Depos Stunted or Geomorphi Shallow Aq Microtopog	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5)		
Saturation (A3) Water Marks (E Sediment Deposits (Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cra Field Observation: Surface Water Prese Water Table Presert (includes capillary f) B1) Distits (B2) (B3) Furst (B4) (B5) Facks (B6) Fis: Figent? Yes (Pringe) Yes	No O	Sparsely Veging Marl Deposits Hydrogen Sunder Dry-Season Vother (Explain Depth (inched	etated Concavers (B15) fide Odor (C1 Vater Table (Cnn in Remarks) s): 24 s):	ve Surface (Bi	/etland	Drainage P Oxidized RI Presence o Salt Depos Stunted or Geomorphi Shallow Aq Microtopog FAC-neutra	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5)		
Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cra Field Observations Surface Water Preser Water Table Preser Saturation Present) B1) Distits (B2) (B3) Furst (B4) (B5) Facks (B6) Fis: Figent? Yes (Pringe) Yes	No O	Sparsely Veging Marl Deposits Hydrogen Sunder Dry-Season Vother (Explain Depth (inched	etated Concavers (B15) fide Odor (C1 Vater Table (Cnn in Remarks) s): 24 s):	ve Surface (Bi	/etland	Drainage P Oxidized RI Presence o Salt Depos Stunted or Geomorphi Shallow Aq Microtopog FAC-neutra	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5)		
Saturation (A3) Water Marks (E Sediment Deposits (Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cra Field Observation: Surface Water Prese Water Table Presert (includes capillary f) B1) Distits (B2) (B3) Furst (B4) (B5) Facks (B6) Fis: Figent? Yes (Pringe) Yes	No O	Sparsely Veging Marl Deposits Hydrogen Sunder Dry-Season Vother (Explain Depth (inched	etated Concavers (B15) fide Odor (C1 Vater Table (Cnn in Remarks) s): 24 s):	ve Surface (Bi	/etland	Drainage P Oxidized RI Presence o Salt Depos Stunted or Geomorphi Shallow Aq Microtopog FAC-neutra	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5)		
Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cra Surface Water Prese Water Table Presert (includes capillary f Describe Recorded E Remarks: standing water through	b) B1) Dosits (B2) (B3) Fust (B4) (B5) Backs (B6) Bs: Bent? Yes Fringe) Fringe Data (stream gauge) ughout site. large b	No N	Sparsely Vege Marl Deposits Hydrogen Su Dry-Season V Other (Explain Depth (incher Depth (incher)))	etated Concavers (B15) if (B15) if (B0 Odor (C1) Vater Table (Connin Remarks) is): 24 is): 24 is): 24 irious inspection	ve Surface (Bi	/etland	Drainage P Oxidized RI Presence o Salt Depos Stunted or Geomorphi Shallow Aq Microtopog FAC-neutra	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5)		
Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cra Field Observations Surface Water Prese Water Table Presert Saturation Present (includes capillary f Describe Recorded C	b) B1) Dosits (B2) (B3) Fust (B4) (B5) Backs (B6) Bs: Bent? Yes Fringe) Fringe Data (stream gauge) ughout site. large b	No N	Sparsely Vege Marl Deposits Hydrogen Su Dry-Season V Other (Explain Depth (incher Depth (incher)))	etated Concavers (B15) if (B15) if (B0 Odor (C1) Vater Table (Connin Remarks) is): 24 is): 24 is): 24 irious inspection	ve Surface (Bi	/etland	Drainage P Oxidized RI Presence o Salt Depos Stunted or Geomorphi Shallow Aq Microtopog FAC-neutra	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5)		
Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cra Surface Water Prese Water Table Presert (includes capillary f Describe Recorded E Remarks: standing water through	b) B1) Dosits (B2) (B3) Fust (B4) (B5) Backs (B6) Bs: Bent? Yes Fringe) Fringe Data (stream gauge) ughout site. large b	No N	Sparsely Vege Marl Deposits Hydrogen Su Dry-Season V Other (Explain Depth (incher Depth (incher)))	etated Concavers (B15) if (B15) if (B0 Odor (C1) Vater Table (Connin Remarks) is): 24 is): 24 is): 24 irious inspection	ve Surface (Bi	/etland	Drainage P Oxidized RI Presence o Salt Depos Stunted or Geomorphi Shallow Aq Microtopog FAC-neutra	atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) ts (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5)		

U.S. Army Corps of Engineers Alaska Version 2.0