WETLAND DETERMINATION DATA FORM - Alaska Region

Applicanti/Owner Alaska Energy Authority BAB	Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 06-Aug-13
Investigator(s): BAB	Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T161_07
Local relief (concave, convex, none):				Landform (hill	side, terrac	
Solf May Unit Name: Are climatic/hydrologic conditions on the site typical for this time of year? Yes	Local r					- · · · · · · · · · · · · · · · · · · ·
Are climatichydrologic conditions on the site typical for this time of year? Yes ♥ No ♥ (If no, explain in Remarks.) Are Vegetation │ Soil │ nor Hydrology │ significantly disturbed? Are Vegetation │ Soil │ nor Hydrology │ naturally problematic? (If needed, explain 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 ♥ No ● within a Wetland? Yes No ● No ● Within a Wetland? Yes No ● Within a Wetland? Yes No ● No ● Within a Wetland? Yes No ● Within a Wetland? Yes No ● Within a Wetland? Yes No ● No ● Yes No ● Yes No ● Within a Wetland? Yes No ● No ● Yes No ● No			Lat ·			
Are climatichydrologic 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" present? Yes No Are Normal Circumstances" present? Yes No Are Normal Circumstances" present? Yes No No Normal Circumstances in Remarks. SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No No No Normal State Sampled Area within a Wetland? Yes No No No Normal Species That Status Normal Circumstances in Present? Yes No No Normal Species That Status Normal Circumstances in Present? Yes No No Normal Species That Status Normal Circumstances in Present? Yes No No Normal Species That Status Normal Circumstances in Present? Yes No No Normal Species That Status Normal Circumstances in Present Normal Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species That are OBL, FACW, or FAC: 75.0% (AB) Prevalence Index Stratus 4 (B) Prevalence Index Stratus 4 (B) Prevalence Index Normal Circumstances Normal Normal Species Normal Circumstances Index Normal Circumstances I	•			00.00 100004-		
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 Hydrology Present? Yes No Weltand Hydrology Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No Weltand Hydrology Present? Yes No Weltand? Yes No Welta		· -		0 Vaa	■ Na ○	
Hydric Soil Present? Yes No within a Wetland? Yes No	Are Vo	egetation , Soil , or Hydrology segetation , Soil , or Hydrology regetation , Soil . , or Hydrology regetation regetation . , Soil . , or Hydrology regetation regetation solutions.	significantly naturally pr ving sam	y disturbed? oblematic?	Are "N (If nee	lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)
Wetland Hydrology Present? Yes No		, , ,		ls	the Sam	pled Area
No No No No No No No No						
VEGETATION - Use scientific names of plants. List all species in the plot. Tree stratum Absolute % Cover % Cover % Cover % Cover 1 % Cover %		Wetland Hydrology Present? Yes ○ No ●)	***	a **	etiana:
Total Number of Dominant Species Across All Strata:					•	Dominance Test worksheet:
1.		e Stratum		Species?	Status	
2.	1.					
4.	2.		0			
Total Cover:						
Total Cover: 0 Sapling/Shrub Stratum 50% of Total Cover: 0 20% of Total Cover: 0 20% of Total Cover: 0 50% of Total Cover: 0 20% of Total Cover: 0 50% of Total Cover: 14 20% of Total Cover: 5.6 50 50% of Total Cover: 14 20% of Total Cover: 5.6 50 50% of Total Cover: 14 20% of Total Cover: 5.6 50% of Hydrophytic Vegetation Indicators 1 50% of Hydrophytic Vegetation 1 50% of Hydrophyt			0			That Are OBL, FACW, or FAC: 75.0% (A/B)
Sapling/Shrub Stratum 50% of Total Cover: 0 20% of Total Cover: 0 OBL Species 0 x 1 = 0 1. Vaccinium vitis-idaea 20 ✓ FAC FACW FACW Species 6 x 2 = 12 2. Salix polaris 6 ✓ FACW FACU Species 24.1 x 3 = 72.30 3. Cassiope tetragona 1 FACU FACU Species 9.1 x 4 = 36.40 4. Vaccinium uliginosum 1 FAC UPL Species 0 x 5 = 0 5. 0 0 Column Totals: 39.2 (A) 120.7 (B) 6. 0 0 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% Prevalence Index is ≤3.0 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% Prevalence Index is ≤3.0 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% Prevalence Index is ≤3.0 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% Prevalence Index is ≤3.0 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% Hydrophytic Vegetation Indicators: ✓ Dom	5.					Prevalence Index worksheet:
1. Vaccinium vitis-idaea						Total % Cover of: Multiply by:
2. Salix polaris 3. Cassiope tetragona 4. Vaccinium uliginosum 5.	Sapl	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species
3. Cassiope tetragona 4. Vaccinium uliginosum 5.	1.	Vaccinium vitis-idaea	20	✓	FAC	FACW Species 6 x 2 = 12
3. Cassiope tetragona 1 FACU FACU Species 9.1 x 4 = 36.40 4. Vaccinium uliginosum 1 FAC UPL Species 0 x 5 = 0 5. 0 Column Totals: 39.2 (A) 120.7 (B) 6. 0 Prevalence Index = B/A = 3.079 8. 0 Hydrophytic Vegetation Indicators: 9. 0 Prevalence Index is ≤ 50% 10. 0 Prevalence Index is ≤ 3.0 Prevalence Index is ≤ 3.0 Prevalence Index is ≤ 3.0 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 1. Anthoxanthum monticola ssp. alpinum 7 FACU Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must	2.	Salix polaris	6	✓	FACW	FAC Species <u>24.1</u> x 3 = <u>72.30</u>
5.	3.	Cassiana tatragana	1		FACU	
6.	4.	Vaccinium uliginosum	_1		FAC	UPL Species0 x 5 =0
7.	5.		0			Column Totals: 39.2 (A) 120.7 (B)
7.	6.		_			
9	7.		0			Prevalence index = B/A =3.079_
10.	8.		0			Hydrophytic Vegetation Indicators:
Total Cover: 28	9.					✓ Dominance Test is > 50%
Herb Stratum 50% of Total Cover: 14 20% of Total Cover: 5.6 Remarks or on a separate sheet) 1. Anthoxanthum monticola ssp. alpinum 7	10.					Prevalence Index is ≤3.0
2. Gentiana glauca 0.1 FAC 1 Indicators of hydric soil and wetland hydrology must	Her			_	5.6	Remarks or on a separate sheet)
		·		\		
	2.	-				
3. Anemone narcissiflora 1 FACU be present, unless disturbed or problematic.	_					pe present, unless disturbed or problematic.
4. Bistorta plumosa Our private set set set set set set set set set s		0				Plot size (radius, or length x width)
5. Carex microchaeta 3 FAC % Cover of Wetland Bryophytes	Ŭ.				FAC	
6 (Where applicable)						
7						
8 O						Total Cover of Bryophytes65
10 O Hydrophytic Total Cover: 11.2 Vegetation	10.					
50% of Total Cover: 5.6 20% of Total Cover: 2.24 Present? Yes • No				of Total Cover:	2.24	Present? Yes • No •
Remarks: bryophytes mostly lichen						1

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SOIL Sampling Point: SW13_T161_07

0-2 100 Hemic Organics 2-4 7.5YR 4/2 100 Silt Loam wang gravel and cobbles 4-15 7.5YR 2.5/2 100 Loamy Sand wang gravel and cobbles Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix Indicators: Indicators: Indicators: Indicators: Indicators for Problematic Hydric Soils: Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Historic Epipedon (A2) Alaska Alpine swales (TA5) Underlying Layer Hydrogen Sulfide (A4) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Silt Loam wang gravel and cobbles	(inches)	Color (m	oist)	%	Color (moist)	% Type	1 <u>Loc</u> 2	Texture	Remarks
Learny Sand w ang gravel and coebles	0-2			100				Hemic Organics	
Type: C=Concentration. D=Depletion. RM=Reduced Matrix Indicators of Problematic Hydric Solis! Initics of Indicators: Indicators for Problematic Hydric Solis! Initics of Indicators: Indicators for Problematic Hydric Solis! Initics of Initiate (A1)	2-4	7.5YR	4/2	100				Silt Loam	w ang gravel and cobbles
ydric Soil Indicators: Histosol or Histel (A1)	4-15	7.5YR	2.5/2	100				Loamy Sand	w ang gravel and cobbles
ydric Soil Indicators: Histosol or Histel (A1)									
ydric Soil Indicators: Histosol or Histel (A1)									
ydric Soil Indicators: Histosol or Histel (A1)									_
ydric Soil Indicators: Histosol or Histel (A1)									
ydric Soil Indicators: Histosol or Histel (A1)								-	
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Histosol or Histel (A1) Histo Epipedon (A2) Histosol or Histel (Epipedon (A2) Histosol or Histel (A1) Histosol or Histel (A1) Histosol (Epipedon (A2) Alaska Alpine svales (TA5) Alaska Gleyed (Mithout Hue SY or Redder Underlying Layer Hydrology, Alaska Gleyed Underlying Ingenier Hydrology, Alaska Gleyed Underlying Ingenier Hydrology Hydrology, Alaska Gleyed Underlying Layer Hydrology, Alaska Gleyed Underlayer Hydrology, Alaska Gleyed Underlayer Hydrology, Alaska Gleyed Underlayer Hydrology, Alaska Gleyed Underlayer Hydrology, Alaska Gleyed Underland hydrology, Alaska Gleyed Underland hydrology, Alaska Gleyed Underland hyd	lydric Soil Inc	dicators:			Indicators for P	roblematic Hvdri	c Soils: ³		
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Hydrogen Sulfide (A4) Thick Dark Surface (A12) Alaska Redox (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Gleyed Pores (A15) Alaska Redox With 2.5Y Hue Orbit Deposit Gleyed Pores (A15) Alaska Redox With 2.5Y Hue Orbit Deposit Gleyed Pores (A15) Alaska Redox With 2.5Y Hue Orbit Deposit Gleyed Pores (A15) Alaska Gleyed Pores (A15) Ala	_	` ,							
Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A15) Alaska Redox (A15) 4 Give details of color change in Remarks ### Hydric Soil Present? Yes No ● Popth (Inches): ### Present of Reduced Iron (C4) Saturation (A3) Water Table (B2) Sediment Deposits (B3) Alaska (B1) Alaska (B1) Alaska (B1) Alaska Gleyed Present): Type: Depth (Inches): ### Hydric Soil Present? Yes No ● Alaska (B1) Alaska Gleyed (A15) Alaska Gleyed Present? Alaska Gleyed Present? Yes No ● Alaska Gleyed (A15) Alaska Redox (A14) Alaska Gleyed Present? Alaska Gleyed Present? Alaska Redox (A14) Alaska Redox (A15) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) Alaska Redox (A15) Alaska Redox (A14) Alaska Redox (A15) Alaska Redox (A14) Alaska Redox (Alas) Alaska	= ''				Alaska Redox	With 2.5Y Hue		Other (Explain in Rem	arks)
Alaska Roleyeu (A15) Alaska Roleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) *Give details of color change in Remarks *Hydric Soil Present? Yes \ No \ Depth (inches): **Branks: **Property (inches): **Propert	Thick Dark	Surface (A1:	2)						
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## Sectoritive Layer (if present): Type: Depth (inches): ## Pype	Alaska Redo	ox (A14)					·	esent	
Type: Depth (inches): Pepth (inches): Pepth	Alaska Gley	ed Pores (A:	15)		⁴ Give details of c	olor change in Ren	narks		
Type: Depth (inches): Pepth (inches): Present? Pepth (inches):	strictive Laver	r (if present)							
Depth (inches): PARTARS: Phydric soll indicators observed me sorted circles in plot POROLOGY Estand Hydrology Indicators: Secondary Indicators (two or more are required) Water Stained Leaves (B9) Water Stained Leaves (B9) Water Stained Leaves (B9) Water Table (A2) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Water Marks (B1) Water Marks (B2) Dry-Season Water Table (C2) Stained or Stressed Plants (D1) Sediment Deposits (B3) Other (Explain in Remarks) Shallow Aquitard (D3) Iron Deposits (B5) Water Age Soil Cracks (B6) Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches):	•	(ii preserie)	-					Hydric Soil Prese	nt? Yes No 🔍
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Saturation (A3)	emarks: b hydric soil income sorted circ YDROLOG Vetland Hydro	dicators obsectes in plot GY ology Indic	ators:	ıt)					
Water Marks (B1)	emarks: b hydric soil income sorted circ YDROLOG	dicators obsectes in plot GY ology Indicors (any one	ators:	ıt)	☐ Inundation \	/isible on Aerial Ima	agery (B7)	Water S	Stained Leaves (B9)
Sediment Deposits (B2) Dry-Season Water Table (C2) Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) Surface Soil Cracks (B6) Eld Observations: FAC-neutral Test (D5) Peth (inches): Vater Table Present? Yes No Depth (inches):	PROLOCE Tetland Hydromary Indicator Surface War	GY ology Indicors (any one ater (A1)	ators:	ıt)				Water S Drainag	Stained Leaves (B9) e Patterns (B10)
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