WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Wata	na Hydroelectric Project	В	orough/City:	Denali Bo	rough Sampling Date: 04-Aug-13
Applicant/Owner: Alaska E	nergy Authority			-	Sampling Point: SW13_T166_02
Investigator(s): CTS, AMD			Landform (hill	side, terrac	e, hummocks etc.): Flat
Local relief (concave, convex			Slope: 2.0	% / 1.1	
Subregion: Interior Alaska N			63.385080934		Long.: -148.572195292 Datum: WGS84
	/iountains	Lat	03.303000934	<u>, </u>	
Soil Map Unit Name:			- 14	<u> </u>	NWI classification: PSS1B
Are Vegetation , Soi Are Vegetation , Soi	GS - Attach site map show	significantly naturally pr wing sam	/ disturbed? oblematic?	(If nee	(If no, explain in Remarks.) formal Circumstances" present? Yes ● No ○ ided, explain any answers in Remarks.) s, transects, important features, etc.
Hydrophytic Vegetatio Hydric Soil Present?	n Present? Yes ● No ○ Yes ● No ○		Is	the Sam	pled Area
			wi	thin a W	etland? Yes No
Wetland Hydrology Pr	esent? Tes S No C	/			
	entific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species
1 Disea mariana		% Cover	Species?	Status	That are OBL, FACW, or FAC:5(A)
Picea mariana Picea mariana			✓	FACW	Total Number of Dominant
2. Picea glauca		5		FACU	Species Across All Strata:6(B)
3.					Percent of dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)
4. 5.					That Are OBL, FACW, or FAC: 83.3% (A/B)
J	Total Cover	0			Prevalence Index worksheet:
	Total Cover		of Total Covers		Total % Cover of: Multiply by:
Sapling/Shrub Stratum	50% of Total Cover:	7.5 20%	of Total Cover:	3	OBL Species <u>3.1</u> x 1 = <u>3.1</u>
Picea mariana		20	✓	FACW	FACW Species 105 x 2 = 210
Picea glauca		5		FACU	FAC Species <u>83.1</u> x 3 = <u>249.3</u>
Betula nana		40	✓	FAC	FACU Species 20 x 4 = 80
Salix pulchra		15		FACW	UPL Species0 x 5 =0
5. Spiraea stevenii		10		FACU	Column Totals: <u>211.2</u> (A) <u>542.4</u> (B)
6. Vaccinium uliginosum	<u> </u>	_30_	✓	FAC	
7. Vaccinium vitis-idaea		2		FAC	Prevalence Index = B/A =
8. Empetrum nigrum		_ 7		FAC	Hydrophytic Vegetation Indicators:
9. Ledum decumbens		20		FACW	✓ Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
Herb Stratum	Total Cover 50% of Total Cover:		of Total Cover	: 29.8	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Rubus chamaemorus	;	40	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Carex canescens (IA		1		FAC	¹ Indicators of hydric soil and wetland hydrology must
3. Ranunculus hyperbor	,	0.1		OBL	be present, unless disturbed or problematic.
Epilobium palustre		1		OBL	
5. Calamagrostis canad		- 2		FAC	Plot size (radius, or length x width) 10m
6. Carex aquatilis		2		OBL	% Cover of Wetland Bryophytes (Where applicable)
- D		0.1		FAC	% Bare Ground8
					Total Cover of Bryophytes 80
					, , , <u></u>
		0			Hydrophytic
	Total Cover	47.2			Vegetation
	50% of Total Cover:		of Total Cover:	9.44	Present? Yes No
Remarks: Lichon - 6 Col	ly/swale on plot with the oblice	to watland	cnn		
Remarks: Lichen = 6. Gu	ly/swale on plot with the obliga	te wetland	spp.		

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T166_02

Color (moist) % Color (moist) % Type Loc Texture Remarks	Profile Description: (Des	Matrix			dox Feature	es			
8-12 10/TR 3/1 100 Sit Liam 1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix 1 Indicators for Problematic Hydric Soils? 1 Indicators in Problematic Hydric Soils? 1 Indicators Soil Indicators: 1 Indicators for Problematic Hydric Soils? 2 Indicators Soil Adas Gleyed Without Hue SY or Redder Underlying Luyer 3 Indicators Soil Indicators: 1 Indicators for Problematic Hydric Soils? 4 Indicators for Problematic Hydric Soils? 4 Indicators of Hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present. 4 Give details of color change in Remarks Restrictive Layer (if present): 1 Type: Achieve layer Depth (inches): 12 Remarks: 4 POROLOGY Wetand Hydrology Indicators: Primary Indicators fare, one is sufficient) Hydric Soil Present? Yes No O No Sparsely Vegetated Concave Surface (88) Presence Reduced Iron (61) High Water Table (A2) Indicator Sign (2) Indicator Sign (2) High Water Table (A2) Indicator Sign (2) Indicator Sign (2) High Water Table (A2) Indicator Sign (2) Indicator Sign (2) High Water Table (A2) Indicator Sign (2) Indicator Sign (2) High Water Table (A2) Indicator Sign (2) Indicator Sign (2) Deft Deposits (52) Indicator Sign (2) Indicator Sign (2) Deft Deposits (62) Indicator Sign (2) Indicator Sign (2) Deft Deposits (63) Indicator Sign (2) Indicator Sign (2) Indicator Sign (2) Indicator Sign (2) Ind	: .	lor (moist)	%	Color (moist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks
Type: C=Concentration. D=Depletion. RM=Reduced Matrix Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soil Indicators: Histoso or Histel (A1) Hydric Soil Indicators: Histoso or Histel (A1) Hydric Soil Saska Alpine sweller (TAS) Histoso or Histel (A1) Hydrogen Sulfide (A2) Hydrogen Sulfide (A2) Alaska Redow With 2.5Y Hue Other (Explain in Remarks) Cone Indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present: **Give details of color change in Remarks** **Restrictive Layer (if present): Type: Active layer Depth (inches): 12 **Remarks: **Hydric Soil Present? Yes ® No Depth (inches): 12 **POROLOGY** **Wetland Hydrology Indicators: **Primary Indicators (any. one is sufficient) Hydric Soil Present? Yes ® No Device (Ras) Device (Ras) Hydric Soil Present? Yes ® No Device (Ras) Hydrogen Sulfide Odor (C1) Water Stande Leaves (89) Hydrogen Sulfide Odor (C1) Device (Ras) Secondary Indicators (two or more are required) Presence of Reduced Iron (C4) Sparsely Vegetated Concave Surface (88) Hydrogen Sulfide Odor (C1) Device (Ras) Hydrogen Sulfide Odor (C1) Device Secondary Indicators (No. or more are required) Device (Ras) Hydrogen Sulfide Odor (C1) Device Secondary Indicators (No. or more are required) Device Gas Device (Ras) De	0-8		100					Hemic Organics	
Hydric Soil Indicators: Histosol or Histe (A1)	8-12 10	YR 3/1	100					Silt Loam	
Hydric Soil Indicators: Histosol or Histe (A1)								-	
Hydric Soil Indicators: Histosol or Histe (A1)									-
Hydric Soil Indicators: Histosol or Histel (A1)									
Hydric Soil Indicators: Histosol or Histel (A1)									
Hydric Soil Indicators: Histosol or Histel (A1)									
Hydric Soil Indicators: Histosol or Histel (A1)									
Hydric Soil Indicators: Histosol or Histe (A1)									
Histosol or Histel (A1)	¹Type: C=Concentra	ion. D=Depletio	n. RM=Reduce	ed Matrix ² Location	on: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Histic Epipedon (A2)	Hydric Soil Indicate	ors:		Indicators for P	roblematic	Hydric So	oils: ³		
Hydrogen Sulfide (A4) □ Hydrogen Sulfide (A4) □ Hydrogen Sulfide (A4) □ Hydrogen Sulfide (A4) □ Hydrogen Sulfide (A4) □ Hydrogen Sulfide (A4) □ Hydrogen Sulfide (A4) □ Hydrogen Sulfide (A4) □ Alaska Redox (With 2.5° Hue □ Chter (Explain in Remarks) □ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present □ Alaska Redox (A14) □ Alaska Gleyed Pores (A15) □ Alaska Redox (With 2.5° Hue □ Alaska Gleyed (A13) □ Alaska Redox (With 2.5° Hue □ Chter (Explain in Remarks) □ Other (Explain in Remarks) □ Green (A15) □ Alaska Redox (With 2.5° Hue □ Chter (Explain in Remarks) □ Other (Explain in Remarks) □ Other (Explain in Remarks) □ Other (Explain in Remarks) □ Alaska Redox (With 2.5° Hue □ Chter (Explain in Remarks) □ Other (Explain in Remarks)	Histosol or Histel	(A1)		Alaska Color (Change (TA4)	4		Alaska Gleyed Without H	ue 5Y or Redder
Thick Dark Surface (A12)	✓ Histic Epipedon (2)		Alaska Alpine	swales (TA5)			Underlying Layer	
Alaska Gleyed (A13) Alaska Redox (A14) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Type: Active layer (if present): Type: Active layer (pepth (inches): 12 Remarks: ### Wetland Hydrology Indicators: Wetland Hydrology Indicators (two or more are required)	Hydrogen Sulfide	(A4)		Alaska Redox	With 2.5Y Hu	ie		Other (Explain in Remark	ss)
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Alaska Gleyed Pores (A15)	Alaska Gleyed (A:	3)							ydrology,
Restrictive Layer (if present): Type: Active layer Depth (inches): 12 Remarks: Hydric Soil Present? Yes No Present? Yes No		-		and an appropri	ate iandscape	position r	nust be pre	esent	
Type: Active layer Depth (inches): 12 Remarks: Hydric Soil Present? Yes No	Alaska Gleyed Po	es (A15)		⁴ Give details of	color change	in Remark	s		
Type: Active layer Depth (inches): 12 Remarks: Hydric Soil Present? Yes No	Restrictive Laver (if pr	esent):							
Pythology Wetland Hydrology Indicators: Primary. Indicators (any one is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Diff Deposits (B3) Algal Mat or Crust (B4) Surface Soil Cracks (B6) Depth (inches): Surface Water (B3) Depth (inches): Secondary Indicators (two or more are required) Water Stained Leaves (B9) Drainage Patterns (B10) Draina	_	•						Hydric Soil Present	? Yes O No O
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Wetland Hydrology Indicators: Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient) Water Stained Leaves (B9) Surface Water (A1) Inundation Visible on Aerial Imagery (B7) Drainage Patterns (B10) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (C3) ✓ Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deposits (C5) Sediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2) Algal Mat or Crust (B4) Shallow Aquitard (D3) Iron Deposits (B5) Microtopographic Relief (D4) Surface Soil Cracks (B6) Presenter (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? (includes capillary fringe) Yes No Depth (inches): 5 Depth (includes capillary fringe) Yes No Depth (inches): 5									
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✓ Saturation (A3)	Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (an	y one is sufficie	int)					Water Stai	ned Leaves (B9)
Water Marks (B1)	HYDROLOGY Wetland Hydrology Primary Indicators (ar	y one is sufficie 1)	nt)					Water Stai Drainage F	ned Leaves (B9) Patterns (B10)
Sediment Deposits (B2) □ Dry-Season Water Table (C2) ☑ Stunted or Stressed Plants (D1) □ Drift Deposits (B3) □ Other (Explain in Remarks) ☑ Geomorphic Position (D2) □ Algal Mat or Crust (B4) ☑ Shallow Aquitard (D3) □ Microtopographic Relief (D4) ☑ Surface Soil Cracks (B6) ☑ FAC-neutral Test (D5) ☐ Surface Water Present? Yes ○ No ○ Depth (inches): ☐ De	HYDROLOGY Wetland Hydrology Primary Indicators (ar	y one is sufficie 1)	int)	Sparsely Ve	getated Conc			Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
□ Drift Deposits (B3) □ Other (Explain in Remarks) ☑ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) ☑ FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes ○ No ② Depth (inches): Water Table Present? Yes ○ No ② Depth (inches): Saturation Present? Yes ○ No ② Depth (inches): Saturation Present? Yes ○ No ○ Depth (inches): 5 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	HYDROLOGY Wetland Hydrology Primary Indicators (ar Surface Water (A High Water Table V Saturation (A3)	y one is sufficie 1) (A2)	nt)	Sparsely Ve	getated Conc ts (B15)	ave Surfac		Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
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(includes capillary fringe) Yes Wildow Depth (inches): 5 Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Remarks: HYDROLOGY Wetland Hydrology Primary Indicators (an Surface Water (A) High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B1 Algal Mat or Crus Iron Deposits (B2 Surface Soil Crac Field Observations: Surface Water Preser	y one is sufficiently (A2) (A2) (S (B2) (S) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	○ No •	Sparsely Ve Marl Deposi Hydrogen S Dry-Season Other (Expl	getated Conci ts (B15) ulfide Odor (C Water Table ain in Remark	ave Surfac C1) (C2)	ee (B8)	Water Stai □ Drainage F □ Oxidized R □ Presence of Salt Depose ✓ Stunted or ✓ Geomorph ✓ Shallow Ac □ Microtopog ✓ FAC-neutra	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1) hic Position (D2) hit (D3) higher (D4) higher (D5) higher (D5)
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