WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bor	rough Sampling Date: 31-Jul-13
Applica	ant/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T158_03
	gator(s): CTS, AMD		Landform (hills	side, terrac	e, hummocks etc.): Flat
Local	elief (concave, convex, none): flat		Slope:	% / 2.5	
Subred	jion : Interior Alaska Mountains	Lat.:	63.367994785		Long.: -148.761120558 Datum: NAD83
	p Unit Name:		00.007004700	,	NWI classification: PSS1B
	natic/hydrologic conditions on the site typical for this ti	ima of va	or? Ves	No ○	(If no, explain in Remarks.)
		•	itly disturbed?		lormal Circumstances" present? Yes No
		•	problematic?		eded, explain any answers in Remarks.)
		•		•	
SUMI	MARY OF FINDINGS - Attach site map show	wing sa	mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No C)		4h a Cana	wlad Avas
	Hydric Soil Present? Yes O No •)			pled Area etland? Yes ○ No ◉
	Wetland Hydrology Present? Yes O No 🖲	•)	Wi	thin a W	etiand? Tes UNO U
Rema	arks:				
VEGE	TATION - Use scientific names of plants. Li	ist all sp	ecies in the	plot.	
		Absolute		Indicator	Dominance Test worksheet:
	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
1.		0			Total Number of Dominant
2.		0	_ 📙		Species Across All Strata: 3 (B)
3.		0	_		Percent of dominant Species
4.		0	_		That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0	_		Prevalence Index worksheet:
	Total Cover		_		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species x 1 =
1.	Picea glauca	0.1	<u> </u>	FACU	FACW Species 20.2 x 2 = 40.40
2.	Betula nana	10		FAC	FAC Species 67.3 x 3 = 201.9
3.	Vaccinium uliginosum	25		FAC	FACU Species <u>0.2</u> x 4 = <u>0.800</u>
4.	Vaccinium vitis-idaea	1		FAC	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Rhododendron tomentosum		_	FACW	Column Totals: <u>87.7</u> (A) <u>243.1</u> (B)
6.	Empetrum nigrum	30		FAC	Prevalence Index = B/A =
_	Arctous ruber Salix pulchra	0.1		FACW	
8. 9.	0-1" - "-1"	0.1		FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
10.	Salix richardsonii	0.1		TACV	✓ Prevalence Index is ≤3.0
10.	Total Cover		_		Morphological Adaptations 1 (Provide supporting data in
Her	b Stratum 50% of Total Cover:			: 17.28	Remarks or on a separate sheet)
1.	Festuca altaica	0.1		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Calamagrostis canadensis	0.1		FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex bigelowii	1		FAC	be present, unless disturbed or problematic.
4.	Lycopodium clavatum	0.1		FACU	Plot size (radius, or length x width)
5.		0	_ 🗆		% Cover of Wetland Bryophytes
6.			- =		(Where applicable)
			-		% Bare Ground
			-		Total Cover of Bryophytes
9.			-		
		0	_		Hydrophytic
10.					
10.	Total Cover : 50% of Total Cover:(0.20	Vegetation Present? Yes ● No ○

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T158_03

Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Drianage Patterns (B10) Presence of Reduced Iron (C4) Sati Deposits (B15) Drift Deposits (B3) Drift Deposits (B5) Surface Soil Cracks (B6) Field Observations: Surface Water Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	,, i ,	Matrix		ne the maleator	or confirm the abs Redox Featu		ators)		
9-5 10YR 3/3 100 5-14 2.5Y 4/2 100 15-20 5Y 4/2 95 10YR 4/6 5 C M toam 15-20 5Y 4/2 95 10YR 4/6 5 C M toam 17-ype: C=Concentration. D=Depletion, RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel, M=Matrix Hydric Soil Indicators: Histocolor visical (A1)		moist)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks
15-20 SY 4/2 95 10VR 4/6 5 C M Lean 17ype: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix 17ype: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix 17ype: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix 17ype: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix 17ype: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix 17ype: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix 17ype: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix 17ype: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix 17ype: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix 17ype: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix 17ype: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix 17ype: C=Concentration. D=Depletion. RM=Reduced Matrix 17ype: C=Conce	0-5 10YR	3/3	100					Silt Loam	
*Type: C=Concentration. D=Depletion. RM=Reduced Matrix ** Location: PL=Pore Lining. RC=Root Channel. M=Matrix ** Mydic Soil Indicators:	5-14 2.5Y	4/2	100					Silt Loam	
*Type: C=Concentration. D=Depletion. RM=Reduced Matrix ** Location: PL=Pore Lining. RC=Root Channel. M=Matrix ** Mydic Soil Indicators:	15-20 5Y	4/2	95	10YR 4		С.	м	Loam	
Hydric Soil Indicators: Histosol or Histe (A1)		- 1,2							
Hydric Soil Indicators: Histosol or Histe (A1)									
Hydric Soil Indicators: Histosol or Histe (A1)									
Hydric Soil Indicators: Histosol or Histe (A1)									
Hydric Soil Indicators: Histosol or Histe (A1)									
Hydric Soil Indicators: Histosol or Histe (A1)									
Histosol or Histel (A1)	¹ Type: C=Concentration.	D=Depletion.				_		annel. M=Matrix	
Histic Epipedon (A2)	Hydric Soil Indicators:]	Indicators fo	or Problemation	Hydric So	oils: ³		
Hydrogen Sulfide (A4)	Histosol or Histel (A1)			Alaska Col	or Change (TA4	1)4			ue 5Y or Redder
Thick Dark Surface (A12)	Histic Epipedon (A2)		[Alaska Alp	ine swales (TAS	5)		, , ,	
Alaska Gileyed (A13) 3 One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present	☐ Hydrogen Sulfide (A4)		[Alaska Red	dox With 2.5Y H	lue		Other (Explain in Remark	s)
Alaska Redox (AI4) Alaska Gleyed Pores (AI5) Restrictive Layer (if present): Type: Depth (inches): Remarks: Rem	Thick Dark Surface (A	12)		30	61 1 1 1				
Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Restrictive Layer (if present): Type: Depth (inches): Remarks: No hydric soil indicators AYDROLOGY Wetand Hydrology Indicators: Primary Indicators (any one is sufficient)	Alaska Gleyed (A13)								ydrology,
Aksta Gleyet Potes (A15)	Alaska Redox (A14)							cocine	
Type: Depth (inches): Remarks: No hydric soil indicators Page	Alaska Gleyed Pores (A	A15)		4 Give details	of color change	e in Remark	is .		
PORPORT (inches): Remarks: no hydric soil indicators **POROLOGY **Wettand Hydrology Indicators: Primary Indicators (any one is sufficient)		t):							
AYDROLOGY Wetland Hydrology Indicators Wetland Hydrology Indicators (two or more are required) Water Stained Leaves (B9) 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) Saturation (A3) Hydrogen Sulfide Odor (C1) Satl 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) FAC-neutral Test (D5) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:								Hydric Soil Present	? Yes ∪ No •
Wetland Hydrology Indicators: Wetland Hydrology Indicators: Wetland Hydrology Indicators: Water Stained Leaves (B9)	Deput (inches):								
Wetland Hydrology Indicators: Primary Indicators (any one is sufficient)									
Primary Indicators (any one is sufficient) Surface Water (A1)									
□ 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) □ 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) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ FAC-neutral Test (D5) □ Saturation Present? Yes □ No ● Depth (inches): □ Dep	HYDROLOGY								
High Water Table (A2)		cators:						Secondary Indi	cators (two or more are required)
Saturation (A3)	Wetland Hydrology Indi							Water Stair	ned Leaves (B9)
Water Marks (B1)	Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1)	e is sufficient)				_		Water Stair	ned Leaves (B9)
□ Sediment Deposits (B2) □ Dry-Season Water Table (C2) □ Stunted or Stressed Plants (D1) □ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ Microtopographic Relief (D4) □ Surface Soil Cracks (B6) □ Depth (inches): Water Table Present? Yes ○ No ○ Depth (inches): Saturation Present? Yes ○ No ○ Depth (inches): Saturation Present? Yes ○ No ○ Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2	e is sufficient)		Sparsely	Vegetated Cor	_		☐ Water Stail☐ Drainage P☐ Oxidized R	ned Leaves (B9) latterns (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) □ FAC-neutral Test (D5) □ Surface Water Present? Yes □ No ● Depth (inches): Water Table Present? Yes □ No ● Depth (inches): Wetland Hydrology Present? Yes □ No ● Depth (inches): □ Depth (inches): □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Remarks: □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: □ Describe Recorded Data (stream gauge, monitor	Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3)	e is sufficient)		Sparsely	Vegetated Cor	_		Water Stain Drainage F Oxidized R Presence o	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Security Present? Yes No Depth (inches): Security Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	e is sufficient)		Sparsely Marl Dep	Vegetated Cor posits (B15)	ncave Surfac		Water Stain Drainage F Oxidized R Presence o	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6) Field Observations: Surface Water Present? Yes ○ No ② Depth (inches): Water Table Present? Yes ○ No ② Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B	e is sufficient)		Sparsely Marl Dep Hydroge	Vegetated Corposits (B15) In Sulfide Odor	ncave Surfac		Water Stail Drainage F Oxidized R Presence o Salt Depos Stunted or	ned Leaves (B9) atterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1)
Surface Soil Cracks (B6) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	e is sufficient))		Sparsely Marl Dep Hydroge Dry-Seas	Vegetated Cor posits (B15) In Sulfide Odor Son Water Tabl	ncave Surfac (C1) e (C2)		Water Stain Drainage F Oxidized R Presence o Salt Depos Stunted or Geomorphi	ned Leaves (B9) htterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) htts (C5) Stressed Plants (D1) c Position (D2)
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	Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (BField Observations: Surface Water Present? Water Table Present? (includes capillary fringe)	yes Yes Yes	No • No • No •	Sparsely Marl Depth (i Depth (i Depth (i	Vegetated Corposits (B15) In Sulfide Odor Son Water Table Explain in Rema Inches): Inches): Inches):	ncave Surfac (C1) e (C2) rks)	Wetla	Water Stail □ Drainage F □ Oxidized R □ Presence o □ Salt Depos □ Stunted or □ Geomorphi □ Shallow Aq □ Microtopog ▼ FAC-neutra	ned Leaves (B9) atterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3) rraphic Relief (D4) I Test (D5)
only one secondary hydrology indicator observed	Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	yes Yes Yes	No • No • No •	Sparsely Marl Depth (i Depth (i Depth (i	Vegetated Corposits (B15) In Sulfide Odor Son Water Table Explain in Rema Inches): Inches): Inches):	ncave Surfac (C1) e (C2) rks)	Wetla	Water Stail □ Drainage F □ Oxidized R □ Presence o □ Salt Depos □ Stunted or □ Geomorphi □ Shallow Aq □ Microtopog ▼ FAC-neutra	ned Leaves (B9) atterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3) rraphic Relief (D4) I Test (D5)
	Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (BField Observations: Surface Water Present? Water Table Present? (includes capillary fringe)	yes Yes Yes	No • No • No •	Sparsely Marl Depth (i Depth (i Depth (i	Vegetated Corposits (B15) In Sulfide Odor Son Water Table Explain in Rema Inches): Inches): Inches):	ncave Surfac (C1) e (C2) rks)	Wetla	Water Stail □ Drainage F □ Oxidized R □ Presence o □ Salt Depos □ Stunted or □ Geomorphi □ Shallow Aq □ Microtopog ▼ FAC-neutra	ned Leaves (B9) atterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3) rraphic Relief (D4) I Test (D5)
	Wetland Hydrology Indi Primary Indicators (any on Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (st	yes Yes Orream gauge, I	No ● No ● No ● monitor well,	Sparsely Marl Depth (i Depth (i Depth (i	Vegetated Corposits (B15) In Sulfide Odor Son Water Table Explain in Rema Inches): Inches): Inches):	ncave Surfac (C1) e (C2) rks)	Wetla	Water Stail □ Drainage F □ Oxidized R □ Presence o □ Salt Depos □ Stunted or □ Geomorphi □ Shallow Aq □ Microtopog ▼ FAC-neutra	ned Leaves (B9) atterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3) rraphic Relief (D4) I Test (D5)

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