## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 26-Jun-12
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T20_04
Investiç	gator(s): SLI, LMF		Landform (hill	side, terrac	ce, hummocks etc.): Flat
Local r	elief (concave, convex, none): hummocky		Slope:	% / 4.4	4 ° Elevation: 568
Subrea	ion : Southcentral Alaska	Lat.:	62.725928189	 92	Long.: -148.821845787 Datum: NAD83
_	p Unit Name:	,	0220020.00		NWI classification: PSS3/1B
	natic/hydrologic conditions on the site typical for this	time of yea	r? Yes	No ○	(If no, explain in Remarks.)
	egetation , Soil , or Hydrology	•	ly disturbed?		Iormal Circumstances" present? Yes  No
	egetation , Soil , or Hydrology	·	roblematic?		eded, explain any answers in Remarks.)
SUMN	MARY OF FINDINGS - Attach site map sho		npling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes  No		le	the Sam	ipled Area
	Hydric Soil Present? Yes  No			thin a W	
	Wetland Hydrology Present? Yes   No				etialia: 135 - No -
Rema	rks: pronounced microtopography, ice-cored hummo	icks 1m nigi	n. Soli pit in mi	icro-low.	
VEGE	TATION -Use scientific names of plants. I	ist all sp	ecies in the	plot.	
		Absolute		Indicator	Dominance Test worksheet:
	e Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 7 (A)
	Picea mariana		. 💆	FACW	Total Number of Dominant
2.		0			Species Across All Strata: 7 (B)
3.					Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC:100.0% (A/B)
5.	Total Caus	0			Prevalence Index worksheet:
C	Total Cover		6 of Total Cover:		Total % Cover of: Multiply by:
Sapi	ling/Shrub Stratum 50% of Total Cover:	5 20%	_	2	OBL Species 0 x 1 = 0
1.	Picea mariana	10	. 💆	FACW	FACW Species 37 x 2 = 74
	Vaccinium uliginosum		. 💆	FAC	FACUS paging 2 x 3 = 120
	Vaccinium vitis-idaea			FAC	FACU Species 0 x 4 = 0
4.	Rhododendron tomentosum		. 💆	FACW	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Empetrum nigrum	10	- <b>✓</b>	FAC	Column Totals:
6.	Betula glandulosa	$-\frac{10}{0}$	. 🔻	FAC	Prevalence Index = B/A = 2.519
7.			. 📙		Undershit Vosetation Indicators
9.			. Д		Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%
		0			✓ Prevalence Index is ≤3.0
	Total Cove	er: 60			Morphological Adaptations <sup>1</sup> (Provide supporting data in
Her	<b>Stratum</b> 50% of Total Cover:			: 12	Remarks or on a separate sheet)
1.	Rubus chamaemorus	7	✓	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.					<sup>1</sup> Indicators of hydric soil and wetland hydrology must
					be present, unless disturbed or problematic.
4.		0			Plot size (radius, or length x width)
					% Cover of Wetland Bryophytes
			. 📙		(Where applicable)
					% Bare Ground
					Total Cover of Bryophytes
			1 1		I lead a selection
					Hydrophytic
				1.4	Vegetation Present?  Yes  No

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0.8	Depth Color (moi	(c+)	0/-	Color (maist)	0/	T 1	Loc <sup>2</sup>	Texture	Remarks
Type: C=Concentration. D=Depletion. RM=Reduced Matrix. **Location: PL=Pore Lining. RC=Root Channel. M=Matrix    Indicators   Indicators		St)		Color (moist)		I ype -	Loc		Remarks
Histosol or Histel (A1)								- Tierric Organics	_
Histosol or Histel (A1)								-	_
Histosol or Histel (A1)			— -						_
Histosol or Histel (A1)									
ydric Soil Indicators:    Histosol or Histel (A1)									
Histosic or Histe (A1)									
Histosol or Histel (A1)   Alaska Gleyed Mithout Hue SY or Redder Underlying Layer   Alaska Alpine swates (TA5)   Underlying Layer   Underlying L									
Histosol or Histel (A1)   Alaska Gleyed Mithout Hue SY or Redder Underlying Layer   Alaska Alpine swates (TA5)   Underlying Layer   Underlying L									
Histosol or Histel (A1)	Type: C=Concentration. D=	Depletion. F	RM=Reduc	ed Matrix <sup>2</sup> Location	ı: PL=Por	e Lining. RO	C=Root Cha	annel. M=Matrix	_
Histosol or Histos (A1) Histosol or Histos (A1) Histosol or Histos		· ·							
Hydric Epipedon (A2)   Hydrogen Sulfide (A4)   Alaska Alpine swales (TA5)   Underlying Layer   Alaska Gedox With 2.5' Hue	-					4	olis.	Alacka Clayed Without	Huo EV or Doddor
Hydrogen Sulfide (A4)	_ ` ` /					-			nue of or Reduer
Trick Dark Surface (A12)   Alaska Gleyed (A13)   Alaska Redox (A14)   Alaska Redox (A14)   Alaska Gleyed Pores (A15)   Alaska Gleyed Pores (A1	=				•	•		Other (Explain in Rema	rks)
Alaska Gleyed (A13)  Alaska Gleyed Pores (A15)  Alaska Gleyed Pores (A15)  Strictive Layer (if present):  Type: active layer (frozen) Depth (inches): 8  ### Warrie Soil Present? Yes ● No ●  Baturation (A3)  Water Table (B2)  Sediment Deposits (B15)  Bedier Harries (B1)  Sediment Deposits (B3)  Alaska Gleyed Present?  Present?  Present?  Alaska Gleyed Present?  Present?  Alaska Gleyed (A13)  Alaska Gleyed Present?  Alaska Gleyed (A15)  Alaska Redox (A14)  Alaska Gleyed (A15)  Alaska Redox (A14)  Alaska Gleyed Present?  Ago and an appropriate landscape position must be present  Ago and an appropriate landscape position must be present?  Ago and anappropriate landscape position must be present?  Ago and an appropriate landscape position must be present?  Ago and anappropriate landscape position must be present?  Ago and anappropriate la	¬ ′ • · ′			Alaska Redox V	7101 2.51 1	iuc		( )	-,
Alaska Redox (A14) Alaska Redox (A15)  4 Give details of color change in Remarks  strictive Layer (if present): Type: active layer (frozen) Depth (inches): 8  ### Agric Soil Present? Yes ** No **  **No **  **PROLOGY  **Ething Hydrology Indicators: **  **  **Imarks:  **  **  **  **  **  **  **  **  **	_ ` '								hydrology,
Alaska Gleyed Pores (A15)  *Give details of color change in Remarks  strictive Layer (if present):  Type: active layer (frozen) Depth (inches): 8  **Properties (inches): 8  *	7			and an appropriat	e landscap	e position	must be pro	esent	
Secondary Indicators (two or more are required financy (BP)  By PROLOGY  etland Hydrology Indicators:  Inundation Visible on Aerial Imagery (BP)  Surface Water (A1)  Surface Water (A1)  Surface Water (A2)  Saturation (A3)  Marl Deposits (B15)  Sectionary Indicators (two or more are required financy indicators (and one is sufficient)  Inundation Visible on Aerial Imagery (BP)  Surface Water (A1)  Water Marks (B1)  Water Marks (B1)  Dry-Season Water Table (C2)  Satil Deposits (C5)  Sediment Deposits (B3)  Dry-Season Water Table (C2)  Drift Deposits (B3)  Iron Deposits (B3)  Water Marks (B1)  Water Marks (B1)  Water Marks (B1)  Dry-Season Water Table (C2)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Iron Deposits (B5)  Wicrotopographic Relief (D4)  Water Marks (B6)  W FAC-neutral Test (D5)  Wetland Hydrology Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):  Baturation Present? Yes No Depth (inches):	_ ` '	)		4 Give details of co	olor change	e in Remarl	ks		
Type: active layer (frozen) Depth (inches): 8  PROLOGY  etland Hydrology Indicators:									
POROLOGY  etland Hydrology Indicators: cimary Indicators (any one is sufficient)  Surface Water (A1)  Surface Water (A1)  Surface Water (A2)  Sparsely Vegetated Concave Surface (B8)  Saturation (A3)  Marl Deposits (B15)  Presence of Reduced Iron (C4)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Drift Deposits (B3)  Other (Explain in Remarks)  Other (Explain in Remarks)  Sparsely Vegetated Concave Surface (B8)  With the Marks (B1)  Water Marks (B1)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Dry-Season Water Table (C2)  Stunted or Stressed Plants (D1)  Sediment Deposits (B3)  Other (Explain in Remarks)  Sparsely Vegetated Concave Surface (B8)  Wigney FAC-neutral Test (D5)  Wetland Hydrology 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):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Pepth (inches):		`						Undrie Ceil Duesen	12 Van (A) Na (
### Company Indicators:		)						nyaric Soil Presen	it? fes 😌 No 🔾
Secondary Indicators (two or more are required rimary Indicators (any one is sufficient)									
rimary Indicators (any one is sufficient)  Surface Water (A1)  High Water Table (A2)  Sparsely Vegetated Concave Surface (B8)  Oxidized Rhizospheres along Living Roots (C9)  Saturation (A3)  Marl Deposits (B15)  Presence of Reduced Iron (C4)  Salt Deposits (C5)  Sediment Deposits (B2)  Dry-Season Water Table (C2)  Drift Deposits (B3)  Other (Explain in Remarks)  Geomorphic Position (D2)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Surface Water Present?  Yes  No  Depth (inches):  Water Stained Leaves (B9)  Drainage Patterns (B10)  Oxidized Rhizospheres along Living Roots (C9)  Salt Deposits (C5)  Salt Deposits (C5)  Stunted or Stressed Plants (D1)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Microtopographic Relief (D4)  FAC-neutral Test (D5)  Wetland Hydrology Present?  Yes  No  Depth (inches):  Wetland Hydrology Present?  Yes  No  No  Depth (inches):  Bescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	emarks:								
High Water Table (A2)  Sparsely Vegetated Concave Surface (B8)  Saturation (A3)  Marl Deposits (B15)  Presence of Reduced Iron (C4)  Satt Deposits (C5)  Sediment Deposits (B2)  Dry-Season Water Table (C2)  Stunted or Stressed Plants (D1)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  eld Observations:  Surface Water Present?  Yes No Depth (inches):  Surface Plants (D5)  Depth (inches):  Surface Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	YDROLOGY	ors:						Secondary In	dicators (two or more are required)
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Water Marks (B1)	YDROLOGY Yetland Hydrology Indica			☐ Inundation Vi	sible on A	erial Image	ery (B7)	Water St	ained Leaves (B9)
Sediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) Drift Deposits (B3) Other (Explain in Remarks)  Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)  Eld Observations: Fac-neutral Test (D5)  Pepth (inches): Depth (inches):	POROLOGY etland Hydrology Indicationary Indicators (any one is Surface Water (A1)							Water St	ained Leaves (B9) Patterns (B10)
□ 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)  eld Observations: □ Uniface Water Present? Yes □ No □ Depth (inches): □ Depth (inches	POROLOGY etland Hydrology Indication on the imary Indicators (any one is Surface Water (A1) High Water Table (A2)			Sparsely Vege	etated Cor			Water St.  Drainage  Oxidized	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3
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	POROLOGY  Vetland Hydrology Indicar  rimary Indicators (any one is  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  ield Observations:  Surface Water Present?  Water Table Present?  Saturation Present?  Saturation Present?  Sincludes capillary fringe)  escribe Recorded Data (streater)	Yes O Yes O Yes O	No •	Sparsely Vege Marl Deposits Hydrogen Sul Dry-Season V Other (Explain  Depth (inchese	etated Cor s (B15) Ifide Odor Vater Tabl n in Rema ss): ss):	(C1) e (C2) rks)	wetla	Water St. Drainage Oxidized Presence Salt Depo Stunted of Geomorp Shallow A Microtope FAC-neut	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) osits (C5) or Stressed Plants (D1) hic Position (D2) Aquitard (D3) ographic Relief (D4) ral Test (D5)

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