## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 30-Jul-13
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T172_10
	gator(s): WAD, RWM		Landform (hill	side, terrac	ee, hummocks etc.): Flat
-	elief (concave, convex, none): concave		Slope: 0.0		
	ion : Interior Alaska Mountains	L at :	63.281491637		Long.: -148.25681746 Datum: WGS84
_		Lat	03.201491037		
	p Unit Name:		• V	No ○	NWI classification: PEM1E
Are V	egetation  , Soil , or Hydrology	significantly naturally pr wing sam	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes  No C		Is	the Sam	pled Area
	Hydric Soil Present? Yes   No   No			ithin a W	
	Wetland Hydrology Present? Yes   No C	)		a **	otiuna.
	TATION -Use scientific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet:  Number of Dominant Species
1.	e Stratum	% Cover	Species?	Status	That are OBL, FACW, or FAC:1 (A)
					Total Number of Dominant
2. 3.					Species Across All Strata: (B)
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)
5.					
0.	Total Cover	: 0			Prevalence Index worksheet:  Total % Cover of: Multiply by:
San	ling/Shrub Stratum 50% of Total Cover:		of Total Cover:	. 0	001.0
					. 10
	Dasiphora fruticosa	0.1		FAC	FACW Species 2 x 2 = 4  FAC Species 3 x 3 = 9
	Andromeda polifolia (IAM)	0.1		OBL	FACU Species 0 x 4 = 0
	Vaccinium oxycoccos	0.1		OBL	UPL Species 0 x 5 = 0
	Vaccinium uliginosum	$\frac{0.1}{0.1}$		FAC FAC	
6.	Betula nana			FAC	Column Totals: <u>45</u> (A) <u>53</u> (B)
7.					Prevalence Index = B/A = 1.178
					Hydranhytic Vocatation Indicators
9.					Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%
10.					✓ Prevalence Index is ≤ 3.0
	Total Cover b Stratum 50% of Total Cover:	0.5	6 of Total Cover	··· 0.1	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
-	Eriophorum scheuchzeri	5		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Carex aquatilis		<b>✓</b>	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Saussurea angustifolia			FAC	be present, unless disturbed or problematic.
4.	Eriophorum angustifolium	5		OBL	Plot size (radius, or length x width) 10m
5.	Trichophorum caespitosum	5		OBL	Plot size (radius, or length x width) 10m    % Cover of Wetland Bryophytes
6.	Dodecatheon pulchellum	1		FACW	(Where applicable)
7.	Carex bigelowii	2		FAC	% Bare Ground
8.	Parnassia palustris	1		FACW	Total Cover of Bryophytes
9.	Rubus chamaemorus	0.1		FACW	
10.		0			Hydrophytic
	<b>Total Cover</b> 50% of Total Cover:2		of Total Cover:	9.02	Vegetation Present? Yes ● No ○
Dom	arks: chrub covere missing arrival of help lands in a	lot			
Rem	arks: shrub covers missing arrival of helo, lands in p	lot.			

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SOIL Sampling Point: SW13\_T172\_10

**Type: C-Concentration. D-Depletion. RM-Reduced Matrix **Location: PL-Pere Lining. RC-Root Channel. M-Matrix  **Hydric Soil Indicators:	Depth	Matrix	the depth needed to document the indicator or confirm the absence of indicators)  Matrix Redox Features						
Hydric Soil Indicators:    Histosol or Histel (A1)	, i \	(moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
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 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 Histel (A1)	17	D. Danistian		- Markin 21		Lining DC	Daat Cha	and M. Matrico	
Histosol or Histel (A1)								nnel. M=Matrix	
Histic Epipedon (A2)						4	oils:		
Hydrogen Sulfide (A4)  Hydrogen Sulfide (A4)  Alaska Redox (Mth 2.5Y Hue  P Other (Explain in Remarks)  Alaska Redox (A12)  Alaska Gleyed (A13)  Alaska Gleyed (A13)  Alaska Gleyed Pores (A15)  Alaska Gleyed Po		•					Ш		lue 5Y or Redder
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A15) Alaska Gleyed Fores (A15)  Sestrictive Layer (if present): Type: none observed Depth (inches):  Semarks:  Sesume hydric soil due to hydrophytic vegetation and inundation.  WDROLOGY  Vetland Hydrology Indicators:  Frimary Indicators (anv one is sufficient)  Sourface Water (A1) High Water Table (A2) Seturation (A3) Marl Deposits (B1) Sediment Deposits (B3) Dirft Deposits (B3) Dirft Deposits (B3) Dirft Deposits (B3) Dirft Deposits (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Field Observations:  Surface Water Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):	=				, ,		<b>✓</b>	,	ke)
Alaska Gieyed (A13)  Alaska Redox (A14)  Alaska Redox (A14)  Alaska Redox (A14)  Alaska Redox (A15)  Alaska Redox (A16)  Alaska Redox (A17)  Alaska Redox (A17)  Alaska Redox (A18)  Alaska Redox (A19)  Betrition on the present?  Yes No No No Depth (inches):  Brimary Indicators (any one is sufficient)  Alaska Redox (A19)  Brimary Indicators (any one observed permits)  Alaska Redox (A19)  Alaska Redox (A19)  Brimary Indicators (any one observed permits)  Brimary Indicators (any one in sufficient)  Alaska Redox (A19)  Brimary Indicators (any one in Remarks (B10)  Alaska Redox (A19)  Brimary Indicators (any one in Remarks (B10)  Brimary Indicators (any one	_ ′ • ` `	•		Alaska Redux	WIUI Z.51 HU	le	•	Outer (Explain in Remai	10)
Alaska Redox (A14) Alaska Gleyed Pores (A15)		,							nydrology,
Alaska Gleyed Pores (A15)  *Give details of color change in Remarks  *Restrictive Layer (if present):  Type: none observed Depth (inches):  *Remarks:  *Remarks:  **Brain Alaska Gleyed Pores (A15)  **Brain Alaska Gleyed Pores (				and an appropria	ate landscape	position m	nust be pre	esent	
estrictive Layer (if present): Type: none observed Depth (inches):  ### Warric Soil Present? Yes No    No	_ ` '	(A15)		4 Give details of	color change	in Remarks	s		
Type: none observed Depth (inches):  ## Hydric Soil Present? Yes No Depth (inches):  ## No Depth (inches):  ## No Depth (inches):  ## Present Present? Yes No Depth (inches):  ## Depth (inches):  ## Hydric Soil Present? Yes No Depth (inches):  ## Depth (inches):  ## Hydric Soil Present? Yes No Depth (inches):  ## Depth (inches):  ## Hydric Soil Present? Yes No Depth (inches):  ## Drainage Present? Yes No Depth (inches):  ##									
Depth (inches):  emarks: ssume hydric soil due to hydrophytic vegetation and inundation.  **PDROLOGY**  Vetland Hydrology Indicators:	_	-						Hudvia Cail Dragont	.a Vac 🔍 Na 🔾
PYDROLOGY  Vettand Hydrology Indicators:		1						nyuric Son Present	.r res ⊕ No ∪
Secondary Indicators (two or more are required many Indicators (any one is sufficient)   Water Stained Leaves (B9)   Water Marka (B1)   Divided Rhizospheres along Living Roots (B15)   Presence of Reduced Iron (C4)   Salt Deposits (B15)   Presence of Reduced Iron (C4)   Salt Deposits (B15)   Salt Deposits (B2)   Dry-Season Water Table (C2)   Stunted or Stressed Plants (D1)   Drift Deposits (B3)   Other (Explain in Remarks)   Water Marka (B1)   Shallow Aquitard (D3)   Water Marka (B1)   Water Stained Leaves (B9)   Water Marka (B1)   Dry-Season Water Table (C2)   Stunded or Stressed Plants (D1)   Salt Deposits (B2)   Shallow Aquitard (D3)   Water Stained Order (C1)   Salt Deposits (B2)   Shallow Aquitard (D3)   Water Stained Care (Explain in Remarks)   Water Care (Explain in Remarks)   Water Stained Leaves (B9)   Water Stained Leaves (B9)   Water Stained Leaves (B9)   Water Stained Leaves (B9)   Depth (inches): 1   Water Table (C2)   Salt Deposits (B5)   Water Stained Leaves (B10)   Dry-Season Water Present? Yes No Depth (inches):   Depth (inches):   Wetland Hydrology Present? Yes No Depth (inches):   Wetland Hydrology Present? Yes No Depth (inches):   Dep									
Primary Indicators (any one is sufficient)    Water Stained Leaves (B9)   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 (B2)         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)       ✓ FAC-neutral Test (D5)         Steld Observations:       Surface Water Present?       Yes No Depth (inches):       Depth (inches):         Water Table Present?       Yes No Depth (inches):       Wetland Hydrology Present? Yes No Depth (inches):         Vescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	YDROLOGY								
High Water Table (A2)	Vetland Hydrology In								
Saturation (A3)	Vetland Hydrology In		nt)					Water Sta	ined Leaves (B9)
Water Marks (B1)	Vetland Hydrology In Primary Indicators (any Surface Water (A1)	one is sufficien	nt)					☐ Water Sta	ined 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)  □ Shallow Aquitard (D3)  □ Shallow Aquitard (D3)  □ Shallow Aquitard (D3)  □ Microtopographic Relief (D4)  □ Surface Soil Cracks (B6)  □ FAC-neutral Test (D5)  □ Surface Water Present?  Yes  ○ No  ○ Depth (inches): 1  □ No  ○ Depth (inches):  □ No  ○ Depth (inches):  □ Saturation Present?  Yes  ○ No  ○ Depth (inches):  □ Depth (inche	Vetland Hydrology In Primary Indicators (any of the second	one is sufficien	nt)	Sparsely Ve	getated Conc			☐ Water Sta ☑ Drainage I ☐ Oxidized F	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
□ Drift Deposits (B3) □ Other (Explain in Remarks) ☑ Geomorphic Position (D2) □ Shallow Aquitard (D3) □ Iron Deposits (B5) ☑ Microtopographic Relief (D4) □ FAC-neutral Test (D5) □ Surface Soil Cracks (B6) ☑ FAC-neutral Test (D5) □ Surface Water Present? Yes ○ No ○ Depth (inches): 1 □ Water Table Present? Yes ○ No ○ Depth (inches): Wetland Hydrology Present? Yes ○ No ○ Depth (inches): □	Vetland Hydrology In Primary Indicators (any Surface Water (A1) High Water Table (A Saturation (A3)	one is sufficien	nt)	Sparsely Ve	getated Conc ts (B15)	ave Surfac		Water Sta  ✓ Drainage I  Oxidized F  Presence o	ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C3) of Reduced Iron (C4)
□ 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 (	Vetland Hydrology In Primary Indicators (any ✓ Surface Water (A1)  High Water Table (A  Saturation (A3)  Water Marks (B1)	one is sufficien	nt)	Sparsely Ve Marl Deposi Hydrogen S	getated Conc ts (B15) ulfide Odor (0	ave Surfac		Water Sta  ✓ Drainage I  Oxidized F  Presence 0  Salt Depos	ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
□ Iron Deposits (B5) □ Surface Soil Cracks (B6) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □	Vetland Hydrology In Primary Indicators (any of the primary Indicators (any of the primary Indicators (any of the primary Indicators (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (	one is sufficien	nt)	Sparsely Ve Marl Deposi Hydrogen S Dry-Season	getated Conc ts (B15) ulfide Odor (O Water Table	ave Surfac C1) (C2)		Water Sta  ✓ Drainage I  Oxidized F  Presence 0  Salt Depos	ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1)
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Saturation Present? (includes capillary fringe)  Yes No Depth (inches):  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:	Vetland Hydrology In Primary Indicators (any Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust ( Iron Deposits (B5) Surface Soil Cracks	nne is sufficien (A2) (B2) (B4) (B6)		Sparsely Ve Marl Deposi Hydrogen S Dry-Season	getated Conc ts (B15) ulfide Odor (O Water Table	ave Surfac C1) (C2)		Water Sta  Prainage I  Oxidized F  Presence o  Salt Depos  Stunted of  Geomorph  Shallow Ac	ined Leaves (B9) Patterns (B10) thizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) dic Position (D2) quitard (D3) graphic Relief (D4)
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	Vetland Hydrology In Primary Indicators (any ✓ Surface Water (A1) ☐ High Water Table (A ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B3) ☐ Algal Mat or Crust (☐ Iron Deposits (B5) ☐ Surface Soil Cracks ☐ Sediment Deposits (B5) ☐ Surface Soil Cracks ☐ Iron Deposits (B5) ☐ Surface Soil Cracks ☐ Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	(B2) (B6)  Yes (Yes (Yes (Yes (Yes (Yes (Yes (Yes	No O No O No O	Sparsely Ve Marl Deposi Hydrogen S Dry-Season Other (Explain) Depth (inch	getated Conc ts (B15) ulfide Odor (C Water Table ain in Remark es): 1 es):	ave Surfac C1) (C2) (S)	Wetlar	Water Sta  V Drainage I Oxidized F Presence o Salt Depos Stunted or V Geomorph Shallow Ar V Microtopo	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) sic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
vet seage meadow with small hummocks dom by dwart strubs, almost strang.	Vetland Hydrology In Primary Indicators (any Virginiary Indicators (any Virginiary Indicators (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust ( Iron Deposits (B5) Surface Soil Cracks Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringer) Describe Recorded Data	(B2) (B6)  Yes (Yes (Yes (Yes (Yes (Yes (Yes (Yes	No O No O No O	Sparsely Ve Marl Deposi Hydrogen S Dry-Season Other (Explain) Depth (inch	getated Conc ts (B15) ulfide Odor (C Water Table ain in Remark es): 1 es):	ave Surfac C1) (C2) (S)	Wetlar	Water Sta  V Drainage I Oxidized F Presence o Salt Depos Stunted or V Geomorph Shallow Ar V Microtopo	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) r Stressed Plants (D1) sic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
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