WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 10-Jul-13
Applica	nt/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T135_03
	gator(s): JER		Landform (hill	lside, terrac	e, hummocks etc.): Undulating
Local r	elief (concave, convex, none):		Slope:	% / 2.1	
Subrea	ion : Southcentral Alaska	Lat.:	62.887216329	 98	Long.: -148.88653767 Datum: NAD83
	p Unit Name:		02.007210020		NWI classification: Upland
	natic/hydrologic conditions on the site typical for this ti	ima af va	or? Voc	○ No	(If no, explain in Remarks.)
			atly disturbed?		ormal Circumstances" present? Yes No
		•	problematic?		ded, explain any answers in Remarks.)
	•	-		·	
SUMN	MARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No				And Anna
	Hydric Soil Present? Yes No (pled Area etland? Yes ◯ No ◉
	Wetland Hydrology Present? Yes No C		Wi	ithin a W	etland? res UNO U
Rema		in. rocky	depressions hav	e stereocau	lon and other fruticose lichens underwater. saturated
	upland soils. relief is soil covered rocky mounds				
VEGE	TATION - Use scientific names of plants. L	ist all sr	necies in the	plot.	
	- Ose scientine names or planes E	Absolut		Indicator	Dominance Test worksheet:
Tree	e Stratum	% Cove		Status	Number of Dominant Species
1.		0			That are OBL, FACW, or FAC:3(A)
2.		0			Total Number of Dominant 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 Species0 x 1 =0
1.	Vaccinium uliginosum	25	~	FAC	FACW Species <u>11</u> x 2 = <u>22</u>
2.	Vaccinium vitis-idaea	10		FAC	FAC Species <u>73</u> x 3 = <u>219</u>
3.	Empetrum nigrum	25	~	FAC	FACU Species <u>15</u> x 4 = <u>60</u>
4.	Salix pulchra	7		FACW	UPL Species <u>0.1</u> x 5 = <u>0.500</u>
5.	Cassiope tetragona	3		FACU	Column Totals:99.1 (A)301.5 (B)
6.	Salix fuscescens	3		FACW	
7.	Loiseleuria procumbens	5	_ 📙	FACU	Prevalence Index = B/A = 3.042
8.	Spiraea stevenii	2	_	FACU	Hydrophytic Vegetation Indicators:
9.	Betula nana	3		FAC	✓ Dominance Test is > 50%
10.	Arctous alpinus	2	_	FACU	Prevalence Index is ≤3.0
Uau	Total Cover 50% of Total Cover:			r: 17	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
					Problematic Hydrophytic Vegetation ¹ (Explain)
1.	Anthoxanthum monticola ssp. alpinum Anemone narcissiflora	- <u>2</u> 1		UPL FACU	
2. 3.	The section of the se			UPL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4.	Onne binala di			FAC	
5.	Arctagrostis latifolia			FACW	Plot size (radius, or length x width) <u>10m</u>
6.	Festuca altaica	2		FAC	% Cover of Wetland Bryophytes (Where applicable)
7.					% Bare Ground
					Total Cover of Bryophytes 10
		0			Hydrophytic
	Total Cover	-			Vegetation
	50% of Total Cover:	7.05 20	% of Total Cover:	2.82	Present? Yes No
Rem	arks: standing water 3, fruticose lichens 50, claste,	cetisl, bar	re grnd is rock,		

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T135_03

Color (molets)	Depth (inches)	Color (m	noict)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
2-4 4-7 7-5YR 2-5/2 100 5ond 7-17 10VR 3/4 80 5ond 5ond 5ond 5one org inclan and 7.5yr 3/3, prethy ju 1 Type: C-Concentration. D-Depletion. RM-Reduced Matrix 2 Location: PL-Pore Lining, RC-Root Channel. M-Matrix 1 Type: C-Concentration. D-Depletion. RM-Reduced Matrix 3 Location: PL-Pore Lining, RC-Root Channel. M-Matrix 1 Type: C-Concentration. D-Depletion. RM-Reduced Matrix 3 Location: PL-Pore Lining, RC-Root Channel. M-Matrix 1 Indicators for Problematic Hydric Soils? 1 Indicators for Problematic Hydric Soils? 1 Indicator of Indicators: 1 Indicator of Problematic Hydric Soils? 1 Indicator of Indicators 1 Indicator of Indicators 1 Indicator of Problematic Hydric Soils? 1 Indicator of Indicators 1 Indicator of Indicators Indicator of Indicators Indicator of Indicators Indicator		COIOI (II	UISC)		Color (moist)	- 70	Туре	LUC		
4-7 7.5YR 2.5/2 100 Send some org inclos and 7.5yr 3/3. pretty jumbled. Send some org inclos and 7.5yr 3/3. pretty jumbled. Super saturated sands. no hydric soil indicators. Firype: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Histosol or Histed (A1)										w some silt and sand
## Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Proper C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Proper C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Proper C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Proper C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Proper C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Proper C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Proper C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Proper C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Proper C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Proper C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Proper C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining, RC=Root Channel. M=Matrix Proper C=Concentration. PL=Pore Reduced Matrix 2 Location:		7 5VP	2 5/2					-		W SSING SING GING SCHOOL
Type: C=Concentration. D=Depletion. RM=Reduced Matrix Tolicators for Problematic Hydric Soils?										
Histosol or Histel (A1) Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer (If present): Thick Dark Surface (A12) Alaska Redox (Mth 2.5Y Hue Other (Explain in Remarks Alaska Gleyed Pores (A15) 4 Give details of color change in Remarks Alaska Gleyed Pores (A15) 4 Give details of color change in Remarks Alaska Redox (Mth 2.5Y Hue Other (Explain in Remarks Alaska Gleyed Pores (A12) Alaska Cleyed Without Hue 5Y or Redder Underlying Layer Underlying Layer (If present) Alaska Gleyed Pores (A12) Alaska Cleyed Without Hue 5Y or Redder Underlying Layer Underlying L	7-17	101K							Jailu	Some org mash and 7.5yr 3/3. pretty j
Indicators:	Type: C=Conc	centration [)=Depletion		d Matrix ² Locatio	n: Pl =Pore	Lining RC	=Root Cha	nnel M=Matrix	
Histosol or Histel (A1)			- Боргоског							
Alaska Redox (A14) Alaska Redox (A15) 4 Give details of color change in Remarks estrictive Layer (if present): Type: frost or rock Depth (inches): 24 emarks: ixotropic layers after 7 got pretty jumbled. super saturated sands. no hydric soil indicators. Hydric Soil Present? Yes	Histosol or H Histic Epiped Hydrogen S Thick Dark S	Histel (A1) edon (A2) Gulfide (A4) Surface (A1	2)		Alaska Color C Alaska Alpine s Alaska Redox	hange (TA4) swales (TA5) With 2.5Y Hu	4 l ue		Underlying Layer Other (Explain in Rer	narks)
Type: frost or rock Depth (inches): 24 **Pararks: ixotropic layers after 7 got pretty jumbled. super saturated sands. no hydric soil indicators. **POROLOGY** **POROLOG	Alaska Redo	ox (A14)	15)		and an appropria	te landscape	position n	nust be pre		. , ,
POROLOGY Vetand Hydrology Indicators: Secondary Indicators (two or more are required) Water Stained Leaves (B9) Surface Water (A1) Water Table (A2) Souther Marks (B1) Water Marks (B1) Water Marks (B1) Water Marks (B1) Drift Deposits (B2) Drift Deposits (B2) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soli Cracks (B6) Water Table (Packs (B6) Surface Water (B6) Water Table (D2) Water Table (D2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Saturation Similar or Crust (B4) Dry-Season Water Table (C2) Dry-Season Water Table (estrictive Layer	r (if present)):							
emarks: ixotropic layers after 7 got pretty jumbled. super saturated sands. no hydric soil indicators. YDROLOGY	Type: frost	or rock							Hydric Soil Prese	ent? Yes ○ No •
Application									-	
Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Marl Deposits (B15) Sediment Deposits (B2) Drift Deposits (B3) Marl Or Crust (B4) Irron Deposits (B5) Surface Soil Cracks (B6) Surface Water Present? Presence of Reduced Iron (C4) Saturation (Passer) Setting of Cracks (B6) Water Marks (B1) Dry-Season Water Table (C2) Stunted or Stressed Plants (D1) Satl Deposits (C5) Stunded or Stressed Plants (D1) Satl Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2) Surface Soil Cracks (B6) FAC-neutral Test (D5) Saturation Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): 0 Depth (inches): 0 Depth (inches): 0 Depth (inches): 0 Destrib (available: vermarks: vermarks) Secondary Indicators (two or more are required) Water Stained Leaves (B9) Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Salt Deposits (B5) Satl Deposits (B5) Stunted or Stressed Plants (D1) Satl Deposits (B5) Microtopographic Relief (D4) FAC-neutral Test (D5) Saturation Present? Yes No Depth (inches): 0 Depth (inches): 0 Depth (inches): 0 Depth (inches): 0	Depth (inche	es): 24	pretty jum	bled. super sa	turated sands. no l	nydric soil ind	dicators.		•	
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Saturation Present? (includes capillary fringe) Yes No Depth (inches): 0 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:	Depth (inche emarks: hixotropic layers YDROLOG Vetland Hydro Surface Wa ✓ High Water ✓ Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Depos Surface Soi iield Observat	s after 7 got S Y S of Y S	cators: e is sufficien)	nt)	Inundation V Sparsely Veg Marl Deposit Hydrogen Su Dry-Season V Other (Expla	/isible on Aer letated Conc s (B15) ulfide Odor (G Water Table in in Remark	rial Imagei ave Surfac C1) (C2)		Secondary: Water Draina Oxidize Presen Salt De Stunte Geomo	Indicators (two or more are required) Stained Leaves (B9) ge Patterns (B10) ad Rhizospheres along Living Roots (C3) ace of Reduced Iron (C4) eposits (C5) d or Stressed Plants (D1) urphic Position (D2) v Aquitard (D3) epographic Relief (D4)
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