WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 08-Jul-13
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T128_06
	gator(s): JER		Landform (hil	lside, terrac	e, hummocks etc.): Knob
	relief (concave, convex, none): undulating		Slope:	% / 0.3	
	· <u>· · · · · · · · · · · · · · · · · · </u>	l at :			
	gion : Southcentral Alaska	Lal	62.947159647	/8	
	ap Unit Name:				NWI classification: Upland
Are \	matic/hydrologic conditions on the site typical for this $^\prime$ egetation \square , Soil \square , or Hydrology \square $^\prime$ egetation \square , Soil \square , or Hydrology \square	significan	ar? Yes itly disturbed? problematic?		(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sh	nowing sa	mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes O No		1 01		, , , , , , , , , , , , , , , , , , , ,
	· · · · · · · · · · · · · · · · · · ·		Is	the Sam	pled Area
	· · · · · · · · · · · · · · · · · · ·		wi	ithin a W	etland? Yes ○ No ●
Rem	Wetland Hydrology Present? Yes ○ No arks: sdev sdel, rock at surface, upland		· ·		
VEGI	ETATION -Use scientific names of plants.	Absolut	e Dominant	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.		0	_		Percent of dominant Species
4.		0	_		That Are OBL, FACW, or FAC: 42.9% (A/B)
5.		0	_		Prevalence Index worksheet:
	Total Cov				Total % Cover of: Multiply by:
Sap	lling/Shrub Stratum 50% of Total Cover:	020	% of Total Cover	:0	OBL Species <u>0</u> x 1 = <u>0</u>
1.	Vaccinium uliginosum	35		FAC	FACW Species <u>5</u> x 2 = <u>10</u>
2.	Vaccinium vitis-idaea	5	_	FAC	FAC Species <u>51.1</u> x 3 = <u>153.3</u>
3.	Loiseleuria procumbens	10		FACU	FACU Species 30 x 4 = 120
4.	Empetrum nigrum		_	FAC	UPL Species <u>1</u> x 5 = <u>5</u>
5.	Salix fuscescens		_ 📙	FACW	Column Totals: <u>87.1</u> (A) <u>288.3</u> (B)
6.	Arctous alpinus	10		FACU	Prevalence Index = B/A = 3.310_
	Cassiope tetragona		-	FACU	
8.	Salix rotundifolia		-	FAC	Hydrophytic Vegetation Indicators:
9.	Diapensia lapponica	$-\frac{1}{0}$		UPL	Dominance Test is > 50%
10.	Total Cov				Prevalence Index is ≤3.0
Hei	b Stratum 50% of Total Cover:		 0% of Total Cove	r: 15.6	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.	Anthoxanthum monticola ssp. alpinum	2	✓	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Anemone narcissiflora			FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Spinulum annotinum	-		FACU	be present, unless disturbed or problematic.
4.	Carex bigelowii		✓	FAC	District of all and booth with the
5.	Carex podocarpa	` 1	✓	FAC	Plot size (radius, or length x width) 10m
6.	Calamagrostis canadensis	0.1		FAC	% Cover of Wetland Bryophytes (Where applicable)
7.		0			% Bare Ground
					Total Cover of Bryophytes 10
		0			Hydrophytic
1	Total Cov	er: 9.1	_		Vegetation Present? Yes ○ No ●
	50% of Total Cover:			1.82	Present? Yes ∪ No •

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SOIL Sampling Point: SW13_T128_06

Oil 1. 150	(inches)	Color (m	oict)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
S-13 2.5V 3/3 100 Caese Loamy Sand fine to course grid and cotables		COIOI (III	oist,		Color (moist)		Турс	LUC	Fibric Organics	
8-13 2.57 3/3 100 Coarse Leaviny Send free to course gryl and cotates 13-17 2.57 4/3 100 Sendy Leavin free to course gryl and cotates 13-17 2.57 4/3 100 Sendy Leavin free to course gryl and cotates 14-17 2.57 4/3 100 Sendy Leavin free to course gryl and cotates 15-17 2.57 4/3 100 Sendy Leavin free to course gryl and cotates 15-17 2.57 4/3 100 Sendy Leavin free to course gryl and cotates 16-17 2.57 4/3 100 Sendy Leavin free to course gryl and cotates 17 2.57 4/3 100 Sendy Leavin free to course gryl and cotates 17 2.57 4/3 100 Sendy Leavin free to course gryl and cotates 18 2.57 4/3 100 Sendy Leavin free to course gryl and cotates 18 2.57 4/3 100 Sendy Leavin free to course gryl and cotates 18 2.57 4/3 100 Sendy Leavin free to course gryl and cotates 18 2.57 4/3 100 Sendy Leavin free to course gryl and cotates 18 2.57 4/3 100 Sendy Leavin free to course gryl and cotates 18 2.57 4/3 100 Sendy Leavin free to course gryl and cotates 18 2.57 4/3 100 Sendy Leavin Lea	1-8	10YR	3/3	100					Coarse Sandy Loam	fine to corse gryl and cobbles
13-17 2.57 4/3 100 Sandy Leam fine to course grid and cobbies									Coarse Loamy Sand	
Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 3 Location: PL=Pore Lining. PL=Pore Lining. RC=Root Channel. M=Matrix 3 Location: PL=Pore Lining. PL=Pore Lining. RC=Root Channel. M=Matrix 4 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 4 Location: PL=Pore Lining. RC=Root Channel. M=Matrix 4 Location: PL=Pore Lining. Rcannel. Location: PL=Pore Lining. Rca										
Histosol or Histel (A1)	13-17	2.51	- 4/3						Salidy Loans	inne to course grvi and cobbles
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Histosol or Histel (A1)										
Histosol or Histel (A1) Histosol or Histel (A2) Alaska Alpine swales (TA5) Horderphing Layer Hydrogen Sulface (A4) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) 3 one indicator 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 estrictive Layer (if present): Type: Depth (inches): ### Hydric Soil Present? Yes No ● Popth (inches): ### Present Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1) Drift Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Drift Deposits (B3) Under Vater Present? Feel No ● Depth (inches): ### Wetland Hydrology Present? Yes No ● Depth (inches): ### Wetland Hydrology Present? Yes No ● Depth (inches): ### Wetland Hydrology Present? ### Wetland Hydrology Prese	Type: C=Con	centration. D	=Depletion						nnel. M=Matrix	
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