WETLAND DETERMINATION DATA FORM - Alaska Region

t/Site: Susitna-Watana Hydroelectric Project		Bor	ough/City:	Matanusk	ca-Susitna Borough Sampling Date: 03-Aug-13
ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T173_01
gator(s): BAB		La	ndform (hills	side, terrac	e, hummocks etc.): mountain top
relief (concave, convex, none): rolling		SI	ope: 7.0	% / 4.0	Elevation: 1222
gion : Interior Alaska Mountains	Lat	.: 63	.15913531		Long.: -148.267906057 Datum: WGS84
ap Unit Name:					NWI classification: Upland
/egetation ☐ , Soil ☐ , or Hydrology ☐ /egetation ☐ , Soil ☐ , or Hydrology ☐ MARY OF FINDINGS - Attach site map sl	significa naturall nowing s	antly d y prob	isturbed? lematic?	Are "N (If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.
Hydric Soil Present? Wetland Hydrology Present? Yes No No	•	t appa	wit	thin a W	
ETATION -Use scientific names of plants	List all	speci	es in the r	olot.	
- Coo scientific names of plants			<u> </u>		Dominance Test worksheet:
e Stratum					Number of Dominant Species
					That are OBL, FACW, or FAC: (A)
		0			Total Number of Dominant Species Across All Strata: 4 (B)
		_			Percent of dominant Species
		0			That Are OBL, FACW, or FAC: 25.0% (A/B)
		0			Prevalence Index worksheet:
Total Co	/er:(Total % Cover of: Multiply by:
oling/Shrub Stratum 50% of Total Cover:	0:	20% of	Total Cover:	0	OBL Species 0 x 1 = 0
Loiseleuria procumbens		8	✓	FACU	FACW Species 2 x 2 = 4
Drawa astanatala		5	✓	UPL	FAC Species <u>8.1</u> x 3 = <u>24.30</u>
Vaaainium uliainaaum		2		FAC	FACU Species <u>15.1</u> x 4 = <u>60.40</u>
Colin aration		3		FACU	UPL Species 7.1 x 5 = 35.5
Betula nana		1		FAC	Column Totals: <u>32.3</u> (A) <u>124.2</u> (B)
Cassiope tetragona		1		FACU	
Arctostaphylos rubra		4		FAC	Prevalence Index = B/A =3.845_
		0			Hydrophytic Vegetation Indicators:
					☐ Dominance Test is > 50%
					☐ Prevalence Index is ≤3.0
			f Total Cover:	4.8	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Anthoxanthum monticola ssp. alpinum		3	~	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
		2	✓	FACW	¹ Indicators of hydric soil and wetland hydrology must
Antennaria monocephala		1		UPL	be present, unless disturbed or problematic.
		_		UPL	Plot size (radius, or length x width)
					% Cover of Wetland Bryophytes
Footuge rubre		_			(Where applicable)
Antonnaria fricciona		1		UPL	% Bare Ground 40
Antennaria mesiana		0			Total Cover of Bryophytes
		_			
		0			Hydronhytic
Total Cov		_			Hydrophytic Vegetation Present? Yes No No
	gator(s): BAB relief (concave, convex, none): rolling gion: Interior Alaska Mountains ap Unit Name: matic/hydrologic conditions on the site typical for thi //egetation	gator(s): BAB elief (concave, convex, none): rolling gion: Interior Alaska Mountains punit Name: matic/hydrologic conditions on the site typical for this time of y degetation	gator(s): BAB La: elief (concave, convex, none): rolling SI glion: Interior Alaska Mountains Lat:: 63 gp Unit Name: matic/hydrologic conditions on the site typical for this time of year? fegetation	gator(s): BAB	gator(s): BAB

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SOIL Sampling Point: SW13_T173_01

Depth (inches) Color (mo			dox Features	indicators)		
	oist) %	Color (moist)	% Type	1 Loc ²	Texture	Remarks
0-2 7.5YR	3/1 100				Loam	high organic content
2-10 10YR	4/3 100				Sandy Loam	
					Gravel-Cobble	mateix six no code and to coomi and and
					Gravei-Cobble	matrix air, no seds. ang to seemi ang grvl a
					-	
¹Type: C=Concentration. D	=Depletion. RM=Red	uced Matrix ² Location	n: PL=Pore Lining	. RC=Root Cha	annel. M=Matrix	
Hydric Soil Indicators:		Indicators for Pr	oblematic Hydri	c Soils:		
Histosol or Histel (A1)		Alaska Color Ch	nange (TA4)		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)		Alaska Alpine s	wales (TA5)		Underlying Layer	
Hydrogen Sulfide (A4)		Alaska Redox V	Vith 2.5Y Hue		Other (Explain in Remark	s)
☐ Thick Dark Surface (A12)					
Alaska Gleyed (A13)	,				mary indicator of wetland h	ydrology,
Alaska Redox (A14)		and an appropriat	e iandscape positi	ion must be pro	esent	
Alaska Gleyed Pores (A1	5)	⁴ Give details of co	olor change in Ren	narks		
Restrictive Layer (if present):						
Type:					Hydric Soil Present	? Yes ○ No •
Depth (inches):						
HYDROLOGY						
Wetland Hydrology Indica	itors:					
					_Secondary Indi	cators (two or more are required)
Primary Indicators (any one					Water Stai	ned Leaves (B9)
Surface Water (A1)			isible on Aerial Im		Water Stai	ned Leaves (B9) latterns (B10)
Surface Water (A1) High Water Table (A2)		Sparsely Veg	etated Concave Su		Water Stai Drainage F Oxidized R	ned Leaves (B9) latterns (B10) hizospheres along Living Roots (C3)
Surface Water (A1) High Water Table (A2) Saturation (A3)			etated Concave Su		Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) htterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Sparsely Veg Marl Deposits Hydrogen Su	etated Concave Su s (B15) Ifide Odor (C1)		Water Stai Drainage F Oxidized R Presence c Salt Depos	ned Leaves (B9) atterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		Sparsely Veg Marl Deposits Hydrogen Su Dry-Season V	etated Concave Su s (B15) Ifide Odor (C1) Water Table (C2)		Water Stai Drainage F Oxidized R Presence c Salt Depos Stunted or	ned Leaves (B9) atterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1)
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