WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-13								
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T173_03								
Investigator(s): BAB Landform (hillside, terrace, hummocks etc.): Saddle Local relief (concave, convex, none): hummocky Slope: % / 3.7 ° Elevation: 113													
		1 -1	· · —										
_	ion : Interior Alaska Mountains	Lat.:	63.163558087	78	Long.:148.271486568								
Soil Ma	Soil Map Unit Name: NWI classification: Upland												
Are V Are V		significant naturally p wing sar	ly disturbed? roblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ideded, explain any answers in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ideded, explain any answers in Remarks.)								
		the Sam	pled Area										
	· · · · · · · · · · · · · · · · · · ·				Vetland? Yes ○ No ●								
	Wetland Hydrology Present? Yes No •		ļ.										
Tree	TATION - Use scientific names of plants. Li	st all spo Absolute % Cover	Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)								
1.		0			Total Number of Dominant								
2.		0			Species Across All Strata: 4 (B)								
3.		0			Percent of dominant Species								
4.		0	. 🔲		That Are OBL, FACW, or FAC: 50.0% (A/B)								
5.		0	. \square		Prevalence Index worksheet:								
	Total Covers				Total % Cover of: Multiply by:								
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover:	0	OBL Species 0 x 1 = 0								
1	Rhododendron tomentosum	2		FACW	FACW Species 4 x 2 = 8								
2.	Dryas ajanensis	5		UPL	FAC Species 39.2 x 3 = 117.6								
3.	Empotrum pigrum	30	. 🔽	FAC	FACU Species 24.3 x 4 = 97.20								
	Caliv ratioulata	2		FAC	UPL Species 6 x 5 = 30								
5.	Caliv aration	1		FACU									
6.	Vaccinium vitia idaga	1		FAC	Column Totals: <u>73.5</u> (A) <u>252.8</u> (B)								
	Cassiope tetragona	20	· •	FACU	Prevalence Index = B/A = 3.439								
8.	Vaccinium uliginosum	1		FAC	Hydrophytic Vegetation Indicators:								
	Salix pulchra	1		FACW	Dominance Test is > 50%								
10.	Canx paiorita				Prevalence Index is ≤3.0								
10.	Total Cover:	63			Morphological Adaptations (Provide supporting data in								
Her	b Stratum 50% of Total Cover:		% of Total Cover	12.6	Remarks or on a separate sheet)								
1.	Anthoxanthum monticola ssp. alpinum	1		UPL	Problematic Hydrophytic Vegetation ¹ (Explain)								
2.	Anemone narcissiflora		· •	FACU	¹ Indicators of hydric soil and wetland hydrology must								
3.	Festuca altaica		· •	FAC	be present, unless disturbed or problematic.								
4.	Antennaria alpina	0.1		FACU									
5.	Poa alpina	0.1		FACU	Plot size (radius, or length x width)								
6.	Senecio hyperborealis	1		UPL	% Cover of Wetland Bryophytes (Where applicable)								
7.	Carex atrofusca	1		FACW	, , ,								
8.	Bistorta vivipara	0.1		FAC	% Bare Ground3 Total Cover of Bryophytes10								
9.	Gentiana glauca	0.1		FAC	Total cover of bryophytes								
	Pyrola asarifolia	0.1		FACU	Hadaah.da								
Total Cover: 10.5 Vegetation													
			6 of Total Cover:	2.1	Present? Yes O No •								
-					1								
Rem	arks: bryophytes 50/50 moss lichen pedcap trace collected												

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SOIL Sampling Point: SW13_T173_03

Profile Description: (Describe to the depth needed to do					nfirm the ab		ators)					
Depth (inches)	Color (me		%	Color (moist)	%	Type ¹	Loc ²	- Texture	Remarks			
0-3	COIOI (III	JISC)	100	Color (Illoist)		Туре	LUC	Hemic Organics	w some mineral. ang to semi ang grvl 2 co			
	10VD	2/2						Sandy Loam	. —			
3-19	10YR	3/3	100					Saliuy Loalii	ang to semi ang gravel to cobbles			
					-		-					
							-	-				
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil I	Hydric Soil Indicators: Indicators for Problematic Hydric Soils. ³											
Histosol or	Histosol or Histel (A1) Alaska Color Change (TA4)							Alaska Gleyed Without Hue 5Y or Redder				
Histic Epip	edon (A2)			Alaska Alpine s	e swales (TA5) Underlying Layer							
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y H	lue		Other (Explain in Remar	(S)			
☐ Thick Dark	Surface (A12)		_								
Alaska Gle	yed (A13)			One indicator of and an appropria				mary indicator of wetland h	nydrology,			
Alaska Rec	dox (A14)			ани ан арргорна	te iaiiuscap	e position i	nust be pre	esent				
Alaska Gle	yed Pores (A1	5)		⁴ Give details of o	olor change	e in Remark	S					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes ○ No •			
Depth (inch	nes):							•				
Remarks:												
no hydric soil in	ndicators obse	rved										
no nyane son m	idicators obsc	vcu										
HYDROLO												
Wetland Hydi									cators (two or more are required)			
Primary Indica	tors (any one	is sufficient)						Water Stained Leaves (B9)				
	☐ Surface Water (A1) ☐ Inundation Visible on Aerial Imager											
☐ High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfac	e (B8)		hizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposit	,				of Reduced Iron (C4)			
Water Marks (B1) Hydrog					ılfide Odor	(C1)		☐ Salt Depos				
Sediment Deposits (B2) Dry-Season Water Table (C2)							Stunted or	Stressed Plants (D1)				
☐ Drift Depo	osits (B3)			Other (Expla	in in Rema	rks)		Geomorph	ic Position (D2)			
Algal Mat	or Crust (B4)							Shallow Ad	quitard (D3)			
Iron Depo	sits (B5)							Microtopo	graphic Relief (D4)			
Surface So	oil Cracks (B6))						FAC-neutra	al Test (D5)			
Field Observa												
Surface Water	Present?	Yes \bigcirc	No 🕑	Depth (inche	es):							
Water Table P	resent?	Yes 🔾	No 💿	Depth (inche	es):		Wetla	nd Hydrology Presen	it? Yes 🔾 No 🖲			
Saturation Pre	esent?	Voc (No 💿	Donth (inch								
Saturation Present? (includes capillary fringe) Yes No Depth (inches):												
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
no wetland hyd	Irology indicat	ors observed	i									

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