WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Aug-12			
Applica	nt/Owner: Alaska Energy Authority			-	Sampling Point: SW12_T34_01			
	gator(s): SLI, KMK		Landform (hill	side, terrac	e, hummocks etc.): Ridgetop			
	elief (concave, convex, none): convex		Slope: 8.7					
	ion : Southcentral Alaska	l at :	62.898134911		Long.: -148.694053312 Datum: WGS84			
_		Lat	02.090134911	0				
	p Unit Name:		- \	No ○	NWI classification: Upland			
Are V Are V	egetation , Soil , or Hydrology	significantl naturally p wing san	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No		ls	the Sam	pled Area			
	Hydric Soil Present? Yes No		within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes O No 🤄			tiiii a vv	otiuna.			
Rem	TATION -Use scientific names of plants. L	ist all spe	ecies in the	plot.	Dominance Test worksheet:			
_		Absolute % Cover			Number of Dominant Species			
1 ree	e Stratum	<u>% Cover</u>	Species?	Status	That are OBL, FACW, or FAC: (A)			
2.					Total Number of Dominant			
3.		- 0			Species Across All Strata:5 (B)			
4.		- 0			Percent of dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)			
5.								
	Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	001.0 :			
-			_		OBL Species 0 x 1 = 0 FACW Species 0 x 2 = 0			
	Salix rotundifolia		✓	FAC	FAC Species 22 x 3 = 66			
2. 3.	Diapensia lapponica Cassiope tetragona		✓	UPL FACU	FACU Species 14 x 4 = 56			
4.	Vaccinium vitis-idaea			FAC	UPL Species 15 x 5 = 75			
5.				TAC				
6.					Column Totals: <u>51</u> (A) <u>197</u> (B)			
7.		0			Prevalence Index = B/A = 3.863			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
Herl	Total Cover 50% of Total Cover:		% of Total Cover	: 6.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex microchaeta	_ 7_	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Campanula lasiocarpa			UPL	¹ Indicators of hydric soil and wetland hydrology must			
3.	Antennaria rosea	2		UPL	be present, unless disturbed or problematic.			
4.	Anthoxanthum monticola ssp. alpinum	3	✓	FACU	Plot size (radius, or length x width)			
5.	Lloydia serotina			FACU	% Cover of Wetland Bryophytes			
6.	Artemisia frigida			UPL	(Where applicable)			
7.	Gentiana glauca			FAC	% Bare Ground			
8.	Luzula arctica			FAC	Total Cover of Bryophytes			
9.								
10.	wa	0			Hydrophytic			
	Total Cover 50% of Total Cover:		of Total Cover:	3.8	Vegetation Present? Yes ○ No ●			
1	John of Total Cover.	٠.٠ ـ ١٠٠		.1.0				

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SOIL Sampling Point: SW12 T34 01

Profile Descript	ion: (Describe to t	he denth ne	eded to docu	ment the indicator or co	nfirm the at	sence of indic	ators)		110mc. 5W12_154_61			
		ne depui ne latrix	eded to doca		dox Featu		dluisj					
Depth (inches)	Color (moi	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
05					_			Silt	eolian silt 50%, hemic 50%			
.5-1.5	5YR	3/3	100					Sandy Loam				
1.5-12		3/4	80		-			Coarse Sandy Loam	20% subangular gravel-cobble			
12-18	10YR	3/4	95					Fine Sandy Loam	-			
								Tille Salidy Loani	5% subangular gravels			
¹Type: C=Co	ncentration. D=	Depletion.	RM=Reduc	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix				
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric Sc	oils: ³					
l —	r Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without H	ue 5Y or Redder			
	pedon (A2)			Alaska Alpine s		-	_	Underlying Layer				
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remark	(S)			
Thick Darl	k Surface (A12)											
Alaska Gle	eyed (A13)			³ One indicator of and an appropriat				mary indicator of wetland h	nydrology,			
Alaska Re	dox (A14)				,	•		esent				
Alaska Gle	eyed Pores (A15)		4 Give details of co	olor chang	e in Remark	S					
Restrictive Lay	er (if present):											
Type:	. () 7							Hydric Soil Present	? Yes ○ No ●			
Depth (incl	nes):							,				
Remarks:												
	ndicators											
no nyane son n	no hydric soil indicators											
HYDROLO												
-	rology Indicat								cators (two or more are required)			
	itors (any one is	sufficient)						ned Leaves (B9)			
	Vater (A1)			Inundation V		-			Patterns (B10)			
	er Table (A2)		Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)				
Saturation				Marl Deposits	. ,				of Reduced Iron (C4)			
☐ Water Ma				Hydrogen Su				☐ Salt Depos				
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)			
☐ Drift Dep				U Other (Expla	in in Rema	irks)		_	ic Position (D2)			
	or Crust (B4)								quitard (D3)			
Iron Depo									graphic Relief (D4)			
	oil Cracks (B6)							FAC-neutra	al Test (D5)			
Field Observa		V (No •	5 4 6 1								
Surface Wate	r Present?			Depth (inche	:s):							
Water Table F	Present?	Yes 🤇	No 💿	Depth (inche	s):		Wetla	nd Hydrology Presen	it? Yes O No 💿			
Saturation Pro (includes capi		Yes \bigcirc	No •	Depth (inche	es):							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Domarka												
Remarks:	4 .1											
no wetland hyd	drology indicato	rs										

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