WETLAND DETERMINATION DATA FORM - Alaska Region

riojec	/Site: Susitna-Watana Hyd	roelectric Project	ВС	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Aug-12				
Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T35_02										
Investi	gator(s): CTS, EKJ		e, hummocks etc.): Gulch or Gully							
Local r	elief (concave, convex, none)	concave		Slope: 3.5	% / 2.0	° Elevation: 1108				
Subred	jion: Southcentral Alaska		Lat.: 6	 32.899329908		Long.: -148.673549969 Datum: WGS84				
	p Unit Name:			2.00002000		NWI classification: Upland				
	-	(In a 120 of 120 of 150 of 160) Voc	● No ○					
	matic/hydrologic conditions on		-			(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○				
	regetation ☐ , Soil ☐	, , ,	significantly			omai on ounictances procent				
Are V	'egetation ☐ , Soil ☐	, or Hydrology	naturally pro	oblematic?	(If nee	ded, explain any answers in Remarks.)				
SUMI	MARY OF FINDINGS - A	ttach site map sho	wing sam	pling point	locations	s, transects, important features, etc.				
	Hydrophytic Vegetation Prese	ent? Yes No)							
	Hydric Soil Present?	Yes O No @	the Sam	pled Area						
	Wetland Hydrology Present?	Yes O No @		within a Wetland? Yes ○ No •						
		163 🔾 110 🤆								
Rem	arks:									
VEGE	TATION - Use scientific	names of plants 1	ist all sne	cies in the i	nlot					
	OSC SCICITUME	names of plants. L	ist all spec	cics in the	piot.	Dominance Test worksheet:				
T	- Church		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species				
1.	e Stratum		0		Status	That are OBL, FACW, or FAC:				
2.			0			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:				
San	ling/Shrub Stratum	50% of Total Cover:	0 20%	of Total Cover:	0	ODI Ossaiss				
		_				OBL Species 0 x1 = 0 FACW Species 20 x2 = 40				
	Salix pulchra				FACW	FAC Species 30 x 3 = 90				
2. 3.	Salix polaris			✓	FACW	FACU Species 34 x 4 = 136				
4.	Empetrum nigrum Cassiope tetragona		7	✓	FACU FACU	UPL Species 0 x 5 = 0				
5.	Vaccinium uliginosum				FAC					
6.	Vaccinium vitis-idaea		1		FAC	Column Totals: <u>84</u> (A) <u>266</u> (B)				
7.	Spiraea stevenii		1		FACU	Prevalence Index = B/A = 3.167				
8.	opii ada oto toi iii		0			Hydrophytic Vegetation Indicators:				
9.			0			Dominance Test is > 50%				
10.			0			Prevalence Index is ≤3.0				
		Total Cover	:			☐ Morphological Adaptations ¹ (Provide supporting data in				
Her	b Stratum_	50% of Total Cover:	10 20%	of Total Cover	4	Remarks or on a separate sheet)				
1.	Festuca altaica		7		FAC	Problematic Hydrophytic Vegetation (Explain)				
2.	Calamagrostis canadensis		3		FAC	¹ Indicators of hydric soil and wetland hydrology must				
3.	Rubus arcticus		8		FAC	be present, unless disturbed or problematic.				
4.	Sibbaldia procumbens		10	✓	FACU	Plot size (radius, or length x width)				
5.	Chamerion angustifolium			✓	FACU	% Cover of Wetland Bryophytes 20				
6.	Alopecurus magellanicus				FACW	(Where applicable)				
7.	Sanguisorba canadensis		15	✓	FACW	% Bare Ground				
8.	Artemisia norvegica				FACU	Total Cover of Bryophytes 20				
9.	Carex microchaeta				FAC					
10.	Trisetum spicatum		2		FAC	Hydrophytic				
		Total Cover		·- · · ·	12.8	Vegetation Present? Yes ○ No ●				
		50% of Total Cover:		of Total Cover:						

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SOIL Sampling Point: SW12_T35_02

	cion: (Describe to	the depth n	eeded to docur	ment the indicator or c	onfirm the ab		cators)				
Depth (inches)	Color (m	oist)	<u></u> %	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-1			100			-74-		Fibric Organics			
1-5	10YR	3/2	90					Sandy Loam	10% roots		
5-10		3/3	——— — 95					Sandy Loam	5% roots		
10-11	7.5YR	3/4	100					Sandy Loam	few roots		
		· ·							-		
11-15	7.5YR	2.5/2	85					Sandy Loam	semiang gravel-cobbles w coarse sand		
								-			
¹Type: C=Co	ncentration. D	=Depletior	. RM=Reduc	ed Matrix ² Location				nnnel. M=Matrix			
Hydric Soil I	indicators:			Indicators for P		4	oils:	,			
	r Histel (A1)			Alaska Color (Alaska Gleyed Without Hue 5Y or Redder				
Histic Epip	oedon (A2)			Alaska Alpine	•	•	Underlying Layer				
	Sulfide (A4)			Alaska Redox	With 2.5Y I	Hue		Other (Explain in Remarl	(8)		
	k Surface (A12	2)		³ One indicator of	f hydrophyl	tic vegetatio	on, one prir	nary indicator of wetland h	nydrology.		
	eyed (A13)			and an appropria					7		
Alaska Re	dox (A14) eyed Pores (A1	IE)		4 Give details of	color chang	e in Remarl	KS				
Restrictive Laye	er (if present)	:						Hydric Soil Present	? Yes ○ No ●		
Type: Depth (incl	hes)·							Hydric Soil Present	r res ∪ No ⊕		
HYDROLO	GY										
Wetland Hyd	rology Indic	ators:						Secondary Indi	cators (two or more are required)		
Primary Indica		is sufficier	t)						ned Leaves (B9)		
Surface Water (A1)				Inundation		_			Patterns (B10)		
High Water Table (A2)				Sparsely Ve		ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)		
Saturation (A3) Water Marks (B1)				Marl Deposi	. ,	(04)		☐ Presence of Salt Depos	of Reduced Iron (C4)		
									Stressed Plants (D1)		
☐ Sediment Deposits (B2) ☐ Drift Deposits (B3)				☐ Dry-Season☐ Other (Expl					ic Position (D2)		
	. ,				alli ili Keilia	ii KS)			quitard (D3)		
☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5)									graphic Relief (D4)		
	Soil Cracks (B6)						_	al Test (D5)		
Field Observa	ations:	,									
Surface Wate	r Present?	Yes	No ●	Depth (inch	es):						
Water Table F	Present?	Yes	No ●	Depth (inch	es):		Wetla	nd Hydrology Presen	it? Yes O No 💿		
Saturation Pro		Yes C	No ●	Depth (inch	•						
(includes capi Describe Recor		eam gauge	, monitor we	II, aerial photos, pro	vious inspe	ection) if av	ailable:				
				, , , ,,							
Remarks:											
no wetland hyd	drology indica	tors									

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