## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 01-Aug-13			
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T141_05			
	gator(s): BAB		Landform (hill	side, terrac	ce, hummocks etc.): Valley bottom			
	elief (concave, convex, none): flat		Slope:		3 ° Elevation: 100			
_	ion : Interior Alaska Mountains	Lat	63.217154172	28				
	p Unit Name:			<u> </u>	NWI classification: PEM1E			
Are V Are V	egetation  , Soil  , or Hydrology  r	significantly naturally pr wing sam	disturbed? oblematic?	Are "N (If nee	lormal Circumstances" present? Yes  ● No  ○ eded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes No C		le	the Sam	ınled Δrea			
	Hydric Soil Present? Yes  No C		Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes  No Curks: bottom of a wide gently sloping drainage with de		ļ ,		etiality its a no a			
	TATION -Use scientific names of plants. Li	st all spe Absolute % Cover	cies in the  Dominant Species?	•	Dominance Test worksheet:  Number of Dominant Species			
1.		0		Julus	That are OBL, FACW, or FAC: (A)			
2.					Total Number of Dominant			
3.					Species Across All Strata: 2 (B)			
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0	П					
0.	Total Cover:				Prevalence Index worksheet:			
San	ling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	Total % Cover of: Multiply by:			
Зар	mig/siliub stratum 50% of Total cover.	0 2070			OBL Species 40 x 1 = 40			
	Salix pulchra		<b>✓</b>	FACW	FACW Species 17.1 x 2 = 34.20			
2.					FACILIST			
3.					FACU Species 0 x 4 = 0			
4.					UPL Species 2 x 5 = 10			
5.					Column Totals: <u>63.2</u> (A) <u>96.50</u> (B)			
6.					Prevalence Index = B/A = 1.527			
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					✓ Dominance Test is > 50%			
10.					Prevalence Index is ≤3.0			
Her	<b>Total Cover:</b> b Stratum 50% of Total Cover:		of Total Cover	:2	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex aquatilis	30	<b>V</b>	OBL	Problematic Hydrophytic Vegetation (Explain)			
2.	Comarum palustre	10		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Arctagrostis latifolia			FACW	be present, unless disturbed or problematic.			
4.	Polemonium pulcherrimum			UPL	Plot size (radius, or length x width)			
5.	Viola palustris (IAM)			FAC	% Cover of Wetland Bryophytes			
6.	Petasites frigidus			FACW	(Where applicable)			
7.	Luzula parviflora			FAC	% Bare Ground			
8.	Veronica wormskjoldii			FAC	Total Cover of Bryophytes 40			
9.	Equisetum variegatum	0.1		FACW				
10.	Festuca rubra	0.1		FAC	Hydrophytic			
	<b>Total Cover:</b> 50% of Total Cover:2		of Total Cover:	10.64	Vegetation Present? Yes ● No ○			
Rem	arks: trace unk grass, unk carex (coll)	<u>26.6</u> 20%	of Total Cover:	10.64	riesent: 165 C NO C			

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SOIL Sampling Point: SW13\_T141\_05

	on: (Describe to the dept <b>Matrix</b>			nfirm the absence dox Features	e of indicators)			
Depth (inches)	Color (moist)	%	Color (moist)	% T	ype <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks	
0-12	Color (molec)	100			7,50	Fibric Organics	very rooty	
12-15		100				Hemic Organics	w semi angular cobbles	
	-							
							-	
						_	-	
							_	
							_	
	,							
¹Type: C=Con	centration. D=Deplet	tion. RM=Reduce	ed Matrix <sup>2</sup> Locatio	n: PL=Pore Lir	ning. RC=Root C	hannel. M=Matrix		
Hydric Soil Ir	ndicators:		Indicators for P	oblematic Hy	dric Soils:			
	Histel (A1)		☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder					
✓ Histic Epipe	` ,		Alaska Alpine		•	Underlying Layer	.ac or or reduct	
	Sulfide (A4)		Alaska Redox	, ,	[	Other (Explain in Remar	ks)	
	Surface (A12)							
Alaska Gley	` ,					rimary indicator of wetland	hydrology,	
Alaska Red			and an appropria	te landscape p	osition must be p	present		
	yed Pores (A15)		<sup>4</sup> Give details of o	olor change in	Remarks			
Restrictive Laye	er (if present):							
Type:						Hydric Soil Present	t? Yes • No O	
Depth (inch	es):							
HYDROLO	GY							
	GY ology Indicators:					Secondary Ind	icators (two or more are required)	
Wetland Hydr		cient)					icators (two or more are required) ined Leaves (B9)	
Wetland Hydr	rology Indicators: tors (any one is suffic	ient)	☐ Inundation \	isible on Aerial	Imagery (B7)	Water Sta		
Primary Indicate  Surface W	rology Indicators: tors (any one is suffic	cient)		/isible on Aerial		Water Sta	ined Leaves (B9)	
Primary Indicate  Surface W	rology Indicators: tors (any one is suffic later (A1) er Table (A2)	cient)		etated Concav		☐ Water Sta☐ Drainage☐ Oxidized I	ined Leaves (B9) Patterns (B10)	
Wetland Hydr Primary Indicat  ✓ Surface W  High Wate	tology Indicators: tors (any one is suffic ater (A1) er Table (A2)	cient)	Sparsely Veg	jetated Concav s (B15)	e Surface (B8)	☐ Water Sta☐ Drainage☐ Oxidized I	ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)	
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