## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	xa-Susitna Borough Sampling Date:10-Jul-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T132_04			
	igator(s): WAD. BAB		Landform (hillside, terrace, hummocks etc.): Channel (active)					
Local	relief (concave, convex, none): concave		Slope: 14.0 % / 8.0 ° Elevation: 928					
Subre	gion : Interior Alaska Mountains	Lat ·	62.954292893 Long.: -148.392718792 Datum: WGS84					
	ap Unit Name:		0 V	Na ○	NWI classification: PEM1/SS1E			
	matic/hydrologic conditions on the site typical for this t							
			y disturbed?		Tomas on constant of process.			
Are \	√egetation ☐ , Soil ☐ , or Hydrology ☐	naturally pr	oblematic?	(If nee	eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map sho	wing sam	npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes   No							
	Hydric Soil Present? Yes ● No		Is the Sampled Area					
	Wetland Hydrology Present? Yes ● No ○		within a Wetland? Yes ● No ○					
	, 0,							
Ren	narks: interfluv between channels running into defunc photo num 1265, photo time 1247, no soil photo							
VEGI	<b>ETATION</b> -Use scientific names of plants. L	ist all spe	cies in the	plot.				
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
	ee Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)			
1.					Total Number of Dominant			
2.		0			Species Across All Strata:3(B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover				Total % Cover of: Multiply by:			
Sap	pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species <u>23</u> x 1 = <u>23</u>			
1.	Salix pulchra	40	<b>✓</b>	FACW	FACW Species 48 x 2 = 96			
2.					FAC Species <u>53</u> x 3 = <u>159</u>			
3.		0			FACU Species 0 x 4 = 0			
4.					UPL Species <u>0</u> x 5 = <u>0</u>			
5.		0			Column Totals: <u>124</u> (A) <u>278</u> (B)			
6.								
7.		Λ			Prevalence Index = B/A = 2.242			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			✓ Prevalence Index is ≤3.0			
Но	Total Cover rb Stratum 50% of Total Cover:		6 of Total Cover	: 8	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Comarum palustre	15	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Carex aquatilis	8		OBL	Indicators of hydric soil and wetland hydrology must			
3.	Equisetum arvense	10	Ï	FAC	be present, unless disturbed or problematic.			
3. 4.	Rubus chamaemorus		Ī	FACW				
5.	Calamagrostis canadensis	35	<u></u>	FAC	Plot size (radius, or length x width)			
6.	Anemone richardsonii	5		FAC	% Cover of Wetland Bryophytes (Where applicable)			
		1		FACW	% Bare Ground			
7.	Viola epipsila			FACW				
	Viola epipsila Sanguisorba canadensis	5		IACVV	Total Cover of Bryophytes 5			
7.	· · ·	5		FAC	Total Cover of Bryophytes5			
7. 8.	Sanguisorba canadensis				Hydrophytic			
7. 8. 9.	Sanguisorba canadensis Polemonium acutiflorum	1		FAC				

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SOIL Sampling Point: SW13\_T132\_04

Profile Descript	ion: (Describe to the	ne depth needed atrix	to document th		onfirm the ab		cators)					
Depth (inches)	Color (mois				%	Type <sup>1</sup>	_Loc_2	Texture	Remarks			
0-1	Color (mois	st) <u>%</u> 10		or (moist)		Туре	LOC	Fibric Organics	Kemarks			
								Hemic Organics				
1-3	-											
3-12			<u> </u>					Sapric Organics				
¹Type: C=Co	ncentration. D=I	Depletion. RM=	Reduced Ma	trix <sup>2</sup> Location	on: PL=Pore	e Lining. RC	C=Root Cha	nnel. M=Matrix				
Hydric Soil I	Hydric Soil Indicators: Indicators for Problematic Hydric Soils: <sup>3</sup>											
Histosol o	r Histel (A1)			Alaska Color (	Change (TA4	1) <sup>4</sup>		Alaska Gleyed Without Hue 5Y or Redder				
✓ Histic Epip	pedon (A2)			Alaska Alpine swales (TA5)  Underlying Layer								
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y F	lue		Other (Explain in Remark	s)			
☐ Thick Darl	k Surface (A12)		2									
Alaska Gle	eyed (A13)			ne indicator d I an appropri				nary indicator of wetland h	ydrology,			
Alaska Red	dox (A14)					•	•					
L Alaska Gle	eyed Pores (A15)	1	*6	ive details of	color change	e in Kemark	KS .					
Restrictive Laye												
Type: seas								Hydric Soil Present?	? Yes ● No O			
Depth (incl	nes): 20											
HYDROLO	GY											
Wetland Hyd	rology Indicat	ors:						Secondary Indic	cators (two or more are required)			
Primary Indica	ators (any one is	sufficient)						Water Stair	ned Leaves (B9)			
✓ Surface V	Vater (A1)			Inundation	Visible on A	erial Image	ry (B7)	Drainage P	atterns (B10)			
High Wat	er Table (A2)			Sparsely Ve	getated Cor	cave Surfa	ce (B8)	Oxidized R	nizospheres along Living Roots (C3)			
✓ Saturation	. ,			Marl Deposi	ts (B15)				f Reduced Iron (C4)			
Water Ma	ırks (B1)		L	Hydrogen S	ulfide Odor	(C1)		Salt Deposi				
_	Deposits (B2)			Dry-Season					Stressed Plants (D1)			
Drift Depo				Other (Expl	ain in Rema	rks)		<b>✓</b> Geomorphi				
l —	or Crust (B4)							<b>✓</b> Shallow Aq				
☐ Iron Depo	. ,								raphic Relief (D4)			
	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)			
Field Observa		Yes   N	- ()	5 (*	` `							
Surface Wate				Depth (inch	ies): 8							
Water Table F		Yes O N	o	Depth (inch	nes):		Wetlar	nd Hydrology Present	t? Yes • No ·			
Saturation Pre (includes capi		Yes   N	$\circ$	Depth (inch	nes): 4							
Describe Recor	ded Data (strea	m gauge, mon	itor well, aer	ial photos, pro	evious inspe	ction) if ava	ailable:					
Dama di												
Remarks:												
active channels	s surounding plo	τ.										

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