WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project	Е	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Aug-12		
Applica	int/Owner: Alaska Energy Authority		Sampling Point: SW12_T91_01				
	gator(s): CTS, EKJ		Landform (hill:	side, terrac	e, hummocks etc.): Shoreline		
	elief (concave, convex, none): flat		Slope: 1.7				
	ion: Southcentral Alaska	L at :					
		Lai	62.688489908	9			
	p Unit Name:			<u> </u>	NWI classification: PEM1E		
Are \	natic/hydrologic conditions on the site typical for this regetation , Soil , or Hydrology regetation , Soil , or Hydrology . MARY OF FINDINGS - Attach site map show the site of the site	significantly naturally proposition	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.		
		_	Is the Sampled Area				
	, · · · · · · · · · · · · · · · · · · ·		within a Wetland? Yes ● No ○				
	Wetland Hydrology Present? Yes No	<i></i>					
/EGI	arks: ETATION - Use scientific names of plants. I	Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tre</u>	e Stratum	<u>% Cover</u> 0	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:6 (A)		
					Total Number of Dominant		
2. 3.					Species Across All Strata: 6 (B)		
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.			П				
0.	Total Cove				Prevalence Index worksheet: Total % Cover of: Multiply by:		
San	ling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	001.0		
					3312		
	Salix barclayi		V	FAC			
	Salix pulchra		✓	FACW	FAC Species 18.1 x 3 = 54.30 FACU Species 0 x 4 = 0		
3. 4.	Salix fuscescens	•		FACW	UPL Species 0 x 5 = 0		
5.		^					
6.					Column Totals: <u>122.2</u> (A) <u>177.4</u> (B)		
7.					Prevalence Index = B/A = 1.452		
8.			Ī		Hydrophytic Vegetation Indicators:		
9.					Dominance Test is > 50%		
10.					✓ Prevalence Index is ≤3.0		
Her	Total Cove b Stratum 50% of Total Cover:		6 of Total Cover	: 4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
1.	Polemonium acutiflorum	3		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Carex aquatilis		✓	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3.	Comarum palustre		✓	OBL	be present, unless disturbed or problematic.		
4.	Calamagrostis canadensis	10		FAC	Note that the state of the stat		
5.	Sanguisorba canadensis	2		FACW	Plot size (radius, or length x width) 10m		
6.	Swertia perennis	1		FACW	% Cover of Wetland Bryophytes30 (Where applicable)		
7.	Parnassia palustris	11		FACW	% Bare Ground		
8.	Rubus arcticus			FAC	Total Cover of Bryophytes		
9.	Epilobium palustre			OBL			
10.	Carex aquatilis		✓	OBL	Hydrophytic		
1	Total Cove	er: <u>102</u>			Vegetation		
	50% of Total Cover:	51.1 20%	of Total Cover:	20.44	Present? Yes • No •		

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SOIL Sampling Point: SW12_T91_01

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)							ators)				
Depth		latrix	— —		dox Featu		2				
(inches)	Color (moi	st)		Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-1			100					Fibric Organics			
1-16			100					Hemic Organics	mineral layer at 11		
-					-						
			———		_						
¹Type: C=Co	ncentration. D=	Depletion. I		d Matrix ² Location				nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblemati	Hydric So	oils: ³				
✓ Histosol o	r Histel (A1)		ļ	Alaska Color C	hange (TA	1)4		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	Alaska Alpine swales (TA5) Underlying Layer						
☐ Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y H	lue		Other (Explain in Remark	rs)		
☐ Thick Darl	s Surface (A12)										
Alaska Gle	eyed (A13)			³ One indicator of and an appropria				nary indicator of wetland h	ydrology,		
Alaska Re	dox (A14)					•	•	ESCIIC			
Alaska Gle	eyed Pores (A15)		⁴ Give details of c	olor chang	e in Remark	S				
Restrictive Lay	er (if present):										
Type:								Hydric Soil Present	? Yes 💿 No 🔾		
Depth (incl	nes):										
HYDROLO	GY										
	rology Indicat	ors:						Secondary Indi	cators (two or more are required)		
_	itors (any one is								ned Leaves (B9)		
	/ater (A1)			☐ Inundation V	/isible on A	erial Image	v (B7)		atterns (B10)		
✓ High Wat	` ,					_			hizospheres along Living Roots (C3)		
	 ✓ High Water Table (A2) ✓ Sparsely Vegetated Concave Surface (I ✓ Saturation (A3) Marl Deposits (B15) 						.0 (20)		f Reduced Iron (C4)		
☐ Water Ma	. ,			Hydrogen Su	. ,	(C1)		Salt Depos	• •		
	Deposits (B2)			Dry-Season					Stressed Plants (D1)		
☐ Drift Dep				Other (Expla					ic Position (D2)		
	or Crust (B4)								uitard (D3)		
☐ Iron Depo									raphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra			
Field Observa	ations:										
Surface Wate	r Present?	Yes \bigcirc	No 💿	Depth (inche	es):						
Water Table F	Present?	Yes	No O	Depth (inche	ec).		Wetla	nd Hydrology Presen	t? Yes No		
Saturation Pro					,			, , , , , , , , , , , , , , , , , , , ,			
(includes capi		Yes •	No U	Depth (inche	es):						
Describe Recor	ded Data (strea	ım gauge, r	nonitor well,	aerial photos, pre	vious inspe	ction) if ava	ilable:				
Demodes.											
Remarks:											
Patchy surface water											

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