## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	xa-Susitna Borough Sampling Date: 23-Jun-12			
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T19_07			
	gator(s): JGK	side, terrac	de, terrace, hummocks etc.): Flat					
_	elief (concave, convex, none): flat	° Elevation: 844						
	ion : Southcentral Alaska		· 62.784429909		Long.: -149.532629967 Datum: WGS84			
_	p Unit Name:		NWI classification: PEM1/SS1E					
	natic/hydrologic conditions on the site typical for this tir		n Von	No ○	(If no, explain in Remarks.)			
Are Vo	egetation , Soil , or Hydrology segetation , Soil , or Hydrology regetation , Soil . , or Hydrology regetation representation representations.	significantly naturally pr ving sam	/ disturbed? oblematic?	Are "N (If nee	lormal Circumstances" present? Yes   No ○  eded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Present? Yes 💿 No 🗀		le	tha Sam	upled Area			
	Hydric Soil Present? Yes ◉ No ◯			Is the Sampled Area within a Wetland? Yes ● No ○				
	Wetland Hydrology Present? Yes ● No C	)	WI	within a Wetland? Yes ● No ○				
Rema	arks:							
	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			That are OBL, FACW, or FAC:3 (A)			
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)			
3.					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:			
Sapl	ing/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species x 1 =			
1.	Andromeda polifolia	2		FACW	FACW Species 19 x 2 = 38			
	Betula nana	20	<b>✓</b>	FAC	FAC Species 44 x 3 = 132			
3.	Salix reticulata	5		FAC	FACU Species <u>0</u> x 4 = <u>0</u>			
4.	Vaccinium uliginosum	2		FAC	UPL Species x 5 =0			
5.					Column Totals: 90 (A) 197 (B)			
6.		_						
7.		0			Prevalence Index = B/A = 2.189			
8.		0			Hydrophytic Vegetation Indicators:			
9.					✓ Dominance Test is > 50%			
10.					✓ Prevalence Index is ≤3.0			
Herl	Total Cover: 50% of Total Cover:		of Total Cover	: 5.8	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Carex aquatilis	25	<b>V</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Sanguisorba menziesii			FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Carex bigelowii			FAC	be present, unless disturbed or problematic.			
4.	Dodecatheon frigidum	2		FACW	Plot size (radius, or length x width)			
5.	Comarum palustre	2		OBL	% Cover of Wetland Bryophytes			
6.	Rubus chamaemorus	2		FACW FAC	(Where applicable)			
	Rubus arcticus			1 AC	% Bare Ground			
					Total Cover of Bryophytes			
		0			Understadio			
10.	Total Cover:				Hydrophytic Vegetation			
	50% of Total Cover:		of Total Cover:	12.2	Present? Yes   No			
Dom		<u> </u>						
Rema		<u> </u>		12.2	Present? Yes   No			

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SOIL Sampling Point: SW12\_T19\_07

Profile Descript		ne depth need A <b>atrix</b>	led to docume	nt the indicator or cor	nfirm the ab		ators)					
Depth (inches)	Color (mois		% (	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-2	COIOI (IIIOI		100	Color (IIIOISE)	_/0_	Турс	LOC	Fibric Organics				
2-16			100					Hemic Organics				
				<del></del>								
			— —									
				<del></del>								
¹Type: C=Cor	ncentration. D=I	Depletion. F	Reduced	Matrix <sup>2</sup> Location	: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix				
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils:					
✓ Histosol or	r Histel (A1)			Alaska Color Ch	nange (TA							
Histic Epip	edon (A2)			Alaska Alpine s				Underlying Layer				
Hydrogen	Sulfide (A4)		L	Alaska Redox V	Vith 2.5Y H	Hue		Other (Explain in Remarks	s)			
Thick Dark	c Surface (A12)			3 One indicator of	Ludronbu	-:- vezetatio	- one prim	indicator of wotland by	ر پرو دا داد.			
Alaska Gle				and an appropriat				nary indicator of wetland hy esent	yarology,			
Alaska Red	,			4 Give details of co	olor chang	e in Remark	c					
Alaska Gle	eyed Pores (A15)	)		OIVE details 5. 5.	//OI GIG	C III I CI	•					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present?	? Yes ● No ○			
Depth (inch	nes):											
Remarks:												
HYDROLO	GY											
Wetland Hyd	rology Indicat	ors:						Secondary Indic	cators (two or more are required)			
	itors (any one is	sufficient)						Water Stained Leaves (B9)				
✓ Surface W	. ,			Inundation V		_			atterns (B10)			
✓ High Water Table (A2)				Sparsely Veg		ncave Surfac	e (B8)		nizospheres along Living Roots (C3)			
✓ Saturation (A3)				Marl Deposits	,				f Reduced Iron (C4)			
	Water Marks (B1)				lfide Odor			☐ Salt Deposi				
	Deposits (B2)			☐ Dry-Season V					Stressed Plants (D1)			
Drift Depo	or Crust (B4)			U Other (Explai	n in Kema	rks)		☐ Geomorphic	c Position (D2)			
☐ Algai Mat									raphic Relief (D4)			
	oil Cracks (B6)							✓ FAC-neutral				
Field Observa									1656 (25)			
Surface Water		Yes	$_{No}$ $\bigcirc$	Depth (inche	s): 2							
Water Table F		Yes		Depth (inche	•		Wetlar	nd Hydrology Present	t? Yes • No O			
Saturation Pre					•				- 100 - 110			
(includes capi		Yes	No ∪	Depth (inche	s): 0							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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