## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Во	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 22-Jun-12		
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T18_02		
	gator(s): SLI, EKJ	L	_andform (hill	side, terrace	e, hummocks etc.): Toeslope		
-	elief (concave, convex, none): flat		Slope:	% / 2.4			
	ion : Southcentral Alaska	lat: 6	· 32.850758260		Long.: -149.201555688 Datum: NAD83		
_		Lat	12.030730200	) <del>9</del>			
	p Unit Name:			● No ○	NWI classification: PSS1B		
Are V	egetation  , Soil  , or Hydrology  , or Hydrology  , or Hydrology	significantly naturally pro wing sam	disturbed?	Are "No	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes  No  No		le	the Sam	pled Area		
	Hydric Soil Present? Yes   No				/etland? Yes   No		
Rema	Wetland Hydrology Present? Yes   No	)	W	illilli a vv	etianur 165 e no e		
VEGE	TATION -Use scientific names of plants. Li	st all spec	cies in the		Dominance Test worksheet:		
Tree	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 6 (A)		
1.	Picea glauca		<b>✓</b>	FACU	Total Number of Dominant		
2.		0			Species Across All Strata:7 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 85.7% (A/B)		
5.	Takal Carren				Prevalence Index worksheet:		
	Total Cover		of Total Course		Total % Cover of: Multiply by:		
Sapi	ling/Shrub Stratum 50% of Total Cover:	3.5 20% (		1.4	OBL Species 0 x 1 = 0		
1.	Salix pulchra	35	<b>✓</b>	FACW	FACW Species 82 x 2 = 164		
	Salix commutata	35	<b>✓</b>	FAC	FAC Species 59 x 3 = 177		
	Alnus viridis			FAC	FACU Species 10 x 4 = 40		
	Salix reticulata	3		FAC	UPL Species <u>3</u> x 5 = <u>15</u>		
5.					Column Totals: <u>154</u> (A) <u>396</u> (E		
6.					Prevalence Index = B/A =2.571_		
7.							
8.					Hydrophytic Vegetation Indicators:		
9.					✓ Dominance Test is > 50%		
10.	Total Cover	0			✓ Prevalence Index is ≤3.0		
Herl	<b>b Stratum</b> 50% of Total Cover:		of Total Cover	: 16	<ul> <li>Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>		
1.	Dodecatheon jeffreyi	_7_	<b>✓</b>	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Sanguisorba officinalis	3		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Pyrola minor	7	<b>✓</b>	FAC	be present, unless disturbed or problematic.		
4.	Anemone richardsonii	5		FAC	Plot size (radius, or length x width) 10m		
5.	Polemonium acutiflorum			FAC	% Cover of Wetland Bryophytes		
6.	Equisetum sylvaticum			FAC	(Where applicable)		
7.	Equisetum palustre		<b>✓</b>	FACW	% Bare Ground <u>35</u>		
8.	Viola palustris		<b>✓</b>	FACW	Total Cover of Bryophytes60		
9.	Geranium bicknellii	3		UPL			
10.	Mertensia paniculata	3	Ш	FACU	Hydrophytic		
	<b>Total Cover</b> : 50% of Total Cover:		of Total Cover	13.4	Vegetation Present? Yes ● No ○		
Rema	arks: 1% each of Arctagrostis latifolia (id based on la Valeriana capitata, and Luzula sp (likely tundri	ast season i	nfloresence), equisetum flu	Streptopus uviatile. no f	amplexifolius, Comarum palustre, Carex aquatilis, flowers on geranium, unsure of species. bryophytes marks do not change results of dominance test.		

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SOIL Sampling Point: SW12\_T18\_02

(inches) Color (			Rec	ox Featur						
0-3	moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc_2	Texture	Remarks		
		100					Fibric Organics			
3-9			-				Hemic Organics			
9-18		100					Sapric Organics			
Type: C=Concentration.	D=Depletion.	RM=Reduced	I Matrix <sup>2</sup> Location	: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix			
lydric Soil Indicators:	· · · · · · · · · · · · · · · · · · ·		Indicators for Pro							
✓ Histosol or Histel (A1) Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder										
Histic Epipedon (A2)  Alaska Alpine swales (TA5)						_	Underlying Layer			
Hydrogen Sulfide (A4	)	[	Alaska Redox V	/ith 2.5Y Hu	ıe		Other (Explain in Remark	s)		
Thick Dark Surface (A										
Alaska Gleyed (A13)	•		<sup>3</sup> One indicator of and an appropriat				nary indicator of wetland h	ydrology,		
Alaska Redox (A14)					•		Sent			
Alaska Gleyed Pores (	A15)		<sup>4</sup> Give details of co	lor change	in Remark	as .				
estrictive Layer (if presen	t):									
Type:							Hydric Soil Present?	? Yes ⊙ No O		
Depth (inches):										
								_		
YDROLOGY										
etland Hydrology Ind								cators (two or more are required)		
rimary Indicators (any or	ne is sufficient	:)						ned Leaves (B9)		
Surface Water (A1)	i.		☐ Inundation V		_			atterns (B10)		
High Water Table (A2	!)		Sparsely Vege		ave Surfac	ce (B8)		nizospheres along Living Roots (C3)		
Saturation (A3) Water Marks (B1)			Marl Deposits	` '	C1)		Salt Deposi	f Reduced Iron (C4)		
Sediment Deposits (E	2)		☐ Hydrogen Sul		-			Stressed Plants (D1)		
Drift Deposits (B3)	2)		☐ Dry-Season V☐ Other (Explai				✓ Geomorphi	` '		
Algal Mat or Crust (B	4)		Other (Explain	i iii Keiiiaii	(5)		Shallow Aq	` '		
Iron Deposits (B5)	'/							raphic Relief (D4)		
Surface Soil Cracks (I	36)						✓ FAC-neutra	' '		
ield Observations:										
Surface Water Present?	Yes 🧿	No 🔾	Depth (inche	s): 2						
Water Table Present?	Yes 💽	No 🔾	Depth (inche	s)· 5		Wetlar	nd Hydrology Present	t? Yes 💿 No 🔾		
Saturation Present?		No O		•						
	Yes 🕓	NO U	Depth (inche	5): 1						
includes capillary fringe)	tream gauge	monitor well,	aerial photos, prev	ious inspec	tion) if ava	ailable:				
escribe Recorded Data (s	ca gauge,									
escribe Recorded Data (s	ca gauge,									
		hallow standin	a water throughou	t sito						

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