## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Aug-12			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T91_05			
	gator(s): CTS, EKJ	lside, terrac	e, hummocks etc.): Footslope					
_ocal	relief (concave, convex, none): flat		° Elevation: 563					
Subre	gion : Southcentral Alaska	lat: 6	 32.689978203		Long.: -148.922285816 Datum: NAD83			
	ap Unit Name:		02.00997020					
	·			No ○	NWI classification: Upland			
Are \		significantly	disturbed?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes   No C	)						
	Hydric Soil Present? Yes O No •	)	Is the Sampled Area					
	Wetland Hydrology Present? Yes No •	)	W	ithin a W	Wetland? Yes ○ No ●			
	arks: Hgmm  ETATION -Use scientific names of plants. Li	st all spe	cies in the	plot.				
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tre	e Stratum	% Cover	Species?	Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC:  4 (A)			
2.		0			Total Number of Dominant Species Across All Strata: 4 (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	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species $0 \times 1 = 0$			
1	Salix fuscescens	10	<b>✓</b>	FACW	FACW Species 21.1 x 2 = 42.20			
2.	Betula nana			FAC	FAC Species 70 x 3 = 210			
3.	Calin hamalanii			FAC	FACU Species 12 x 4 = 48			
	Vaccinium caespitosum	_	<u>~</u>	FACW	UPL Species 10 x 5 = 50			
5.					Column Totals: <u>113.1</u> (A) <u>350.2</u> (B)			
6.								
7.		0			Prevalence Index = B/A = 3.096			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤3.0			
He	Total Cover: 50% of Total Cover:		% of Total Cover: 3.4		Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Festuca altaica	40	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Chamaenerion angustifolium	10		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Aconitum delphiniifolium	15	<b>✓</b>	FAC	be present, unless disturbed or problematic.			
4.	Solidago canadensis	_		UPL	Plot size (radius, or length x width) 10m			
5.	Sanguisorba canadensis			FACW	% Cover of Wetland Bryophytes 70			
6.	Rubus arcticus			FAC	(Where applicable)			
7.	Cornus canadensis			FACU	% Bare Ground			
8.	Viola palustris			FACW	Total Cover of Bryophytes			
9.	Calamagrostis canadensis	8		FAC				
10.		96.1			Hydrophytic			
	Total Covers			Vegetation Present? Yes ● No ○				
	50% of Total Cover:4	8.05 20%	of Total Cover	19.22	Present? Yes ♥ No ○			

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SOIL Sampling Point: SW12\_T91\_05

001=									10 54112_151_65		
Profile Description			eded to docu	ment the indicator or co			ators)				
Depth (inches)	Depth Matrix (inches) Color (moist)		 %	Redox Fea			Loc <sup>2</sup>	Texture	Remarks		
0-2	Coloi (IIIO	iist)	100	Color (Illoist)	_70	Туре	LUC	Fibric Organics			
2-4	7.5YR	3/1	95					Loam	5% roots		
4-9	10YR	3/3	100		-			Sandy Loam	few semiangular gravel		
								Loamy Sand	Tew Serillarigular graver		
9-12	10YR	5/4	100								
12-15	10YR	3/4	95					Loamy Sand	5% coarse sand to semiangular gravel		
¹Type: C=Con	centration. D=	Depletion.	RM=Reduc	ced Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: <sup>3</sup>				
	Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	. ,			Alaska Alpine swales (TA5)				Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y I	Hue		Other (Explain in Remark	ss)		
Thick Dark	Surface (A12)	)		3 0 :	lada.la	.: <b></b> : -			doala.a		
Alaska Gle	yed (A13)			and an appropriat				nary indicator of wetland hesent	lydrology,		
Alaska Red	` ,			4 Give details of co	olor chang	e in Remark	·c				
☐ Alaska Gle	yed Pores (A1	5)		Give details of Co	Jior Charle	e iii Keiliai k					
Restrictive Laye	er (if present):										
Type:								<b>Hydric Soil Present</b>	? Yes ○ No •		
Depth (inch	es):										
Remarks:											
no hydric soil in	dicators										
HYDROLO	GY										
Wetland Hydr	ology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one i	is sufficient	)					Water Stained Leaves (B9)			
Surface W	Surface Water (A1)				☐ Inundation Visible on Aerial Imagery (B7)				Patterns (B10)		
High Wate	High Water Table (A2)			Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits (B15)				Presence o	f Reduced Iron (C4)		
Water Marks (B1)				Hydrogen Sulfide Odor (C1)				☐ Salt Depos	its (C5)		
Sediment Deposits (B2)				Dry-Season Water Table (C2)					Stressed Plants (D1)		
☐ Drift Depo				Uther (Explain in Remarks)				Geomorphic Position (D2)			
	or Crust (B4)								juitard (D3)		
Iron Depo					_	graphic Relief (D4)					
	oil Cracks (B6)							✓ FAC-neutra	I Test (D5)		
Field Observa		V (	No •								
Surface Water				Depth (inche	:s):						
Water Table P		Yes 🔾	No 💿	Depth (inche	s):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre (includes capil		Yes $\bigcirc$	No 💿	Depth (inche	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hyd	rology indicate	ors									

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