## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 31-Jul-13						
Applica	nt/Owner: Alaska Energy Authority			Sampling Point: SW13_T154_02							
	gator(s): BAB	ce, hummocks etc.): drainage									
-	elief (concave, convex, none): hummocky		Slope: 5.2		D ° Elevation: 1137						
	,,		63.239450454								
_	ion : Interior Alaska Mountains	+7									
	p Unit Name:			<u> </u>	NWI classification: Upland						
Are Vo	egetation , Soil , or Hydrology r	significantly naturally pr ving sam	/ disturbed? oblematic?	(If nee	(If no, explain in Remarks.)  Normal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.						
	Hydrophytic Vegetation Present? Yes   No	the Sam	ipled Area								
	Hydric Soil Present? Yes No		within a Wetland? Yes ○ No ●								
	Wetland Hydrology Present? Yes ○ No ●	)	•	a <b>**</b>	Citalia:						
Remarks: Wide >30 feet drainage gently sloping  VEGETATION - Use scientific names of plants. List all species in the plot.  Dominance Test worksheet:											
Tree	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species						
1.	- Structum	0			That are OBL, FACW, or FAC:3 (A)						
2.		0			Total Number of Dominant Species Across All Strata: 5 (B)						
3.											
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)						
5.		0			Prevalence Index worksheet:						
'	Total Cover:				Total % Cover of: Multiply by:						
Sapl	ling/Shrub Stratum 50% of Total Cover:	0	OBL Species $0 \times 1 = 0$								
	<del></del>	30	<b>✓</b>	FACW	FACW Species 35 x 2 = 70						
	Salix pulchra Spiraea stevenii	10		FACU	FAC Species 20.2 x 3 = 60.60						
	Dubus erations (IAM)	2		FACU	FACU Species 19 x 4 = 76						
	Empetrum piarum	5		FAC	UPL Species 3 x 5 = 15						
	Vaccinium uliginosum			FAC							
6.	Cassians tetragens	1		FACU	Column Totals:77.2 (A)221.6 (B)						
	Sibbaldia procumbens	1		FACU	Prevalence Index = B/A =						
8.					Hydrophytic Vegetation Indicators:						
9.		0			Dominance Test is > 50%						
10.		0			✓ Prevalence Index is ≤3.0						
Herl	Total Cover: b Stratum 50% of Total Cover:	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)									
1.	Antennaria friesiana	3	<b>✓</b>	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)						
2.	Festuca altaica		<b>✓</b>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must						
3.	Sanguisorba canadensis	5	<b>✓</b>	FACW	be present, unless disturbed or problematic.						
4.	Artemisia norvegica	2		FACU	Plot size (radius, or length x width)						
5.	Sedum rosea	_1_		FAC	% Cover of Wetland Bryophytes						
6.	Luzula parviflora	2		FAC	(Where applicable)						
7.	Aconitum delphinifolium	0.1		FAC	% Bare Ground						
8.	Gentiana glauca	0.1		FAC	Total Cover of Bryophytes						
9.	Chamerion angustifolium	3		FACU							
10.	Carex bigelowii	2		FAC	Hydrophytic						
	<b>Total Cover:</b> 50% of Total Cover:1		of Total Cover	5.24	Vegetation Present? Yes ● No ○						
Rema	arks: stelon trace caratr 1.0										

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13\_T154\_02

Profile Descripti	•	Describe to the depth needed to docu <b>Matrix</b>		ument the indicator or confirm the absence of indicators) <b>Redox Features</b>			cators)				
(inches)	Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-1			100					Fibric Organics			
1-6			100					Hemic Organics	lots of ang to rounded grvl& cobbles		
6-20	10YR	3/2	100					Silt Loam	lots of ang to rounded gravel and cobbles		
							-	-			
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduce	ed Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RO	C=Root Cha	nnel. M=Matrix			
Hydric Soil I	Hydric Soil Indicators: Indicators for Problematic Hydric Soils. <sup>3</sup>										
Histosol or Histel (A1)  Alaska Color Change (TA4)						4)4		Alaska Gleyed Without H	lue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine swales (TA5)  Underlying Layer							
Hydrogen	Sulfide (A4)			☐ Alaska Redox	With 2.5Y H	lue		Other (Explain in Remar	ks)		
Thick Dark	Surface (A12)	)		3 One indicator o	f buduanhud	ia vaaatatia		mary indicator of wetland I	nudrologu.		
Alaska Gle	yed (A13)			and an appropria					lydrology,		
Alaska Red	` ,			4 Give details of	color chang	e in Remarl	rs.				
☐ Alaska Gle	yed Pores (A1	5)		GIVE details of	color chang	c iii reman					
Restrictive Laye	er (if present):										
Type:	Š							Hydric Soil Present	? Yes O No 💿		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hyd	rology Indica	tors:						Secondary Indi	icators (two or more are required)		
Primary Indica	tors (any one i	is sufficient)						Water Stained Leaves (B9)			
Surface Water (A1)				Inundation	Visible on A	erial Image	ry (B7)	Drainage Patterns (B10)			
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized F	Rhizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits (B15)					of Reduced Iron (C4)		
Water Ma		Hydrogen S				Salt Depos					
Sediment	☐ Dry-Season Water Table (C2) ☐ Other (Explain in Remarks)					r Stressed Plants (D1)					
Drift Depo	` '			☐ Other (Expl	ain in Rema	rks)			ic Position (D2)		
☐ Algai Mat	or Crust (B4)							_	quitard (D3) graphic Relief (D4)		
	oil Cracks (B6)								al Test (D5)		
Field Observa								TAC ficult	iii 1656 ( <i>D3)</i>		
Surface Water		Yes 〇	No •	Depth (inch	es):						
Water Table P	resent?	Yes 🔾	No •	Depth (inch	•		Wetla	nd Hydrology Preser	nt? Yes O No 💿		
Saturation Pre					,		TT CEIG	,	165 0 110 0		
(includes capi		Yes O	No •	Depth (inch	es):						
Describe Recor	ded Data (stre	am gauge, i	monitor we	ll, aerial photos, pre	evious inspe	ection) if av	ailable:				
Remarks:											
only one secon	dary hydrology	/ indicator o	bserved								
,	, , a. 0.09)	,									

U.S. Army Corps of Engineers Alaska Version 2.0