## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Вс	orough/City:	Matanusk	a-Susitna Borough Sampling Dat	e: 31-Jul-12				
Applica	nt/Owner: Alaska Energy Authority				Sampling Point:	SW12_T40_05				
Investigator(s): CTS, EKJ Landform (hillside, terrace, hummocks etc.): Mountainslope										
	elief (concave, convex, none): convex		Slope:	%/ 14.6						
			•			Datum: NAD83				
-	ion : Interior Alaska Mountains		62.71411795	//	Long.: -147.447805805					
	p Unit Name:				NWI classification: Upl	and				
Are V Are V SUMN	egetation , Soil , or Hydrology r	significantly naturally pro ving sam	disturbed? oblematic?	(If nee	ded, explain any answers in Remark					
	i ju opinju o ogetu on i openiti		ls	the Sam	pled Area					
	Hydric Soil Present? Yes O No O		/etland? Yes $\bigcirc$ No $\bigcirc$							
	Wetland Hydrology Present? Yes O No • Irks: Fnwws w tall alder understory		etiandi							
VEGE	<b>TATION</b> - Use scientific names of plants. Lis	st all spec	cies in the Dominant	•	Dominance Test worksheet:					
Tree	e Stratum	% Cover	Species?	Status	Number of Dominant Species					
1.	Picea glauca	15	$\checkmark$	FACU	That are OBL, FACW, or FAC:	<u>    1     (A)</u>				
2.		0			Total Number of Dominant Species Across All Strata:	2 (B)				
3.		0			Percent of dominant Species	()				
4.		0			That Are OBL, FACW, or FAC:	50.0% (A/B)				
5.		0			Prevalence Index worksheet:					
	Total Cover:	15				ply by:				
Sap	ling/Shrub Stratum 50% of Total Cover:	7.5 20%	of Total Cover	:	OBL Species 0 x 1					
	Vaccinium uliginooum	60	$\checkmark$	FAC	FACW Species 0.2 x 2					
1. 2.	Vaccinium uliginosum Alnus viridis	<u>60</u> 10		FAC	FAC Species 87.3 x 3	01100				
3.	Rhododendron groenlandicum			FAC	FACU Species 15.2 x 4					
4.	Vaccinium vitis-idaea	<u>10</u> 5		FAC	UPL Species 0 x 5					
5.	Arctous ruber	2		FAC						
6.	Betula nana	0.1		FAC	Column Totals: <u>102.7</u> (A)	<u>323.1</u> (B)				
-	Rosa acicularis	0.1		FACU	Prevalence Index = B/A =	3.146				
	Salix pulchra	0.1		FACW	Hydrophytic Vogotation Indicators					
	Ribes triste	0.1		FAC	Hydrophytic Vegetation Indicators: Dominance Test is > 50%	•				
	Rhododendron tomentosum	0.1		FACW	Prevalence Index is $\leq 3.0$					
10.	Total Cover:									
Her	b Stratum50% of Total Cover:4	07.5	of Total Cover	r: 17.5	Morphological Adaptations <sup>1</sup> (Prov Remarks or on a separate sheet)	ide supporting data in				
1.	Equisetum arvense	0.1		FAC	Problematic Hydrophytic Vegetation	on <sup>1</sup> (Explain)				
2.	Chamaenerion angustifolium	0.1		FACU	<sup>1</sup> Indicators of hydric soil and wetland h	ydrology must				
3.					be present, unless disturbed or probler	natic.				
					Dist size (radius, ar length y width)	10				
		•			Plot size (radius, or length x width) % Cover of Wetland Bryophytes	_10m				
6.		0			(Where applicable)	_60				
7.		0			% Bare Ground	1				
8.		0			Total Cover of Bryophytes	60				
		0			Hydrophytic					
	Total Cover:	0.2			Vegetation					
	50% of Total Cover:	0.1 20%	of Total Cover	:0.04	Present? Yes O No	⋓				
Rem	arks: Nonflowering Carex sp., bare ground from car	ibou trail. n	o dominant h	nerbs as tota	al herb cover <5%.					

Profile Descriptic		the depth nee Matrix	ded to doc	cument the indicator or co	onfirm the ab		cators)				
Depth (inches)	Color (mo		%	Color (moist)	w	Type <sup>1</sup>	Loc 2	Texture	Remarks		
0-2		nstj	93		-70	Туре	LUC	Fibric Organics	7% roots		
2-4			98					Hemic Organics	2% roots		
4-15		4/2	80					Sandy Loam	20% cs-semirounded gravel		
	2.311										
									-		
	. <u> </u>										
<sup>1</sup> Type: C=Con	centration. D	=Depletion. I	RM=Redu	uced Matrix <sup>2</sup> Location	n: PL=Por	re Lining. R(	C=Root Cha	annel. M=Matrix	· 		
Hydric Soil In	dicators:			Indicators for Pr	oblemati	ic Hydric S	oils: <sup>3</sup>				
Histosol or	Histel (A1)			Alaska Color Ch	Alaska Color Change (TA4) <sup>4</sup>				Alaska Gleyed Without Hue 5Y or Redder		
Histic Epipe	edon (A2)				Alaska Alpine swales (TA5)						
Hydrogen S	. ,			Alaska Redox V	Nith 2.5Y	Hue	L	Other (Explain in Remar	<s)< td=""></s)<>		
	Surface (A12	)		<sup>3</sup> One indicator of	+ hydroph	utic vegetativ	on one prir	mary indicator of wetland h	nydrology		
Alaska Gley				and an appropriat					iyulology,		
Alaska Red	. ,	-		<sup>4</sup> Give details of co	olor chanc	ae in Remar	ks				
Alaska Giey	ed Pores (A1	5)									
Restrictive Laye	r (if present):								~ ~ ~		
Туре:								Hydric Soil Present? Yes $\bigcirc$ No $ullet$			
Depth (inch	es):										
Remarks:											
no hydric soil ind	dicators										
HYDROLOG	GY										
Wetland Hydr	ology Indica	ators:						Secondary Indi	cators (two or more are required)		
Primary Indicat	ors (any one	is sufficient)						Water Stai	ned Leaves (B9)		
Surface Wa	ater (A1)			Inundation V	Inundation Visible on Aerial Imagery (B7)				Patterns (B10)		
High Wate	r Table (A2)			Sparsely Veg	Sparsely Vegetated Concave Surface (B8)				hizospheres along Living Roots (C3)		
Saturation	• •			Marl Deposite	Marl Deposits (B15)				<ul> <li>Presence of Reduced Iron (C4)</li> <li>Salt Deposits (C5)</li> </ul>		
U Water Mar				Hydrogen Su	Hydrogen Sulfide Odor (C1)						
Sediment Deposits (B2)					Dry-Season Water Table (C2)				Stressed Plants (D1)		
Drift Depo				U Other (Explai	Other (Explain in Remarks)				Geomorphic Position (D2)		
Algal Mat or Crust (B4) Iron Deposits (B5)									quitard (D3)		
									graphic Relief (D4)		
	il Cracks (B6)	1							al Test (D5)		
Field Observation Surface Water		$_{Yes}$ $\bigcirc$	No 🖲	) Depth (inche	-c):						
Water Table Pr		Yes O	No 🖲				Wetla	nd Hydrology Presen	it? Yes 🔿 No 🖲		
Saturation Pres (includes capill	sent?	Yes O		Depair (mene							

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks:

no wetland hydrology indicators