## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 04-Aug-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T119_08			
Investi	gator(s): BAB	ce, hummocks etc.): Hillside						
Local	relief (concave, convex, none): rolling	% / 10.3						
Subred	gion : Interior Alaska Mountains	l at ·	62.82483735					
	ap Unit Name:	Lut	02.02403730	710				
			0 V	s • No O	NWI classification: Upland			
Are \	matic/hydrologic conditions on the site typical for this /egetation  , Soil  , or Hydrology  , Soil  , or Hydrology  /egetation  , Soil  , or Hydrology   MARY OF FINDINGS - Attach site map sh	significan naturally nowing sa	tly disturbed?	Are "N (If nee	(If no, explain in Remarks.)  Normal Circumstances" present? Yes No Ceded, explain any answers in Remarks.)  s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes   No	unled Area						
	,	•	Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes O No	•	W	illilli a vv	etianu?			
VEGI	ETATION -Use scientific names of plants.	List all sp		e plot.	Dominance Test worksheet:			
Tre	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)			
1.		0			That are OBL, FACW, or FAC:5(A)  Total Number of Dominant			
2.		0			Species Across All Strata:6(B)			
3.		0			Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 83.3% (A/B)			
5.		0	_		Prevalence Index worksheet:			
	Total Cov	/er: <u> </u>	_		Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	020	% of Total Cove	r: <u>0</u>	OBL Species0 x 1 =0			
1.	Picea mariana	20	<b>✓</b>	FACW	FACW Species 28 x 2 = 56			
2.	Picea glauca			FACU	FAC Species <u>61.1</u> x 3 = <u>183.3</u>			
3.	Salix pulchra	5		FACW	FACU Species <u>9</u> x 4 = <u>36</u>			
4.	Vaccinium uliginosum	25	✓	FAC	UPL Species <u>0.1</u> x 5 = <u>0.500</u>			
5.	Vaccinium vitis-idaea	6		FAC	Column Totals: 98.2 (A) 275.8 (B)			
6.	Empetrum nigrum	20	_	FAC				
7.	Rhododendron tomentosum	3		FACW	Prevalence Index = B/A =			
8.		0	_ 📙		Hydrophytic Vegetation Indicators:			
9.		0	_		Dominance Test is > 50%			
10.		0	_		✓ Prevalence Index is ≤3.0			
Hei	Total Cover: 50% of Total Cover:		% of Total Cover:16.8		Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Equisetum arvense	4	_	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Saussurea angustifolia			FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Carex bigelowii			FAC	be present, unless disturbed or problematic.			
4.	Saxifraga odontoloma			UPL	Plot size (radius, or length x width)			
5.	Calamagrostis canadensis			FAC	% Cover of Wetland Bryophytes			
	Cornus canadensis			FACU	(Where applicable)			
			-		% Bare Ground 0			
			-		Total Cover of Bryophytes 45			
		_	- 📙					
10.	Total Cov				Hydrophytic Vegetation			
				r: 2.84	Present? Yes • No			
	50% of Total Cover:	/.1 20	70 ULTULAL COVE	· _ 2.04				

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SOIL Sampling Point: SW13\_T119\_08

-	on: (Describe to the depth needed to doc <b>Matrix</b>			cument the indicator or confirm the absence of indicators)  Redox Features							
Depth (inches)	Color (m	oist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-4								Fibric Organics			
4-6								Hemic Organics	-		
6-12	7.5YR	3/1	100					Silt Loam	rounded to angular gravel		
12-18	2.5Y	4/2	100					Sandy Loam	rounded to angular gravel		
	2.51	1/2						Sandy Esam	Tourided to drigular graver		
									-		
¹Type: C=Cor	ncentration. D	=Depletion	. RM=Reduc	ed Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RO	C=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblemati	c Hydric S	oils: <sup>3</sup>				
Histosol or	Histosol or Histel (A1)  Alaska Color Change (TA4)							Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine	swales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y H	Hue		Other (Explain in Remar	(S)		
Thick Dark	Surface (A12	2)		3 0 : :	£				duala a		
Alaska Gle	yed (A13)			and an appropria				mary indicator of wetland hesent	nydrology,		
Alaska Red	` ,			4 Give details of o	•	•	-				
Alaska Gle	yed Pores (A1	.5)		Give details of t	Joior Charle	e III Kelliali	NS				
Restrictive Laye	er (if present)	:									
Type:	,							Hydric Soil Present	? Yes O No 💿		
Depth (inch	ies):										
HYDROLO	GY										
Wetland Hydi	rology Indic	ators:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one	is sufficien	t)					Water Stai	ned Leaves (B9)		
Surface W	ater (A1)			Inundation \	Visible on A	erial Image	ery (B7)	Drainage I	Patterns (B10)		
High Wate	er Table (A2)	Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)				
Saturation	. ,		Marl Deposits (B15)				of Reduced Iron (C4)				
Water Ma				Hydrogen S				Salt Depos			
	Deposits (B2)	)		☐ Dry-Season					Stressed Plants (D1)		
☐ Drift Depo	. ,			Uther (Expla	ain in Rema	rks)			ic Position (D2)		
	or Crust (B4)								quitard (D3)		
☐ Iron Depo	osits (B5) oil Cracks (B6	`							graphic Relief (D4) al Test (D5)		
Field Observa	•	)						FAC-Heutra	in rest (D5)		
Surface Water		Yes C	No •	Depth (inch	ec).						
Water Table P		Yes C			•		Wotla	nd Hydrology Presen	it? Yes O No 💿		
				Depth (inch	es):		wetia	na nyarology Presen	it: fes 🔾 NO 😌		
Saturation Pre (includes capil		Yes C	No •	Depth (inch	es):						
Describe Recor	ded Data (str	eam gauge,	monitor we	ell, aerial photos, pre	evious inspe	ection) if av	ailable:				
Remarks:	loslas (1. P. )										
no wetland hyd	irology indica	ors observe	ed								

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