## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-12		
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T37_02		
nvesti	jator(s): CTS, EKJ	side, terrac	e, hummocks etc.): Flat				
.ocal r	elief (concave, convex, none): flat		Slope:	%/ 0.8	B° Elevation: 447		
ubrec	ion : Southcentral Alaska	lat:	62.805558314		Long.: -149.540705726 Datum: NAD83		
-			02.00000001-				
	p Unit Name:			• No ()	NWI classification: PSS1B		
Are V Are V	natic/hydrologic conditions on the site typical for the egetation, Soil, or Hydrology egetation, Soil, or Hydrology MARY OF FINDINGS - Attach site map s	<ul> <li>significantl</li> <li>naturally plashowing san</li> </ul>	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes $ullet$ N	lo 🔿					
	Hydric Soil Present? Yes 🔍 N	lo 🔿	Is the Sampled Area				
	Wetland Hydrology Present? Yes	lo $\bigcirc$	wi	thin a W	'etland? Yes $ullet$ No $igodoldsymbol{ imes}$		
	rks: Fnwbs, but boderline open						
	TATION - Use scientific names of plants	s. List all spe Absolute % Cover	ecies in the Dominant Species?	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species		
1.	Picea mariana	20		FACW	That are OBL, FACW, or FAC: (A)		
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)		
3.					·		
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.		0					
	Total Co	over: 20			Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sap	ing/Shrub Stratum 50% of Total Cover:		of Total Cover:	4			
				540	OBL Species $2.1$ $x 1 =$ $2.1$ FACW Species85 $x 2 =$ 170		
	Vaccinium uliginosum	20		FAC	FAC Species $31.1$ x 3 = $93.30$		
2.	Empetrum nigrum	8		FAC	FACU Species $4.1 \times 4 = 16.4$		
3.	Vaccinium oxycoccos Rhododendron tomentosum			OBL	UPL Species $0 \times 5 = 0$		
4. 5.		<u> </u>		FACW FAC			
	Vaccinium vitis-idaea			FAC	Column Totals: <u>122.3</u> (A) <u>281.8</u> (B)		
6. 7	Vaccinium ovalifolium Menziesia ferruginea	2		FACU	Prevalence Index = B/A = 2.304		
7. 8.	Betula nana	2		FAC	Hydrophytic Vegetation Indicators:		
					✓ Dominance Test is > 50%		
		0			✓ Prevalence Index is $\leq 3.0$		
10.	Total Co	over:					
Her	50% of Total Cover:	1015	6 of Total Cover	9.64	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
1.	Neottia cordata	0.1		FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
	Rubus chamaemorus		$\checkmark$	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Carex microglochin			OBL	be present, unless disturbed or problematic.		
	Cornus canadensis	· 2		FACU			
5.		- 0			Plot size (radius, or length x width) <u>10m</u>		
					% Cover of Wetland Bryophytes <u>90</u> (Where applicable)		
					% Bare Ground		
7.					Total Cover of Bryophytes		
8.		0					
8. 9.					Hydrophytic		
8. 9.		0 0 0			Hydrophytic Vegetation Present? Yes • No ·		

SOIL
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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)           Matrix         Redox Features												
Depth (inches)	Color (mois		%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks			
0-4			93			1990	202	Fibric Organics	7% roots			
4-12			95					Hemic Organics	5% roots			
								Sapric Organics	-			
12-16			100						few roots			
									-			
<sup>1</sup> Type: C=Con	centration. D=I	Depletion. F	RM=Reduc	ed Matrix <sup>2</sup> Loca	ation: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix				
Hydric Soil Ir	ndicators:			Indicators fo	r Problemati	c Hydric S	oils: <sup>3</sup>					
Histosol or				_	r Change (TA	4		] Alaska Gleyed Without H	lue 5Y or Redder			
Histic Epip				_	ne swales (TA			Underlying Layer				
	Sulfide (A4)				ox With 2.5Y I			Other (Explain in Remar	ks)			
	Surface (A12)											
🗌 Alaska Gle				<sup>3</sup> One indicato and an approp				nary indicator of wetland I	nydrology,			
🗌 Alaska Red	lox (A14)					•		esent				
Alaska Gle	yed Pores (A15)			<sup>4</sup> Give details	of color chang	e in Remarl	ks					
Restrictive Laye	r (if present):											
, Туре:								Hydric Soil Present	:? Yes 🖲 No 🔾			
Depth (inch	es):											
Remarks:												
	Nethalks.											
HYDROLO	GY											
Wetland Hydr		ors:						Secondary Ind	icators (two or more are required)			
Primary Indicat	tors (any one is	sufficient)						Water Sta	ined Leaves (B9)			
Surface W	ater (A1)			Inundation	n Visible on A	erial Image	ery (B7)	Drainage I	Patterns (B10)			
High Wate	er Table (A2)			Sparsely	Vegetated Cor	ncave Surfa	ce (B8)	Oxidized R	Rhizospheres along Living Roots (C3)			
Saturation	. ,			Marl Dep	osits (B15)			_	of Reduced Iron (C4)			
Water Mai				Hydroger	Sulfide Odor	(C1)		Salt Depos	sits (C5)			
Sediment	Deposits (B2)			Dry-Seas	on Water Tabl	e (C2)		_	r Stressed Plants (D1)			
Drift Depo	. ,			Other (Ex	plain in Rema	rks)			ic Position (D2)			
_	or Crust (B4)							_	quitard (D3)			
Iron Depo	( )							_	graphic Relief (D4)			
	oil Cracks (B6)							FAC-neutra	al Test (D5)			
Field Observa		Yes 〇										
Surface Water		_	-	Depth (ir	iches):							
Water Table P		Yes 🖲	No $\bigcirc$	Depth (ir	iches): 5		Wetla	nd Hydrology Preser	nt? Yes 🖲 No 🔾			
Saturation Pre (includes capil		Yes 🖲	No 〇	Depth (ir	iches): 2							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
water pouring i	nto pit at 5in bo	js, assume	this is wat	er table.								