WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Date:	07-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	W13_T187_04
Investigator(s): JGK	Landform (hills	side, terrace, hummocks etc.): Lowland	
Local relief (concave, convex, none): tussocks	Slope:	% / 2.4 ° Elevation: 622	
Subregion : Interior Alaska Mountains Lat.:	62.836863994	6 Long.: -148.18426764	Datum: NAD83
Soil Map Unit Name:		NWI classification: PSS3	/EM1B
	ear? Yes onthe onthe onthe onthe onthe one of the one o	 No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.) 	s
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point	locations, transects, important features	, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes 🖲 Yes 🖲	No () No ()	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔿
Wetland Hydrology Present?	Yes 🖲	No 🔾		
Remarks:				

VEGETATION - Use scientific names of plants. List all species in the plot.

			Absolute Do		Dominant In	Indicator	Dominance Test worksheet:
Tree Stratum				Species?	Status	Number of Dominant Species	
	Picea mariana			1		FACW	That are OBL, FACW, or FAC: <u>5</u> (A)
2.				0			Total Number of Dominant Species Across All Strata: 5 (B)
3.			_	0			
4.			_	0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			_	0			
0.		Total Cover:	_	-			Prevalence Index worksheet:
_					Total Course		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of the stratum 50\% of the st	of Total Cover:(0.5 4	20% 01	Total Cover:	0.2	OBL Species <u>16</u> x 1 = <u>16</u>
1.	Rhododendron tomentosum			30	\checkmark	FACW	FACW Species x 2 =150
2.	Vaccinium uliginosum			15	\checkmark	FAC	FAC Species <u>67</u> x 3 = <u>201</u>
3.	Picea mariana			12		FACW	FACU Species <u>0</u> x 4 = <u>0</u>
4.	Calix fueneeseene			10		FACW	UPL Species x 5 =
5.	Betula nana			10		FAC	Column Totals: <u>158</u> (A) <u>367</u> (B)
6.	Vaccinium vitis-idaea			5		FAC	
7.	Empetrum nigrum		_	5		FAC	Prevalence Index = B/A =2.323
8.	Arctous ruber		_	1		FAC	Hydrophytic Vegetation Indicators:
9.	Vaccinium oxycoccos		_	1		OBL	✓ Dominance Test is > 50%
10.				0		FAC	✓ Prevalence Index is ≤3.0
		Total Cover:	8	9			Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50%	of Total Cover:	44.5	20% o	f Total Cover:	17.8	Remarks or on a separate sheet)
1.	Carex bigelowii			30	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Rubus chamaemorus			20	\checkmark	FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex aquatilis			15	\checkmark	OBL	be present, unless disturbed or problematic.
4.	Pedicularis labradorica			2		FACW	Plot size (radius, or length x width) 10m
5.	Tofieldia pusilla			1		FAC	
6.				0			% Cover of Wetland Bryophytes <u>20</u> (Where applicable)
				0			% Bare Ground _2
				0			Total Cover of Bryophytes 55
				0			
				0			Hydrophytic
		Total Cover:	6	8			Vegetation
	50% c	of Total Cover:			Total Cover:	13.6	Present? Yes No
Dam							

Remarks: Lichen 10. total tree cover <5% thus no dominant tree species.

SOIL

Profile Descript	-	ne depth needed to docu I atrix	ument the indicator or co Re	onfirm the ab		cators)		
(inches)	Color (mois	st) %	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-11		<u> </u>					Fibric Organics	
	· ·	· ·						
	· ·							
	· ·					·		
	ncentration. D=1	Depletion RM=Redu	ced Matrix ² Locatio		– – – – – – – – – – – – – – – – – – –	 ^=Root Cha	nnel M=Matrix	
Hydric Soil I			Indicators for Pi		-			
	r Histel (A1)		Alaska Color C		4		Alaska Gleyed Without H	ie 5V or Redder
	pedon (A2)		Alaska Color C		-	L	Underlying Layer	
			Alaska Redox		-		Other (Explain in Remark	s)
	Sulfide (A4)			Wiui 2.5	luc			-,
	k Surface (A12)						nary indicator of wetland h	ydrology,
	eyed (A13)		and an appropria					
Alaska Red		x.	⁴ Give details of c	olor chang	e in Remarl	ks		
	eyed Pores (A15)	1				-		
Restrictive Laye	er (if present):							
Type: Ice							Hydric Soil Present	? Yes $ullet$ No $igcap$
Depth (incl	hes): 11							
Remarks:								
HYDROLO	CV							
	rology Indicat	ors:					Secondary Indi	cators (two or more are required)
-	ators (any one is							ned Leaves (B9)
	Vater (A1)	Jumeree,	Inundation \	licible on A	orial Image			atterns (B10)
High Wate	()		Sparsely Veg		-			hizospheres along Living Roots (C3)
Saturation	. ,		Marl Deposit	-	Kave Juna			f Reduced Iron (C4)
Water Ma	()		Hydrogen Su	. ,	(C1)		Salt Depos	
	Deposits (B2)		Dry-Season					Stressed Plants (D1)
	,		Other (Expla					c Position (D2)
· - ·	or Crust (B4)				rks)		Shallow Aq	
	. ,							raphic Relief (D4)
· - ·	Soil Cracks (B6)						FAC-neutra	
Field Observa	. ,							
Surface Water		Yes 🔿 No 🖲	Depth (inche					
		Yes No					· · · · · · · · · · · · · · · · · · ·	
Water Table F			Depth (inche	es): 5		Wetiai	nd Hydrology Presen	t? Yes 🖲 No 🔾
Saturation Pre (includes capi		Yes No	Depth (inche	es): 0				
Describe Recor	ded Data (strea	m gauge, monitor w	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:		
Remarks:								