WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site:	Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanuska	a-Susitna Borough	_ Sampling Da	ate: 21	-Aug-15
Applicant/Owne	er: Alaska Energy Authority				Samp	ling Point:	SW15_	T313_09
Investigator(s):	BAB		Landform (hills	side, terrace	e, hummocks etc.):	Valley botto	om	
Local relief (co	ncave, convex, none): concave		Slope: 1.7	% / 1.0	Elevation:			
Subregion : C	ook Inlet Mountains	Lat.:			Long.:		Datum:	WGS84
Soil Map Unit N	lame:		NWI classification: PEM1B					
Are climatic/hy Are Vegetatio Are Vegetatio		significant	r? Yes (ly disturbed? roblematic?	Are "No	(If no, explain ormal Circumstances ded, explain any ans	s" present?		No O
SUMMARY	OF FINDINGS - Attach site map sho	wing sar	npling point	locations	, transects, impo	ortant featur	res, etc.	
Hydric S	nytic Vegetation Present? Yes ● No ○ Soil Present? Yes ● No ○ d Hydrology Present? Yes ● No ○	\supset		the Sam thin a We	pled Area etland?	Yes 🖲 No 🔾)	
Remarks:								
VEGETATIC	DN - Use scientific names of plants. L	ist all spe	ecies in the J	olot.				
		Absolute	Dominant	Indicator	Dominance Test we			
Tree Stratu	<u>m</u>	% Cover	Species?	Status	Number of Dominant That are OBL, FACW		1	(A)
2.					Total Number of Don Species Across All S		1	(B)

Tre	e Stratum		-70 CU		species	วเสเนร	That are OBL, FACW, or FAC:	4	()
1.							, ,	1	(A)
2.							Total Number of Dominant Species Across All Strata:	1	(B)
3. 4.				_			Percent of dominant Species That Are OBL, FACW, or FAC:	100.0%	(A/B)
5.			_	_			Prevalence Index worksheet:		
		Total Cover:	0				Total % Cover of: Multip	ly by:	
Sap	ling/Shrub Stratum	50% of Total Cover:	0 2	20% of 1	otal Cover:	0	OBL Species 32 x 1	= 32	_
1.	Salix fuscescens		1	L		FACW	FACW Species 4 x 2 =	=8	_
2.	O all' a labor			L		FACW	FAC Species x 3	=	_
3.)			FACU Species 0 x 4	= 0	_
4.			~)			UPL Species x 5	=0	_
5.)			Column Totals: 36 (A)	40	(B
6.)					_ (D
)			Prevalence Index = B/A =	1.111	
							Hydrophytic Vegetation Indicators:		
			-				✓ Dominance Test is > 50%		
)			✓ Prevalence Index is ≤ 3.0		
		Total Cover:					Morphological Adaptations (Provid	le supportina (data in
Her	b Stratum	50% of Total Cover:	1	20% of	Total Cover:	0.4	Remarks or on a separate sheet)	5	
1.	Carex aquatilis		_2	5	\checkmark	OBL	Problematic Hydrophytic Vegetation	า (Explain)	
2.	Comarum palustre			5		OBL	¹ Indicators of hydric soil and wetland hy	drology must	
3.	Equipatum fluviatila		1	1		OBL	be present, unless disturbed or problem	atic.	
4.	Carex rariflora		1	1		OBL	Plot size (radius, or length x width)	_10m	
5.	Viola palustris			1		FACW	% Cover of Wetland Bryophytes	10111	_
6.	Platanthora aquilonia		1	1		FACW	(Where applicable)		_
7.)			% Bare Ground	5	
8.)			Total Cover of Bryophytes	80	
9.			~)					
10.)			Hydrophytic		
		Total Cover:	34	1			Vegetation	<u>\</u>	
		50% of Total Cover:	17 2	20% of 1	otal Cover:	6.8	Present? Yes • No	ノ	

Remarks: less than 5% total shrub cover, thus no shrub species considered dominant.

(B)

SOIL

Profile Description		ne depth need atrix	led to docum	ent the indicator or co Re i	nfirm the at dox Featu		cators)		
(inches)	Color (mois	it)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7								Peat	Oi
7-14								Mucky Peat	Oe
	· ·							-	
								-	
¹ Type: C=Con	centration. D=I	Depletion. R	M=Reduce	d Matrix ² Location	n: PL=Por	e Lining. R	C=Root Cha	nnel. M=Matrix	-
Hydric Soil In	dicators			Indicators for Pr	oblemati	c Hydric S	oils ³		· · · · · · · · · · · · · · · · · · ·
Histosol or				Alaska Color Cl		4	-0113.] Alaska Gleyed Without H	up EV or Doddor
Histosof or Histic Epipe	. ,			Alaska Color Cl		-	L	Underlying Layer	
				Alaska Redox V	•	,		Other (Explain in Remark	(s)
Hydrogen S	Surface (A4)				1012.51	luc			- /
Alaska Gley	. ,			³ One indicator of	hydrophy	tic vegetatio	on, one prin	nary indicator of wetland h	ydrology,
Alaska Gley				and an appropriat	te landsca	pe position	must be pre	esent	
	ved Pores (A15)			⁴ Give details of c	olor chang	e in Remarl	ks		
	• •								
Restrictive Laye	r (if present):								? Yes 🖲 No 🔾
Type:								Hydric Soil Present	? Yes $ullet$ No $igodom$
Depth (inch	es):								
HYDROLO	GY								
Wetland Hydr	ology Indicat	ors:							cators (two or more are required)
Primary Indicat	ors (any one is	sufficient)						Water Stai	ned Leaves (B9)
Surface W	. ,			Inundation V	isible on A	erial Image	ery (B7)		Patterns (B10)
High Wate				Sparsely Veg		ncave Surfa	ice (B8)		hizospheres along Living Roots (C3)
Saturation				Marl Deposit	. ,				f Reduced Iron (C4)
Water Mar				Hydrogen Su				Salt Depos	
_	Deposits (B2)			Dry-Season \		()		_	Stressed Plants (D1)
Drift Depo				Other (Explai	in in Rema	irks)			ic Position (D2)
Iron Depos	or Crust (B4)							_	juitard (D3) graphic Relief (D4)
	il Cracks (B6)							FAC-neutra	
Field Observa								▼ FAC-neuuz	
Surface Water		$_{Yes}$ \bigcirc	No 🖲	Depth (inche	<i>(</i>),				
		Yes •		1 (,		Watla	nd Unduele and Dueses	t? Yes 🖲 No 🔾
Water Table Pi				Depth (inche	es): 3		wetia	nd Hydrology Presen	t? Yes 🖲 No 🖯
Saturation Pres (includes capill		Yes 🖲	No O	Depth (inche	es): 0				
Describe Record	led Data (strea	m gauge, n	nonitor well	, aerial photos, pre	vious inspe	ection) if av	ailable:		
Remarks:									