WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Bor	ough/City:	Matanusk	a-Susitna Borough Sampling Date: 08-Jul-13						
Applica	int/Owner: Alaska Energy Authority	Sampling Point: SW13_T101_09										
Investigator(s): WAD, BAB Landform (hillside, terrace, hummocks etc.): Hillside												
Local re	elief (concave, convex, none): hummocky		_ _ s	lope:	% / 0.8							
Subreg	ion : Copper River Basin	Lat.	— ∶ 62	2.667444370	- —— 5	Long.: -147.462269094 Datum: NAD83						
_	p Unit Name:	NWI classification: PSS4/1B										
	natic/hydrologic conditions on the site typical for th	uie time of w		Yes (● No ○	(If no, explain in Remarks.)						
Are Vegetation , Soil , or Hydrology significantly disturbed?												
	egetation , Soil , or Hydrology	,	-	olematic?		eded, explain any answers in Remarks.)						
SUMN	MARY OF FINDINGS - Attach site map s		amp	ling point	ocations	s, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No Significant												
	,	o O				etland? Yes No						
		o O		Wit	iiii a vv							
Rema	irks:											
VEGE	TATION -Use scientific names of plants	s. List all s	peci	ies in the p	lot.	Τ						
		Absolu		Dominant		Dominance Test worksheet:						
1.	e Stratum	% Cov		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:						
			0			Total Number of Dominant						
2. 3.			<u> </u>			Species Across All Strata:6(B)						
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)						
5.			<u>.</u>									
	Total Co	ver:0				Prevalence Index worksheet: Total % Cover of: Multiply by:						
Sapl	ling/Shrub Stratum 50% of Total Cover:	0 2	 .0% of	Total Cover:	0	OBL Species 0 x1 = 0						
			5		FAC	FACW Species 40 x 2 = 80						
1.	Empetrum nigrum Rhododendron tomentosum		.5	<u> </u>	FACW	FAC Species 75 x 3 = 225						
	Vaccinium uliginosum		.5	✓	FAC	FACU Species 0 x 4 = 0						
	Betula nana		10	<u></u>	FAC	UPL Species 0 x 5 = 0						
'	Picea mariana		.0	✓	FACW	Column Totals: <u>115</u> (A) <u>305</u> (B)						
6.	Salix barclayi		5		FAC							
7.	Salix pulchra		5		FACW	Prevalence Index = B/A = 2.652						
8.	Arctous ruber		5		FAC	Hydrophytic Vegetation Indicators:						
9.			0			Dominance Test is > 50%						
10.			0			Prevalence Index is ≤3.0						
	Total Co b Stratum 50% of Total Cover:			of Total Cover:	10	Morphological Adaptations (Provide supporting data in						
	Facilitation and officers			√ rotal cover.		Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)						
	Equisetum sylvaticum Carex bigelowii		.0 .5	<u>~</u>	FAC FAC							
	Carex bigelowii		. <u>5</u>)		1 7/	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
			<u> </u>									
)			Plot size (radius, or length x width) 10m						
)			% Cover of Wetland Bryophytes (Where applicable)						
)			% Bare Ground						
)			Total Cover of Bryophytes 10						
)									
)			Hydrophytic						
	Total Co		Vegetation Present? Yes No ○									
	50% of Total Cover:	<u>12.5</u> 2	u% of	rotal Cover:	5	FIESCHE! ICS C NO C						
Rema	arks:					·						

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T101_09

Profile Description	on: (Describe to t	he depth ne	eded to docum	ent the inc		nfirm the abs		ators)				
(inches)	Color (moi	st)	%	Color (n	noist)	%	Type ¹	Loc ²	Texture	Remarks		
0-2						_			Fibric Organics			
2-12	2.5Y	4/2	90	10YR	3/4	10	RM	PL	Silty Clay Loam	20% angular gravels (<1 inch)		
					- ——							
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix												
Hydric Soil In	ndicators:						c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alas	ka Color Ch	iange (TA4	1)*		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Aldoka Alpinie owales (1A5)					Underlying Layer	, ,		
Hydrogen	Sulfide (A4)			✓ Alas	ka Redox W	Vith 2.5Y H	lue	L	Other (Explain in Remark	rs)		
Thick Dark	Surface (A12)			3 0 :	V han a£				to decrease and an address of the			
Alaska Gle							tic vegetation be position m		mary indicator of wetland h esent	ydrology,		
Alaska Red	lox (A14)						•	-	CSCITE			
	yed Pores (A15)		4 Give (details of co	olor change	e in Remark	s				
Restrictive Laye												
Type: Silty									Hydric Soil Present	? Yes ● No O		
Depth (inch Remarks:	ies): ∠											
HYDROLO	GY											
Wetland Hydr	rology Indica	tors:							Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one is	sufficient)						Water Stained Leaves (B9)			
Surface W	ater (A1)			☐ Inundation Visible on Aerial Imagery (B7)					Drainage Patterns (B10)			
High Wate		Sparsely Vegetated Concave Surface (B8)					Oxidized Rhizospheres along Living Roots (C3)					
✓ Saturation	` '			Marl Deposits (B15)					Presence of Reduced Iron (C4)			
Water Mar		Hydrogen Sulfide Odor (C1)					Salt Depos	its (C5)				
	Deposits (B2)			Dry-Season Water Table (C2)						Stressed Plants (D1)		
☐ Drift Depo				Other (Explain in Remarks)						ic Position (D2)		
	or Crust (B4)								✓ Shallow Aq	` '		
Iron Depo	. ,									raphic Relief (D4)		
Surface So	oil Cracks (B6)							ar.	✓ FAC-neutra	l Test (D5)		
Field Observa	itions:											
Surface Water	Present?		No 💿	De	epth (inche	s):				_		
Water Table P	resent?	Yes 🔾	No 💿	De	epth (inche	s):		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre (includes capil		Yes	No \bigcirc	De	epth (inche	s): 9						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

U.S. Army Corps of Engineers Alaska Version 2.0