WETLAND DETERMINATION DATA FORM - Alaska Region

	/Site: Susitna-Watana Hydroelectric Project		_ D(orough/City:	Matanusk	a-Susitna Borough Sampling Date: 10-Jul-13						
Applica	nt/Owner: Alaska Energy Authority					Sampling Point: SW13_T132_05						
	gator(s): WAD, BAB		L	Landform (hillside, terrace, hummocks etc.): Hillside								
	elief (concave, convex, none): concave			Slope:		5 ° Elevation: 909						
	ion : Interior Alaska Mountains	l at	— · · · · ·	62.9515441659 Long.: -148.385257006 Datum: NAD83								
	p Unit Name:				No ○	NWI classification: PSS1E						
Are V	natic/hydrologic conditions on the site typical for the egetation , Soil , or Hydrology egetation , Soil , or Hydrology . ### ARY OF FINDINGS - Attach site map s	signification si	antly y pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No Is the Sampled Area												
	Hydric Soil Present? Yes ● No	\circ		Is the Sampled Area within a Wetland? Yes ● No ○								
	Wetland Hydrology Present? Yes No	\circ		WI	tnin a w	etiand? Tes © NO C						
	rks: soggy willow stand with patches of standing v	. List all	spe	cies in the		Dominance Test worksheet:						
Tree	e Stratum	Absol % Co		Dominant Species?	Indicator Status	Number of Dominant Species						
1.		_ /0 00	0		<u> </u>	That are OBL, FACW, or FAC: 8 (A)						
2.			0			Total Number of Dominant Species Across All Strata: 8 (B)						
3.			0									
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)						
5.			0									
	Total Co	ver: ()			Prevalence Index worksheet: Total % Cover of: Multiply by:						
Sap	ling/Shrub Stratum 50% of Total Cover:	0	 20% (of Total Cover:	0	0.00						
				_								
	Salix pulchra		45	✓	FACW							
	Betula nana		20		FAC	FAC Species 77 x 3 = 231 FACU Species 0 x 4 = 0						
3.	Dasiphora fruticosa		15		FAC	UPL Species 0 x 5 = 0						
4.	Salix reticulata		10 5		FAC FAC							
5.	Vaccinium uliginosum				FAC	Column Totals: <u>140</u> (A) <u>357</u> (B)						
6. 7.			0			Prevalence Index = B/A =						
			<u>0</u>			Undershit Vosetsking Tudieskog						
9.			0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%						
10.			0			✓ Prevalence Index is ≤3.0						
10.	Total Co	ver o	5									
Her	b Stratum 50% of Total Cover:			of Total Cover	:19	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
1.	Calamagrostis canadensis		10	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Rubus chamaemorus		6	✓	FACW	¹ Indicators of hydric soil and wetland hydrology must						
3.	Sanguisorba canadensis		5	✓	FACW	be present, unless disturbed or problematic.						
4.	Carex bigelowii		5	✓	FAC	Plot size (radius, or length x width) 10m						
5.	Cornus suecica		5	✓	FAC	Plot size (radius, or length x width)						
6.	Equisetum arvense		5	✓	FAC	(Where applicable)						
7.	Petasites frigidus		4		FACW	% Bare Ground						
8.	Swertia perennis		2		FACW	Total Cover of Bryophytes						
9.	Festuca altaica		2		FAC							
10.	Dodecatheon pulchellum		1		FACW	Hydrophytic						
	Total Co		5	of Total Cover:	9	Vegetation Present? Yes ● No ○						
	50% of Total Cover:		20/0	Ji Total Cover.								

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SOIL Sampling Point: SW13_T132_05

Profile Description		the depth nee	eded to docur	ment the ind		firm the ab		ators)		
Depth (inches)	Color (moi		%	Color (m		%	Type ¹	Loc ²	Texture	Remarks
0-3			100		,		.,,,,		Fibric Organics	
3-5			100						Hemic Organics	
5-9			100						Sapric Organics	
	7. FVD	2/2		2 FVD	2.5/2					
9-12	7.5YR	3/3	90	2.5YR	2.5/3	10	C	PL	Loamy Sand	wavy boundary
						-				
¹Type: C=Con	centration. D=	Depletion.	RM=Reduc						annel. M=Matrix	
Hydric Soil In	dicators:			Indicate	ors for Pro	blemati	C Hydric So	oils: ³		
Histosol or	Histel (A1)			Alask	a Color Cha	ange (TA	4)		Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epipe	edon (A2)				a Alpine sv		•		Underlying Layer	
Hydrogen S	Sulfide (A4)			Alask	a Redox W	ith 2.5Y H	lue		Other (Explain in Remark	(S)
	Surface (A12)			3 ∩no ir	dicator of h	avdronbyt	ic vegetatio	n one prir	mary indicator of wetland h	vydralogy
Alaska Gley	, ,			and an	appropriate	landscap	ne position r	nust be pri	esent	ydrology,
Alaska Red				4 Give d	etails of col	lor chang	e in Remark	c		
☐ Alaska Gley	ed Pores (A15	5)		GIVE G	ctalls of col	ior charig	e iii kemark			
Restrictive Laye	r (if present):									
Type:									Hydric Soil Present	? Yes ● No O
Depth (inch	es):									
HYDROLO	GY									
Wetland Hydr	ology Indica	tors:							Secondary Indi	cators (two or more are required)
Primary Indicat	ors (any one is	s sufficient)							Water Stai	ned Leaves (B9)
✓ Surface W	. ,			Inc	ındation Vis	sible on A	erial Imagei	ry (B7)	_	Patterns (B10)
✓ High Wate	,						ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)
✓ Saturation	. ,			∐ Ma	rl Deposits	(B15)				f Reduced Iron (C4)
Water Mar				_ `	drogen Sulf				☐ Salt Depos	
	Deposits (B2)				/-Season W					Stressed Plants (D1)
☐ Drift Depo				∐ Otl	ner (Explain	in Rema	rks)			ic Position (D2)
	or Crust (B4)									juitard (D3)
Iron Depos	oil Cracks (B6)								✓ FAC-neutra	graphic Relief (D4)
Field Observa									▼ FAC-Heutra	ii Test (D3)
Surface Water		Yes (e)	No O	De	pth (inches	٠. ٠				
			No O			•		\4/ -+l-	ud Hadaalaaa Baaaa	t? Yes • No ·
Water Table Pi				De	pth (inches	5): 4		wetia	nd Hydrology Presen	t? Yes S NO C
Saturation Pres (includes capill		Yes •	No O	De	pth (inches	s): 0				
Describe Record	led Data (strea	am gauge,	monitor we	ll, aerial pl	notos, previ	ious inspe	ection) if ava	ilable:		
Remarks:										
surface water in scattered depressions										

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