## WETLAND DETERMINATION DATA FORM - Alaska Region

Proje	ct/Site: Susitna-Watana Hydroelectric Project		Borough	/City:	Matanusk	ca-Susitna Borough Sampling Date: 10-Jul-13
Applio	cant/Owner: Alaska Energy Authority					Sampling Point: SW13_T132_05
	tigator(s): WAD, BAB		Landfor	rm (hills	side, terrac	ce, hummocks etc.): Hillside
	relief (concave, convex, none): concave		Slope:			0 ° Elevation: 910
	egion : Interior Alaska Mountains	l at ·	— · 62.9515			Long.: -148.385257006 Datum: WGS84
		Lat	02.9310	344 100	,	
	lap Unit Name:			V /	No ○	NWI classification: PSS1E
	imatic/hydrologic conditions on the site typical for this	•				(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○
	Vegetation , Soil , or Hydrology	-	ntly disturb			iornal olloanistarioes present:
Are	Vegetation . , Soil . , or Hydrology .	naturally	problema	tic'?	(If nee	eded, explain any answers in Remarks.)
SUN	MARY OF FINDINGS - Attach site map sh	owing sa	ampling	point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes   No	0				
	Hydric Soil Present? Yes   No	$\circ$				pled Area
	Wetland Hydrology Present? Yes   No	$\circ$		wi	thin a W	/etland? Yes ● No ○
Do	, 0,			1-		
Re	marks: soggy willow stand with patches of standing v	water, nex	t to the cr	еек.		
<b>VEG</b>	<b>ETATION</b> - Use scientific names of plants.	List all s	pecies ir	the i	plot.	
	·				<u> </u>	Dominance Test worksheet:
Tr	ee Stratum	Absolut % Cov			Indicator Status	Number of Dominant Species
1.		0				That are OBL, FACW, or FAC: 8 (A)
2		0				Total Number of Dominant Species Across All Strata:  8 (B)
3.						Percent of dominant Species
4.						That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0				Prevalence Index worksheet:
	Total Cove	er: <u> </u>				Total % Cover of: Multiply by:
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20	0% of Total	Cover:	0	OBL Species $0 \times 1 = 0$
1	Salix pulchra	45	<u>.</u>	<b>✓</b>	FACW	FACW Species 63 x 2 = 126
	Retula nana		_	<u> </u>	FAC	FAC Species 77 x 3 = 231
3.	Dasinhara fruticosa		_		FAC	FACU Species 0 x 4 = 0
4.			_		FAC	UPL Species 0 x 5 = 0
5.	Vaccinium uliginosum				FAC	Column Totals: <u>140</u> (A) <u>357</u> (B)
6.						
7.		•				Prevalence Index = B/A = 2.550
8.						Hydrophytic Vegetation Indicators:
9.		0				✓ Dominance Test is > 50%
10.		0				✓ Prevalence Index is ≤3.0
	Total Cove					Morphological Adaptations <sup>1</sup> (Provide supporting data in
_Не	erb Stratum 50% of Total Cover:	47.5 2	.0% of Tota	l Cover	: 19	Remarks or on a separate sheet)
1.	Calamagrostis canadensis	10		<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Rubus chamaemorus	_		<b>✓</b>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Sanguisorba canadensis	5		<b>✓</b>	FACW	be present, unless disturbed or problematic.
4.	Carex bigelowii			<b>✓</b>	FAC	Plot size (radius, or length x width)
5.	Cornus suecica			<b>✓</b>	FAC	% Cover of Wetland Bryophytes
6.	Equisetum arvense	5	_		FACIA	(Where applicable)
	Petasites frigidus	$-\frac{4}{1}$			FACW	% Bare Ground
7.	-	2			FACW	Total Cover of Bryophytes
8.	Swertia perennis					
8. 9.	Swertia perennis Festuca altaica	2	_		FAC	
8.	Swertia perennis Festuca altaica Dodecatheon pulchellum				FACW	Hydrophytic
8. 9.	Swertia perennis Festuca altaica	2 1 er: 45		Cover	FACW	Hydrophytic Vegetation Present?  Yes  No

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SOIL Sampling Point: SW13\_T132\_05

Type: C=Concer  Histosol or Histo Epipede Hydrogen Sul	cators:	3/3	100 100 100	2.5YR	2.5/3		Type <sup>1</sup>	Loc_2	Fibric Organics Hemic Organics Sapric Organics	
5-9 9-12  Type: C=Concer  Iydric Soil Indi Histosol or His Histic Epipedo Hydrogen Sul	ntration. D=	3/3	100	2.5YR	2.5/3	10				
9-12  Type: C=Concer  Iydric Soil Indi  Histosol or His  Histic Epipedo  Hydrogen Sul	ntration. D=	3/3		2.5YR	2.5/3	10			Sanric Organics	
9-12  Type: C=Concer  Iydric Soil Indi  Histosol or His  Histic Epipedo  Hydrogen Sul	ntration. D=	3/3		2.5YR	2.5/3	10			Jupine Organics	
Type: C=Concer  Iydric Soil Indi  Histosol or His  Histic Epipedo  Hydrogen Sul	ntration. D=			2.511	2.5/5		С	PL	Loamy Sand	wavy boundary
lydric Soil Indi Histosol or His Histic Epipedo Hydrogen Sul	cators:								Estiny State	wavy boundary
lydric Soil Indi Histosol or His Histic Epipedo Hydrogen Sul	cators:									
lydric Soil Indi Histosol or His Histic Epipedo Hydrogen Sul	cators:									
lydric Soil Indi Histosol or His Histic Epipedo Hydrogen Sul	cators:									
Histosol or His Histic Epipedo Hydrogen Sul		Depletion.	RM=Reduced	d Matrix	<sup>2</sup> Location:	: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix	
Histic Epipedo Hydrogen Sul				Indicate	ors for Pro	blematic	: Hydric S	oils: <sup>3</sup>		
Hydrogen Sul	stel (A1)		1	Alask	ka Color Cha	ange (TA4	4 1)		Alaska Gleyed Without H	ue 5Y or Redder
¬ ' -	on (A2)			Alask	ka Alpine sw	vales (TA5	5)		Underlying Layer	
T	fide (A4)			Alask	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remark	s)
_	ırface (A12)			3 ∩na ir	adicator of h	nydrophyt	ic vegetatio	n one prin	nary indicator of wetland h	vdrology
☐ Alaska Gleyed					appropriate					ydrology,
☐ Alaska Redox	` '			4 Give d	details of col	lor change	e in Remark	(S		
Alaska Gleyed		)								
estrictive Layer (i	if present):									
Type:									Hydric Soil Present	? Yes • No O
Depth (inches)	).									
YDROLOG										
etland Hydrolo rimary Indicators										cators (two or more are required) ned Leaves (B9)
Surface Wate		sumcient)			undation Vis	rible on A	orial Imago	n/ (B7)		atterns (B10)
✓ High Water T	. ,				arsely Vege		_			nizospheres along Living Roots (C3
✓ Saturation (A					arl Deposits		icave Sarra	cc (B0)		f Reduced Iron (C4)
Water Marks	(B1)				drogen Sulf	. ,	(C1)		☐ Salt Depos	its (C5)
Sediment De	posits (B2)			☐ Dry	y-Season W	ater Table	e (C2)		Stunted or	Stressed Plants (D1)
Drift Deposits	s (B3)			Oth	her (Explain	ı in Remaı	rks)		Geomorphi	c Position (D2)
Algal Mat or	Crust (B4)								Shallow Aq	uitard (D3)
Iron Deposits	s (B5)									raphic Relief (D4)
Surface Soil (	` ,								✓ FAC-neutra	l Test (D5)
ield Observatio		v (a)	No O							
Surface Water Pr	esent?			De	epth (inches	.): 2				
Water Table Pres		Yes 🕑	No O	De	epth (inches	;): 4		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾
		Yes •	No O	De	epth (inches	s): 0				
Saturation Preser includes capillar	l Data (strea	ım gauge, ı	monitor well,	aerial ph	hotos, previ	ous inspe	ction) if ava	ailable:		
includes capillar										

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