## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 21-Jun-12							
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T33_04							
	ator(s): SLI, EKJ		Landform (hill	side, terrac	e, hummocks etc.): Footslope							
-	elief (concave, convex, none): concave		Slope:	% /	° Elevation: 748							
	ion : Interior Alaska Mountains	l at :	62.782559908		Long.: -148.383079972 Datum: WGS84							
_		Lat	02.762559906	99								
	p Unit Name:			<u> </u>	NWI classification: Upland							
Are V	egetation  , Soil  , or Hydrology	significan naturally wing sa	ntly disturbed? problematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No Signature No Signa												
	Hydric Soil Present? Yes No				· /etland? Yes ○ No ●							
	Wetland Hydrology Present? Yes O No	<i>)</i>										
Remarks: upland area on small rounded ridge. drainage to the north a PSS wetland characterized by SW12_T33_V01.  /EGETATION - Use scientific names of plants. List all species in the plot.												
		Absolut	e Dominant	Indicator	Dominance Test worksheet:							
Tree	Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)							
1.		0			Total Number of Dominant							
2.		0			Species Across All Strata:3(B)							
3.		0			Percent of dominant Species							
4.		0	_		That Are OBL, FACW, or FAC:(A/B)							
5.		0			Prevalence Index worksheet:							
	Total Cover	r: <u> </u>	_		Total % Cover of: Multiply by:							
Sapl	ing/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species							
1.	Betula nana	25	<b>~</b>	FAC	FACW Species <u>24</u> x 2 = <u>48</u>							
2.	Betula glandulosa	35	✓	FAC	FAC Species <u>121</u> x 3 = <u>363</u>							
3.	Ledum decumbens	20		FACW	FACU Species 2 x 4 = 8							
4.	Empetrum nigrum	30	✓	FAC	UPL Species0 x 5 =0							
5.	Vaccinium uliginosum	20		FAC	Column Totals: <u>147</u> (A) <u>419</u> (B)							
6.	Picea glauca	2		FACU								
7.	Picea mariana	3	_	FACW	Prevalence Index = B/A =2.850_							
8.	Salix pulchra	1	_ 🖳	FACW	Hydrophytic Vegetation Indicators:							
9.	Vaccinium vitis-idaea	10		FAC	✓ Dominance Test is > 50%							
10.	Carex bigelowii	1	_	FAC	✓ Prevalence Index is ≤3.0							
Herl	Total Cover 50% of Total Cover:	29.4	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)									
1.		0	_ 🖳		Problematic Hydrophytic Vegetation (Explain)							
2.		0	_		<sup>1</sup> Indicators of hydric soil and wetland hydrology must							
3.		0	_		be present, unless disturbed or problematic.							
4.			_ =		Plot size (radius, or length x width) 10m							
5.			_ =		% Cover of Wetland Bryophytes							
			- =		(Where applicable)							
			_ =		% Bare Ground <u>10</u>							
			-		Total Cover of Bryophytes 60							
			-									
10.	Total Covos		Hydrophytic									
	<b>Total Cover</b> 50% of Total Cover:		_  % of Total Cover:	. 0	Vegetation Present?  Yes ● No ○							
<u> </u>												
Rema	arks: cladina lichens. picgla stressed (chlorotic). Car	rbig group	ped w shrubs for	dominance	e test, as total cover in herb layer <5%							

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SOIL Sampling Point: SW12\_T33\_04

Profile Description	(Describe to	the depth no	adad ta dagu		-firm the at		estoro)		10mc. 54412_155_04		
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)  Redox Features											
Depth (inches)	Color (mo		%	Color (moist)	_%_	_Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-1			100					Fibric Organics			
1-3			100					Hemic Organics			
3-6			100					Sapric Organics			
6-10	10YR	3/3	90					Loamy Sand	w/ coarse sand to sub-angular gravels		
10-12	7.5YR	2.5/3	95					Loamy Sand	coarse sand to sib-angular gravels		
12-15	10YR	3/4	100					Loamy Sand	w\abundant coarse sand		
¹Type: C=Con	centration. D=	=Depletion.	RM=Reduc	ed Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	ic Hydric So	oils: <sup>3</sup>				
	Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epipe	` ,			Alaska Alpine s	wales (TA	.5)		Underlying Layer			
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remark	Other (Explain in Remarks)		
	Surface (A12)	)		3 One indicator of	hydronhy	tic vegetatio	n one nrim	nary indicator of wetland h	wdrology		
Alaska Gle				and an appropriat	e landsca	pe position r	must be pre	nary indicator or wedand in esent	уагоюду,		
Alaska Red	` '	<b>-</b> \		4 Give details of co	olor chang	ıe in Remark	(S				
	yed Pores (A1	•									
Restrictive Laye	r (if present):							· · · · · · · · · · · · · · · · · · ·	? Yes ○ No •		
Type: Depth (inch	۵۶)،							Hydric Soil Present	? Yes ○ No •		
	cs).										
Remarks:	dicators										
no hydric soil indicators											
HYDROLO	ev.										
Wetland Hydr		tors:						Secondary Indi	cators (two or more are required)		
Primary Indicat			)						ned Leaves (B9)		
Surface W				☐ Inundation V	isible on A	Aerial Image	ry (B7)	Drainage Patterns (B10)			
High Wate	er Table (A2)			Sparsely Veg		_		Oxidized R	hizospheres along Living Roots (C3)		
Saturation	(A3)			Marl Deposits	s (B15)			Presence of	of Reduced Iron (C4)		
Water Mar	ks (B1)			Hydrogen Su	lfide Odor	(C1)		Salt Depos	its (C5)		
	Deposits (B2)			Dry-Season V	Nater Tab	le (C2)			Stressed Plants (D1)		
☐ Drift Depo				Other (Explai	n in Rema	arks)		_	ic Position (D2)		
	or Crust (B4)								quitard (D3)		
☐ Iron Depo									graphic Relief (D4)		
	oil Cracks (B6)						1	☐ FAC-neutra	al Test (D5)		
Field Observa		Vac C	No •	Donath (in also	,						
Surface Water				Depth (inche	•				·· · · ·		
Water Table P			No 💿	Depth (inche	s):		Wetlar	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre (includes capil		Yes O	No 💿	Depth (inche	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Domandar.											
Remarks:	-lindicate	· much c	CH-> cuora	· · · · · · · · · · · · · · · · · · ·	·-lat atro	shlore	···- sicala l	the second and loc	I		
no wetiana riyu	rology indicate	ors. much o	f the every	reen veg appears urc	ougnt stre	ssea - cniord	otic picgia, i	brown/dry empnig and led	igro.		

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