## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-13							
Applica	nt/Owner: Alaska Energy Authority		Sampling Point: SW13_T141_11									
Investigator(s): BAB Landform (hillside, terrace, hummocks etc.): Hillside												
-	elief (concave, convex, none): hummocky		Slope: 17.6									
	ion: Interior Alaska Mountains		· 33.221182851		Long.: -148.248875532 Datum: WGS84							
_			00.221102001		NWI classification: Upland							
Soil Map Unit Name: NWI classification: Upland  Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)												
Are Vo	egetation 🗌 , Soil 🔲 , or Hydrology 🔲 s	ignificantly laturally pro ving sam	disturbed?	Are "N (If nee	lormal Circumstances" present? Yes  No Oeded, explain any answers in Remarks.)							
	, , , , , , , , , , , , , , , , , , ,	the Sam	pled Area									
	· · · · · · · · · · · · · · · · · · ·		within a Wetland? Yes ○ No ●									
	Wetland Hydrology Present? Yes ○ No ●											
	TATION - Use scientific names of plants. Lis	st all spe  Absolute % Cover	cies in the  Dominant Species?		Dominance Test worksheet:  Number of Dominant Species							
1.		0			That are OBL, FACW, or FAC: 3 (A)							
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)							
3.		0			Percent of dominant Species							
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)							
5.		0			Prevalence Index worksheet:							
	Total Cover:				Total % Cover of: Multiply by:							
Sapl	ling/Shrub Stratum 50% of Total Cover:	0	OBL Species0 x 1 =0									
1.	Vaccinium uliginosum	10		FAC	FACW Species 15 x 2 = 30							
	Vaccinium vitis-idaea	3		FAC	FAC Species 48 x 3 = 144							
3.	Empetrum nigrum	20	<b>✓</b>	FAC	FACU Species <u>16</u> x 4 = <u>64</u>							
4.	Cassiope tetragona	5		FACU	UPL Species x 5 =0							
5.	Spiraea stevenii	5		FACU	Column Totals:79 (A)238 (B)							
6.	Salix pulchra	15	✓	FACW								
7.	Betula nana	5		FAC	Prevalence Index = B/A = 3.013							
8.	Loiseleuria procumbens	2		FACU	Hydrophytic Vegetation Indicators:							
9.		0			Dominance Test is > 50%							
10.		0			Prevalence Index is ≤3.0							
Herl	Total Cover: 50% of Total Cover:	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)										
1.	Festuca altaica	8	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation (Explain)							
2.	Anemone narcissiflora	_1_		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must							
3.	Artemisia tilesii	1		FACU	be present, unless disturbed or problematic.							
1	Sedum rosea	2		FAC	Plot size (radius, or length x width) 10m							
	Rubus arcticus (IAM)			FACU	% Cover of Wetland Bryophytes							
					(Where applicable)							
					% Bare Ground							
					Total Cover of Bryophytes							
10.	Total Cover:		Hydrophytic Vegetation									
	50% of Total Cover:	2.8	Present? Yes • No •									
D	arks:				<u> </u>							
Rema	arks:											

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SOIL Sampling Point: SW13\_T141\_11

Profile Descripti		the depth need	ded to docume	ent the indicator or cor	nfirm the abs		cators)				
(inches)	Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks		
0-2								Fibric Organics			
2-7	7.5YR	3/6						Loam	semi rounded to angular gravel and cobble		
7-19	10YR	3/3						Sandy Loam	semi rounded to angular gravel and cobble		
					-						
					-						
			— —		-						
¹Type: C=Cor	 ncentration. D=			d Matrix <sup>2</sup> Location				annel. M=Matrix			
Hydric Soil I	ndicators:		:	Indicators for Pr		4	oils:	_			
Histosol or	r Histel (A1)		l	☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder							
Histic Epip			]	Alaska Alpine swales (TA5) Underlying Layer							
	Sulfide (A4)		l	Alaska Redox V	Vith 2.5Y H	lue	_	Other (Explain in Remark	s)		
	Surface (A12)	)		<sup>3</sup> One indicator of	hydrophyt	ic vegetatic	on one prin	mary indicator of wetland h	ovdrology		
Alaska Gle				and an appropriat					yurology,		
Alaska Red		-\		<sup>4</sup> Give details of co	olor change	e in Remark	ks				
	eyed Pores (A15										
Restrictive Laye	er (if present):							<b></b> -	0 0		
Type:	= \							Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
no hydric soil in	10.000										
HYDROLO	GY										
Wetland Hydi		tors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one i	s sufficient)						Water Stained Leaves (B9)			
Surface W	/ater (A1)			☐ Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10)			
☐ High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits (B15)				_	f Reduced Iron (C4)		
Water Mai	rks (B1)			Hydrogen Sulfide Odor (C1)				Salt Depos	its (C5)		
Sediment Deposits (B2)				Dry-Season Water Table (C2)					Stressed Plants (D1)		
☐ Drift Depo				Uther (Explai	n in Rema	rks)		_	ic Position (D2)		
	or Crust (B4)								uitard (D3)		
Iron Depo	` ,								graphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)		
Field Observa Surface Water		Yes 〇	No (	Depth (inche	-1.						
				, ,	,		\******	1 Martin Lama Busan	V O No (0)		
Water Table P		Yes O	_	Depth (inche	s):		Wetia	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre (includes capil		Yes 🔾	No 💿	Depth (inche	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											

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