## WETLAND DETERMINATION DATA FORM - Alaska Region

	a-Watana Hydroelectric Project	В	orough/City:	Denali Bo	orough Sampling Date: 06-Aug-13			
Applicant/Owner: Al	aska Energy Authority		Sampling Point: SW13_T174_03					
	D, RWM	lside, terrac	ee, hummocks etc.): Hillside					
Local relief (concave,	·		Slope:		3 ° Elevation: 103			
Subregion: Interior A	, <u>F</u>	l at :	· —					
	iaska iviouritairis	Lat						
Soil Map Unit Name:				<b>●</b> N: ○	NWI classification: Upland			
Are Vegetation  Are Vegetation	, Soil ☐ , or Hydrology ☐  NDINGS - Attach site map sho	significantly naturally pr wing sam	y disturbed? oblematic?	(If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.			
Hydrophytic Ve	getation Present? Yes 💿 No 🤇	the Com	apled Area					
Hydric Soil Pre			Is the Sampled Area within a Wetland? Yes ○ No ●					
Wetland Hydro	ogy Present? Yes O No	etiand? Tes © No ©						
	de graminoid rich shrub meadow. Se scientific names of plants. L	ist all spe	ecies in the	-	Dominance Test worksheet:			
Tree Stratum		% Cover		Status	Number of Dominant Species			
1.		0			That are OBL, FACW, or FAC: 3 (A)			
2		0_			Total Number of Dominant Species Across All Strata: 4 (B)			
3.		0			Percent of dominant Species			
4		0			That Are OBL, FACW, or FAC: 75.0% (A/B)			
5		0			Prevalence Index worksheet:			
	Total Cover	r: <u> </u>			Total % Cover of: Multiply by:			
Sapling/Shrub Stra	tum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species x 1 =			
Vaccinium ulig	inosum	40	<b>✓</b>	FAC	FACW Species 20 x 2 = 40			
Vaccinium vitis	-idaea	20	<b>✓</b>	FAC	FAC Species			
3. Salix pulchra		10		FACW	FACU Species <u>6</u> x 4 = <u>24</u>			
4. Rhododendror	tomentosum	10		FACW	UPL Species			
5. Betula nana		5		FAC	Column Totals:101 (A)289 (B)			
6. Spiraea stever	nii	3		FACU				
7		0			Prevalence Index = B/A =			
8		0			Hydrophytic Vegetation Indicators:			
					✓ Dominance Test is > 50%			
10					Prevalence Index is ≤3.0			
Herb Stratum	<b>Total Cover</b> 50% of Total Cover:		6 of Total Cove	r: <u>17.6</u>	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
Carex bigelow			<b>V</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
Bistorta plumo	sa		<b>V</b>	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
					be present, unless disturbed or problematic.			
					Plot size (radius, or length x width)			
		•			% Cover of Wetland Bryophytes			
		•			(Where applicable)			
					% Bare Ground			
					Total Cover of Bryophytes5			
		- <del>0</del>			Hartan batta			
10.	Total Cover		Hydrophytic Vegetation					
T. Control of the Con	i otal Covel	: <u>13</u>	of Total Cover		Present? Yes • No •			

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SOIL Sampling Point: SW13\_T174\_03

Matrix			eded to docur	cument the indicator or confirm the absence of indicators) <b>Redox Features</b>							
Depth (inches)	Color (moi	ist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-5			100					Fibric Organics			
5-12	10YR	3/4						Loamy Sand	with 90 percent angular coarse fragments		
-											
									-		
								-			
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduc	ed Matrix <sup>2</sup> Location	n: PL=Por	e Lining. RO	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblemati	c Hydric S	oils: <sup>3</sup>				
Histosol or Histel (A1)				☐ Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder							
l —	edon (A2)			Alaska Alpine		-		Underlying Layer			
	Sulfide (A4)			Alaska Redox	With 2.5Y H	lue		Other (Explain in Remarl	cs)		
	Surface (A12)										
Alaska Gle	, ,							nary indicator of wetland h	ydrology,		
Alaska Red				and an appropria	ate landscap	e position	must be pre	esent			
	eyed Pores (A15	5)		4 Give details of	color chang	e in Remarl	(S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):							•			
Remarks:											
HYDROLO	GY										
<b>———</b>	rology Indica	tors:						_Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	s sufficient	)					Water Stained Leaves (B9)			
Surface W	/ater (A1)			Inundation	Visible on A	erial Image	ry (B7)	☐ Drainage F	Patterns (B10)		
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits (B15)				Presence of	of Reduced Iron (C4)		
☐ Water Marks (B1) ☐ Hydrogen Sulfide Odd						(C1)		☐ Salt Depos	sits (C5)		
Sediment	Deposits (B2)			☐ Dry-Season				Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)			Other (Expla	ain in Rema	rks)		Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)							Shallow Ad	quitard (D3)		
☐ Iron Depo	osits (B5)							Microtopog	graphic Relief (D4)		
Surface S	oil Cracks (B6)							FAC-neutra	al Test (D5)		
Field Observa	ations:										
Surface Water	r Present?	Yes 🔾	No 💿	Depth (inch	es):						
Water Table P	Present?	Yes $\bigcirc$	No 💿	Depth (inch	es):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre	esent?	Yes O	No •		,						
(includes capi				Depth (inch							
Describe Recor	ded Data (strea	am gauge,	monitor we	ll, aerial photos, pre	evious inspe	ection) if av	ailable:				
Damanda											
Remarks:	adicators obser	vod.									
no hydrology indicators observed											

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