## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	rough Sampling Date: 30-Jul-13				
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T147_06				
	pator(s): CTS, AMD		Landform (hill	side, terrac	e, hummocks etc.): Flat				
	elief (concave, convex, none): flat		Slope:	% / 2.2	N. C.				
	ion : Interior Alaska Mountains	l at ·	- · 63.372046		Long.: -148.940816001 Datum: NAD83				
_		Lat	03.372040						
	p Unit Name:		- >/	No ○	NWI classification: Upland				
Are V	egetation  , Soil  , or Hydrology	significan naturally p wing sa	tly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.)  formal Circumstances" present? Yes ● No ○  fielded, explain any answers in Remarks.)  formal Circumstances" present? Yes ● No ○  fielded, explain any answers in Remarks.)				
	Hydrophytic Vegetation Present? Yes  ● No  ○ Hydric Soil Present? Yes  ○ No  ●		Is the Sampled Area						
	Wetland Hydrology Present? Yes ○ No ④		within a Wetland? Yes ○ No ●						
	rks: Fnwws with low [and tall!] Betnan understory  TATION - Use scientific names of plants. Li				Dominance Test worksheet:				
Tree	: Stratum	Absolute % Cove		Indicator Status	Number of Dominant Species				
	Picea glauca	15	✓	FACU	That are OBL, FACW, or FAC: (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: 66.7% (A/B)				
5.		0			Prevalence Index worksheet:				
	Total Cover	15	_		Total % Cover of: Multiply by:				
Sap	ing/Shrub Stratum 50% of Total Cover:	3	OBL Species $0 \times 1 = 0$						
1	Betula nana	65	<b>✓</b>	FAC	FACW Species 36 x 2 = 72				
	Vaccinium uliginosum	60		FAC	FAC Species 145.1 x 3 = 435.3				
	Empetrum nigrum	15		FAC	FACU Species 16.1 x 4 = 64.40				
4.	Vaccinium vitis-idaea	5	-	FAC	UPL Species 0 x 5 = 0				
5.	Rhododendron tomentosum	35	- 🗀	FACW					
6.	Salix pulchra	1		FACW	Column Totals: <u>197.2</u> (A) <u>571.7</u> (B)				
7.	Pro	0			Prevalence Index = B/A =				
8.		0			Hydrophytic Vegetation Indicators:				
		0			✓ Dominance Test is > 50%				
		0			✓ Prevalence Index is ≤3.0				
	Total Cover  Stratum 50% of Total Cover:			36.2	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)				
1.	Carex bigelowii	0.1		FAC	Problematic Hydrophytic Vegetation (Explain)				
2.	Cornus canadensis	1		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
3.	Bistorta plumosa	0.1		FACU	be present, unless disturbed or problematic.				
4.		0	- 📙		Plot size (radius, or length x width) 10m				
5.			-		% Cover of Wetland Bryophytes				
6.			-		(Where applicable)				
			-		% Bare Ground3				
			-		Total Cover of Bryophytes				
		0	- 📙						
iv Hydrophytic									
1			_ % of Total Cover:	0.24	Present? Yes • No •				
	50% of Total Cover:	Uh /''	% Of LOTAL COVER	. 11 //	i i cociic.				

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SOIL Sampling Point: SW13\_T147\_06

Profile Descripti		the depth ne	eded to docu	ment the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (mo			Color (moist)	w	Type <sup>1</sup>	_Loc_ <sup>2</sup>	Texture	Remarks		
0-4	Color (mc	oist)	100	Color (moist)		Туре	LOC	Fibric Organics	Remarks		
4-12	10YR	3/3	100					Sandy Loam			
12-20	10YR	3/3	100					Loamy Sand			
	-				_		-				
¹Type: C=Cor	ncentration. D	=Depletion	RM=Reduc	ted Matrix <sup>2</sup> Locatio	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for P	roblemati	c Hydric So	oils: <sup>3</sup>				
Histosol or	r Histel (A1)			Alaska Color C	hange (TA	4) <sup>4</sup>		Alaska Gleyed Without Hu	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine	swales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y H	lue		Other (Explain in Remark	s)		
☐ Thick Dark	Surface (A12	)		3							
Alaska Gle	yed (A13)			<ul> <li>One indicator of and an appropria</li> </ul>				nary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)					-	•				
Alaska Gle	eyed Pores (A1	5)		<sup>4</sup> Give details of c	olor chang	e in Kemark	S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present?	? Yes ○ No •		
Depth (inch	nes):										
no hydric soil ir	idicacors										
HYDROLO	GY										
Wetland Hyd		itors:						Secondary Indic	cators (two or more are required)		
Primary Indica			:)					Water Stained Leaves (B9)			
Surface W	/ater (A1)			☐ Inundation \	/isible on A	erial Imagei	ry (B7)	☐ Drainage P	atterns (B10)		
High Wate	er Table (A2)			Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized R	nizospheres along Living Roots (C3)		
Saturation (A3)				☐ Marl Deposit	s (B15)			Presence of	f Reduced Iron (C4)		
☐ Water Ma	rks (B1)			Hydrogen Su	ılfide Odor	(C1)		Salt Deposi	ts (C5)		
Sediment	Deposits (B2)			Dry-Season	Water Tabl	e (C2)			Stressed Plants (D1)		
Drift Depo	osits (B3)			Other (Expla	in in Rema	rks)		_	c Position (D2)		
	or Crust (B4)							Shallow Aq			
☐ Iron Depo	. ,							_	raphic Relief (D4)		
	oil Cracks (B6)						1	☐ FAC-neutra	l Test (D5)		
Field Observa		V (	No •	5 11 (1 1	,						
Surface Water				Depth (inche	es):						
Water Table P		Yes C	No 💿	Depth (inche	es):		Wetla	nd Hydrology Present	t? Yes O No 🖲		
Saturation Pre (includes capi		Yes C	No 💿	Depth (inche	es):						
Describe Recor	ded Data (stre	am gauge,	monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Domarke											
Remarks:  No hydrology indicators											
No hydrology indicators											

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