## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	orough Sampling Date: 02-Aug-13				
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T204_06				
	gator(s): CTS, AMD		Landform (hillside, terrace, hummocks etc.): Flat						
	relief (concave, convex, none): concave		Slope: % / 1.8 ° Elevation: 731						
	gion : Interior Alaska Mountains	l at :	· · —						
		Lat							
	ap Unit Name:		- N	No ○	NWI classification: Upland				
Are \		significantl	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○  aded, explain any answers in Remarks.)  s, transects, important features, etc.				
	Hydrophytic Vegetation Present? Yes   No C		la	the Com	mlad Araa				
	Hydric Soil Present? Yes No •	)	Is the Sampled Area within a Wetland? Yes ○ No ●						
	Wetland Hydrology Present? Yes ● No C	)	WI	within a Wetland? Yes ○ No ●					
Rem	ETATION -Use scientific names of plants. Li	•		•	Dominance Test worksheet:				
Tre	e Stratum	Absolute % Cover		Indicator 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: 3 (B)				
3.					Percent of dominant Species				
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)				
5.		0			Prevalence Index worksheet:				
	Total Cover:	: <u> </u>			Total % Cover of: Multiply by:				
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 7 x 1 = 7				
1	Salix fuscescens	20	<b>✓</b>	FACW	FACW Species 20 x 2 = 40				
	D. I. I			FAC	FAC Species 3 x 3 = 9				
3.	Betula nana				FACU Species 1 x 4 = 4				
4.					UPL Species 0 x 5 = 0				
5.					Column Totals: 31 (A) 60 (B)				
6.									
7.		0			Prevalence Index = B/A = 1.935				
8.		0			Hydrophytic Vegetation Indicators:				
9.		0			✓ Dominance Test is > 50%				
10.		0			✓ Prevalence Index is ≤3.0				
	Total Cover: 50% of Total Cover:			: 4.4	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)				
		4	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
1.	Carex Ioliacea				1 4				
	Carex rotundata		<u>~</u>	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must				
2. 3.	Carex rotundata Luzula multiflora	3		FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
2. 3. 4.	Carex rotundata Luzula multiflora Calamagrostis canadensis	3 1 1			be present, unless disturbed or problematic.				
2. 3. 4.	Carex rotundata Luzula multiflora	3 1 1 0		FACU	be present, unless disturbed or problematic.				
2. 3. 4. 5.	Carex rotundata Luzula multiflora Calamagrostis canadensis	3 1 1 0 0		FACU	be present, unless disturbed or problematic.  Plot size (radius, or length x width)				
2. 3. 4. 5. 6. 7.	Carex rotundata Luzula multiflora Calamagrostis canadensis	3 1 1 0 0		FACU	be present, unless disturbed or problematic.  Plot size (radius, or length x width)				
2. 3. 4. 5. 6. 7.	Carex rotundata Luzula multiflora Calamagrostis canadensis	3 1 1 0 0 0	<b>y</b>	FACU	Plot size (radius, or length x width)  % Cover of Wetland Bryophytes (Where applicable)				
2. 3. 4. 5. 6. 7. 8. 9.	Carex rotundata Luzula multiflora Calamagrostis canadensis	3 1 1 0 0 0	<b>y</b>	FACU	be present, unless disturbed or problematic.  Plot size (radius, or length x width)				
2. 3. 4. 5. 6. 7. 8. 9.	Carex rotundata Luzula multiflora Calamagrostis canadensis	3 1 0 0 0 0 0		FACU	be present, unless disturbed or problematic.  Plot size (radius, or length x width) 10m    % Cover of Wetland Bryophytes (Where applicable) 60    Total Cover of Bryophytes 35    Hydrophytic				
2. 3. 4. 5. 6. 7. 8. 9.	Carex rotundata Luzula multiflora Calamagrostis canadensis	3 1 1 0 0 0 0 0 0		FACU	be present, unless disturbed or problematic.  Plot size (radius, or length x width) 10m    % Cover of Wetland Bryophytes (Where applicable) 60    Total Cover of Bryophytes 35    15				

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SOIL Sampling Point: SW13\_T204\_06

Profile Descript	ion: (Describe to t	he depth ne	eded to docu	ument the indicator or co	nfirm the al	bsence of indica	ators)	-	10mii: 51115_1264_00		
Depth Descript		latrix			dox Feat						
(inches)	Color (moi	st)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-8	10YR	3/3	100					Sandy Loam			
8-10	2.5Y	4/2	100					Sandy Loam			
10-20		4/1	100					Sandy Loam			
		-1									
					- —			-			
¹Type: C=Co	ncentration. D=	Depletion.	. RM=Redu	ced Matrix <sup>2</sup> Location	ı: PL=Por	re Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	ic Hydric So	oils:				
Histosol o	r Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without Hu	e 5Y or Redder		
	pedon (A2)			Alaska Alpine s	wales (TA	5)	Underlying Layer				
	Sulfide (A4)			Alaska Redox V	Vith 2.5Y	Hue		Other (Explain in Remarks	5)		
Thick Darl	k Surface (A12)										
Alaska Gle	eyed (A13)			<sup>3</sup> One indicator of and an appropriat				nary indicator of wetland hy	drology,		
Alaska Red	dox (A14)						•	Sont			
Alaska Gle	eyed Pores (A15	)		4 Give details of co	olor chang	ge in Remark	S				
Restrictive Laye	er (if present):										
Type:	, ,							Hydric Soil Present?	Yes ○ No •		
Depth (incl	nes):							,			
Remarks:											
Remarks											
HYDROLO	CV										
	rology Indicat	tore						Cocondany Indic	otors (two or more are required)		
=	itors (any one is		·)					Secondary Indicators (two or more are required)  Water Stained Leaves (B9)			
	Vater (A1)	o danieleni		☐ Inundation V	isible on <i>l</i>	∆erial Imager	v (B7)		atterns (B10)		
	er Table (A2)			Sparsely Veg		_			izospheres along Living Roots (C3)		
Saturation				Marl Deposits		illeave Juliae	.e (D0)		Reduced Iron (C4)		
☐ Water Ma	. ,			Hydrogen Su	` '	· (C1)		Salt Deposit	` ,		
	Deposits (B2)			Dry-Season V					Stressed Plants (D1)		
☐ Drift Depo	,			Other (Explai				✓ Geomorphic	` '		
	or Crust (B4)					arr,		Shallow Aqu	` '		
☐ Iron Depo									raphic Relief (D4)		
`	oil Cracks (B6)							✓ FAC-neutral			
Field Observa								<u> </u>	,		
Surface Wate		Yes C	No •	Depth (inche	s):						
Water Table F			No •	Depth (inche	-		Wetlar	nd Hydrology Present	? Yes • No O		
Saturation Pre					,		110000	,			
(includes capi		Yes $\subseteq$	No 💿	Depth (inche	s):						
Describe Recor	ded Data (strea	am gauge,	monitor we	ell, aerial photos, prev	ious insp	ection) if ava	ilable:				
Remarks:											

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