## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroel	ectric Project	Bo	prough/City:	Denali Bo	prough Sampling Date: 06-Aug-12
pplica	int/Owner: Alaska Energy Autho	ority				Sampling Point: SW12_T04_07
nvesti	gator(s): CTS, EKJ		L	andform (hills	side, terrac	e, hummocks etc.): Shoulder slope
ocal r	elief (concave, convex, none):	convex		Slope: 7.0	% / 4.0	) ° Elevation: 854
Subrea	ion : Interior Alaska Mountains		Lat: 6	3.453769907	 3	Long.: -148.66106997 Datum: WGS84
	p Unit Name:			0.4007 00007		NWI classification: Upland
	· -	-20-10-20-16-20-2-0		Vac	● No ○	
	natic/hydrologic conditions on the					(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○
		, ,, ,	•			omai on outrocarroso procenti
Are V	egetation $\square$ , Soil $\square$ , c	or Hydrology $\square$	naturally pro	oblematic?	(If nee	eded, explain any answers in Remarks.)
UMN	MARY OF FINDINGS - Atta	ch site map sho	wing sam	pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present?	Yes O No @	)			
	Hydric Soil Present?			Is	the Sam	
	Wetland Hydrology Present?			wi	thin a W	etland? Yes ○ No ●
Rem	arks: Sdet w lots of lichen in plot	, scattered low and	tall birch an	d willow in lar	ger mappa	able unit (could be Slobw but shrub cover likely <25%)
'EGE	TATION - Use scientific na	or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)  ach site map showing sampling point locations, transects, important features, etc.				
	- 200 00.0					Dominance Test worksheet:
Tree	e Stratum					
1.	Scracum		0			That are OBL, FACW, or FAC: (A)
2.			0	Ē		Total Number of Dominant Species Across All Strata: 3 (B)
3.				$\overline{\Box}$		
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
5.			0			Duavelance Index workshoots
		Total Cover	:			Prevalence Index worksheet:  Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50°	% of Total Cover:	0 20% (	of Total Cover:	0	OBL Species $0 \times 1 = 0$
	Potulo nono		20	<b>✓</b>	FAC	FACW Species 6 x 2 = 12
1. 2.	Betula nana  Loiseleuria procumbens		15	<b>✓</b>	FACU	FAC Species 32 x 3 = 96
3.	Arctostaphylos alpina		15	<b>✓</b>	FACU	FACU Species 31 x 4 = 124
4.	Diapensia lapponica		2		UPL	UPL Species 2 x 5 = 10
5.	Vaccinium uliginosum		10		FAC	
6.	Ledum decumbens		6		FACW	Column Totals:
7.	Vaccinium vitis-idaea		1		FAC	Prevalence Index = B/A = 3.408
8.			0			Hydrophytic Vegetation Indicators:
9.	Anthoxanthum monticola ssp. alp	oinum	1		FACU	Dominance Test is > 50%
10.	Carex microchaeta		1		FAC	☐ Prevalence Index is ≤3.0
Her	<b>b Stratum</b> 50	<b>Total Cover</b> 0% of Total Cover:		of Total Cover	14.2	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1.			0			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
						<sup>1</sup> Indicators of hydric soil and wetland hydrology must
			_			be present, unless disturbed or problematic.
						Plot size (radius, or length x width) 10m
4.						% Cover of Wetland Bryophytes 0
5.			_			(Where applicable)
5. 6. 7.			0			
5. 6. 7. 8.			0 0		<u> </u>	(Where applicable)
5. 6. 7. 8. 9.			0 0 0			(Where applicable)  % Bare Ground
5. 6. 7. 8. 9.			0 0 0			(Where applicable)  % Bare Ground5  Total Cover of Bryophytes2  Hydrophytic
5. 6. 7. 8. 9.			0 0 0 0 0 0		0	(Where applicable)  % Bare Ground  Total Cover of Bryophytes  2

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SOIL Sampling Point: SW12\_T04\_07

0.2	Color (m	oist)	%	Color (moist)	% T	ype <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-2	10YR	2/2	85				Sandy Loam	10% roots 5% semiangular gravel
2-6	10YR	3/3	90				Loamy Sand	few roots, 10% semiang gravel
6-9	10YR	3/4	90				Sandy Loam	semiangular gravel and cobbles
9-16	10YR	3/2	85				Loamy Sand	semiang grvl-cobbles, co sand
16-19	10YR	2/1	90				Loamy Sand	semiang grvl-cobbles, co sand
10 15	1011							Semilaring gravi-coublies, co sailu
							_	
Type: C=Cor	ncentration. D	=Depletion		d Matrix <sup>2</sup> Locatio		-	nannel. M=Matrix	
ydric Soil I	ndicators:			Indicators for P	4	ydric Soils: <sup>3</sup>	_	
Histosol or	Histel (A1)			Alaska Color C		L	☐ Alaska Gleyed Withou	t Hue 5Y or Redder
Histic Epip	edon (A2)			Alaska Alpine	,	Г	Underlying Layer	1.2
¬ ′ ´	Sulfide (A4)			Alaska Redox \	With 2.5Y Hue	L	☐ Other (Explain in Rem	narks)
_	Surface (A12	<u>'</u> )		<sup>3</sup> One indicator of	f hydronhytic y	egetation one nr	imary indicator of wetlar	nd hydrology
☐ Alaska Gle				and an appropria	te landscape p	osition must be p	resent	ia ii,aiology,
☐ Alaska Red	` '	· F \		4 Give details of o	color change in	Remarks		
」Alaska Gle	yed Pores (A	.5)					T	
strictive Laye	er (if present)	:						
Type:							Hydric Soil Prese	ent? Yes O No 💿
Depth (inch	ies):							
	ndicators							
hydric soil ir								
hydric soil ir	GY							
hydric soil ir YDROLO etland Hydr	GY rology Indic							
/DROLO etland Hydrimary Indica	GY rology Indic tors (any one		nt)	Inundation	licible on April	Limacon (P7)	Water 9	Stained Leaves (B9)
/DROLO etland Hydi imary Indica	GY rology Indic tors (any one /ater (A1)		nt)		/isible on Aeria		Water S	Stained Leaves (B9) ge Patterns (B10)
YDROLO  etland Hydi rimary Indica  Surface W  High Wate	GY rology Indic tors (any one (ater (A1) er Table (A2)		nt)	Sparsely Veg	getated Concav		Water 9  Drainag  Oxidize	Stained Leaves (B9) ge Patterns (B10) d Rhizospheres along Living Roots (C
YDROLO  etland Hydrimary Indica  Surface W  High Wate	GY rology Indictors (any one later (A1) er Table (A2) n (A3)		nt)	Sparsely Veg	getated Concav cs (B15)	re Surface (B8)	Water 9 Drainag Oxidize Presend	Stained Leaves (B9) ge Patterns (B10) d Rhizospheres along Living Roots (C ce of Reduced Iron (C4)
YDROLO  etland Hydrimary Indica  Surface W  High Wate  Saturation  Water Ma	GY rology Indic tors (any one /ater (A1) er Table (A2) n (A3) rks (B1)	is sufficier	nt)	Sparsely Veg Marl Deposit Hydrogen Su	getated Concav s (B15) ulfide Odor (C1	e Surface (B8)	Water 9 Drainag Oxidize Presence Salt De	Stained Leaves (B9) ge Patterns (B10) d Rhizospheres along Living Roots (C te of Reduced Iron (C4) posits (C5)
rimary Indica Surface W High Wate Saturation Water Ma Sediment	GY rology Indictors (any one later (A1) er Table (A2) n (A3) rks (B1) Deposits (B2)	is sufficier	nt)	Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Concav cs (B15) ulfide Odor (C1 Water Table (C	e Surface (B8)	Water S Drainag Oxidize Presenc Salt De Stunted	Stained Leaves (B9) ge Patterns (B10) d Rhizospheres along Living Roots (C te of Reduced Iron (C4) posits (C5) d or Stressed Plants (D1)
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