WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydro	oelectric Project	В	orough/City:	Denali Bo	rough Sampling Date: 08-Aug-13
Applic	ant/Owner: Alaska Energy Au	uthority				Sampling Point: SW13_T203_02
	igator(s): CTS, AMD			Landform (hil	lside, terrac	e, hummocks etc.): Lowland
	relief (concave, convex, none):	concave		Slope: 0.0	% / 0.0	
	gion: Interior Alaska Mountain			63.40025842		Long.: -148.596075654 Datum: WGS84
			Lat(33.40023642	2	
	ap Unit Name:			- \	No ○	NWI classification: Upland
Are \		, or Hydrology , or Hydrology tach site map sho	significantly naturally pro owing sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No No eded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No
	Hydrophytic Vegetation Preser			Is	the Sam	pled Area
	Hydric Soil Present?	Yes No			ithin a W	
	Wetland Hydrology Present?	Yes No)			ouding.
	narks: ETATION -Use scientific I	names of plants. I			•	Dominance Test worksheet:
Tre	ee Stratum		Absolute % Cover	Dominant Species?	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 Cove	er: <u> </u>			Total % Cover of: Multiply by:
Sa	oling/Shrub Stratum	50% of Total Cover:	0 20%	of Total Cover	0	OBL Species0 x 1 =0
1.	Dasiphora fruticosa		10	✓	FAC	FACW Species 5 x 2 = 10
2.	Picea glauca				FACU	FAC Species <u>55.2</u> x 3 = <u>165.6</u>
3.	Salix fuscescens			✓	FACW	FACU Species <u>18</u> x 4 = <u>72</u>
4.	Vaccinium uliginosum		2		FAC	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Betula nana		1		FAC	Column Totals:78.2 (A)247.6 (B)
6.	Vaccinium vitis-idaea		0.1		FAC	
7.			0			Prevalence Index = B/A = 3.166
8.						Hydrophytic Vegetation Indicators:
9.			0			✓ Dominance Test is > 50%
10.			0			Prevalence Index is ≤3.0
He	rb Stratum	Total Cove 50% of Total Cover:			r: <u>3.82</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Festuca altaica		35	✓	FAC	Problematic Hydrophytic Vegetation (Explain)
2.	Chamerion angustifolium		3		FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Aconitum delphinifolium				FAC	be present, unless disturbed or problematic.
4.	Dubus settinus (IAM)				FACU	Plot size (radius, or length x width)
5.	Dolomonium ocutiflorum		1		FACU FAC	% Cover of Wetland Bryophytes
6.	Calidana multimadiata				FACU	(Where applicable)
7. 8.	A		0.1		FAC	% Bare Ground 0
9.	Trientalis europaea				FACU	Total Cover of Bryophytes
	Calamagrostis canadensis		1		FAC	Hydronhytic
10		T.1.10.				Hydrophytic Vegetation
10.		Total Cove	:r: 59.1			vegetation _
10.		50% of Total Cover:		of Total Cover	11.82	Present? Yes No

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SOIL Sampling Point: SW13_T203_02

		the depth ne Matrix	eeded to docu	ment the indicator or co	onfirm the abso		ators)		
Depth — (inches)	Color (mo	ist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2			100	Color (illusios)		.,,,,		Organic hemic	
2-5	10YR	2/1	100					Silt Loam	
5-20	2.5Y	3/3	100					Silt Loam	
	2.51							Sile Edulii	
¹Type: C=Conce	entration. D=	-Depletion	. RM=Reduc	ced Matrix ² Locatio	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Ind	icators:			Indicators for P	roblematic	Hydric So	oils: ³		
Histosol or H	listel (A1)			Alaska Color C	hange (TA4))4		Alaska Gleyed Without Hu	ue 5Y or Redder
Histic Epiped	lon (A2)			Alaska Alpine	swales (TA5))		Underlying Layer	
Hydrogen Su	ılfide (A4)			Alaska Redox	With 2.5Y H	ue		Other (Explain in Remark	s)
☐ Thick Dark S	urface (A12))		3.0	en ar care e				A dec
Alaska Gleye	d (A13)			and an appropria				nary indicator of wetland h esent	ydrology,
Alaska Redox				⁴ Give details of o		•	•		
Alaska Gleye		p)							
Restrictive Layer	(if present):								
Type:	-							Hydric Soil Present?	? Yes ○ No •
Depth (inches	5):								
HYDROLOG	Y								
HYDROLOG Wetland Hydrol		tors:						Secondary Indic	cators (two or more are required)
HYDROLOG Wetland Hydrol Primary Indicator	logy Indica		t)						cators (two or more are required)
Wetland Hydrol	logy Indicars (any one i		t)	☐ Inundation \	/isible on Ae	rial Image	ry (B7)	Water Stair	
Wetland Hydrol Primary Indicator	logy Indicars (any one iter (A1)		t)	☐ Inundation \		_		Water Stair Drainage P	ned Leaves (B9)
Wetland Hydrol Primary Indicator Surface Wat High Water Saturation (A	logy Indica rs (any one i ter (A1) Table (A2) A3)		t)		jetated Cond	_		Water Stair Drainage P Oxidized Ri Presence of	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4)
Wetland Hydrol Primary Indicator Surface Wat High Water	logy Indica rs (any one i ter (A1) Table (A2) A3)		t)	Sparsely Veg	getated Cond s (B15)	cave Surfac		Water Stair Drainage P Oxidized Ri	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4)
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