WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	orough Sampling Date: 08-Aug-13		
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T203_06		
	gator(s): CTS, AMD	lside, terrac	ee, hummocks etc.): Flat				
	relief (concave, convex, none): flat		Slope:	% / 5.3			
	gion : Interior Alaska Mountains	l at ·	63.39653837		Long.: -148.587241888 Datum: NAD83		
		Lat	03.39033637	99	<u> </u>		
	ap Unit Name:			No ○	NWI classification: PSS1B		
Are \	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology , /egetation , Soil , or Hydrology , MARY OF FINDINGS - Attach site map sh	significantly naturally pr nowing sam	y disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No caded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No caded, explain any answers in Remarks.)		
	Hydrophytic Vegetation Present? Yes No		la.	the Com	mlad Araa		
	Hydric Soil Present? Yes ● No	\circ	Is the Sampled Area within a Wetland? Yes ● No ○				
	Wetland Hydrology Present? Yes No	0	W	itnin a w	etiand? Tes © NO C		
Rem VEGI	ETATION - Use scientific names of plants.	-		-	Dominance Test worksheet:		
Tro	e Stratum_	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
1.	Picea glauca	10	<u> </u>	FACU	That are OBL, FACW, or FAC:5(A)		
2.	Diese meriene		✓	FACW	Total Number of Dominant		
3.	Picea manana	$ \frac{10}{0}$		TACV	Species Across All Strata: 6 (B)		
4.		$ \frac{0}{0}$			Percent of dominant Species That Are OBL, FACW, or FAC: 83,3% (A/B)		
5.		$ \frac{0}{0}$					
	Total Cov				Prevalence Index worksheet: Total % Cover of: Multiply by:		
San	oling/Shrub Stratum 50% of Total Cover:		of Total Cover	: 4	001.0		
	· · · · · · · · · · · · · · · · · · ·						
1.	Picea glauca			FACU			
2.	Picea mariana	3		FACW			
3.	Salix richardsonii	35		FACW			
4.	Dasiphora fruticosa	8		FAC			
5.	Rhododendron groenlandicum			FAC	Column Totals: <u>216.1</u> (A) <u>591.4</u> (B)		
6.	Shepherdia canadensis		✓	FACU	Prevalence Index = B/A =		
7.	Salix reticulata Empetrum nigrum			FAC FAC			
0.	· · ·	$ \frac{8}{10}$		FAC	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%		
	Vaccinium uliginosum Vaccinium vitis-idaea	$-\frac{10}{2}$		FAC	✓ Prevalence Index is ≤ 3.0		
10.	Total Cov			TAC			
Hei	b Stratum 50% of Total Cover:		6 of Total Cove	r:25.8	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
1.	Rubus chamaemorus	20	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Equisetum arvense		✓	FAC	¹ Indicators of hydric soil and wetland hydrology must		
3.	Tofieldia pusilla			FAC	be present, unless disturbed or problematic.		
4.	Parnassia palustris	- 1		FACW	Plot size (radius or longth y width)		
5.	Tephroseris atropurpurea	-		FAC	Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes		
6.	Carex aquatilis	3		OBL	(Where applicable)		
7.	Neottia cordata			FACU	% Bare Ground		
8.					Total Cover of Bryophytes 80		
9.							
40					Hydrophytic		
10.		er: 67.1			Vegetation		
10.	Total Cov 50% of Total Cover:		-f T-+ 1 C	13.42	Present? Yes • No •		

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SOIL Sampling Point: SW13_T203_06

	ion: (Describe to	the depth ne Matrix	eded to docum	ent the inc		firm the ab		cators)		
Depth (inches)	Color (mo			Color (m		%	Type ¹	_Loc ²	Texture	Remarks
0-6			100				.,,,,		Hemic Organics	
6-13		3/1	80	7.5YR	4/6	20	C	PL	Silt Loam	
						-				
¹Type: C=Co	ncentration. D=	Depletion.	RM=Reduce	d Matrix	² Location	: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix	
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematic	C Hydric So	oils: ³		
Histosol o	r Histel (A1)			Alas	ka Color Ch	ange (TA	1)4		Alaska Gleyed Without Hu	ue 5Y or Redder
☐ Histic Epipedon (A2) ☐ Alaska Alpine swales (TA5)							Underlying Layer			
Hydrogen	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y F	lue	L	Other (Explain in Remark	s)
Thick Dar	k Surface (A12))		3 Ono is	adicator of	hydrophyd	ic voqotatio	n one prin	many indicator of watland h	udrology
	eyed (A13)						ne position i		mary indicator of wetland h esent	ydrology,
✓ Alaska Re	. ,			4 Give o	lotails of so	lor change	e in Remark			
☐ Alaska Gle	eyed Pores (A15	5)		· Give t	ietalis di Co	ioi change	e III Kellidir	· · · · · · · · · · · · · · · · · · ·		
Restrictive Lay	er (if present):									
Type: Acti	ive layer								Hydric Soil Present?	? Yes • No O
Depth (inc	hes): 13									
Remarks:										
HYDROLO	GY									
Wetland Hyd		tors:							Secondary Indic	cators (two or more are required)
=	ators (any one i		:)							ned Leaves (B9)
Surface V	Vater (A1)			☐ In	undation Vi	sible on A	erial Image	ry (B7)		atterns (B10)
	er Table (A2)						ncave Surfac		✓ Oxidized RI	nizospheres along Living Roots (C3)
✓ Saturatio	n (A3)				arl Deposits			` ,		f Reduced Iron (C4)
☐ Water Ma	irks (B1)			□ ну	drogen Sul	fide Odor	(C1)		Salt Deposi	ts (C5)
Sediment	Deposits (B2)			☐ Dr	y-Season W	ater Tabl	e (C2)		Stunted or	Stressed Plants (D1)
☐ Drift Dep	osits (B3)			Ot	her (Explair	n in Rema	rks)		Geomorphi	c Position (D2)
Algal Mat	or Crust (B4)								✓ Shallow Aq	uitard (D3)
Iron Depo	osits (B5)									raphic Relief (D4)
☐ Surface S	oil Cracks (B6)								✓ FAC-neutra	l Test (D5)
Field Observ			\ (a)							
Surface Wate	r Present?		No 💿	De	epth (inches	s):				
Water Table I	Present?	Yes C	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Present	t? Yes 💿 No 🔾
Saturation Pro (includes cap		Yes 💿	No O	De	epth (inches	s): 7				
			manitar wall	l sovial s	hataa muu	iaua inana	ation) if our	silable.		
Describe Recoi	rded Data (stre	am gauge,	monitor weil	, аепатр	notos, prev	ious inspe	ection) ir ava	aliable:		
Remarks:										
remanor										

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