WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project		Вс	orough/City:	Denali Bo	orough Sampling Date: 30-Jul-13					
Applica	ant/Owner: Alaska Energy Authority					Sampling Point: SW13_T147_04					
	igator(s): CTS, AMD		L	Landform (hillside, terrace, hummocks etc.): Flat							
	relief (concave, convex, none): concave			Slope:	% / 1.0						
	gion : Interior Alaska Mountains			· 33.375051670		Long.: -148.942 Datum: NAD83					
		_ '		3.373031670	/4						
	ap Unit Name:				<u> </u>	NWI classification: PSS1B					
	imatic/hydrologic conditions on the site typical for Vegetation \Box , Soil \Box , or Hydrology	_	•	Yes disturbed?	● No ○ Are "N	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○					
Are \	Vegetation . Soil . , or Hydrology	_	,	blematic?		eded, explain any answers in Remarks.)					
					·	, ,					
SUM	MARY OF FINDINGS - Attach site map		g sam	pling point	locations	s, transects, important features, etc.					
	,	No O		la.	the Com	and Area					
	Hydric Soil Present? Yes ●	No O		Is the Sampled Area within a Wetland? Yes ● No ○							
	Wetland Hydrology Present? Yes	No O		WI	tnin a w	retiand? Tes © NO C					
Rem	arks:										
/ECI	ETATION				1.						
/EGI	ETATION -Use scientific names of plant	ts. List a	ii sped	cies in the	piot.	Dominance Test worksheet:					
_			olute Cover	Dominant		Number of Dominant Species					
1re 1.	ee Stratum Picea mariana	_ 90 1	10	Species?	Status FACW	That are OBL, FACW, or FAC: (A)					
2.	Ficea manana				TACW	Total Number of Dominant					
3.						Species Across All Strata: 6 (B)					
3. 4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)					
5.			0			That Ale OBE, I AGW, SI I AG (AB)					
J.	Total (Cover	10			Prevalence Index worksheet:					
621		_		of Total Cover:	2	Total % Cover of: Multiply by:					
Sap	pling/Shrub Stratum 50% of Total Cover	5	_ 2070 (or rotal cover.		OBL Species <u>1.1</u> x 1 = <u>1.1</u>					
1.	Salix pulchra		8		FACW	FACW Species 30.2 x 2 = 60.40					
2.	Betula nana			✓	FAC	FACUS paging 2.4 x 3 = 138					
3.	Vaccinium uliginosum			✓	FAC	FACU Species <u>0.1</u> x 4 = <u>0.400</u> UPL Species 0 x 5 = 0					
4.	Rhododendron tomentosum				FACW						
5.	Empetrum nigrum				FAC	Column Totals: <u>77.4</u> (A) <u>199.9</u> (B)					
6.	Vaccinium vitis-idaea				FAC	Prevalence Index = B/A = 2.583					
7.											
8.						Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%					
9.			0								
10.	Total (✓ Prevalence Index is ≤3.0					
Hei	rb Stratum 50% of Total Cove	_	_ <u>57</u> 20%	of Total Cover	:11.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)					
1.	Carex bigelowii		5	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)					
2.	Eriophorum angustifolium		1		OBL	¹ Indicators of hydric soil and wetland hydrology must					
3.	Eriophorum russeolum		0.1		FACW	be present, unless disturbed or problematic.					
4.	Rubus chamaemorus		2	✓	FACW	Plot size (radius or longth y width)					
5.	Eriophorum vaginatum		2	✓	FACW	Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes					
6.	Bistorta plumosa		0.1		FACU	(Where applicable)					
7.	Pedicularis labradorica		0.1		FACW	% Bare Ground					
	Carex tenuiflora		0.1		OBL	Total Cover of Bryophytes					
8.			0								
				10							
9.											
9.		Cover:	10.4	[2.08	Hydrophytic Vegetation Present? Yes No					

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SOIL Sampling Point: SW13_T147_04

		the depth nee	eded to docume	ent the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-11			100		·			Fibric Organics			
11-16	5Y	4/1	100					Silty Clay Loam			
	-							-			
			— –								
¹Type: C=Co	oncentration. D=	-Depletion.		d Matrix ² Location		_		nnel. M=Matrix			
Hydric Soil I	Indicators:			Indicators for Pr	roblematic	c Hydric Sc	oils: ³				
Histosol o	or Histel (A1)			Alaska Color C	hange (TA	4)		Alaska Gleyed Without Hue 5Y or Redder			
✓ Histic Epip	pedon (A2)			Alaska Alpine swales (TA5) Underlying Layer							
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y H	lue		Other (Explain in Remark	s)		
Thick Dar	k Surface (A12))									
	eyed (A13)			³ One indicator of and an appropriate				nary indicator of wetland h	ydrology,		
	edox (A14)					•		esen			
	eyed Pores (A1	5)		⁴ Give details of o	olor change	e in Remark	is .				
Restrictive Lay	er (if present):										
Type: Acti	•							Hydric Soil Present	? Yes ● No O		
Depth (inc	thes): 16										
HYDROLO											
Wetland Hyd	Irology Indica	tors:						Secondary Indic	cators (two or more are required)		
Primary Indica	ators (any one i	s sufficient)	<u> </u>					Water Stair	ned Leaves (B9)		
	Water (A1)			Inundation V	/isible on A	erial Imager	ry (B7)	☐ Drainage P	atterns (B10)		
	ter Table (A2)			Sparsely Veg	jetated Cor	ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
✓ Saturatio	. ,			Marl Deposit	s (B15)				f Reduced Iron (C4)		
Water Ma				Hydrogen Su				Salt Deposi			
	t Deposits (B2)			Dry-Season \					Stressed Plants (D1)		
	osits (B3)			Other (Expla	in in Rema	rks)		✓ Geomorphi			
	t or Crust (B4)							✓ Shallow Aq			
Iron Depo	` ,							_	raphic Relief (D4)		
	Soil Cracks (B6)						I	✓ FAC-neutra	Test (D5)		
Field Observ			🕟								
Surface Wate	er Present?		No 💿	Depth (inche	es):						
Water Table I	Present?	Yes 🕑	No 🔾	Depth (inche	es): 6		Wetla	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pro (includes cap		Yes	No \bigcirc	Depth (inche	es): 3						
Describe Reco	rded Data (stre	am gauge,	monitor well,	, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											
V. small scatte	ered patches of	permanent	open water i	in hummock depres	ssions						

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