WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site:	Susitna-Watana Hydroelectric Project		Boro	ugh/City:	Denali Bo	rough Sampling Date: 03-Aug-13		
Applicant/O	wner: Alaska Energy Authority					Sampling Point: SW13_T194_04		
nvestigator	3, 11 1,		Lar	ndform (hill	side, terrac	e, hummocks etc.): Knob		
•	(concave, convex, none): convex		— Slo	pe:	% / 0.4	P		
	Interior Alaska Mountains		— t : 63 '	352571010		Long.: -148.338024735 Datum: NAD83		
_		La	05	33237 1010				
Soil Map Un					No ○	NWI classification: Upland		
Are Vegeta	ation . Soil . or Hydrology .	signific natural	antly dis	sturbed? ematic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.		
	ophytic Vegetation Present? Yes No N		Is the Sampled Area					
	and Hydrology Present? Yes O No	ledow		wi	thin a W	etland? Yes ○ No ⊙		
Remarks:	FION - Use scientific names of plants.	List all	specie	es in the	plot.			
		Absol	ute [Oominant	Indicator	Dominance Test worksheet:		
Tree Stra	ntum	% Co		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
1			0			Total Number of Dominant		
2			0			Species Across All Strata:5(B)		
3. 4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)		
5.			0			Prevalence Index worksheet:		
	Total Cov	er:	0			Total % Cover of: Multiply by:		
Sapling/	Shrub Stratum 50% of Total Cover:	0	20% of T	Total Cover:	0	OBL Species0 x 1 =0		
1 Arcf	ous alpinus		35	✓	FACU	FACW Species 10 x 2 = 20		
-	cinium uliginosum		10		FAC	FAC Species 69.1 x 3 = 207.3		
-	petrum nigrum		25	✓	FAC	FACU Species 40 x 4 = 160		
4. Vac	cinium vitis-idaea		7		FAC	UPL Species 0 x 5 = 0		
5. Beti	ula glandulosa		25	✓	FAC	Column Totals: _119.1 (A) _387.3 (B)		
6. Rho	dodendron tomentosum		10		FACW			
7.			0			Prevalence Index = B/A = 3.252		
8			0			Hydrophytic Vegetation Indicators:		
9			0			✓ Dominance Test is > 50%		
10			0			Prevalence Index is ≤3.0		
Herb Str	Total Cov atum 50% of Total Cover:	_	12 20% of	Total Cover	22.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1. Ant	noxanthum monticola ssp. alpinum		5	✓	UPL	Problematic Hydrophytic Vegetation (Explain)		
	amagrostis canadensis		0.1		FAC	¹ Indicators of hydric soil and wetland hydrology must		
3. Car	ex bigelowii		2	V	FAC	be present, unless disturbed or problematic.		
			0			Plot size (radius, or length x width) 10m		
5			0			% Cover of Wetland Bryophytes		
			0			(Where applicable)		
			0			% Bare Ground		
			0			Total Cover of Bryophytes		
			0					
10	Total Cov	 er: 7	_			Hydrophytic Vegetation		
						Present? Yes • No •		
	50% of Total Cover:	_3.55	20% Of 1	i otai Cover:	1.42	Present res of No of		

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SOIL Sampling Point: SW13_T194_04

Profile Description	on: (Describe to	the depth ne	eded to docum	nent the inc		firm the abs		ators)				
(inches)	Color (mo	ist)	%	Color (n	noist)	%	Type ¹	Loc 2	Texture	Remarks		
0-3	7.5YR	2.5/2	100						Hemic Organics			
3-5	7.5YR	5/2	100						Very Fine Sandy Loam	-		
5-10	2.5Y	4/1	60	2.5YR	4/6	30		М	Fine Sandy Loam	also 100/. 2 EVP 4/4 matrix concentrating		
3-10	2.31	-4/1		2.51K	4/0			141	Tine Sandy Loan	also 10% 2.5YR 4/4 matrix concentratins		
¹Type: C=Con	centration. D=	-Depletion	RM=Reduce						annel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicat	ors for Pro	blematic	Hydric So	oils: ³				
Histosol or	Histel (A1)			Alas	ka Color Ch	ange (TA4	ł) ⁴		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alas	ka Alpine sv	vales (TA5	5)	_	Underlying Layer	, ,		
Hydrogen	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y F	lue		Other (Explain in Remar	ks)		
☐ Thick Dark	Surface (A12))		2								
Alaska Gle	yed (A13)			one ii	ndicator of I appropriate	nydrophyt • landscan	ic vegetation ne position n	n, one prir nust be pr	mary indicator of wetland hesent	nydrology,		
Alaska Red	ox (A14)					•		·	Cocine			
Alaska Gle	yed Pores (A15	5)		4 Give o	letails of co	lor change	e in Remark	s				
Restrictive Laye	r (if present):											
Type:									Hydric Soil Present	? Yes O No 🖲		
Depth (inch	es):											
HYDROLO												
Wetland Hydr	ology Indica	tors:							Secondary Indi	cators (two or more are required)		
Primary Indicat	ors (any one i	s sufficient	:)						Water Stai	ined Leaves (B9)		
Surface W				∐ In	undation Vi	sible on A	erial Imager	y (B7)	_	Patterns (B10)		
	r Table (A2)			☐ Sp	arsely Vege	tated Con	cave Surfac	e (B8)		thizospheres along Living Roots (C3)		
Saturation	` '			∐ Ma	arl Deposits	(B15)				of Reduced Iron (C4)		
Water Mar					drogen Sul				☐ Salt Depos			
	Deposits (B2)				y-Season W		. ,			Stressed Plants (D1)		
Drift Depo				∐ Ot	her (Explair	in Rema	rks)			ic Position (D2)		
	or Crust (B4)									quitard (D3)		
☐ Iron Depo	. ,								_	graphic Relief (D4)		
	oil Cracks (B6)							1	☐ FAC-neutra	al Test (D5)		
Field Observa		V (No •	_								
Surface Water				De	epth (inches	5):						
Water Table P	resent?	Yes 🤇	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Presen	it? Yes O No 🖲		
Saturation Pre (includes capil		Yes C	No 💿	De	epth (inches	s):						
Describe Record	ded Data (stre	am gauge,	monitor wel	l, aerial p	hotos, prev	ious inspe	ction) if ava	ilable:				
Domarko:												
Remarks:	rology indicate	orc										
no wetland hydrology indicators												

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