WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project		Во	rough/City:	Denali Bo	orough Sampling Date: 01-Aug-13				
Applica	ant/Owner: Alaska Energy Authority	-	Sampling Point: SW13_T145_07							
	gator(s): SLI, EAC	side, terrac	ce, hummocks etc.): Hillside							
	relief (concave, convex, none): hummocky			Slope:		3 ° Elevation: 731				
	gion : Interior Alaska Mountains	l a								
		La	<u>0</u>	3.400904017	<u> </u>					
	p Unit Name:				No ○	NWI classification: PSS1B				
Are \	matic/hydrologic conditions on the site typical for thi regetation , Soil , or Hydrology regetation , Soil , or Hydrology . MARY OF FINDINGS - Attach site map si	signific natural	antly lly pro	disturbed? blematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)				
	,	\circ		lo	the Com	upled Area				
	Hydric Soil Present? Yes ● No	\circ		Is the Sampled Area within a Wetland? Yes ● No ○						
	Wetland Hydrology Present? Yes No	\circ		WI	within a Wetland? Yes ● No ○					
VEGE	ETATION -Use scientific names of plants				•	Dominance Test worksheet:				
Tre	e Stratum	Abso % Co		Dominant Species?	Indicator Status	Number of Dominant Species				
1.	Picea glauca	-	7		FACU	That are OBL, FACW, or FAC: 6 (A)				
2.	Picea mariana		5	✓	FACW	Total Number of Dominant Species Across All Strata: 7 (B)				
3.			0			Percent of dominant Species				
4.			0			That Are OBL, FACW, or FAC: 85.7% (A/B)				
5.			0			Prevalence Index worksheet:				
	Total Co	ver:	12			Total % Cover of: Multiply by:				
Sap	ling/Shrub Stratum 50% of Total Cover:	6	20% c	of Total Cover:	2.4	OBL Species 0 x 1 = 0				
1.	Picea mariana		10	✓	FACW	FACW Species 30 x 2 = 60				
2.	Picea glauca		5		FACU	FAC Species 45 x 3 = 135				
3.	Salix pulchra		7	✓	FACW	FACU Species 12 x 4 = 48				
4.	Salix reticulata		2		FAC	UPL Species 0 x 5 = 0				
5.	Vaccinium uliginosum		5		FAC	Column Totals: <u>87</u> (A) <u>243</u> (B)				
6.	Salix richardsonii		5		FACW					
7.	Rhododendron tomentosum		2		FACW	Prevalence Index = B/A = 2.793				
8.	Rhododendron groenlandicum		3		FAC	Hydrophytic Vegetation Indicators:				
9.	Arctous ruber		10	✓	FAC	✓ Dominance Test is > 50%				
10.	Empetrum nigrum		3		FAC	✓ Prevalence Index is ≤3.0				
Her	Total Cov b Stratum 50% of Total Cover:		5 <u>2</u> 20%	of Total Cover	:10.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
1.	Petasites frigidus		1		FACW	Problematic Hydrophytic Vegetation (Explain)				
2.	Equisetum arvense		2		FAC	¹ Indicators of hydric soil and wetland hydrology must				
3.	Calamagrostis canadensis		5	✓	FAC	be present, unless disturbed or problematic.				
4.	Carex bigelowii		15	~	FAC	Plot size (radius, or length x width)				
5.			0			% Cover of Wetland Bryophytes				
			0			(Where applicable)				
			0			% Bare Ground				
			0			Total Cover of Bryophytes 90				
			0							
10	Total Co		U			Hydrophytic				
10.		ver: 2	23			Vegetation				
10.	50% of Total Cover:		20% c	of Total Cover	4.6	Present? Yes • No O				

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SOIL Sampling Point: SW13 T145 07

JOIL									Samping	Point: 3W13_1145_07		
Profile Descripti	ion: (Describe to		eeded to docu	ment the inc				ators)				
Depth	Matrix			Redox Fea		ox Featu			-			
(inches)	Color (moist)		<u>%</u>	Color (n	noist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6	7.5YR	2.5/1	100						Fibric Organics			
6-12	5YR	2.5/1	100						Hemic Organics			
12-15	10G	4/1	75	10R	4/6	25	С	PL	Silty Clay			
					- — —				*			
						-			-			
¹Type: C=Cor	ncentration. D	=Depletion	. RM=Reduc				_		nnel. M=Matrix			
Hydric Soil I	ndicators:				ors for Pro		4	oils: ³	_			
Histosol or	r Histel (A1)				ka Color Cha		-		Alaska Gleyed Without Hu	e 5Y or Redder		
Histic Epip	edon (A2)				ka Alpine sw		-		Underlying Layer			
	Sulfide (A4)			☐ Alas	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remarks	5)		
	Surface (A12)		3 One i	ndicator of h	ovdronhyt	ic vegetatio	n one nrim	nary indicator of wetland hy	rdrology		
Alaska Gle					appropriate					alology,		
✓ Alaska Red		- \		4 Give	details of col	or change	e in Remark	S				
☐ Alaska Gle	yed Pores (A1	5)						_				
Restrictive Laye	er (if present):											
	clay, active la	yer							Hydric Soil Present?	Yes No		
Depth (inch	nes): 12, 15											
Remarks:												
Saturation at 10	0 inches.											
HYDROLO	GY											
Wetland Hyd	rology Indica	itors:							Secondary Indica	ators (two or more are required)		
Primary Indica	tors (any one	is sufficien	t)						Water Stain	ed Leaves (B9)		
Surface W	/ater (A1)			☐ In	undation Vis	sible on A	erial Imagei	ry (B7)	Drainage Pa	atterns (B10)		
	er Table (A2)			☐ Sp	arsely Vege	tated Con	cave Surfac	ce (B8)	Oxidized Rh	izospheres along Living Roots (C3)		
✓ Saturation	n (A3)			Ma	arl Deposits	(B15)			Presence of Reduced Iron (C4)			
Water Ma					drogen Sulf				Salt Deposit	• •		
	Deposits (B2)			U Dr	y-Season W	ater Table	e (C2)			Stressed Plants (D1)		
☐ Drift Depo				☐ Ot	ther (Explain	in Remai	rks)			Position (D2)		
	or Crust (B4)								✓ Shallow Aqu			
Iron Depo										raphic Relief (D4)		
	oil Cracks (B6)							1	✓ FAC-neutral	Test (D5)		
Field Observa		,, (
Surface Water	r Present?		No •	De	epth (inches):						
Water Table P	Present?	Yes 🧐	No O	De	epth (inches): 15		Wetlar	nd Hydrology Present	? Yes 🏵 No 🔾		
Saturation Pre (includes capi		Yes 🤄	No O	D _f	epth (inches): 10						
Describe Recor		am dalide	monitor we	ell aerial r	hotos previ	nus insne	ction) if ava	ailable:				
Describe Recor	ueu Data (Sire	arri gauge	, informed we	ii, aciiai p	notos, previ	ous mspe	cuon) ii ava	iliable.				
Remarks:												
remarks.												

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