WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	prough Sampling Date: 05-Aug-13		
Applica	nt/Owner: Alaska Energy Authority		Sampling Point: SW13_T201_0				
nvestig	pator(s): SLI, EAC	I	_andform (hill	side, terrac	ce, hummocks etc.): Abandoned Beaver Complex		
Local r	elief (concave, convex, none): hummocky		Slope: 0.0 % / 0.0 ° Elevation: 686				
	ion : Interior Alaska Mountains	lat: 6	3.36283540		Long.: -148.945580959 Datum: WGS84		
	p Unit Name:		0.00200040	<u>'</u>			
			. Voo	● No ○	NWI classification: PEM1Bb		
Are V	egetation , Soil , or Hydrology , or Hydrology , and a show	significantly naturally pro wing sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes No		le	the Sam	inled Area		
	Hydric Soil Present? Yes No C		Is the Sampled Area within a Wetland? Yes ● No ○				
	Wetland Hydrology Present? Yes 🍑 No 🖯)	W	illilli a vv	etiality: 165 % NO %		
	Abandoned beaver complex - series of dams, lo (several no longer in standing water, one in this	saturated	community)		nds. Dams broken and overgrown, lodges abandoned		
		Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree	Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)		
1.		0			That are OBL, FACW, or FAC:4 (A) Total Number of Dominant		
2.		0			Species Across All Strata: 4 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.					Prevalence Index worksheet:		
	Total Cover				Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species <u>5</u> x 1 = <u>5</u>		
1.	Betula glandulosa	_15_	✓	FAC	FACW Species 20 x 2 = 40		
2.	Salix pulchra	5	✓	FACW	FAC Species <u>46.1</u> x 3 = <u>138.3</u>		
3.	Spiraea stevenii	1		FACU	FACU Species 1.1 x 4 = 4.400		
4.	Picea glauca			FACU	UPL Species <u>0</u> x 5 = <u>0</u>		
5.					Column Totals: <u>72.2</u> (A) <u>187.7</u> (B)		
6.					Prevalence Index = B/A =2.600_		
7.							
8.					Hydrophytic Vegetation Indicators:		
					✓ Dominance Test is > 50%		
10.	Total Cover				 ✓ Prevalence Index is ≤3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in 		
Herl	50% of Total Cover:		of Total Cove	: 4.22	Remarks or on a separate sheet)		
1.	Rubus arcticus ssp. acaulis	5		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Carex aquatilis	5		OBL	¹ Indicators of hydric soil and wetland hydrology must		
3.	Calamagrostis canadensis	20	_	FAC	be present, unless disturbed or problematic.		
4.	Polemonium acutiflorum	1		FAC	Plot size (radius, or length x width)		
5.	Equisetum arvense	5		FAC	% Cover of Wetland Bryophytes		
6.	Rumex arcticus	0.1		FACIA	(Where applicable)		
7.	Arctagrostis latifolia			FACW	% Bare Ground		
					Total Cover of Bryophytes		
10.							
			of Total Cover	10.22	Present? Yes No		
Pom							
10.	Total Cover: 50% of Total Cover: 2 arks: many dead, beaver-chewed shrub limbs	<u>0</u> 51.1	of Total Cover	10.22	Hydrophytic Vegetation Present? Yes No		

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SOIL Sampling Point: SW13_T201_07

JOIL									Sampling	Point: 3W13_12U1_U/		
	on: (Describe to	the depth n	eeded to doc	ument the inc		firm the abs		cators)				
Depth (inches)				Color (moist)		1		Loc ²	Texture	Remarks		
0-2	Color (mo 5YR	2.5/2	<u>%</u> 100	Color (II	ioist)	<u>%</u>	туре	LOC	Fibric Organics	Kemarks		
	5GY		70	2 EVD		30			Hemic Organics			
2-7		4/1		2.5YR	4/6			PL PL				
7-12	N	4/1	85	5YR	5/6	15	C	PL	Clay Loam			
								-				
¹Type: C=Cor	ncentration. D=	Depletion	. RM=Redu	ced Matrix	² Location:	PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematic	Hydric So	oils: ³				
	Histel (A1)				ka Color Cha		4		Alaska Gleyed Without Hu	ie 5Y or Redder		
Histic Epip	` ,			☐ Alas	ka Alpine sv	vales (TA5	5)		Underlying Layer			
	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remarks	5)		
☐ Thick Dark	Surface (A12))		• • •								
Alaska Gle	yed (A13)				ndicator of f appropriate				nary indicator of wetland hy esent	/drology,		
✓ Alaska Red	` ,						•					
Alaska Gle	yed Pores (A15	5)		4 Give (details of co	or change	e in Remark	(S				
Restrictive Laye	er (if present):											
Type: clay	loam								Hydric Soil Present?	Yes No		
Depth (inch									•			
Remarks:												
remano												
HYDROLO	GY											
Wetland Hydi		tors:							Secondary Indic	ators (two or more are required)		
Primary Indica			t)							ned Leaves (B9)		
Surface W			<u>., </u>	☐ In	undation Vis	sible on Ae	erial Image	rv (B7)		atterns (B10)		
	er Table (A2)						_		Oxidized Rhizospheres along Living Roots (C3)			
	✓ High Water Table (A2) ☐ Sparsely Vegetated Concave Surface (B8) ✓ Saturation (A3) ☐ Marl Deposits (B15)							00 (20)	Presence of Reduced Iron (C4)			
☐ Water Mai	rks (B1)				drogen Sulf	. ,	(C1)		Salt Deposits (C5)			
	Deposits (B2)				-				Stunted or Stressed Plants (D1)			
☐ Drift Depo	☐ Sediment Deposits (B2) ☐ Dry-Season Water Table (C2) ☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)								Geomorphic Position (D2)			
Algal Mat	or Crust (B4)				` '		,		✓ Shallow Aqu	uitard (D3)		
☐ Iron Depo	Iron Deposits (B5)									raphic Relief (D4)		
Surface So	oil Cracks (B6)								✓ FAC-neutral			
Field Observa	itions:											
Surface Water	Present?	Yes 🤇	No 💿	De	epth (inches):						
Water Table P	resent?	Yes 🤄	No O	De	epth (inches): 8		Wetla	nd Hydrology Present	t? Yes No		
Saturation Pre	esent?	Voc (No O			•						
(includes capil	llary fringe)	res 🤄	NO C	De	epth (inches): 4						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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