WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Aug-12
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW12_T38_01
Investi	gator(s): SLI, KMK		Landform (hi	illside, terrac	e, hummocks etc.): Bench
	elief (concave, convex, none): flat		Slope:	% / 3.4	
	ion : Southcentral Alaska	Lat.:	62.83937165	 509	Long.: -149.526734035 Datum: NAD83
-	p Unit Name:		02.00007 100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NWI classification: PSS3/4B
	natic/hydrologic conditions on the site typical for this ti	ma of vo	or? Ves	s • No O	(If no, explain in Remarks.)
		•	itly disturbed?		Iormal Circumstances" present? Yes No
		Ū	problematic?		eded, explain any answers in Remarks.)
	, , , ,	•		`	
SUM	MARY OF FINDINGS - Attach site map show		mpling poin	t locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No C		le	the Sam	pled Area
	Hydric Soil Present? Yes No C			ithin a W	
	Wetland Hydrology Present? Yes No C		l l		Citaria i
Rema					shallow water zone (outside plot) with caraqu, compal, ground, but beaver dam has created flooded wetland.
	enang, menan, carmag, caruar, carsax. aenar prio	to snows	pond to be ru	in or barren	ground, but beaver dam has created hooded wetland.
VEGE	TATION - Use scientific names of plants. Li	st all sp	ecies in the	plot.	
		Absolut		Indicator	Dominance Test worksheet:
	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
1.		0			Total Number of Dominant
2.					Species Across All Strata: 4 (B)
3.			- =		Percent of dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)
4. 5.		0	-		That Are OBL, FACW, or FAC: 75.0% (A/B)
J.	Total Cover	. <u> </u>			Prevalence Index worksheet:
Can			– % of Total Cove	r: o	Total % Cover of: Multiply by:
Зар	ling/Shrub Stratum 50% of Total Cover:		_	r: <u>0</u>	OBL Species 19 x 1 = 19
1.	Empetrum nigrum	15		FAC	FACW Species 6 x 2 = 12
2.	Picea glauca			FACU	FACUS paging 7 x 4 7 22
3.	Betula nana			FAC	FACU Species 7 x 4 = 28 UPL Species 0 x 5 = 0
4.	Rhododendron tomentosum	2		FACW FAC	
5. 6.	Vaccinium uliginosum			OBL	Column Totals: <u>54</u> (A) <u>125</u> (B)
	Vaccinium oxycoccos Andromeda polifolia	1		FACW	Prevalence Index = B/A =
8.			-	TACW	Hydrophytic Vegetation Indicators:
		0			✓ Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
	Total Cover	- 34			☐ Morphological Adaptations ¹ (Provide supporting data in
Her	b Stratum 50% of Total Cover:	17 20	0% of Total Cove	er: <u>6.8</u>	Remarks or on a separate sheet)
1.	Carex pauciflora	_10	_	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Carex aquatilis		_	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Rubus chamaemorus		_	FACW	be present, unless disturbed or problematic.
4.	Eriophorum angustifolium	2	_	OBL	Plot size (radius, or length x width) 10m
5.	Equisetum pratense		-	FACW	% Cover of Wetland Bryophytes
			-		(Where applicable)
			-		% Bare Ground
			-		Total Cover of Bryophytes95
		0	- 📙		
10.	Total Cover:				Hydrophytic Vegetation
	50% of Total Cover:	-		r:4	Present? Yes • No O
Dom					
IXCIII	arks: trace pedcap.				

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SOIL Sampling Point: SW12_T38_01

Double	tne deptn nee Matrix	aea to aocumer	nt the indicator or co Re	nfirm the abse		ators)		
Depth (inches) Color (mo	ist)	% (Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4							Fibric Organics	
4-10							Hemic Organics	
10-20							Sapric Organics	
								-
¹ Type: C=Concentration. D=	Depletion. F	RM=Reduced	Matrix ² Location	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Indicators:		I	ndicators for Pi	oblematic	Hydric So	oils:		
✓ Histosol or Histel (A1)			Alaska Color C	hange (TA4)	4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine s	swales (TA5))		Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox \	Nith 2.5Y Hu	ıe		Other (Explain in Remark	rs)
Thick Dark Surface (A12))		3 0 : 4: +					
Alaska Gleyed (A13)			one indicator of and an appropria				nary indicator of wetland h esent	yarology,
Alaska Redox (A14)					•	-		
Alaska Gleyed Pores (A1	5)		⁴ Give details of c	olor change	III Kelliai k	.5		
Restrictive Layer (if present):								
Type:							Hydric Soil Present	? Yes • No O
Depth (inches):								
HYDROLOGY								
Wetland Hydrology Indica	tors:						_Secondary Indi	cators (two or more are required)
Primary Indicators (any one								cators (two or more are required)_ ned Leaves (B9)
Primary Indicators (any one Surface Water (A1)			☐ Inundation V				Water Stai Drainage F	ned Leaves (B9) latterns (B10)
Primary Indicators (any one Surface Water (A1) High Water Table (A2)			Sparsely Veg	etated Conc			Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3)			Sparsely Veg Marl Deposit	etated Conc s (B15)	ave Surfac		Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) f Reduced Iron (C4)
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