WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-12
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T52_01
	igator(s): CTS, EKJ		Landform (hills	side, terrac	ee, hummocks etc.): Flat
	relief (concave, convex, none): flat		Slope:		B ° Elevation: 707
	gion : Interior Alaska Mountains	l at ·	 62.795968146		Long.: -148.539345731 Datum: NAD83
		Lat	02.793908140	4	
	ap Unit Name:			No ○	NWI classification: PEM1H
	imatic/hydrologic conditions on the site typical for this	-			(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○
	Vegetation ☐ , Soil ☐ , or Hydrology ☐	•	tly disturbed?		p
Are \	Vegetation ☐ , Soil ☐ , or Hydrology ☐	naturally p	problematic?	(If nee	eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sho	owing sa	mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No	$\overline{\mathbb{C}}$			
	Hydric Soil Present? Yes No	\supset			pled Area
	Wetland Hydrology Present? Yes ● No (\supset	wi	thin a W	etland? Yes ◉ No ○
Rem	arks:				
VEGI	ETATION - Use scientific names of plants. I	list all sn	ecies in the I	nlot	
	232 Scientific harmes of plants.				Dominance Test worksheet:
Tre	ee Stratum	Absolute % Cove		Indicator Status	Number of Dominant Species
1.		0			That are OBL, FACW, or FAC: (A)
2.					Total Number of Dominant Species Across All Strata: 2 (B)
3.		_	_		Percent of dominant Species
4.		0	_		That Are OBL, FACW, or FAC: 100.0% (A/B)
5.		0	_		Prevalence Index worksheet:
	Total Cove	er: <u>0</u>	_		Total % Cover of: Multiply by:
Sap	pling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species 53.7 x 1 = 53.7
1	Betula nana	1		FAC	FACW Species 0 x 2 = 0
2.	Murica gale			OBL	FAC Species 1 x 3 = 3
3.	Andromodo nolifolio (IAM)			OBL	FACU Species 0 x 4 = 0
4.				OBL	UPL Species 0 x 5 = 0
5.					Column Totals: <u>54.7</u> (A) <u>56.70</u> (B)
6.			_		
7.		•	_		Prevalence Index = B/A =1.036_
8.			_		Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
	Total Cove				☐ Morphological Adaptations ¹ (Provide supporting data in
Hei	rb Stratum 50% of Total Cover:	1.1 20	0% of Total Cover:	: 0.44	Remarks or on a separate sheet)
1.	Carex livida	25		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Menyanthes trifoliata	15	_	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex magellanica		_	OBL	be present, unless disturbed or problematic.
4.	Trichophorum caespitosum	2		OBL	Plot size (radius, or length x width)
5.	Carex rotundata	0.1		OBL	% Cover of Wetland Bryophytes 20
6.	Carex chordorrhiza	0.1		OBL	(Where applicable)
7.				OBL	% Bare Ground
8.	Spiranthes romanzoffiana	$-\frac{0.1}{0.1}$		OBL	Total Cover of Bryophytes
9.	Carex tenuiflora	$-\frac{0.1}{0.1}$		OBL	
10.	Carex aquatilis Total Cove		_	OBL	Hydrophytic
		er: 52.6	_		Vegetation
		-	% of Total Cover:	10.52	Present? Yes No

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Depth (inches) Color (moi	st) (%	Color (moist)	<u>%</u>	Type ¹	<u>Loc</u> 2	Texture	Remarks
							-	
								-
		— –		_				•
				-				
				-				
Type: C=Concentration. D=	——————————————————————————————————————	—— — M=Reduce	ed Matrix ² Locatio	n: PL=Pore	Lining. RC	=Root Char	nnel. M=Matrix	-
ydric Soil Indicators:	<u> </u>		Indicators for P		_			
Histosol or Histel (A1)			Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)			Alaska Alpine		-	_	Underlying Layer	
Hydrogen Sulfide (A4)			Alaska Redox	With 2.5Y H	lue		Other (Explain in Remark	rs)
Thick Dark Surface (A12)			30					
Alaska Gleyed (A13)			and an appropria				lary indicator of wetland h sent	lydrology,
Alaska Redox (A14)			4 Give details of c		•	•		
Alaska Gleyed Pores (A15)		- Give details of c	olor change	: III Kelliai k			
strictive Layer (if present):								
Type:							Hydric Soil Present	? Yes ● No O
Depth (inches): emarks: anding water permanent, as:	sume histic e	pipedon						
emarks: anding water permanent, as:	sume histic e	pipedon						
emarks: anding water permanent, as:		pipedon					Secondary Indi	cators (two or more are required)
marks: anding water permanent, ass /DROLOGY etland Hydrology Indicate	ors:	epipedon						cators (two or more are required) ned Leaves (B9)
/DROLOGY etland Hydrology Indicationary Indicators (any one is	ors:	epipedon	☐ Inundation \	/isible on Ae	erial Image	ry (B7)	Water Stai	
**DROLOGY etland Hydrology Indicate imary Indicators (any one is Surface Water (A1)	ors:	pipedon	☐ Inundation \				Water Stai Drainage F	ned Leaves (B9)
TOROLOGY CDROLOGY** Torontomic and the permanent, assument,	ors:	epipedon		etated Con			Water Stai Drainage F Oxidized R	ned Leaves (B9) Patterns (B10)
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Marks: Inding water permanent, assumed in the permanent in the permanent, assumed in the permanent, assumed in the permanent, assumed in the permanent in th	ors:	pipedon	Sparsely Veg Marl Deposit Hydrogen Su Dry-Season	getated Con s (B15) ulfide Odor (Water Table	cave Surfac (C1) e (C2)		Water Stai Drainage F Oxidized R Presence o Salt Depos Stunted or	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3 of Reduced Iron (C4) its (C5) Stressed Plants (D1)
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