WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 07-Aug-12		
Applic	ant/Owner: Alaska Energy Authority			-	Sampling Point: SW12_T36_05		
	igator(s): SLI, KMK		Landform (hills	side, terrac	e, hummocks etc.): Terrace		
	relief (concave, convex, none): flat		_	% / 1.5			
	gion : Southcentral Alaska	L at :	- 62.7784816678		Long.: -149.648024085 Datum: NAD83		
		Lat	02.7704010070	0			
	ap Unit Name:			<u> </u>	NWI classification: PEM1/SS1E		
	imatic/hydrologic conditions on the site typical for this t Vegetation \Box , Soil \Box , or Hydrology \Box	•		● No ○	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○		
		-	itly disturbed?		omiai oli odmotanoso procont.		
			problematic?	·	ded, explain any answers in Remarks.)		
SUM	MARY OF FINDINGS - Attach site map sho	wing sa	mpling point !	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes No	\supset	_				
	Hydric Soil Present? Yes No		ne Sampled Area				
	Wetland Hydrology Present? Yes No	\supset	wit	thin a W	etland? Yes • No 🔾		
Rem	narks: reticulated fen						
VEG	ETATION - Use scientific names of plants. L	ist all sc	ecies in the r	olot.			
		Absolute		Indicator	Dominance Test worksheet:		
Tre	ee Stratum_	% Cove		Status	Number of Dominant Species		
1.		0			That are OBL, FACW, or FAC:3(A)		
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)		
3.		0			Percent of dominant Species		
4.		0			That Are OBL, FACW, or FAC:		
5.		0			Prevalence Index worksheet:		
	Total Cover	r: <u> </u>	_		Total % Cover of: Multiply by:		
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species65 x 1 =65		
1.	Myrica gale	15	✓	OBL	FACW Species 1 x 2 = 2		
2.	Betula nana	2		FAC	FAC Species <u>2</u> x 3 = <u>6</u>		
3.	Vaccinium oxycoccos	2		OBL	FACU Species 0 x 4 = 0		
4.	Andromeda polifolia	1	_	FACW	UPL Species <u>0</u> x 5 = <u>0</u>		
5.		0			Column Totals:68 (A)73 (B)		
6.		0	_ 🖳		Prevalence Index = B/A = 1.074		
7.		0	_		1 Tevalence maex = B/A =		
8.			_		Hydrophytic Vegetation Indicators:		
9.		0	_ =		✓ Dominance Test is > 50%		
10.			_		✓ Prevalence Index is ≤3.0		
Но	Total Cover rb Stratum 50% of Total Cover: _		 0% of Total Cover:	4	 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 		
	- Structum			OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
1	Scheuchzeria nalustris	2					
1.					1 Indicators of hydric soil and wetland hydrology must		
2.	Menyanthes trifoliata	2		OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
2. 3.	Menyanthes trifoliata Trichophorum caespitosum				be present, unless disturbed or problematic.		
2.	Menyanthes trifoliata Trichophorum caespitosum	2 15		OBL OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width)		
2. 3. 4.	Menyanthes trifoliata Trichophorum caespitosum Eriophorum angustifolium Eriophorum viridicarinatum	2 15 2		OBL OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes		
2. 3. 4. 5.	Menyanthes trifoliata Trichophorum caespitosum Eriophorum angustifolium Eriophorum viridicarinatum Carex pauciflora	2 15 2 2		OBL OBL OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width)		
2. 3. 4. 5.	Menyanthes trifoliata Trichophorum caespitosum Eriophorum angustifolium Eriophorum viridicarinatum Carex pauciflora Drosera rotundifolia	2 15 2 2 15		OBL OBL OBL OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width)		
2. 3. 4. 5. 6. 7.	Menyanthes trifoliata Trichophorum caespitosum Eriophorum angustifolium Eriophorum viridicarinatum Carex pauciflora Drosera rotundifolia	2 15 2 2 15 3		OBL OBL OBL OBL OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m (Where applicable) 10m (Wh		
2. 3. 4. 5. 6. 7. 8.	Menyanthes trifoliata Trichophorum caespitosum Eriophorum angustifolium Eriophorum viridicarinatum Carex pauciflora Drosera rotundifolia Carex limosa Carex livida	2 15 2 2 15 3 5		OBL OBL OBL OBL OBL OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width)		
2. 3. 4. 5. 6. 7. 8.	Menyanthes trifoliata Trichophorum caespitosum Eriophorum angustifolium Eriophorum viridicarinatum Carex pauciflora Drosera rotundifolia Carex limosa Carex livida	2 15 2 2 15 3 5 1 1 48		OBL OBL OBL OBL OBL OBL OBL	be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes (Where applicable) % Bare Ground 7 Total Cover of Bryophytes 90		

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SOIL Sampling Point: SW12_T36_05

		to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features					cators)					
Depth (inches)	Color (mois	st)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
	•	-										
								-				
								-				
									-			
								-				
¹Type: C=Cor	ncentration. D=I	Depletion.	RM=Reduce	d Matrix ² Location	on: PL=Por	e Lining. RO	=Root Cha	nnel. M=Matrix	-			
Hydric Soil I	ndicators:			Indicators for Problematic Hydric Soils:								
Histosol or	Histel (A1)			Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder								
Histic Epip	. ,			Alaska Alpine swales (TA5) Underlying Layer								
	Sulfide (A4)			☐ Alaska Redox With 2.5Y Hue ✓ Other (Explain in Remarks)								
	Surface (A12)											
Alaska Gle	, ,							nary indicator of wetland h	ydrology,			
Alaska Red				and an appropria	ate landscap	e position i	must be pre	esent				
	yed Pores (A15))		⁴ Give details of	color chang	e in Remarl	KS .					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes • No ·			
Depth (inch	nes):							•				
HYDROLO	GY											
Wetland Hydi	rology Indicat	ors:						Secondary Indi	cators (two or more are required)			
Primary Indica	tors (any one is	sufficient)						Water Stai	ned Leaves (B9)			
✓ Surface W	/ater (A1)			Inundation	Visible on A	erial Image	ry (B7)	Drainage I	Patterns (B10)			
High Wate	er Table (A2)			Sparsely Ve	getated Cor	cave Surfa	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)			
Saturation	` '			Marl Deposi	. ,				of Reduced Iron (C4)			
Water Ma	rks (B1)			Hydrogen S	ulfide Odor	(C1)		Salt Depos	its (C5)			
	Deposits (B2)			Dry-Season	Water Tabl	e (C2)			Stressed Plants (D1)			
☐ Drift Depo	` ,			Other (Expl	ain in Rema	rks)			ic Position (D2)			
	or Crust (B4)							_	quitard (D3)			
✓ Iron Deposits (B5)									graphic Relief (D4)			
	oil Cracks (B6)						ı	✓ FAC-neutra	al Test (D5)			
Field Observa		(
Surface Water	Present?	Yes •		Depth (inch	ies): 3							
Water Table P	resent?	Yes 🔾	No 💿	Depth (inch	ies):		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾			
Saturation Pre		$_{Yes} \bigcirc$	No 💿	Depth (inch	ies):							
		m gauge, r	nonitor well	, aerial photos, pre	evious inspe	ction) if av	ailable:					
Remarks:												
standing water	in flarks, iron fl	oc and bio	genic sheen									

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