WETLAND DETERMINATION DATA FORM - Alaska Region

	ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 25-Jun-12
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T21_08
	igator(s): SLI, LMF		Landform (hills	side, terrac	e, hummocks etc.): Lowland
	relief (concave, convex, none): flat		_ Slope:	% / 1.7	
		L at :			
	gion : Interior Alaska Mountains	Lal	62.786578153		
	ap Unit Name:				NWI classification: PEM1E
	imatic/hydrologic conditions on the site typical for this ti	•		● No ○	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○
		-	itly disturbed?		omar on ounotanood procont.
Are v	Vegetation ☐ , Soil ☑ , or Hydrology ☐	naturally	problematic?	(If nee	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				
	Hydric Soil Present? Yes ● No ○)			pled Area
	Wetland Hydrology Present? Yes No		wi	thin a W	etland? Yes No
Rem	arks: reticulated fen. graminoid/shrub vegetation on st		irks w bare grou	nd, open w	vater, drosera, and scattered sedges.
VEG	ETATION Has asiantific names of plants I	ده الميادة		-1-4	
VEG	ETATION -Use scientific names of plants. L	ist all sp	recies in the p	DIOT.	Dominance Test worksheet:
Tes	ee Stratum	Absolut % Cove		Indicator Status	Number of Dominant Species
1.		0		Status	That are OBL, FACW, or FAC:3(A)
2.			_		Total Number of Dominant
3.			-		Species Across All Strata:3 (B)
4.			-		Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			-		
	Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sai	pling/Shrub Stratum 50% of Total Cover:		— 9% of Total Cover:	0	0010
	Andromeda polifolia (IAM)	3		OBL	
	Betula nana			FAC	
	Vaccinium oxycoccos			OBL	
5.	Dasiphora fruticosa	1	_	FAC	UPL Species <u>0</u> x 5 = <u>0</u>
6.		0			
		^			Column Totals: <u>79.1</u> (A) <u>103.4</u> (B)
		0			Column Totals: <u>79.1</u> (A) <u>103.4</u> (B) Prevalence Index = B/A = <u>1.307</u>
7.		0			Prevalence Index = B/A = 1.307
7. 8.		0 0		<u></u>	Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators:
7. 8. 9.		0 0 0			Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
7. 8. 9.		0 0 0 0			Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0
7. 8. 9. 10.		0 0 0 0 0			Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
7. 8. 9. 10.	Total Cover rb Stratum 50% of Total Cover:	0 0 0 0 0 0 0 15 7.5 20	O% of Total Cover:		Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
7. 8. 9. 10.	Total Cover rb Stratum 50% of Total Cover: Drosera anglica	0 0 0 0 0 0 15 7.5 20	O% of Total Cover:		Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain)
7. 8. 9. 10. He	Total Cover rb Stratum 50% of Total Cover: _ Drosera anglica Trichophorum caespitosum	0 0 0 0 0 0 15 7.5 20	0% of Total Cover:	OBL	Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
7. 8. 9. 10. He 1. 2.	Total Cover rb Stratum 50% of Total Cover: _ Drosera anglica Trichophorum caespitosum Tofieldia coccinea	0 0 0 0 0 0 15 7.5 20 3	ow of Total Cover:	OBL	Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. 8. 9. 10. He 1. 2. 3.	Total Cover rb Stratum 50% of Total Cover: _ Drosera anglica Trichophorum caespitosum Tofieldia coccinea	0 0 0 0 0 0 7.5 20 3 40	0% of Total Cover:	OBL OBL FAC	Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m
7. 8. 9. 10. He 1. 2. 3. 4.	Total Cover rb Stratum 50% of Total Cover: Drosera anglica Trichophorum caespitosum Tofieldia coccinea Carex rotundata Trientalis europaea	0 0 0 0 0 7.5 20 3 40 1	0% of Total Cover:	OBL OBL OBL	Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. 8. 9. 10. He 1. 2. 3. 4. 5.	Total Cover rb Stratum 50% of Total Cover: Drosera anglica Trichophorum caespitosum Tofieldia coccinea Carex rotundata Trientalis europaea	0 0 0 0 0 15 7.5 20 3 40 1 10 0.1	0% of Total Cover:	OBL FAC OBL FACU	Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes
7. 8. 9. 10. He 1. 2. 3. 4. 5. 6. 7.	Total Cover rb Stratum 50% of Total Cover: Drosera anglica Trichophorum caespitosum Tofieldia coccinea Carex rotundata Trientalis europaea Carex aquatilis	0 0 0 0 0 15 7.5 20 3 40 1 10 0.1	0% of Total Cover:	OBL FAC OBL FACU	Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0
7. 8. 9. 10. He 1. 2. 3. 4. 5. 6. 7.	Total Cover rb Stratum 50% of Total Cover: Drosera anglica Trichophorum caespitosum Tofieldia coccinea Carex rotundata Trientalis europaea Carex aquatilis	0 0 0 0 0 7.5 20 3 40 1 10 0.1 10	ow of Total Cover:	OBL FAC OBL FACU	Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes (Where applicable) % Bare Ground 40
7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7. 8. 9.	Total Cover rb Stratum	0 0 0 0 0 7.5 20 3 40 1 10 0.1 10	0% of Total Cover:	OBL FAC OBL FACU	Prevalence Index = B/A = 1.307 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes (Where applicable) % Bare Ground 40
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SOIL Sampling Point: SW12_T21_08

Depth -	Matrix			ent the indicator or confirm the absence of indicators) Redox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
								-
								-
	-							
Tunou C-Cons	ontrotion D Double		ced Matrix ² Location	DI - Doro	Lining DC	- Doot Cho	and M-Matrix	-
	<u> </u>	ion. RM=Reduc			_		nnei. M=Matrix	
lydric Soil Ind			Indicators for P		4	oils:	l	
☐ Histosol or H	` ,		Alaska Color (Alaska Gleyed Without F Underlying Layer	lue 5Y or Redder
Histic Epiped			☐ Alaska Alpine☐ Alaska Redox			✓	Other (Explain in Remar	ke)
∐ Hydrogen Sι	` ,		☐ AldSka Redux	WIUI Z.51 HU	ie	Ų.	Other (Explain in Remai	10)
	Surface (A12)		³ One indicator of	f hydrophytic	vegetatio	n, one prim	nary indicator of wetland I	hydrology,
Alaska Gleye Alaska Redo:			and an appropria	ate landscape	position r	nust be pre	esent	
_	ed Pores (A15)		4 Give details of	color change	in Remark	s		
estrictive Layer	(if present):						Hadda Call Days	t? Yes • No ·
Tumor							Hydric Soil Present	t? Yes 🖭 No 🔾
	<u>-</u>	oughout site. as	ssume hydric soils ba	ased on hydro	ophytic ve	getation an	d wetland hydrology.	
Depth (inchest emarks: o soil pit due to	standing water thro	oughout site. as	ssume hydric soils ba	ased on hydro	ophytic ve	getation an	d wetland hydrology.	
Depth (inchesternates: a soil pit due to	standing water thro	oughout site. as	ssume hydric soils ba	ased on hydro	ophytic ve	getation an		icators (two or more are required)
Depth (inches emarks: soil pit due to	standing water thro		ssume hydric soils ba	ased on hydro	ophytic ve	getation an	_Secondary Ind	
Depth (inchest permarks: a soil pit due to permarks: a soil pit due to permark) YDROLOG retland Hydro rimary Indicato	standing water through						_Secondary Ind	icators (two or more are required) ined Leaves (B9) Patterns (B10)
Depth (inches emarks: a soil pit due to emarks: a soil pit due to emarks: a soil pit due to emark for emar	standing water through		Inundation	Visible on Aer	rial Image	ry (B7)	Secondary Ind Water Sta Drainage	ined Leaves (B9) Patterns (B10)
PEROLOG PETIANDE TO THE T	standing water through the standing water throug		Inundation	Visible on Aer getated Conc	rial Image	ry (B7)	Secondary Ind Water Sta Drainage Oxidized F	ined Leaves (B9) Patterns (B10)
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